



C. Earl Hunter, Commissioner

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

**JUL 24 2008**

**MARK CREEL  
CONSULTECH ENVIRONMENTAL  
1517 OLD APEX ROAD  
CAREY NC 27513**

Re: Additional Tier II Directive  
Interstate Truck Terminal, Hwy 301 & 321, Ulmer, SC  
UST Permit #00332; CA# 31575; MWA# UMW-21456  
Bid Specification IFB-30950-11/7/06-EMW; PO #663641  
Tier II Report received November 6, 2006  
Allendale County

Dear Mr. Creel:

The Underground Storage Tank (UST) Program has reviewed the Tier II report. Assessment activities should begin immediately upon receipt of this letter.

**The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with bid number IFB-30950-11/7/06-EMW.** Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable. The SCDHEC reserves the right to audit project records at any time during the project or after completion of the work. **The Additional Tier II Assessment Report (2 hardcopies and 1 electronic copy) and invoice should be submitted within 60 days from the date of this correspondence.**

Cost agreement number 31575 has been approved in the amount shown on the enclosed cost agreement spreadsheet to install six temporary wells to collect groundwater samples with two-day turn around time to determine the location of six shallow monitoring wells to define the horizontal extent of the plume, install two deep monitoring wells (one deep well should be adjacent to monitoring well MW-5R and one deep well should be installed adjacent to WSW-1) and sample all of the monitoring wells and water supply wells within 1000 feet at the referenced site. Consultech Environmental, Inc., can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account once the plume is defined. The report preparation fee will not be reimbursed if the locations of all water supply wells within 1,000 feet of the facility are not documented on the Site Location Map (Figure 1) and all water supply wells and surface water bodies within 500 feet of the facility are not documented on the Site Plan Map (Figure 2). If the new shallow wells do not bracket the water table and deep wells are not installed between the source area and private wells, the SUPERB Account will not pay mobilization and well footage costs for the deficient monitoring wells. If the plume is not defined both vertically and horizontally, Consultech will not be reimbursed for additional equipment mobilizations after this scope of work. Future invoices and/or other criteria included therein must comply with the referenced bid specifications. Please reference cost agreement number 31575 on all pertinent invoices and correspondence. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the Department is obtained. If for any reason there is a change in this cost agreement, any associated changes must be pre-approved by this Department in order for Consultech Environmental, Inc. to seek future cost compensation.

**UST DOCKET** / *Task*

Please provide the following items in the final report:

- Narrative summary of all activities conducted by Consultech to date plus this scope of work for the release.
- Revised geological cross section for all additional monitoring wells.
- Revised tables and figures that include previous data plus data associated with the new assessment activities.
- Revised site map with the location of the on-site water supply
- Location on maps, address of each private well within 1,000 feet of the facility plus a table with the current name, address, and telephone number for each well owner.

A monitoring well approval has been enclosed for your records. Once screening results are completed, please coordinate with the UST Project Manager before permanent monitoring wells are installed. Please note that all applicable South Carolina certification requirements regarding laboratory analyses, well installation, and report preparation must be met.

The Department grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. As required by the referenced bid, a roll off container will be used for disposal vs. drums of soil cuttings if more than fifteen (15) drums of cuttings are generated. There can be no spillage or leakage in transport. All investigative-derived water (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 the UST Permit # 00332. If you have questions concerning this correspondence, or would like to submit additional information, please contact me at (803) 896-6395, fax me at (803) 896-6245, or e-mail me at johnsoms@dhec.sc.gov.

Sincerely,

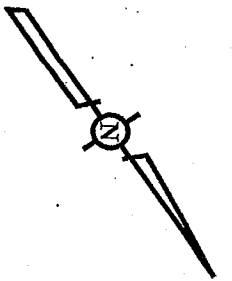


Minda Johnson, Hydrogeologist  
Assessment Section, Assessment & Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land & Waste Management

enc: Approved Cost Agreement  
Monitoring Well Approval

cc: Mr. Julius Moody, Rt. 3 Box 192 B, Bamberg, SC 29003-9501  
Mr. Carlyle Moody, 1375 Capernum Road, Bamberg, SC 29003  
Mr. William Myrick, Jr., PO Box 555, Allendale, SC 29810  
Technical File (w/ enc.)





WOODED  
MW-11

MW-12

WOODED  
MW-13  
DW-4

WOODED

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

DW-1

MW-2

MW-14

DW-3

MW-4R

MW-6

MW-9

ASPHALT/CONCRETE

MW-1

MW-3

INTERSTATE TRUCK

CONCRETE

MW-5R

MW-10

DW-2

MW-8

WSW-2 (APPROX. 165')

GRASS

MW-7

WSW-1 (INACTIVE)

**LEGEND**

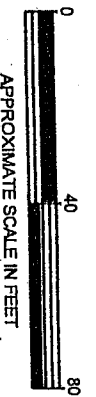
MW-7 SHALLOW MONITORING WELL

DW-2 DEEP MONITORING WELL

WSW-1 WATER SUPPLY WELL

FORMER UST PIT

DISPENSER ISLAND



APPROXIMATE SCALE IN FEET

CONSULTECH ENVIRONMENTAL, INC.  
 Environmental Consulting and Engineering  
 1989

DRAWN: MAC	DATE: 10/24/06
SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

proposed deep well location  
 proposed shallow well location

CAD FILE = C-05-05-032.dwg

FIGURE 2  
SITE PLAN MAP

# Approved Cost Agreement 31575

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

JOHNSOMS

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		A EQUIPMENT	2.0000	150.00	300.00
		B PERSONNEL	4.0000	50.00	200.00
06 SOIL BORINGS (DRILLED)		A SOIL BORINGS & FLD SCREENING	210.0000	10.00	2,100.00
09 WELL INSTALLATION		B WATER TABLE (DRILLED)	210.0000	25.00	5,250.00
		C TELESCOPING	140.0000	35.00	4,900.00
10 SAMPLE COLLECTION		A GROUND WATER	12.0000	50.00	600.00
		C WATER SUPPLY	4.0000	20.00	80.00
		D GROUNDWATER NO-PURGE	14.0000	15.00	210.00
11 ANALYSES	GW GROUNDWATER	A BTEX+NAPTH+MTBE	30.0000	35.00	1,050.00
		B RUSH BTEX+NAPTH+MTBE	6.0000	70.00	420.00
		E LEAD	30.0000	7.00	210.00
		F EDB	30.0000	35.00	1,050.00
16 SUBSEQUENT SURVEY		SUBSEQUENT SURVEY	1.0000	50.00	50.00
17 DISPOSAL		A1 WASTEWATER - PURGING/SAMPLING	10.0000	150.00	1,500.00
		C SOIL (TREATMENT/DISPOSAL)	14.0000	175.00	2,450.00
19 RPT/PROJECT MNGT & COORDINATIO		PCT PERCENT	0.0400	20,370.00	814.80
				<b>Total Amount</b>	<b>21,184.80</b>

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-00332 Facility: INTERSTATE TRUCK TERMINAL INC**

<u>Bus.</u>	HWY 301 & 321		<u>Phone</u>				
<u>Address</u>	ULMER	SC 29849	<u>County</u>	Allendale	<u>District</u> Aiken EQC Office		
<u>Category</u>	Non-Retail Operation		<u>Last Inspection</u>	09/12/01	<u>Trans. of Ownership</u>		
<u>Tank Owner</u>	MOODY, JULIUS						
<u>Bus.</u>	RT 3 PO BOX 192 B						
<u>Address</u>	BAMBERG	SC 29003-9501	<u>Phone</u>	803-245-4470			
<u>Operator</u>							
<u>Bus.</u>							
<u>Address</u>							
<u>Phone</u>							
<u>Land Owner</u>							
<u>Bus.</u>							
<u>Address</u>							
<u>Phone</u>							
<u>Tanks</u>	9	<u>Billable</u>	0	<u>Aband.</u>	0	<u>Other</u>	9
	<u>Compliance Operator(s)</u>			<u>ID</u>	<u>Training Date</u>		

**Significant?** N **Memo Date:** 10/09/02

**Site Memo:** Tanks 1-9 were emptied of 746 gallons of liquid on 9-13-02. GTWA received 10-09-02 documented GW impact at site in MW-2 at dispenser island closest to highway.

**Significant?** N **Memo Date:** 12/30/02

**Site Memo:** GTWA results indicate groundwater impacted above RBSLs. USTs at site do not meet 1998 standards.

**Significant?** Y **Memo Date:** 07/31/02

**Site Memo:** Soil analytical results from Dept assessment > DL but < RBSLs. Will have GTWA performed at site.

**Significant?** N **Memo Date:** 05/02/05

**Site Memo:** Mr. William E. Myrick, Jr. (803 584-4333) is the attorney representing Mr. Moody. Send letters to: PO Box 555, Allendale, SC 29810  
Property owner is Carlyle Moody, 1375 Capernaum Rd., Bamberg, SC

**Significant?** N **Memo Date:** 02/24/01

**Site Memo:** T/O TO MR. JULIUS MOODY 1/1/87 AS NOTED ON DEED PER LEGAL OFFICE i  
AND MIKE DAVIS, UST SECTION MANAGER.   
ARROW DOWN TO SEE NEXT SITE--   
  
Deleted duplicate site 00332 RML 11/18/93   
5/24/94-This site is being worked on by jsr.   
7/29/94-Ansonia Point talked with Mr. Moody and he is sending i  
something in to her stating that the USTs are RNU. jsr.

# SCDHEC UST Management Tracking

BOTH billable and unbillable tanks

Site Information for N-00332 Facility: INTERSTATE TRUCK TERMINAL INC

6-30-95 site is in enforcement for fees and ownership dispute. dmo  
 1/31/96 - only found 8 tanks. Tanks have been RNU. Leasee says i  
 tanks were taken out of use @ 1979. JDC  
 01-28-97 Per inspection, I found 9 tanks and a possible waste oil i  
 tank behind the facility. I could not verify the waste oil. All i  
 tanks are tou and for the most part are all empty. RSM  
 8-31-98 PER BOB H TANKS HAVE BEEN UPDATED TO RNU STATUS AS OF APRIL i  
 '87. DMO  
 11/21/00Mr Moody's lawyer called. Bill Myrick..803-584-4333  
 Mr Moody is disabled. The property is for sale. Couple of acres.  
 Location is just across bridge on the left after the intersection of i  
 HWY 321/301 going towards Allendale from Columbia. Mr Myrick said i  
 they were more than willing to cooperate in any venture that would i  
 lead to resolving this issue. JEK

<b>Rel. No.</b> 2	<b>Reported</b> 06/21/02	<b>Status</b> Confirmed - Active	<b>Product</b> Petroleum	<b>Compl Required</b> Y
<b>Active Tnks</b>	<b>NFA</b>	<b>Fin. Type</b> Cannot qualify (N	<b>RBCA / Score</b> 2BB 28	<b>Compliance Met</b> N
	<b>Confirmed</b> 10/09/02	<b>Emer. Resp.</b>	<b>Superb Qualified</b>	<b>Compliance Met Dt</b>
	<b>CU Init.</b>	<b>Abate. Met</b>	<b>Superb Determ. Dt</b>	<b>Fin Res Mechanism</b>
	<b>CU Compl.</b>	<b>Transferred</b>	<b>Project Manager</b> JOHNSON, MINDA	
	<b>CU &gt; MCL</b>	<b>Source</b> UST	<b>Responsible Party</b> MOODY, JULIUS	

Tank No.	1	Const.	Class	N	Tank Const. Mat.	SL	Pipe Const. Mat.	SL
		Operate	T Status	RNU	Tank Protect.	CP CP	Pipe Protect.	CP CP
		Notify 04/01/87	Capacity	8,000	Tank Cont. Meth.	SW	Pipe Cont. Meth.	SW
		Variance	Product	DL	Overfill Type	Ver	Piping Type	PR
		Compl.	C Status		Age @ Notif.	25	Dist. to Well	
		Spill Det.	Left Gal.	0	Owner @ ABD		Last Use	04/01/87
		Aband.	Method		CAS No.	Chem.		
		Under Dispenser Cont.	N	Drop Tube	N	Tank Leak Det.	Pipe Leak Det.	
Tank No.	2	Const.	Class	N	Tank Const. Mat.	SL	Pipe Const. Mat.	SL
		Operate	T Status	RNU	Tank Protect.	CP CP	Pipe Protect.	CP CP
		Notify 04/01/87	Capacity	8,000	Tank Cont. Meth.	SW	Pipe Cont. Meth.	SW
		Variance	Product	DL	Overfill Type	Ver	Piping Type	PR
		Compl.	C Status		Age @ Notif.	25	Dist. to Well	
		Spill Det.	Left Gal.	0	Owner @ ABD		Last Use	04/01/87
		Aband.	Method		CAS No.	Chem.		
		Under Dispenser Cont.	N	Drop Tube	N	Tank Leak Det.	Pipe Leak Det.	
Tank No.	3	Const.	Class	N	Tank Const. Mat.	SL	Pipe Const. Mat.	SL
		Operate	T Status	RNU	Tank Protect.	CP CP	Pipe Protect.	CP CP
		Notify 04/01/87	Capacity	8,000	Tank Cont. Meth.	SW	Pipe Cont. Meth.	SW
		Variance	Product	GN	Overfill Type	Ver	Piping Type	PR
		Compl.	C Status		Age @ Notif.	25	Dist. to Well	
		Spill Det.	Left Gal.	0	Owner @ ABD		Last Use	04/01/87
		Aband.	Method		CAS No.	Chem.		
		Under Dispenser Cont.	N	Drop Tube	N	Tank Leak Det.	Pipe Leak Det.	
Tank No.	4	Const.	Class	N	Tank Const. Mat.	SL	Pipe Const. Mat.	SL
		Operate	T Status	RNU	Tank Protect.	CP CP	Pipe Protect.	CP CP
		Notify 04/01/87	Capacity	6,000	Tank Cont. Meth.	SW	Pipe Cont. Meth.	SW
		Variance	Product	DL	Overfill Type	Ver	Piping Type	PR
		Compl.	C Status		Age @ Notif.	25	Dist. to Well	
		Spill Det.	Left Gal.	0	Owner @ ABD		Last Use	04/01/87
		Aband.	Method		CAS No.	Chem.		
		Under Dispenser Cont.	N	Drop Tube	N	Tank Leak Det.	Pipe Leak Det.	

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-00332 Facility: INTERSTATE TRUCK TERMINAL INC**

<u>Tank No.</u>	5	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	6,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<u>Tank No.</u>	6	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	6,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<u>Tank No.</u>	7	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	DL	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<u>Tank No.</u>	8	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	DL	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<u>Tank No.</u>	9	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	DL	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	



# CONSULTECH ENVIRONMENTAL, LLC.

#00332

October 31, 2006

Ms. Minda Johnson, Hydrogeologist  
Assessment Section  
Assessment & Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land & Waste Management  
South Carolina DHEC  
2600 Bull Street  
Columbia, South Carolina 29201

RECEIVED

JAN 08 2009

UNDERGROUND STORAGE  
TANK PROGRAM

RE: Tier II Assessment Report  
Interstate Truck Terminal  
Highway 301/ 321  
Ulmer, South Carolina  
SCDHEC Site ID #332, CA#26142

COPY

Dear Ms. Johnson,

Consultech is pleased to submit this copy of the Tier II Assessment Report, prepared for the above referenced facility in accordance with the Tier II Assessment Plan (Tier II) document dated March 15, 2000, and contract SB-26861-10/26/04-EMW dated November 15, 2004, as authorized by the South Carolina Department of Health and Environmental Control (SCDHEC).

If you should have any questions about this report, please do not hesitate to contact me at (919) 858-5350.

Sincerely,

**CONSULTECH ENVIRONMENTAL, INC.**

Raj B. Shah, P.E.  
Technical Director

cc: File C-05-05-032

# **TIER II ASSESSMENT ADDENDUM REPORT**

**Interstate Truck Terminal  
Highway 301/ 321  
Ulmer, South Carolina  
UST Permit #332, CA #31575**

**Prepared for:**

**South Carolina Department of Health  
And Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201**

**Prepared by:**

**Consultech Environmental, LLC  
P.O. Box 5306  
Cary, North Carolina 27512**

**Consultech Project No. C-05-05-032**

**December 2008**

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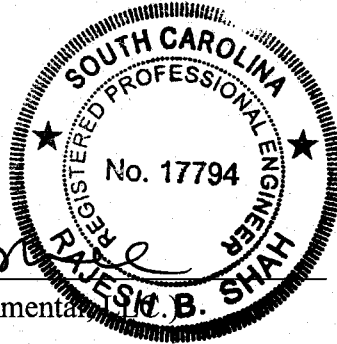
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# TIER II ASSESSMENT CERTIFICATION

## Tier II Assessment Addendum Report (Tier II) Certification

I hereby certify that the information contained in this plan and the associated attachments are true, accurate, and complete, and the plan satisfies all the criteria and requirements of the Tier II assessment guidelines dated December 6, 2005.

I hereby certify that I have directed the fieldwork and preparation of this plan in accordance with State Rules and Regulations. As a professional engineer, I certify that I am a qualified groundwater professional, as defined by the South Carolina Board of Registration for Engineers. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.



*Raj B. Shah*  
Raj B. Shah, P.E. (Consultech Environmental)  
Technical Director

1/7/09  
Date

## **1.0 PROJECT BACKGROUND INFORMATION**

This section presents the purpose of the Tier II Assessment Addendum Report, a description of the site, and the site assessment history.

### **1.1 Purpose**

The purpose of this Tier II Assessment Addendum is to provide the South Carolina Department of Health and Environmental Control (SCDHEC) with sufficient information to determine if the petroleum release reported in the previous Tier I Assessment conducted by Geological Resources, Inc. and the Tier II Assessment Report prepared by Consultech concerning the Interstate Truck Terminal site poses a potential risk to human health or to the environment. This Tier II Assessment Addendum specifically provides information outlined in the scope of work as defined in the SCDHEC Tier II Assessment Plan (Tier II) guidance document, dated December 6, 2005. Please reference Consultech's Standard Operating Procedures document, dated March 2007. This report is an Addendum to the Tier II Assessment Report prepared by Consultech dated October 31, 2006 and presents the extent of petroleum hydrocarbons released to the environment and an evaluation of the risk of exposure to potential receptors.

### **1.2 Site Description**

The subject site, the Interstate Truck Terminal, is located on the east side of Highway 301/321 in Allendale County (Figures 1 and 2). It currently contains a vacant building and reportedly had nine gasoline and diesel underground storage tanks (USTs) that were closed on September 13, 2002.

### **1.3 Site Assessment History**

Groundwater contaminated with petroleum was discovered in a previous assessment received by the South Carolina UST Assessment Section on October 9, 2002. A Tier I Assessment Report was completed by Geological Resources, Inc. that was dated April 27, 2005. A Tier II Assessment Report was completed by Consultech and was dated October 31, 2006.

## **2.0 POTENTIAL RECEPTOR SURVEY**

The receptor survey included a private and public groundwater supply well search, a surface water body search in the area of the site, an underground utility survey, and a discussion of current and future uses of the site and down gradient properties.

## **2.1 Location of Drinking Water Supplies**

Three private water supply wells (Appendix 1) are located within 1000 feet of the site. One well is located at an abandoned motel/restaurant approximately 600 feet to the north and is inactive. A second well (WSW-1) is located approximately 60 feet east of the on-site building and is not in use. A third well (WSW-2) is located approximately 500 feet south of the on-site building and supplies groundwater to three homes. This well was sampled by Consultech on September 6, 2006 and on December 10, 2008, but contaminants were not detected.

## **2.2 Location of Surface Water Bodies**

An area of marshland and a tributary of the Salkehatchie River are located approximately 250 feet northwest of the site. A drainage pond is located approximately 500 feet east of the site.

## **2.3 Underground Utility Survey**

Telephone and water lines run along Highway 301/321 adjacent to the site.

## **2.4 Current and Future Uses of the Site and Downgradient Properties**

The site is bordered by woods, an active gas station, and an inactive gas station across Highway 301/321 to the north and west. A former retail petroleum facility is located to the north. Properties to the south and east are residential and commercial. Future uses of the surrounding area are likely to remain the same.

# **3.0 HYDROGEOLOGY AND GEOLOGY**

## **3.1 Regional Geology and Hydrogeology**

The subject site occupies a portion of the Atlantic Coastal Plain Physiographic Province and consists of Lower Cretaceous to recent age sediments overlying older igneous and metamorphic crystalline rocks. These sediments form a wedge that dips seaward from the fall line, and thickens towards the coast. Surface sediments at the site are marine or fluvial deposits. Deeper sediments consist of a wedge of unconsolidated to poorly consolidated sand and clay. Sediments below the site consist of aquifers and confining units based on their relative permeability and lithology. The major aquifer systems are the Middendorf Aquifer System, the Black Creek Aquifer System, the Tertiary Aquifer System, and the Surficial Aquifer System. The Surficial Aquifer System is usually less than 50 feet in thickness and thickens towards the coast.

### **3.2 Site Hydrogeology**

For this site, a benchmark was established with an assumed elevation of 100.00 feet above the National Geodetic Vertical Datum (NGVD) at the site. The most recent groundwater elevations were measured on December 10, 2008, in monitoring wells MW-1 through MW-3, MW-4R, MW-5R, MW-6 through MW-20 and DW-1 through DW-6, in order to determine static water levels, to establish the groundwater gradient, and to check for liquid phase hydrocarbons (LPH). The groundwater elevations in the on-site shallow monitoring wells ranged from 69.42 feet (MW-16) to 74.33 feet (MW-19), with respect to a relative datum elevation of 100.00 feet. LPH was detected in monitoring well MW-3 (1.50 feet). A summary of the well and groundwater elevation data collected from the monitoring wells is presented in Table 1.

### **3.3 Site Geology**

Soils from borings and the monitoring wells at the site consist predominantly of fine sandy silt from the surface to approximately 12 feet below the ground surface (bgs). A silty clay is present from 12 feet to approximately 17 feet bgs. Coarse to fine silty sand is present from 17 feet to 35 feet bgs. Soil types appear to be generally similar laterally across the site at each depth. Stratigraphic cross-sections A-A' and B-B' (locations shown on Figure 3) are presented on Figures 4 and 5, respectively.

### **3.4 Site Topography**

The elevation at the subject property, as evidenced by the U.S.G.S. 7.5-minute quadrangle topographic map for the area (Sycamore, South Carolina, Figure 1) appears to be approximately 48 feet above mean sea level. The general direction of surface water drainage in the site vicinity appears to be to the west. An area of marshland and a tributary of the Salkehatchie River are located approximately 250 feet northwest of the site.

## **4.0 INVESTIGATIVE METHODS AND SAMPLING**

### **4.1 Field Screening**

Field screening was not conducted during this Tier II Assessment Addendum investigation. However, during the previous Tier II Assessment conducted by Consultech, soil was collected at five-foot intervals bgs from 31 soil borings (SB-1 through SB-31) and then scanned with a calibrated Flame Ionization Detector (FID). The previous field screening results are presented in Table 2. Six groundwater samples (GW-1 through GW-6) were collected from borings during the field screening and were analyzed for the presence of benzene, toluene, ethyl benzene, and total xylenes (BTEX).

## **4.2 Monitoring Well Installation**

Soil samples were described on the basis of lithology, color, and texture. Twenty three monitoring wells were installed during the Tier II Assessment and Tier II Assessment Addendum investigations at this site. The shallow monitoring wells, MW-4R through MW-20 are two-inch diameter PVC wells drilled to 35 ft bgs with 10 feet of screen. Six deep wells were also installed at the site. DW-1 through DW-4 were installed with a six-inch isolation casing cemented at 60 feet bgs. The wells were drilled to a total depth of 70 feet bgs and completed with two inch PVC casing screened from 65 to 70 feet bgs. DW-5 and DW-6 were installed with a six-inch isolation casing cemented at 70 feet bgs. The wells were drilled to a total depth of 85 feet bgs and completed with two inch PVC casing screened from 80 to 85 feet bgs. Well construction diagrams are included with the soil boring logs in Appendix 2. Existing monitoring wells (MW-1, MW-2, and MW-3) installed by previous contractors were also utilized for this investigation.

## **4.3 Soil Sampling**

Soil sample SS-1 was collected from the drill cuttings for soil disposal purposes. The soil cuttings generated during Consultech's drilling activities were placed in 55-gallon drums. The soil cuttings were then disposed of in accordance with local, state and federal laws (Appendix 3).

## **4.4 Groundwater Sampling**

Prior to groundwater sampling, groundwater field parameters including dissolved oxygen, pH, temperature, and conductivity were collected from 26 groundwater monitoring wells at the site. The results are presented in Table 3.

During the Tier II Assessment, water samples were obtained from borings GW-1 through GW-6, on August 22, 2006, and analyzed for BTEX. Analysis results for these samples are presented in Table 4.

During the Tier II Assessment, groundwater samples were collected on September 6, 7, 13, and 14, 2006 and October 2, 2006 from shallow monitoring wells MW-1 through MW-14, deep wells DW-1 through DW-4 and the adjacent water supply well (WSW-2), and sent to the lab for analysis. The monitoring wells and water supply wells were analyzed for BTEX, ethylene dibromide (EDB), methyl tertiary butyl ether (MTBE), 1,2-dichloroethane (1,2-DCA), naphthalene, lead, and 8 oxygenates. MW-1 through MW-14 and DW-1 through DW-4 were sampled for nitrate, dissolved iron, methane, and sulfate.

During the present Tier II Assessment Addendum investigation, groundwater samples were collected on December 10, 2008 from shallow monitoring wells MW-1 through MW-20, deep wells DW-1 through DW-6 and the adjacent water supply well (WSW-2), and sent to the lab for analysis. The monitoring wells and water supply wells were analyzed for BTEX, ethylene dibromide (EDB), methyl tertiary butyl ether (MTBE),

naphthalene, and lead.

The laboratory reports are included in Appendix 4 and summarized in Tables 4 and 5.

## **5.0 PHYSICAL AQUIFER CHARACTERISTICS**

### **5.1 Hydraulic Conductivity Tests**

Consultech previously conducted in-situ hydraulic conductivity tests in monitoring wells MW-3, MW-5R, and MW-7 (Appendix 5). The hydraulic conductivity tests were conducted by using a bailer or pump to bail out as much water as possible. Using an oil/water interface probe, the water levels were then recorded over time as the water levels in the wells returned to their static levels. The recovery data and completion details of the wells were used to determine the in-situ hydraulic conductivity using the Bouwer and Rice method for the case of a semi-confined aquifer, partially penetrated by a well. The hydraulic conductivities calculated by this method are considered estimated values based on several assumptions, most notably homogenous, isotropic aquifer flow with minimal sand pack recharge.

### **5.2 Direction and Rate of Groundwater Flow**

On December 10, 2008, groundwater depths for monitoring wells MW-1 through MW-20 and DW-1 through DW-6 were measured and their corresponding elevations are presented in Table 1. All wells were gauged for the presence of LPH using an oil/water interface probe with LPH detected in monitoring well MW-3 (1.5 feet).

The groundwater elevations taken on December 10, 2008 are illustrated in the groundwater potentiometric map on Figure 6 and indicate that the shallow groundwater flow direction appears to be towards the northeast. Based on the groundwater elevations in monitoring wells MW-16 and MW-19, and the distances between these wells, the average hydraulic gradient (referenced as "i") is estimated to be 0.008 feet per foot (ft/ft).

The shallow groundwater flow velocity (V) was estimated for the site using the Darcy equation,  $V=(K \times i)/n_{eff}$ , with the average K (20.49 feet per day), the gradient i (0.008 ft/ft), and the estimated effective porosity ( $n_{eff}$ ) of 0.30. This equation assumes a homogeneous, isotropic aquifer that is infinite in a real extent (i.e., no boundary conditions). Based on this calculation, the average groundwater velocity is estimated to be 0.55 ft/day or 201 ft/yr (Appendix 5).



## 6.0 HORIZONTAL AND VERTICAL EXTENT OF PETROLEUM HYDROCARBONS

### 6.1 Extent of Petroleum Contamination in Soil

The delineation of the soil contamination at the site was not a part of this investigation.

### 6.2 Extent of Petroleum Contamination in Groundwater

During this Tier II Assessment Addendum investigation, groundwater samples were collected on December 10, 2008 from shallow monitoring wells MW-1 through MW-20 and deep wells DW-1 through DW-6. Table 4 presents the Tier II Assessment and Tier II Assessment Addendum investigation analytical results for BTEX, MTBE, 1,2-DCA, and naphthalene in groundwater at the site. Figure 7 demonstrates that benzene was detected in groundwater above the risk based screening level (RBSL) of 5.0 micrograms per liter ( $\mu\text{g/l}$ ) in monitoring wells MW-1 (6.4  $\mu\text{g/l}$ ), MW-2 (154  $\mu\text{g/l}$ ), MW-3 (7  $\mu\text{g/l}$ ), MW-4R (45  $\mu\text{g/l}$ ), MW-5R (7  $\mu\text{g/l}$ ), MW-6 (170  $\mu\text{g/l}$ ), MW-9 (63  $\mu\text{g/l}$ ), MW-14 (28  $\mu\text{g/l}$ ), and MW-16 (32  $\mu\text{g/l}$ ).

Toluene (Figure 8) was detected in the groundwater above the RBSL of 1,000  $\mu\text{g/l}$  in monitoring wells MW-2 (2,180  $\mu\text{g/l}$ ), MW-4R (1,120  $\mu\text{g/l}$ ), MW-6 (2,450  $\mu\text{g/l}$ ), MW-9 (1,540  $\mu\text{g/l}$ ), and MW-14 (3,220  $\mu\text{g/l}$ ). Ethylbenzene (Figure 9) was detected in groundwater above the RBSL of 700  $\mu\text{g/l}$  in monitoring wells MW-2 (1,450  $\mu\text{g/l}$ ), MW-4R (976  $\mu\text{g/l}$ ), MW-6 (1,360  $\mu\text{g/l}$ ), and MW-14 (1,080  $\mu\text{g/l}$ ). Figure 10 indicates that total xylenes were not detected above the RBSL of 10,000  $\mu\text{g/l}$  in any of the monitoring wells.

Naphthalene (Figure 11) was detected in groundwater above the RBSL of 25.0  $\mu\text{g/l}$  in monitoring wells MW-2 (271  $\mu\text{g/l}$ ), MW-3 (268  $\mu\text{g/l}$ ), MW-4R (432  $\mu\text{g/l}$ ), MW-5R (136  $\mu\text{g/l}$ ), MW-6 (414  $\mu\text{g/l}$ ), MW-9 (167  $\mu\text{g/l}$ ), MW-14 (167  $\mu\text{g/l}$ ), MW-16 (263  $\mu\text{g/l}$ ), and MW-19 (58  $\mu\text{g/l}$ ).

Deep monitoring wells DW-1 through DW-6 did not have contaminants or the contaminants were present at concentrations below their RBSL. MTBE (Figure 12) was not detected in the groundwater at the site.

Table 5 presents the Tier II Assessment and Tier II Assessment Addendum investigation analytical results for the natural attenuation parameters, EDB, and lead concentrations, that were measured during the September 6, 7, 13, and 14, 2006, October 2, 2006, and December 10, 2008 sampling events, in monitoring wells MW-1 through MW-20 and DW-1 through DW-6. Lead (Figure 13) was present above the RBSL of 0.015 milligrams per liter ( $\text{mg/l}$ ) during the Tier II Assessment Addendum investigation, in monitoring wells MW-4R (0.026  $\text{mg/l}$ ), MW-5R (0.305  $\text{mg/l}$ ), MW-6 (0.028  $\text{mg/l}$ ), MW-

8 (0.046 mg/l), MW-15 (0.017 mg/l), and MW-20 (0.068 mg/l). EDB was present above the RBSL of 0.05 ug/l in monitoring wells MW-2 (0.09 µg/l), MW-6 (0.24 ug/l), MW-9 (0.06 ug/l), MW-14 (0.06 ug/l), DW-5 (0.21 µg/l), and DW-6 (0.19 µg/l). The monitoring well samples were not analyzed for the total of the eight oxygenates (TO) during the Tier II Assessment Addendum investigation.

### **6.3 Extent of LPH Plume**

LPH was detected in monitoring well MW-3 (1.50 feet).

## **7.0 GROUNDWATER MODELING**

### **7.1 Domenico's Model**

The Domenico's Model will be utilized by South Carolina DHEC to determine site-specific target levels (SSTLs) for the source area.

### **7.2 Fate and Transport Modeling**

South Carolina DHEC will conduct fate and Transport modeling.

## **8.0 TIER II SITE EVALUATION**

### **8.1 Site Conceptual Model and Exposure Points**

During the previous Tier II Assessment investigation, a site conceptual exposure model was completed for the site that identified exposure pathways and the model can be referenced in that report.

A release from USTs has resulted in groundwater contamination with concentrations above the RBSLs. The site is down gradient from three homes that share a potable water supply well. There remains some potential for this well to become impacted in the future.

### **8.2 Site Specific Point of Compliance**

Establishing site-specific points of compliance was not included in the scope of Consultech's current Tier II investigation.

### **8.3 Natural Attenuation Parameters Evaluation**

Dissolved oxygen (DO) concentrations measured in each monitoring well ranged from 0.3 mg/l in monitoring wells MW-3 and DW-1 to 71.1 mg/l in monitoring well MW-16. A comparison of Tables 4 and 5 shows that there is no apparent correlation between DO concentrations and dissolved concentrations of the petroleum fuel related compounds.

In the previous Tier II Assessment Report, correlations were made between the concentrations of natural attenuation parameters within and outside of the contaminant plume and the correlations can be referenced in that report. However, natural attenuation parameters were not analyzed in the Tier II Assessment Addendum investigation.

### **8.4 Calculation of Site Specific Target Levels**

South Carolina DHEC will calculate SSTL's.

### **8.5 RBCA Site Classification**

Based on the SCDHEC document "Risk Based Corrective Action for Petroleum Releases" dated May 15, 2001, Appendix A – RBCA Site Priority Classification System, Consultech classifies this release as a 2b because potable supply wells are located within 1,000 feet of the site.

## **9.0 RECOMMENDATIONS**

The groundwater contaminant plume has been mostly delineated, however, monitoring wells MW-16, DW-5, and DW-6 contained groundwater contaminants at concentrations that exceeded their RBSLs. A large abandoned building is located adjacent to, and northeast of, MW-16, so additional groundwater assessment may not be necessary down gradient of MW-16 until this structure has been removed. LPH were detected in monitoring well MW-3. Consultech recommends continued monitoring of water supply well WSW-2.

## 10.0 REFERENCES

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# TABLES

**Table 1**  
**Well Construction Details, Groundwater Elevation Data**  
**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**  
**Consultech Project C-05-05-032**

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
MW-1	09/18/06	25'-35'	103.24		29.58	73.66
MW-2	09/18/06	25'-35'	102.49		29.44	73.05
MW-3	09/18/06	24'-34'	103.46	28.85	30.35	73.11
MW-4R	09/18/06	25'-35'	101.87		28.09	73.78
MW-5R	09/18/06	25'-35'	103.94		31.94	72.00
MW-6	09/18/06	25'-35'	101.38		29.26	72.12
MW-7	09/18/06	25'-35'	104.36		31.91	72.45
MW-8	09/18/06	25'-35'	102.76		31.07	71.69
MW-9	09/18/06	25'-35'	99.67		28.79	70.88
MW-10	09/18/06	25'-35'	102.33		28.74	73.59
MW-11	09/18/06	25'-35'	100.40		26.11	74.29
MW-12	09/18/06	25'-35'	99.29		26.18	73.11
MW-13	09/18/06	25'-35'	99.71		27.23	72.48
MW-14	09/18/06	25'-35'	99.32		27.91	71.41
MW-15	11/19/08	15'-35'	97.95		28.14	69.81
MW-16	11/19/08	15'-35'	99.94		30.52	69.42
MW-17	11/19/08	15'-35'	100.23		29.71	70.52
MW-18	11/19/08	15'-35'	99.96		25.74	74.22
MW-19	11/19/08	15'-35'	100.86		26.53	74.33
MW-20	11/19/08	15'-35'	98.54		27.09	71.45
DW-1	09/18/06	65'-70'	102.22		29.89	72.33
DW-2	09/18/06	65'-70'	102.59		29.77	72.82
DW-3	09/18/06	65'-70'	99.53		28.98	70.55
DW-4	09/18/06	65'-70'	99.86		28.29	71.57
DW-5	12/06/08	80'-85'	104.66		32.96	71.70
DW-6	12/06/08	80'-85'	103.98		32.99	70.99

All measurements reported in feet

**Table 2****FID Field Readings****Interstate Truck Terminal, Ulmer, SC - Facility # 00332****Consultech Project C-05-05-032**

Sample	Date	5'	10'	15'	20'	25'	30'	35'	40'	45'
SB-01	08/21/06	1.1	1.2	1.1	1.4	1.1	1.1			
SB-02	08/21/06	1.2	1.3	1.1	1.2	1.1	1.1			
SB-03	08/21/06	1.1	1.1	5.8	323	2469	2954			
SB-04	08/21/06	1.2	1.1	1.5	4.1	1.2	1.3			
SB-05	08/21/06	1.3	1.2	1.1	1.1	1.2	1.2			
SB-06	08/21/06	1.3	1.3	1.3	1.1	1.2	1.1	1.1	1.2	1.2
SB-07	08/21/06	1.1	1.1	2.1	96.2	589	725			
SB-08	08/21/06	1.2	1.1	1.3	1.6	2.7	9.9			
SB-09	08/21/06	1.2	1.1	1.2	1.2	1.1	1.1			
SB-10	08/22/06	1.1	1.1	1.2	94.9	1949	2759			
SB-11	08/22/06	1.1	1.1	1.2	10.3	573	791			
SB-12	08/22/06	0.9	1.1	1.1	1.4	10.6	24.5			
SB-13	08/22/06	0.9	1.1	1.1	1.4	1.2	1.1			
SB-14	08/22/06	1.5	1.3	79.9	68.3	3290	3200			
SB-15	08/22/06	1.3	1.2	75.8	71.3	3390	3310			
SB-16	08/22/06	1.3	1.2	65.8	48.7	3370	3350			
SB-17	08/22/06	1.1	1.2	35.7	37.7	1579	1829			
SB-18	08/22/06	1.2	1.1	1.3	1.1	23.1	32.9			
SB-19	08/22/06	1.3	1.3	90.6	41.4	3390	3390			
SB-20	08/22/06	1.1	1.3	1.2	1.1	1.1	1.2			
SB-21	08/22/06	1.1	1.1	1.2	1.2	7.9	14.2			
SB-22	08/22/06	1.2	1.1	1.2	4.6	29.9	74.2			
SB-23	08/22/06	1.1	1.1	1.1	1.2	1.3	1.1			
SB-24	08/26/06	1.2	1.1	1.1	1.2	1.5	2.1	1.8	1.4	1.4
SB-25	08/26/06	1.2	1.1	1.1	1.2	4.3	9.8			
SB-26	08/26/06	1.2	1.2	1.3	1.1	212	545			
SB-27	08/26/06	1.1	1.4	2.1	12.9	1845	2765			
SB-28	08/26/06	1.2	1.1	1.1	1.4	6.1	27.9			
SB-29	08/26/06	1.3	1.1	1.2	1.3	1.1	1.3			
SB-30	08/26/06	1.1	1.1	1.1	1.3	2.1	3.7			
SB-31	08/26/06	1.1	1.1	1.1	1.3	1.5	2.9			

FID reading in parts per million

**Table 3**  
**Groundwater Field Parameter Results**  
**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**  
**Consultech Project C-05-05-032**

Well Number	Date	Dissolved Oxygen (parts per million)	pH	Temperature (°C)	Conductivity (us/cm*)
MW-1	12/10/08	7.4	NM	22	NM
	09/13/06	1.8	5.9	23	90
MW-2	12/10/08	41.5	NM	23	NM
	09/13/06	1.3	6.0	24	340
MW-3	12/10/08	0.3	NM	22	NM
	09/13/06	3.2	6.5	24	110
MW-4R	12/10/08	0.9	NM	23	NM
	09/13/06	0.5	6.5	23	190
MW-5R	12/10/08	7.8	NM	22	NM
	09/13/06	0.0	6.4	22	220
MW-6	12/10/08	22.2	NM	23	NM
	09/13/06	0.7	6.7	23	230
MW-7	12/10/08	14.6	NM	22	NM
	09/13/06	5.4	6.4	21	120
MW-8	12/10/08	0.8	NM	23	NM
	09/13/06	3.7	6.4	21	300
MW-9	12/10/08	0.8	NM	23	NM
	09/13/06	3.8	6.5	21	240
MW-10	12/10/08	18.8	NM	23	NM
	09/13/06	4.7	6.6	23	110
MW-11	12/10/08	2.8	NM	21	NM
	09/13/06	0.1	6.5	22	170
MW-12	12/10/08	1.7	NM	21	NM
	09/13/06	0.9	6.4	21	110
MW-13	12/10/08	1.9	NM	21	NM
	09/13/06	1.9	6.4	21	130
MW-14	12/10/08	3.8	NM	24	NM
	09/13/06	0.2	6.7	23	210
MW-15	12/10/08	3.5	5.8	24	150
MW-16	12/10/08	71.1	6.5	21	150
MW-17	12/10/08	0.9	6.2	22	240
MW-18	12/10/08	6.1	6.0	23	190
MW-19	12/10/08	7.7	6.0	22	190
MW-20	12/10/08	4.2	6.0	22	190
DW-1	12/10/08	0.3	NM	24	NM
	09/13/06	2.3	5.8	23	150
DW-2	12/10/08	0.7	NM	22	NM
	10/02/06	4.7	6.5	22	150
DW-3	12/10/08	31.7	NM	24	NM
	09/13/06	4.5	6.2	23	240
DW-4	12/10/08	40.5	NM	21	NM
	09/13/06	4.0	6.0	21	190
DW-5	12/10/08	17.6	6.0	22	190
DW-6	12/10/08	6.8	6.0	23	190

\*us/cm - microsiemens per centimeter  
 NM - Not Measured



**Table 4**  
**BTEX and PNA Groundwater Analytical Results (ug/l)**  
**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**  
**Consultech Project C-05-05-032**

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Napthalenes	1,2 DCA
RBSL		5.0	1,000.0	700.0	10,000.0	40.0	25.0	NA
MW-1	12/10/08	6.4	3.7	33.5	69.5	<2	12.5	NS
	09/06/06	<1.0	1.2	1.4	2.9	<1.0	<5.0	<5.0
	04/06/05	78.4	3,400	1,730	7,880	<1.0	153	NS
MW-2	12/10/08	154.0	2,180	1,450	5,450	<20	271	NS
	09/06/06	180	4,400	2,200	11,000	<20	200	<100
	04/06/05	2.4	4.7	17.8	35.5	<1.0	2.40	NS
MW-3	12/10/08	6.5	52.6	234.0	1,766.0	<10	268.00	NS
	09/06/06	<20	29	130	650	<20	<100	<100
	04/06/05	6.1	132	532	2,590	<1.0	171	NS
MW-4R	12/10/08	45.4	1,120	976	4,337	<20	432	NS
	09/07/06	68	1,300	1,200	6,200	<10	130	<50
MW-4*	04/06/05	5.7	79.0	352	702	<1.0	55.0	NS
MW-5R	12/10/08	6.8	6.1	134	1,100	<2	136.0	NS
	09/07/06	14	35	430	1,900	<10	250	<50
MW-5*	04/06/05	4.6	17.7	248	999	<1.0	123	NS
MW-6	12/10/08	170.0	2,450.0	1,360	5,490	<20	414	NS
	09/13/06	160	2,500	680	5,600	<10	150	<50
MW-7	12/10/08	<1	<1	<1	<3	<2	<2	NS
	09/07/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
MW-8	12/10/08	<1	<1	<1	<3	<2	<2	NS
	09/13/06	<1.0	2.0	<1.0	2.0	<1.0	<5.0	<5.0
MW-9	12/10/08	63	1,540.0	284	3,580.0	<2	167	NS
	09/07/06	180	2,900	750	5,000	<10	290	<50
MW-10	12/10/08	<1	<1	<1	<3	<2	<2	NS
	09/07/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
MW-11	12/10/08	<1	6	8	24.0	<2	<2	NS
	09/13/06	1.1	3.4	1.8	8.2	<1.0	<5.0	<5.0
MW-12	12/10/08	<1	<1	<1	<3	<2	<2	NS
	09/13/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
MW-13	12/10/08	<1	<1	<1	<3	<2	<2	NS
	09/13/06	<1.0	1.3	<1.0	1.1	<1.0	<5.0	<5.0
MW-14	12/10/08	28	3,220.0	1,080	6,140.0	<2	167	NS
	09/07/06	79	4,800	1,500	8,100	<10	150	<50
MW-15	12/10/08	<1	3	<1	<3	<2	<2	NS
MW-16	12/10/08	32	303	137	3,150	<2	263	NS
MW-17	12/10/08	<1	<1	<1	<3	<2	<2	NS
MW-18	12/10/08	<1	<1	<1	<3	<2	<2	NS
MW-19	12/10/08	<1	37	145	313	<2	58	NS
MW-20	12/10/08	<1	<1	<1	5	<2	2	NS
DW-1	12/10/08	<1	<1	<1	<3	<2	<2	NS
	09/14/06	1.5	14	35	150	<1.0	<5.0	<5.0
DW-2	12/10/08	<1	<1	<1	<3	<2	<2	NS
	09/14/06	<1.0	2.9	2.0	14	<1.0	<5.0	<5.0
DW-3	12/10/08	<1	2	<1	<3	<2	<2	NS
	09/14/06	1.2	17	5.5	29	<1.0	<5.0	<5.0
DW-4	12/10/08	<1	<1	<1	<3	<2	<2	NS
	10/02/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
DW-5	12/10/08	<1	3	1	6	<2	<2	NS
DW-6	12/10/08	<1	<1	<1	2	<2	<2	NS
WSW-2	12/10/08	<1	<1	<1	<3	<2	<2	NS
	09/06/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0

\*Previously constructed monitoring wells that lie adjacent to replacement monitoring wells constructed for this investigation. Only replacement well locations are shown on report maps.

**Analytical Groundwater Screening Results**

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes
RBSL		5.0	1,000.0	700.0	10,000.0
GW-1	08/22/06	1.4	14	2.1	11.0
GW-2	08/22/06	2.5	19	2.7	13
GW-3	08/22/06	1.8	16	2.5	13
GW-4	08/22/06	150	2900	340	1500
GW-5	08/22/06	<1.0	7.6	1.2	5.1
GW-6	08/22/06	<1.0	2.5	<1.0	<1.0

All concentrations in parts per billion  
 Concentrations in bold exceed Risk Based Screening Levels (RBSL)  
 NS- Monitoring well not sampled for analyte indicated

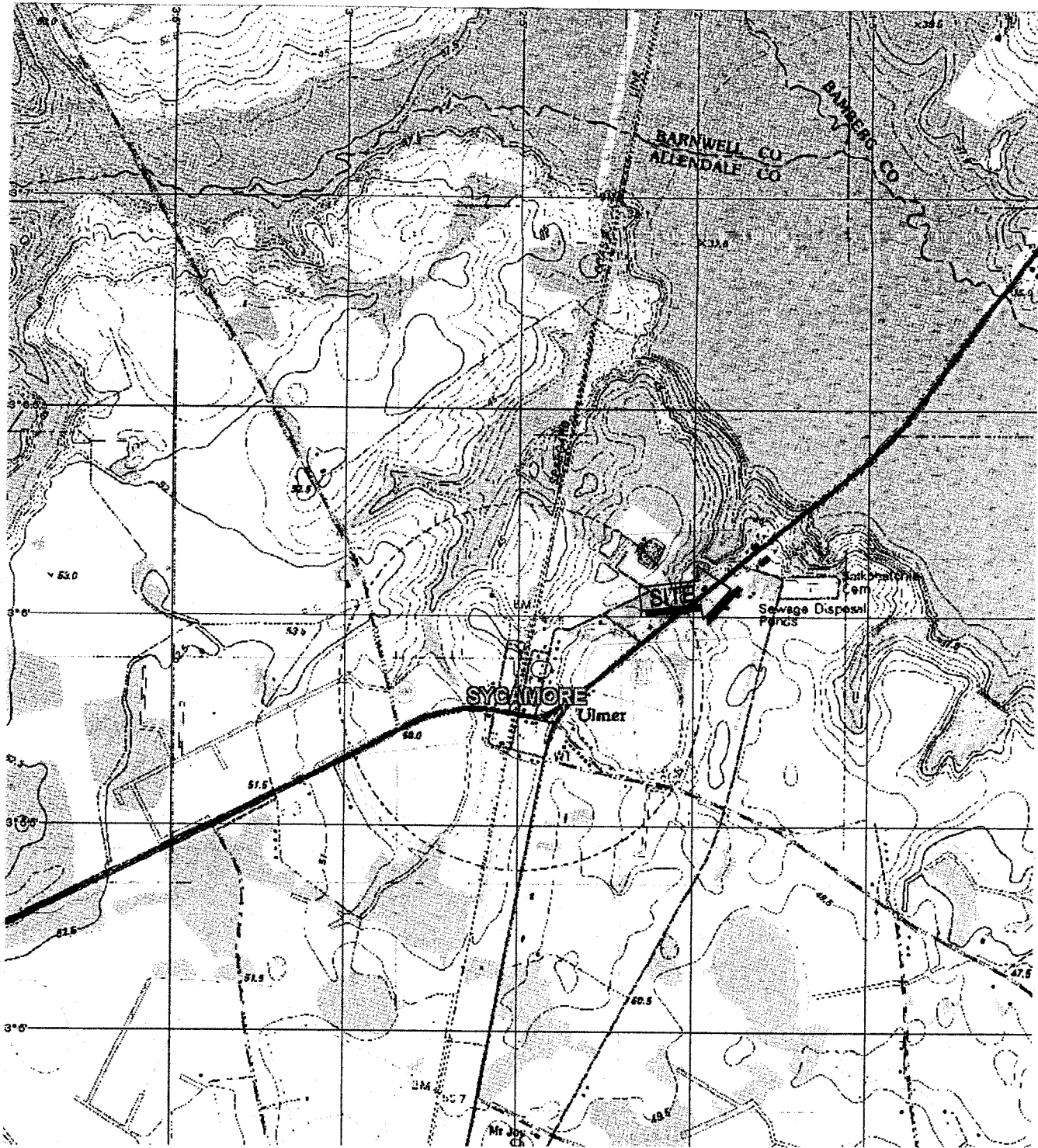
**Table 5**  
**Groundwater Natural Attenuation, EDB, Total Oxygenates, and Lead Results**  
**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**  
**Consultech Project C-05-05-032**

Well Number	Date	EDB (ug/l)	Total 8-Oxygenates	Total Lead (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Iron (mg/l)	Methane (mg/l)
RBSL		0.05	NA	0.015	NA	NA	NA	NA
MW-1	12/10/08	<0.020	NS	<0.0100	NS	NS	NS	NS
	09/06/06	<0.020	<100	<0.0100	2.4	7.3	<0.100	<0.003
MW-2	12/10/08	0.09	NS	0.0140	NS	NS	NS	NS
	09/06/06	0.24	<2000	0.1090	0.73	1.8	20.7	0.043
MW-3	12/10/08	<0.020	NS	0.01	NS	NS	NS	NS
	09/06/06	<0.020	<2000	<0.0100	1.2	3.3	7.46	<0.003
	04/06/05	0.09	NS	0.0420	1.70	2.69	30.4	<0.026
MW-4R	12/10/08	<0.020	NS	0.026	NS	NS	NS	NS
	09/07/06	0.23	<1000	0.0726	<0.10	1.0	12.7	<0.003
MW-4*	04/06/05	<0.020	NS	0.0310	1.04	4.14	12.3	<0.026
MW-5R	12/10/08	<0.020	NS	0.305	NS	NS	NS	NS
	09/07/06	<0.019	<1000	0.0273	3.1	3.4	22.1	<0.003
MW-5*	04/06/05	<0.020	NS	0.0230	1.40	2.51	33.7	<0.026
MW-6	12/10/08	0.24	NS	0.028	NS	NS	NS	NS
	09/13/06	<0.019	<1000	0.0630	16	1.8	11.2	0.005
MW-7	12/10/08	<0.020	NS	<0.01	NS	NS	NS	NS
	09/07/06	<0.019	<100	0.0274	3.0	24	14.5	0.007
MW-8	12/10/08	<0.020	NS	0.046	NS	NS	NS	NS
	09/13/06	<0.019	<100	<0.0100	6.3	4.5	3.96	<0.003
MW-9	12/10/08	0.06	NS	0.011	NS	NS	NS	NS
	09/07/06	<0.021	<1000	0.0142	0.77	1.8	51.2	0.019
MW-10	12/10/08	<0.02	NS	NS	NS	NS	NS	NS
	09/07/06	<0.019	<100	0.0160	1.3	4.1	2.82	<0.003
MW-11	12/10/08	<0.02	NS	NS	NS	NS	NS	NS
	09/13/06	<0.019	<100	0.0364	0.92	3.1	21.9	0.005
MW-12	12/10/08	<0.020	NS	<0.01	NS	NS	NS	NS
	09/13/06	<0.019	<100	<0.0100	1.7	2.4	7.84	<0.003
MW-13	12/10/08	<0.020	NS	<0.01	NS	NS	NS	NS
	09/13/06	<0.020	<100	<0.0100	1.3	3.4	10.0	<0.003
MW-14	12/10/08	0.06	NS	0.012	NS	NS	NS	NS
	09/07/06	0.18	<1000	0.0427	2.6	1.8	16.3	0.012
MW-15	12/10/08	<0.020	NS	0.017	NS	NS	NS	NS
MW-16	12/10/08	<0.020	NS	NS	NS	NS	NS	NS
MW-17	12/10/08	<0.020	NS	<0.01	NS	NS	NS	NS
MW-18	12/10/08	<0.020	NS	<0.01	NS	NS	NS	NS
MW-19	12/10/08	<0.020	NS	<0.01	NS	NS	NS	NS
MW-20	12/10/08	<0.020	NS	0.068	NS	NS	NS	NS
DW-1	12/10/08	<0.020	NS	<0.01	NS	NS	NS	NS
	09/14/06	<0.019	<100	0.0209	1.3	5.0	<0.100	<0.003
DW-2	12/10/08	<0.020	NS	<0.01	NS	NS	NS	NS
	09/14/06	<0.020	<100	<0.0100	2.6	32	<0.100	<0.003
DW-3	12/10/08	<0.020	NS	<0.01	NS	NS	NS	NS
	09/14/06	<0.020	<100	0.0122	2.0	44	<0.100	<0.003
DW-4	12/10/08	<0.020	NS	<0.01	NS	NS	NS	NS
	10/02/06	<0.019	<100	<0.0100	0.78	84	<0.100	<0.003
DW-5	12/10/08	0.21	NS	<0.01	NS	NS	NS	NS
DW-6	12/10/08	0.19	NS	<0.01	NS	NS	NS	NS
WSW-2	12/10/08	NS	NS	NS	NS	NS	NS	NS
	09/06/06	<0.019	<100	<0.0100	NS	NS	NS	NS

\*Previously constructed monitoring wells that lie adjacent to replacement monitoring wells constructed for this investigation. Only replacement well locations are shown on report maps.

NS- Well not sampled for analyte indicated  
ug/l- micrograms per liter  
mg/l- milligrams per liter

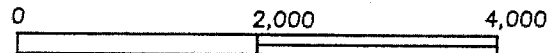
# FIGURES



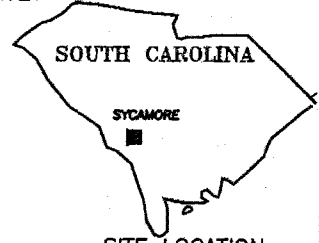
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SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

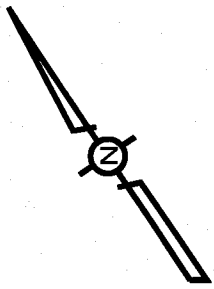
FIGURE 1  
SITE LOCATION MAP

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WOODED

MW-11

MW-12

MW-13

DW-4

MW-20

WOODED

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

MW-2

DW-1

MW-14

DW-3

MW-15

MW-4R

MW-6

MW-18

MW-3

MW-9

MW-1

MW-10

MW-5R

DW-6

CONCRETE

ASPHALT/CONCRETE

INTERSTATE TRUCK

MW-10

DW-2

MW-8

WSW-2 (APPROX. 185')

GRASS

DW-5

WSW-1 (INACTIVE)

MW-7

LEGEND

MW-7 SHALLOW MONITORING WELL

DW-2 DEEP MONITORING WELL

WSW-1 WATER SUPPLY WELL

FORMER UST PIT

DISPENSER ISLAND



APPROXIMATE SCALE IN FEET

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DRAWN: MAC

SITE ID # 00332

PROJECT: INTERSTATE TRUCK

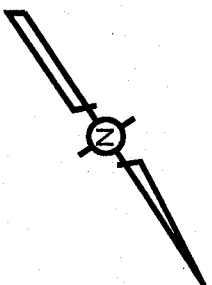
PROJECT No.: C-05-05-032

LOCATION: ULMER, SOUTH CAROLINA

DATE: 12/29/08

CAD FILE = C-05-05-032.dwg.

FIGURE 2  
SITE PLAN MAP



MW-11      WOODED      MW-12  
 MW-13      B'      DW-4      MW-20  
 WOODED

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

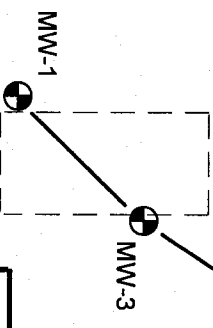
DW-1      MW-2

MW-19      A      MW-4R

MW-6      MW-14      DW-3

MW-15

MW-18



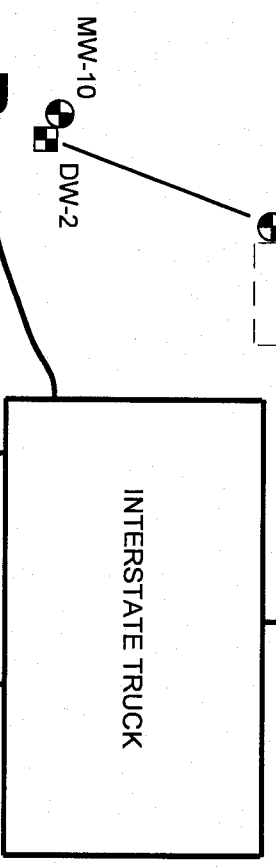
MW-5R      DW-6

A'      MW-9

MW-16

SC-S-3-190

MW-17



B

WSW-1  
(INACTIVE)

MW-7      DW-5

WSW-2 (APPROX. 185')

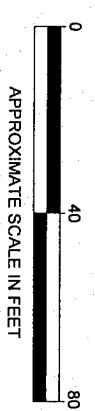
GRASS

ASPHALT/CONCRETE

CONCRETE

**LEGEND**

- MW-7      SHALLOW MONITORING WELL
- DW-2      DEEP MONITORING WELL
- WSW-1      WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND



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SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 3  
 STRATAGRAPHIC CROSS-SECTION  
 LOCATION MAP

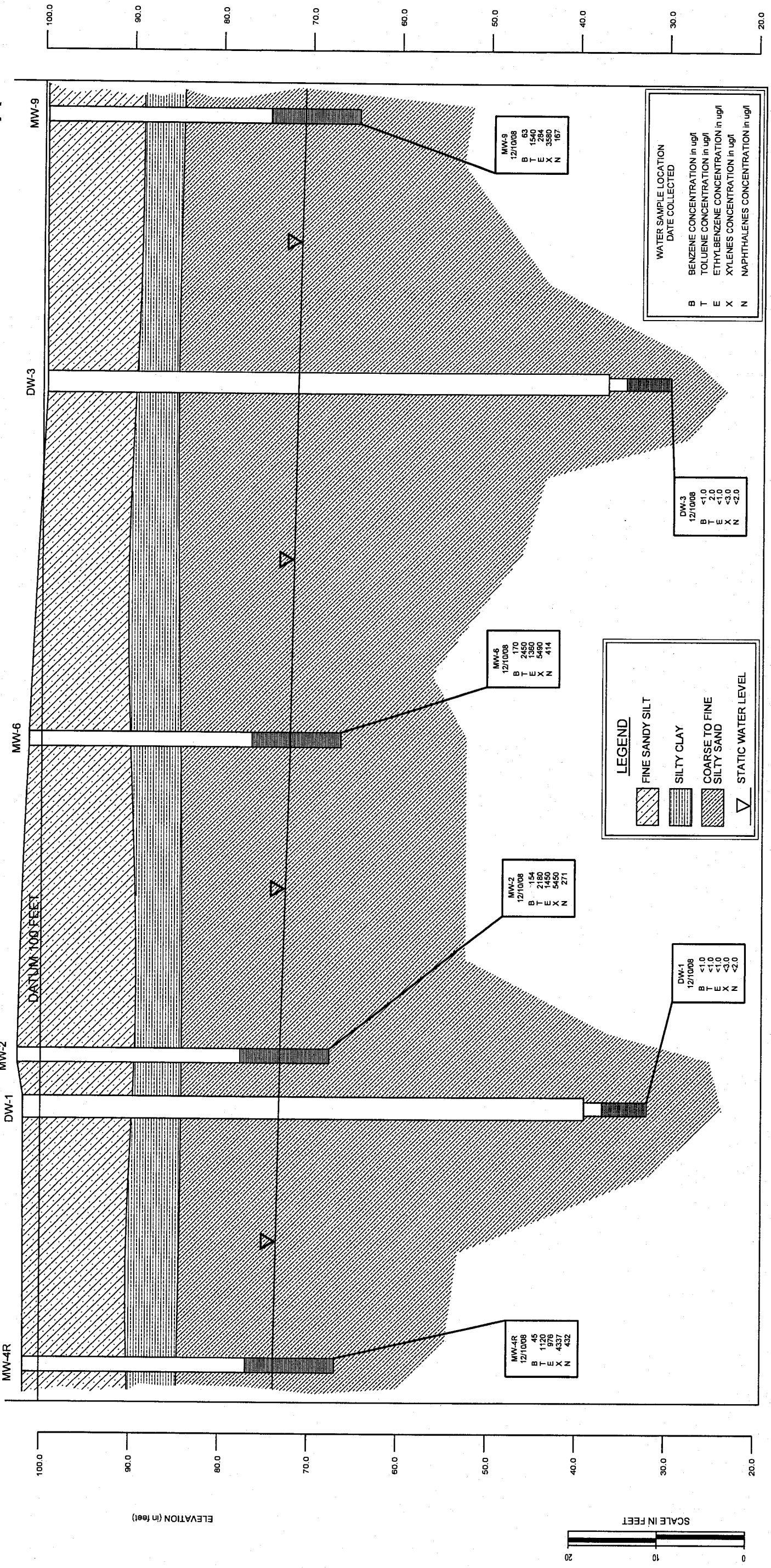
CAD FILE = C-05-05-032.dwg.

(SOUTH WEST)

(NORTH EAST)

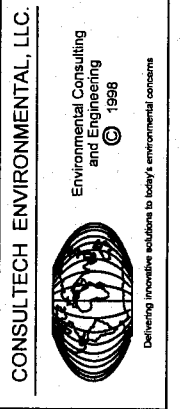
A'

A



CAD FILE = C-05-05-032.dwg

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 DRAWN: MAC DATE: 01/06/09  
 REV.: 1  
 PROJECT: INTERSTATE TRUCK  
 PROJECT No.: C-05-05-032  
 LOCATION: ULMER, SOUTH CAROLINA



**FIGURE 4**  
**VERTICAL EXTENT OF BTEX/PNA**  
**COMPOUNDS IN GROUNDWATER**  
**(SECTION A-A')**

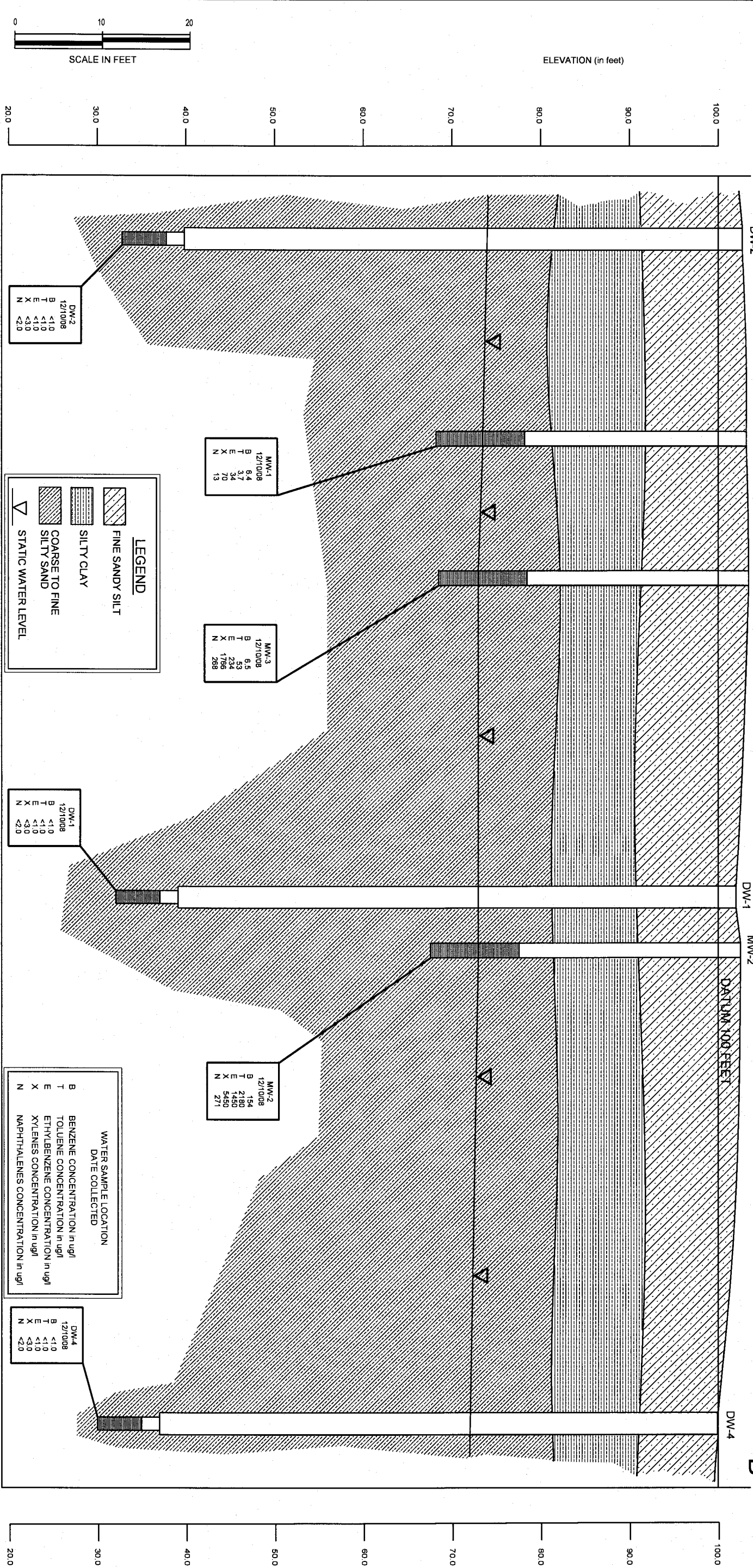


(SOUTH)

B

(NORTH)

B'



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**FIGURE 5**  
 VERTICAL EXTENT OF BTEX/PNA  
 COMPOUNDS IN GROUNDWATER  
 (SECTION B-B')

CAD FILE = C-05-05-032.dwg

DRAWN: MAC DATE: 01/06/09

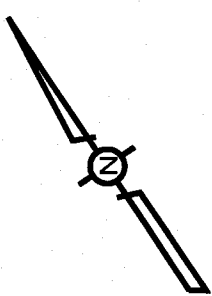
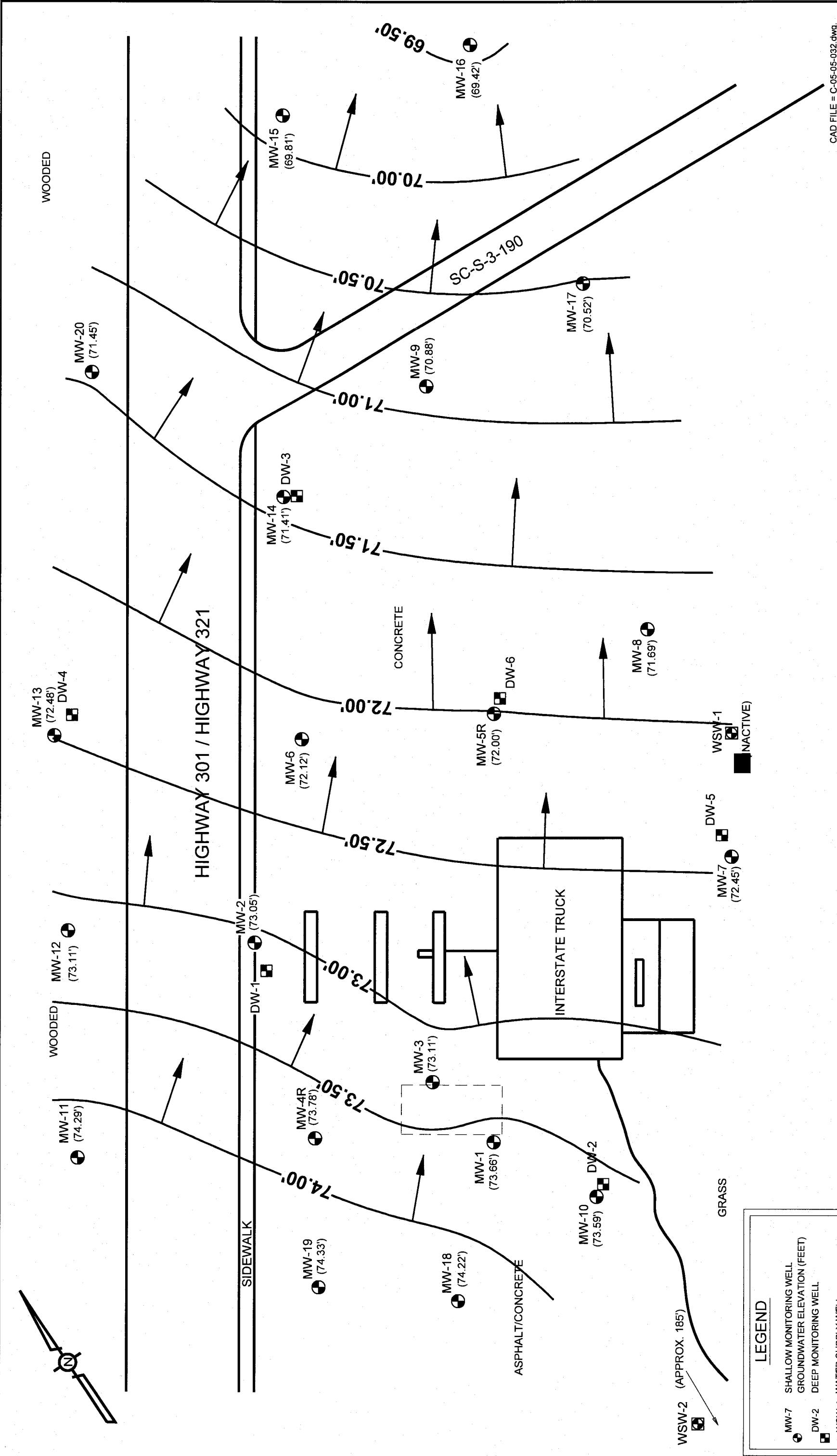
REV: 1

PROJECT: INTERSTATE TRUCK

PROJECT No.: C-05-05-032

LOCATION: ULMER, SOUTH CAROLINA





**LEGEND**

- MW-7 SHALLOW MONITORING WELL
- DW-2 DEEP MONITORING WELL
- WSW-1 WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND

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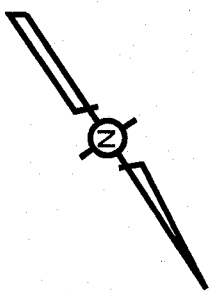
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SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

CAD FILE = C-05-05-032.dwg.

**FIGURE 6**  
**GROUNDWATER POTENTIOMETRIC SURFACE MAP**  
 (DECEMBER 10, 2008)



- MW-11 (1.0)
- MW-12 (1.0)
- MW-13 (1.0)
- MW-14 (28)
- MW-15 (1.0)
- MW-20 (1.0)

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

MW-19 (1.0)

MW-4R (45)

MW-2 (154)

MW-6 (170)

MW-14 (28)

MW-15 (1.0)

MW-18 (1.0)

MW-1 (6.4)

MW-3 (6.5)

MW-5R (6.8)

MW-9 (63)

MW-16 (32)

MW-10 (1.0)

DW-2 (1.0)

INTERSTATE TRUCK

MW-7 (1.0)

DW-5 (1.0)

WSW-1 (INACTIVE)

MW-8 (1.0)

<1 ppb

MW-17 (1.0)

SC-S-3-190

WSW-2 (APPROX. 185)

GRASS

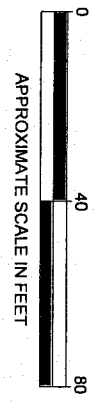
ASPHALT/CONCRETE

100 ppb CONCRETE

10 ppb

**LEGEND**

- MW-7 SHALLOW MONITORING WELL CONTAMINANT CONCENTRATION (ppb) (<1.0)
- DW-2 DEEP MONITORING WELL CONTAMINANT CONCENTRATION (ppb) (<1.0)
- WSW-1 WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND

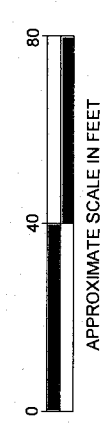
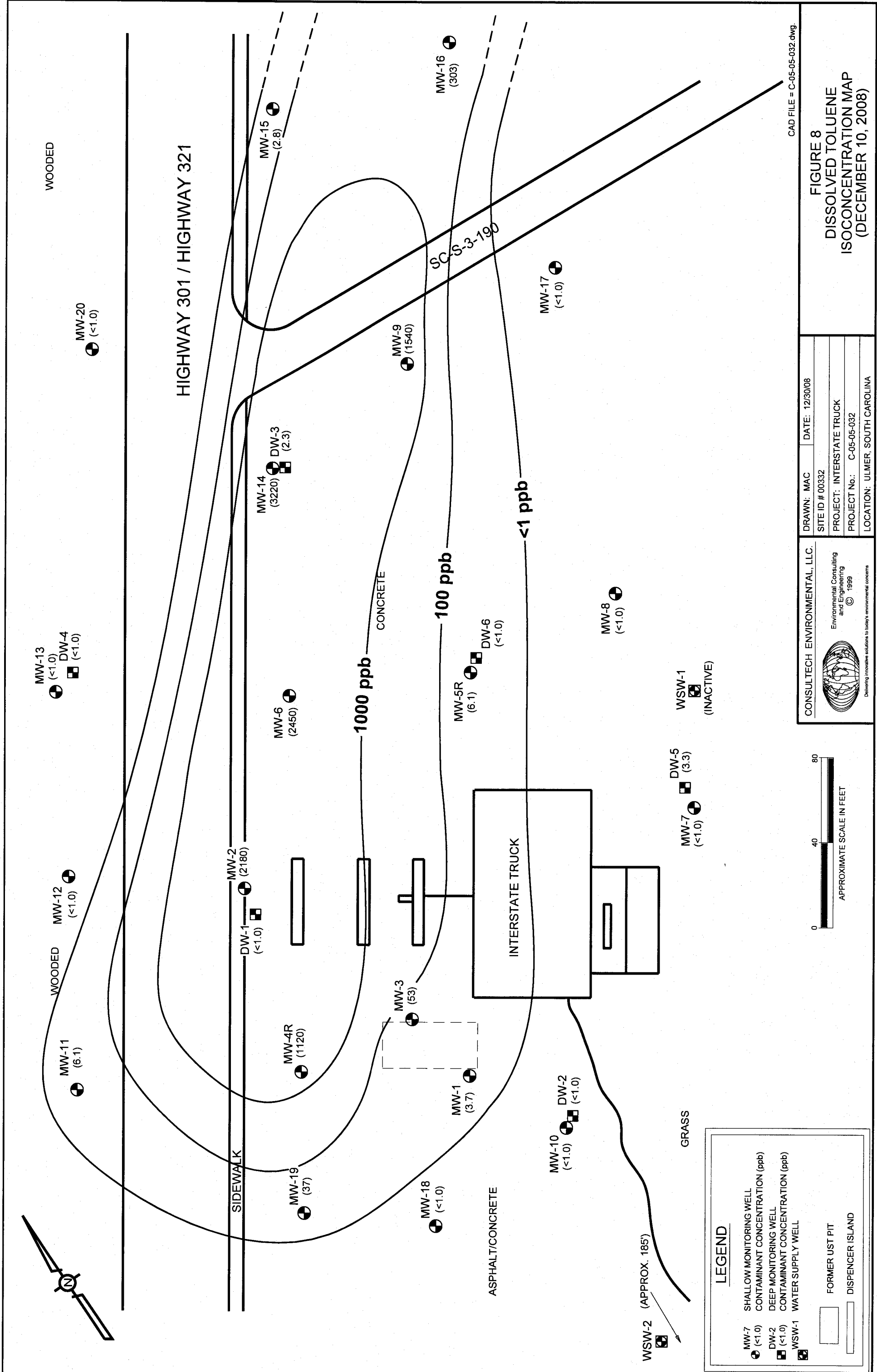


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DRAWN: MAC	DATE: 12/30/08
SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

**FIGURE 7**  
 DISSOLVED BENZENE  
 ISOCONCENTRATION MAP  
 (DECEMBER 10, 2008)

CAD FILE = C-05-05-032.dwg.



**LEGEND**

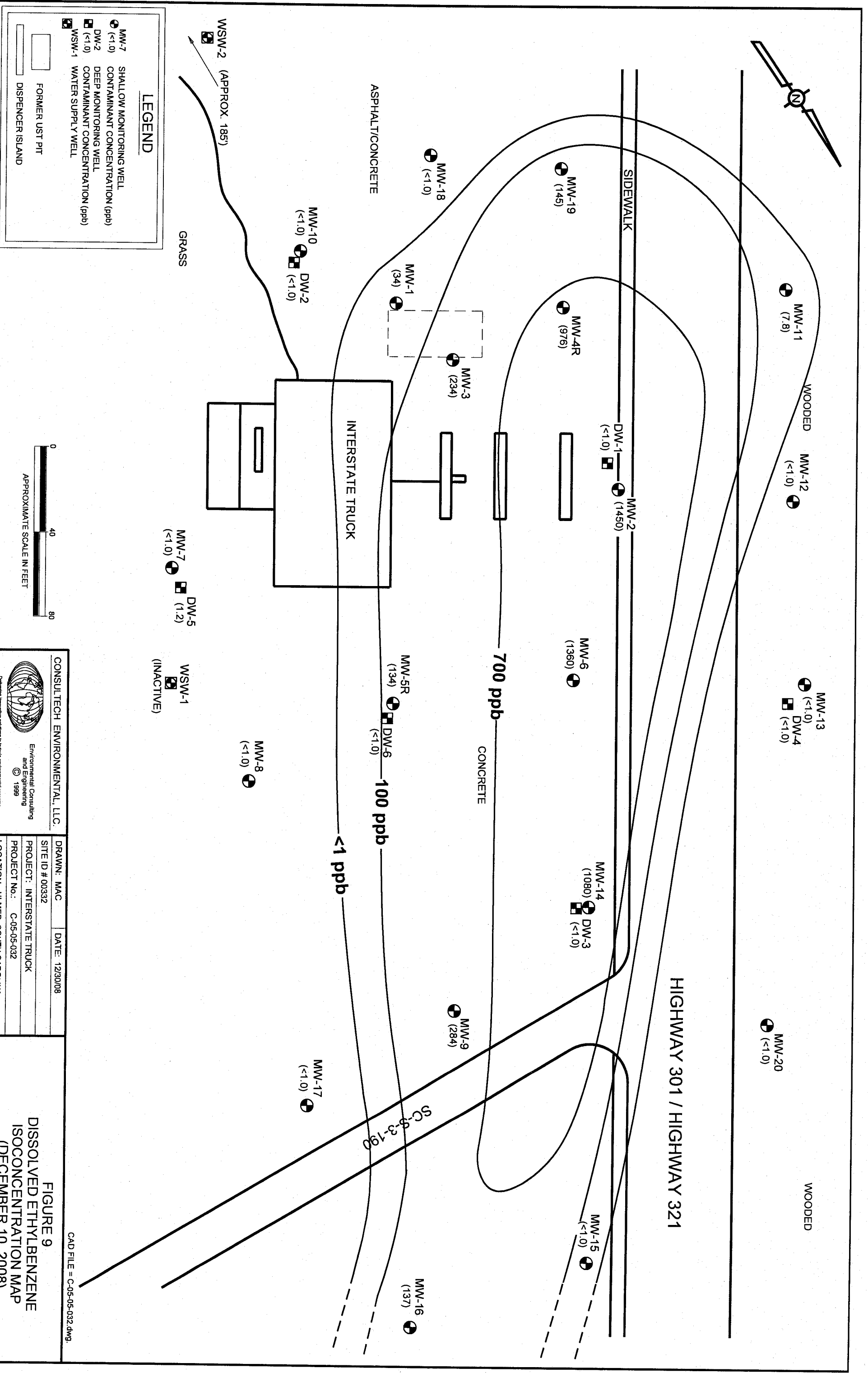
- MW-7 SHALLOW MONITORING WELL
- CONTAMINANT CONCENTRATION (ppb)
- DW-2 DEEP MONITORING WELL
- CONTAMINANT CONCENTRATION (ppb)
- WSW-1 WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND

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**FIGURE 8**  
 DISSOLVED TOLUENE  
 ISOCONCENTRATION MAP  
 (DECEMBER 10, 2008)

DRAWN: MAC      DATE: 12/30/08  
 SITE ID # 00332  
 PROJECT: INTERSTATE TRUCK  
 PROJECT No.: C-05-05-032  
 LOCATION: ULMER, SOUTH CAROLINA

CAD FILE = C-05-05-032.dwg.



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DRAWN: MAC DATE: 12/30/08

SITE ID # 00332

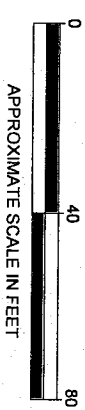
PROJECT: INTERSTATE TRUCK

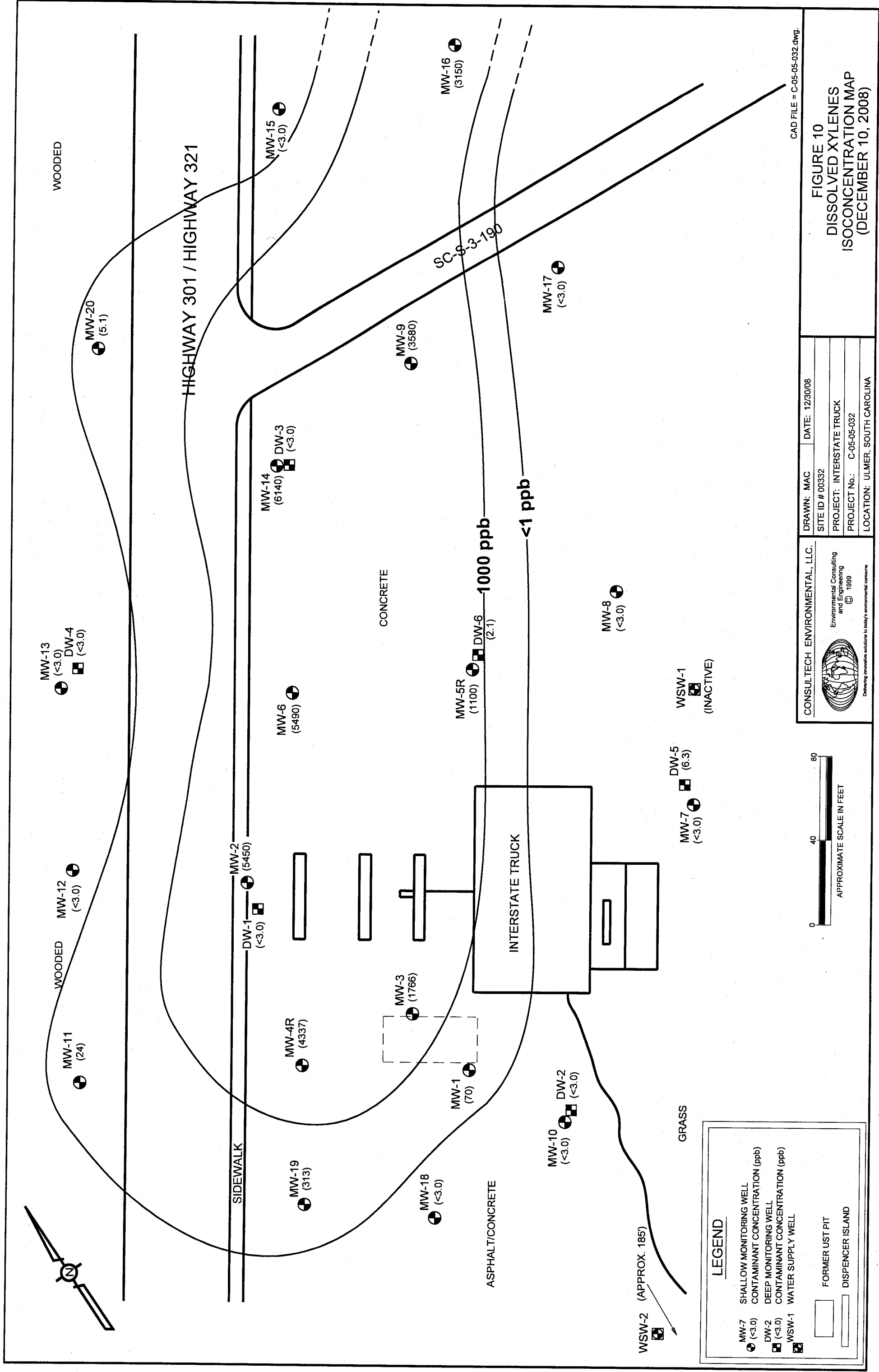
PROJECT NO.: C-05-05-032

LOCATION: ULMER, SOUTH CAROLINA

**FIGURE 9**  
DISSOLVED ETHYLBENZENE  
ISOCONCENTRATION MAP  
(DECEMBER 10, 2008)

CAD FILE = C-05-05-032.dwg.





WOODED

HIGHWAY 301 / HIGHWAY 321

SC-S-3-190

CONCRETE

INTERSTATE TRUCK

ASPHALT/CONCRETE

GRASS

MW-13  
( $<3.0$ )  
DW-4  
( $<3.0$ )

MW-12  
( $<3.0$ )

MW-11  
(24)

MW-2  
(5450)

DW-1  
( $<3.0$ )

MW-6  
(5490)

MW-4R  
(4337)

MW-19  
(313)

MW-14  
(6140)  
DW-3  
( $<3.0$ )

MW-15  
( $<3.0$ )

MW-9  
(3580)

MW-5R  
(1100)  
DW-6  
(2.1)

1000 ppb

$<1\text{ ppb}$

MW-16  
(3150)

MW-17  
( $<3.0$ )

MW-8  
( $<3.0$ )

MW-7  
( $<3.0$ )

WSW-1  
(INACTIVE)

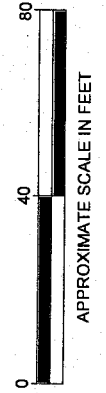
DW-5  
(6.3)

MW-10  
( $<3.0$ )  
DW-2  
( $<3.0$ )

WSW-2 (APPROX. 185')

**LEGEND**

- MW-7 ( $<3.0$ ) SHALLOW MONITORING WELL
- CONTAMINANT CONCENTRATION (ppb)
- DW-2 ( $<3.0$ ) DEEP MONITORING WELL
- WSW-1 WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND

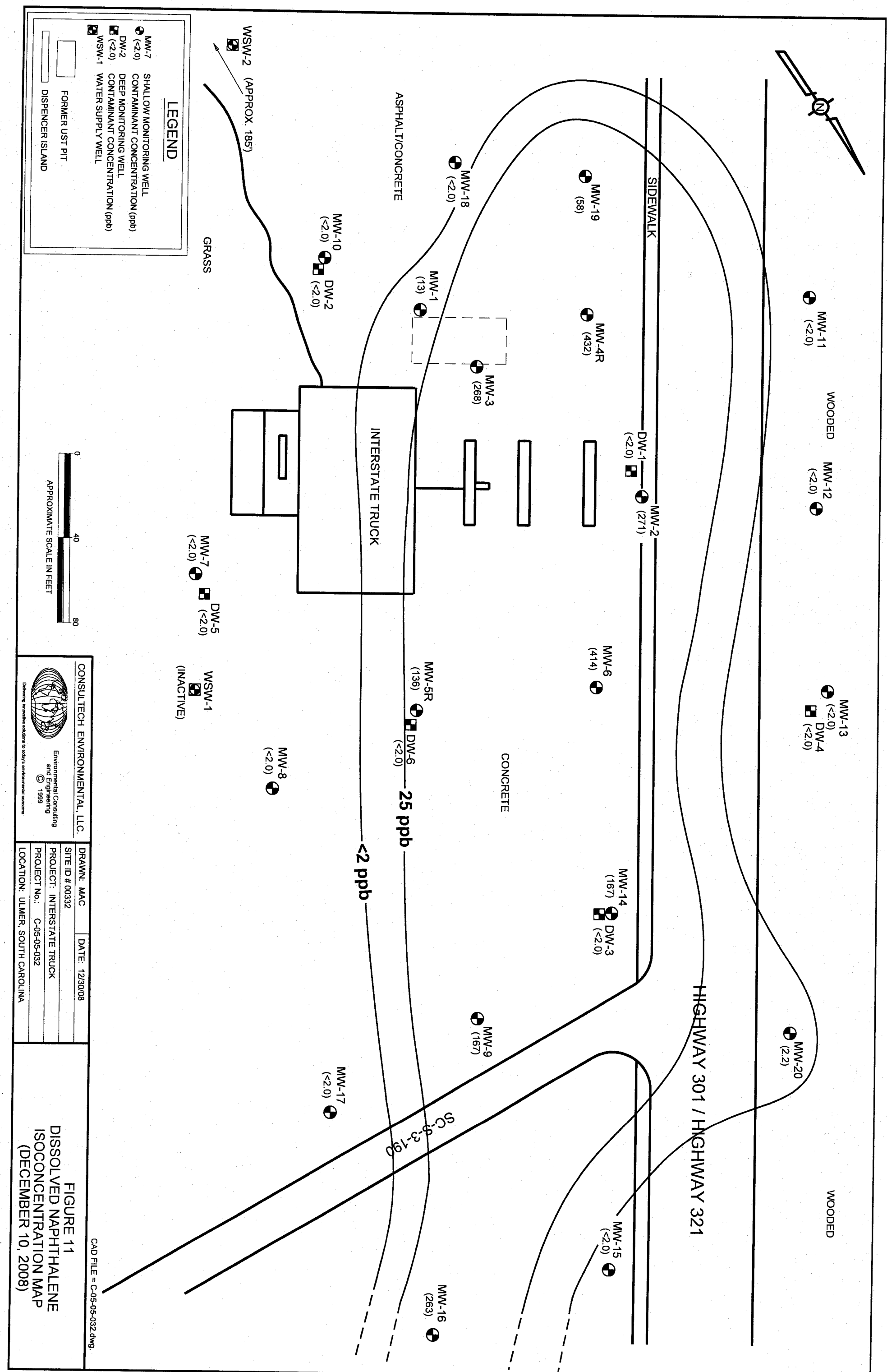
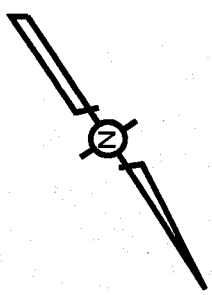


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DRAWN: MAC	DATE: 12/30/08
SITE ID # 00332	PROJECT: INTERSTATE TRUCK
PROJECT No.: C-05-05-032	LOCATION: ULMER, SOUTH CAROLINA

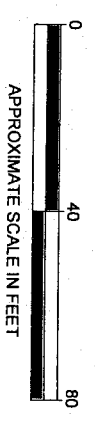
**FIGURE 10**  
 DISSOLVED XYLENES  
 ISOCONCENTRATION MAP  
 (DECEMBER 10, 2008)

CAD FILE = C-05-05-032.dwg.



**LEGEND**

- (<2.0) SHALLOW MONITORING WELL
- (<2.0) CONTAMINANT CONCENTRATION (ppb)
- (<2.0) DEEP MONITORING WELL
- (<2.0) CONTAMINANT CONCENTRATION (ppb)
- WSW-1 WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND

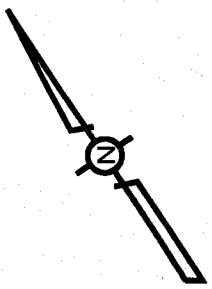


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DRAWN: MAC	DATE: 12/30/08
SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 11  
 DISSOLVED NAPHTHALENE  
 ISOCONCENTRATION MAP  
 (DECEMBER 10, 2008)

CAD FILE = C-05-05-032.dwg.



WOODED

HIGHWAY 301 / HIGHWAY 321

SC-S-3-190

MW-13 (<2.0)  
DW-4 (<2.0)

MW-15 (<2.0)

MW-16 (<2.0)

MW-13 (<2.0)  
DW-4 (<2.0)

MW-14 (<2.0)  
DW-3 (<2.0)

MW-9 (<2.0)

MW-17 (<2.0)

MW-12 (<2.0)

MW-6 (<2.0)

CONCRETE

MW-5R (<2.0)  
DW-6 (<2.0)

MW-8 (<2.0)

WSW-1 (INACTIVE)

MW-11 (<2.0)

MW-2 (<2.0)  
DW-1 (<2.0)

MW-4R (<2.0)

MW-3 (<2.0)

MW-1 (<2.0)

INTERSTATE TRUCK

MW-10 (<2.0)  
DW-2 (<2.0)

MW-7 (<2.0)  
DW-5 (<2.0)

WOODED

SIDEWALK

MW-19 (<2.0)

MW-18 (<2.0)

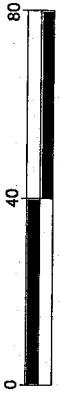
ASPHALT/CONCRETE

WSW-2 (APPROX. 185)

GRASS

**LEGEND**

- MW-7 (<2.0) SHALLOW MONITORING WELL
- DW-2 (<2.0) CONTAMINANT CONCENTRATION (ppb) DEEP MONITORING WELL
- WSW-1 (<2.0) CONTAMINANT CONCENTRATION (ppb) WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND



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DRAWN: MAC DATE: 12/30/08

SITE ID # 00332

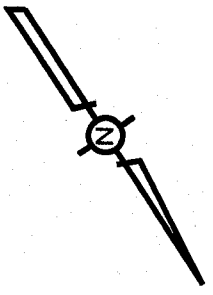
PROJECT: INTERSTATE TRUCK

PROJECT No.: C-05-05-032

LOCATION: ULMER, SOUTH CAROLINA

CAD FILE = C-05-05-032.dwg.

**FIGURE 12**  
**DISSOLVED MTBE**  
**ISOCONCENTRATION MAP**  
**(DECEMBER 10, 2008)**



MW-11  
(<0.02)

WOODED

MW-12  
(<0.02)

MW-13  
(<0.02)  
DW-4  
(<0.02)

MW-20  
(<0.02)

WOODED

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

MW-19  
(<0.02)

MW-4R  
(<0.02)

DW-1  
(<0.02)

MW-2  
(0.099)

MW-6  
(0.24)

MW-14  
(0.06)  
DW-3  
(<0.02)

MW-15  
(<0.02)

MW-18  
(<0.02)

MW-1  
(<0.02)

MW-3  
(<0.02)

MW-5R  
(<0.02)  
DW-6  
(0.19)

MW-9  
(0.06)

MW-16  
(<0.02)

ASPHALT/CONCRETE

MW-10  
(<0.02)

DW-2  
(<0.02)

INTERSTATE TRUCK

MW-7  
(<0.02)

DW-5  
(<0.21)

WSW-1  
(INACTIVE)

MW-8  
(<0.02)

MW-17  
(<0.02)

SC-S-3-190

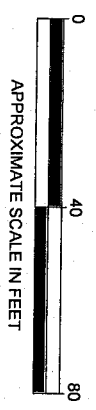
WSW-2 (APPROX. 185')

GRASS

**LEGEND**

- MW-7 SHALLOW MONITORING WELL
- (<0.02) CONTAMINANT CONCENTRATION (ppb)
- DW-2 DEEP MONITORING WELL
- (<0.02) CONTAMINANT CONCENTRATION (ppb)
- WSW-1 WATER SUPPLY WELL

- FORMER UST PIT
- DISPENSER ISLAND



CONSULTECH ENVIRONMENTAL, LLC.



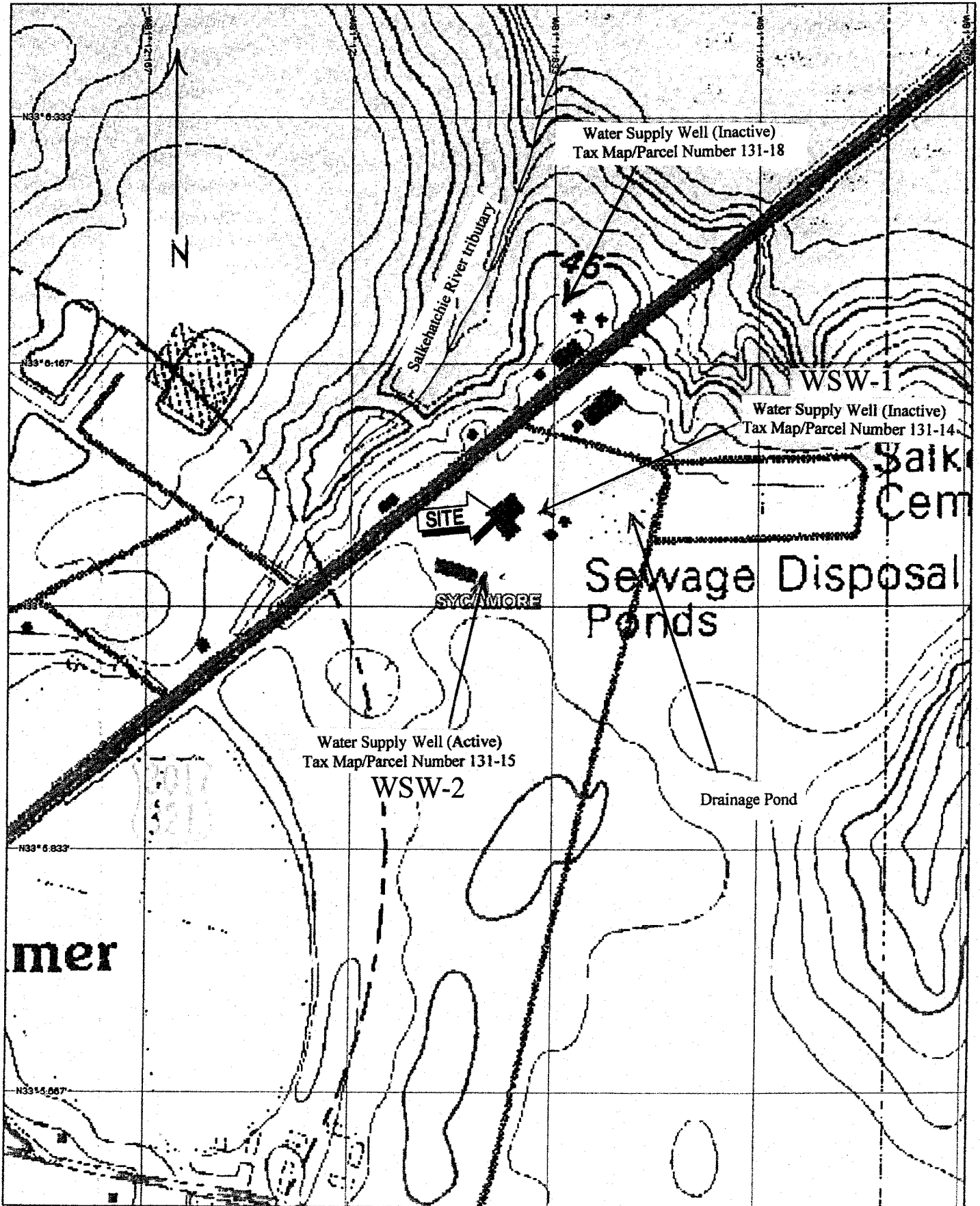
DRAWN: MAC	DATE: 12/30/08
SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 13  
DISSOLVED EDB  
ISOCNCONCENTRATION MAP  
(DECEMBER 10, 2008)

CAD FILE = C-05-05-032.dwg



**APPENDIX 1**  
**WATER SUPPLY WELL**  
**RECEPTORS**



APPENDIX 1

APPROXIMATE SCALE 1 INCH = 533 FEET

**APPENDIX 2**  
**MONITORING WELL**  
**CONSTRUCTION DETAILS**



## Water Well Record Bureau of Water

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

1. WELL OWNER INFORMATION:  
Name: SCDHEC  
(last) (first)  
Address: 2600 BULL STREET  
City: COLUMBIA State: SC Zip: 29201  
Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

7. PERMIT NUMBER: 00332

8. USE:  
 Residential  Public Supply  Process  
 Irrigation  Air conditioning  Emergency  
 Test Well  Monitor Well  Replacement

2. LOCATION OF WELL: COUNTY: Allendale  
Name: Interstate Trucking  
Street Address: 1111 Hwy 301/321 N  
City: Ulmer Zip: 29849  
Latitude: 33\*06.134 Longitude: 81\*11.834

9. Well Depth (completed) 35 ft. Date Started (MM/DD/YYYY): 11-19-08  
Date Completed (MM/DD/YYYY): 11-19-08

10. CASING:  Threaded  Welded  
Diam: 2 inches Height Above/Below Surface \_\_\_\_\_ ft.  
Type:  PVC  Galvanized  Steel  Other Weight \_\_\_\_\_ lb./ft.  
0 in. to 15 ft. depth Drive Shoe?  Yes  No  
\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER  
4. ABANDONMENT:  Yes  No  
Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

11. SCREEN:  
Type: PVC Diam.: 2 in.  
Slot/Gauge: .010 Length: 20 ft.  
Set Between: 15 ft. and 35 ft. NOTE: MULTIPLE SCREENS  
\_\_\_\_\_ ft. and \_\_\_\_\_ ft. USE SECOND SHEET  
Sieve Analysis  Yes (please enclose)  No

12. STATIC WATER LEVEL: 28.6 ft. below land surface after 24 hours

13. PUMPING LEVEL: Below surface.  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
Pumping Test:  Yes (please enclose)  No  
Yield: \_\_\_\_\_

14. WATER QUALITY:  
Chemical Analysis:  Yes  No Bacterial Analysis:  Yes  No  
Please enclose lab results

15. ARTIFICIAL FILTER (filter pack)  Yes  No  
Installed from 13 ft. to 35 ft.  
Effective size #3 Uniformity Coefficient \_\_\_\_\_

16. WELL GROUTED?  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
Depth: From 0 ft. to 13 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. \_\_\_\_\_ direction  
Type: \_\_\_\_\_  
Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

18. PUMP: Date installed (mm/dd/yyyy): \_\_\_\_\_ 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: CERT. NO.: 01568  
Name: Kelly Grant Level: A B C D  
    (check one)  
Address: 324 Fields Drive, Suite C City: Aberdeen  
State: North Carolina Zip: 28315  
Telephone No.: 910-944-3140 Fax: 910-944-3150

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Top soil	1	1
Yellowish sandy clay	5	6
Redish orange clay	12	18
Orange & Tan sandy clay	10	28
Tanish grey sandy clay	7	35

\*Indicate Water Bearing Zones  
(Use a 2<sup>nd</sup> sheet if needed)

5. REMARKS:  
MW-15

20. WATER DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.  
Signed: Kelly Grant Date: 11-19-08  
Well Driller (MM/DD/YYYY)

6. TYPE:  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other



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

<b>1. WELL OWNER INFORMATION:</b> Name: <u>SCDHEC</u> Address: <u>2600 BULL STREET</u> City: <u>COLUMBIA</u> State: <u>SC</u> Zip: <u>29201</u> Telephone: Work: <u>803-898-4300</u> Home: _____		<b>7. PERMIT NUMBER:</b> 00332																																														
<b>2. LOCATION OF WELL:</b> COUNTY: <u>Allendale</u> Name: <u>Interstate Trucking</u> Street Address: <u>1111 Hwy 301/321 N</u> City: <u>Ulmer</u> Zip: <u>29849</u> Latitude: <u>33*06.120</u> Longitude: <u>81*11.818</u>		<b>8. USE:</b> <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement																																														
<b>3. PUBLIC SYSTEM NAME</b> PUBLIC SYSTEM NUMBER		<b>9. Well Depth (completed)</b> Date Started (MM/DD/YYYY): <u>11-19-08</u> <u>35</u> ft. Date Completed (MM/DD/YYYY): <u>11-19-08</u>																																														
<b>4. ABANDONMENT:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Grouted Depth: from: _____ ft. to _____ ft.		<b>10. CASING:</b> <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam: <u>2</u> inches Height Above/Below _____ ft. Type: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized Surface _____ ft. <input type="checkbox"/> Steel <input type="checkbox"/> Other Weight _____ lb./ft. 0 in. to <u>15</u> ft. depth Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No _____ in. to _____ ft. depth																																														
<b>5. REMARKS:</b> MW-16		<b>11. SCREEN:</b> Type: <u>PVC</u> Diam.: <u>2</u> in. Slot/Gauge: <u>.010</u> Length: <u>20</u> ft. Set Between: <u>15</u> ft. and <u>35</u> ft. NOTE: MULTIPLE SCREENS _____ ft. and _____ ft. USE SECOND SHEET Sieve Analysis <input type="checkbox"/> Yes (please enclose) <input type="checkbox"/> No																																														
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Formation Description</th><th>*Thickness of Stratum</th><th>Depth to Bottom of Stratum</th></tr></thead><tbody><tr><td>Top soil</td><td>1</td><td>1</td></tr><tr><td>Yellowish sandy clay</td><td>5</td><td>6</td></tr><tr><td>Redish orange clay</td><td>6</td><td>12</td></tr><tr><td>Orange &amp; Tan sandy clay</td><td>12</td><td>24</td></tr><tr><td>Tanish grey sandy clay</td><td>11</td><td>35</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum	Top soil	1	1	Yellowish sandy clay	5	6	Redish orange clay	6	12	Orange & Tan sandy clay	12	24	Tanish grey sandy clay	11	35																												<b>12. STATIC WATER LEVEL:</b> <u>30.4</u> ft. below land surface after 24 hours	
		Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum																																												
Top soil	1	1																																														
Yellowish sandy clay	5	6																																														
Redish orange clay	6	12																																														
Orange & Tan sandy clay	12	24																																														
Tanish grey sandy clay	11	35																																														
<b>6. TYPE:</b> <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input checked="" type="checkbox"/> Bored <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input type="checkbox"/> Other		<b>13. PUMPING LEVEL:</b> Below surface. _____ ft. after _____ hrs. Pumping _____ G.P.M. Pumping Test: <input type="checkbox"/> Yes (please enclose) <input type="checkbox"/> No Yield: _____																																														
<b>*Indicate Water Bearing Zones</b> (Use a 2 <sup>nd</sup> sheet if needed)		<b>14. WATER QUALITY:</b> Chemical Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No Bacterial Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No Please enclose lab results																																														
		<b>15. ARTIFICIAL FILTER (filter pack)</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from <u>13</u> ft. to <u>35</u> ft. Effective size <u>#3</u> Uniformity Coefficient _____																																														
		<b>16. WELL GROUTED?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Neat Cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Bentonite/Cement <input type="checkbox"/> Other _____ Depth: From <u>0</u> ft. to <u>13</u> ft.																																														
		<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> _____ ft. _____ direction Type: _____ Well Disinfected: <input type="checkbox"/> Yes <input type="checkbox"/> No Type: _____ Amount _____																																														
		<b>18. PUMP:</b> Date installed (mm/dd/yyyy): _____ Not installed <input type="checkbox"/> Mfr. Name: _____ Model No. _____ H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm Type: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal																																														
		<b>19. WELL DRILLER:</b> CERT. NO.: <u>01568</u> Name: <u>Kelly Grant</u> Level: A B C D <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (check one) Address: <u>324 Fields Drive, Suite C</u> City: <u>Aberdeen</u> State: <u>North Carolina</u> Zip: <u>28315</u> Telephone No.: <u>910-944-3140</u> Fax: <u>910-944-3150</u>																																														
		<b>20. WATER DRILLER'S CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: <u>Kelly Grant</u> Date: <u>11-19-08</u> Well Driller (MM/DD/YYYY)																																														



# Water Well Record

## Bureau of Water

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

### 1. WELL OWNER INFORMATION:

Name: SCDHEC  
Address: 2600 BULL STREET  
City: COLUMBIA State: SC Zip: 29201  
Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

### 2. LOCATION OF WELL: COUNTY: Allendale

Name: Interstate Trucking  
Street Address: 1111 Hwy 301/321 N  
City: Ulmer Zip: 29849  
Latitude: 33°06.104 Longitude: 81°11.829

### 3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER

4. ABANDONMENT:  Yes  No  
Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Top soil	2	2
Yellowish sandy clay	5	7
Redish orange clay	11	18
Orange & Tan sandy clay	10	28
TANNISH GREY SANDY CLAY	7	35

6. TYPE:  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

\*Indicate Water Bearing Zones  
(Use a 2<sup>nd</sup> sheet if needed)

### 5. REMARKS:

MW-17

7. PERMIT NUMBER: 00332

8. USE:  
 Residential  Public Supply  Process  
 Irrigation  Air conditioning  Emergency  
 Test Well  Monitor Well  Replacement

9. Well Depth (completed) \_\_\_\_\_ ft. Date Started (MM/DD/YYYY): 11-19-08  
\_\_\_\_\_ ft. Date Completed (MM/DD/YYYY): 11-19-08

10. CASING:  Threaded  Welded  
Diam: 2 inches Height Above/Below \_\_\_\_\_ ft.  
Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
0 in. to 15 ft. depth Drive Shoe?  Yes  No  
\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

11. SCREEN:  
Type: PVC Diam.: 2 in.  
Slot/Gauge: .010 Length: 20 ft.  
Set Between: 15 ft. and 35 ft. NOTE: MULTIPLE SCREENS  
\_\_\_\_\_ ft. and \_\_\_\_\_ ft. USE SECOND SHEET

Sieve Analysis  Yes (please enclose)  No

12. STATIC WATER LEVEL: 29.5 ft. below land surface after 24 hours

13. PUMPING LEVEL: Below surface.  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
Pumping Test:  Yes (please enclose)  No  
Yield: \_\_\_\_\_

14. WATER QUALITY:  
Chemical Analysis:  Yes  No Bacterial Analysis:  Yes  No  
Please enclose lab results

15. ARTIFICIAL FILTER (filter pack)  Yes  No  
Installed from 13 ft. to 35 ft.  
Effective size #3 Uniformity Coefficient \_\_\_\_\_

16. WELL GROUDED?  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
Depth: From 0 ft. to 13 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. direction  
Type: \_\_\_\_\_  
Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

18. PUMP: Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:  
Name: Kelly Grant CERT. NO.: 01568  
Level: A B C D  
    (check one)  
Address: 324 Fields Drive, Suite C City: Aberdeen  
State: North Carolina Zip: 28315  
Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER DRILLER'S CERTIFICATION: This well was drilled under  
my direction and this report is true to the best of my knowledge and belief.  
Signed: Kelly Grant Date: 11-19-08  
Well Driller (MM/DD/YYYY)



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

**1. WELL OWNER INFORMATION:**  
Name: SCDHEC  
Address: 2600 BULL STREET  
City: COLUMBIA State: SC Zip: 29201  
Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL: COUNTY:** Allendale  
Name: Interstate Trucking  
Street Address: 1111 Hwy 301/321 N  
City: Ulmer Zip: 29849  
Latitude: 33\*06.052 Longitude: 81\*11.924

**3. PUBLIC SYSTEM NAME** \_\_\_\_\_ **PUBLIC SYSTEM NUMBER** \_\_\_\_\_

**4. ABANDONMENT:**  Yes  No  
Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Top soil	1	1
Yellowish sandy clay	6	7
Redish orange clay	9	16
Orange & Tan sandy clay	11	27
Tanish grey sandy clay	8	35

**5. REMARKS:**  
MW-18

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**7. PERMIT NUMBER:** 00332

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air conditioning  Emergency  
 Test Well  Monitor Well  Replacement

**9. Well Depth (completed)** \_\_\_\_\_ **Date Started (MM/DD/YYYY):** 11-20-08  
35 ft. **Date Completed (MM/DD/YYYY):** 11-20-08

**10. CASING:**  Threaded  Welded  
Diam: 2 inches Height Above/Below  
Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
0 in. to 15 ft. depth Drive Shoe?  Yes  No  
\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**  
Type: PVC Diam.: 2 in.  
Slot/Gauge: .010 Length: 20 ft.  
Set Between: 15 ft. and 35 ft. **NOTE: MULTIPLE SCREENS**  
\_\_\_\_\_ ft. and \_\_\_\_\_ ft. **USE SECOND SHEET**

Sieve Analysis  Yes (please enclose)  No

**12. STATIC WATER LEVEL:** 25.2 ft. below land surface after 24 hours

**13. PUMPING LEVEL:** Below surface.  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
Pumping Test:  Yes (please enclose)  No  
Yield: \_\_\_\_\_

**14. WATER QUALITY:**  
Chemical Analysis:  Yes  No Bacterial Analysis:  Yes  No  
Please enclose lab results

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
Installed from 13 ft. to 35 ft.  
Effective size # 3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
Depth: From 0 ft. to 13 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
Type: \_\_\_\_\_  
Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:** CERT. NO.: 01568  
Name: Kelly Grant Level: A B C D  
    (check one)  
Address: 324 Fields Drive, Suite C City: Aberdeen  
State: North Carolina Zip: 28315  
Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.  
Signed: Kelly Grant Date: 11-20-08  
Well Driller (MM/DD/YYYY)



## Water Well Record

### Bureau of Water

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

**1. WELL OWNER INFORMATION:**  
 Name: SCDHEC  
 Address: 2600 BULL STREET  
 City: COLUMBIA State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL:** COUNTY: Allendale  
 Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33\*06.059 Longitude: 81\*11.929

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Top soil	2	2
Yellowish sandy clay	6	8
Redish orange clay	10	18
Orange & Tan sandy clay	13	31
Tanish grey sandy clay	4	35

\*Indicate Water Bearing Zones  
 (Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
 MW-19

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**7. PERMIT NUMBER:** 00332

**8 .USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air conditioning  Emergency  
 Test Well  Monitor Well  Replacement

**9. Well Depth (completed)** \_\_\_\_\_ Date Started (MM/DD/YYYY): 11-20-08  
35 ft. Date Completed (MM/DD/YYYY): 11-20-08

**10. CASING:**  Threaded  Welded  
 Diam: 2 inches Height Above/Below \_\_\_\_\_ ft.  
 Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
0 in. to 15 ft. depth Drive Shoe?  Yes  No  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**  
 Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 20 ft.  
 Set Between: 15 ft. and 35 ft. NOTE: MULTIPLE SCREENS  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft. USE SECOND SHEET

Sieve Analysis  Yes (please enclose)  No

**12. STATIC WATER LEVEL:** 26.8 ft. below land surface after 24 hours

**13. PUMPING LEVEL:** Below surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY:**  
 Chemical Analysis:  Yes  No Bacterial Analysis:  Yes  No  
 Please enclose lab results

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from 13 ft. to 35 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 13 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:** CERT. NO.: 01568  
 Name: Kelly Grant Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.  
 Signed: Kelly Grant Date: 11-20-08  
 Well Driller (MM/DD/YYYY)









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

1. WELL OWNER INFORMATION:
Name: DHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: 803-898-4300 Home:

7. PERMIT NUMBER:
8. USE:
Residential Public Supply Process
Irrigation Air conditioning Emergency
Test Well Monitor Well Replacement

2. LOCATION OF WELL: COUNTY: Allendale
Name: Interstate Trucking
Street Address: 1111 Hwy 301/321 N
City: Ulmer Zip: 29849
Latitude: 33\*06.088 Longitude: 081\*11.873

9. Well Depth (completed) Date Started (MM/DD/YYYY): 12/04/2008
85 ft. Date Completed (MM/DD/YYYY): 12/05/2008

3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER

10. CASING: Threaded Welded
Diam: 6 inches Height Above Below
Type: PVC Galvanized Surface 0 ft.
Steel Other Weight lb./ft.
0 in. to 70 ft. depth Drive Shoe? Yes No
in. to ft. depth

4. ABANDONMENT: Yes No
Grouted Depth: from ft. to ft.

11. SCREEN:
Type: PVC Diam: 2 in.
Slot/Gauge: .010 Length: 5 ft.
Set Between: 80 ft. and 85 ft. NOTE: MULTIPLE SCREENS
ft. and ft. USE SECOND SHEET
Sieve Analysis Yes (please enclose) No

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Rows include Brownish yellow top soil, Yellow sandy clay, Redish orange sandy clay, Orange & Tan sandy clay, Tanish grey sandy clay, Tannish White Sandy Clay, White fine sands.

12. STATIC WATER LEVEL: ft. below land surface after 24 hours

13. PUMPING LEVEL: Below 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 78 ft. to 85 ft.
Effective size #3 Uniformity Coefficient

16. WELL GROUTED? Yes No
Neat Cement Bentonite Bentonite/Cement Other
Depth: From 74 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Yes No Type: Amount

18. PUMP: Date installed (mm/dd/yyyy): 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

\*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)
5. REMARKS: DW # 6

19. WELL DRILLER: CERT. NO.: 01402
Name: Landa M. Shaver Level: A B C D
Address: 324 Fields Drive, Suite C City: Aberdeen
State: North Carolina Zip: 28315
Telephone No.: 910-944-3140 Fax: 910-944-3150

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Other

20. WATER DRILLER'S CERTIFICATION: This well was drilled under
my direction and this report is true to the best of my knowledge and belief.
Signed: Landa M. Shaver Date: 12/06/2008
Well Driller (MM/DD/YYYY)

**APPENDIX 4**  
**LABORATORY ANALYTICAL**  
**RESULTS**

# Analytical Report 320307

for

**Consultech Environmental, Inc.**

**Project Manager: Mark Creel**

**Interstate Truck, Ulmer SC**

**C-05-05-032**

**23-DEC-08**



**6017 Financial Dr., Norcross, GA 30071**

**Ph:(770) 449-8800 Fax:(770) 449-5477**

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675  
Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America  
Midland - Corpus Christi - Atlanta



23-DEC-08

Project Manager: **Mark Creel**  
**Consultech Environmental, Inc.**  
PO Box 5611  
Cary, NC 27512

Reference: XENCO Report No: **320307**  
**Interstate Truck, Ulmer SC**  
Project Address: South Carolina

**Mark Creel:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 320307. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 320307 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

---

**Dijana Piljak**  
Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



# Sample Cross Reference 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Dec-10-08 00:00		320307-001
MW-2	W	Dec-10-08 00:00		320307-002
MW-3	W	Dec-10-08 00:00		320307-003
MW-4R	W	Dec-10-08 00:00		320307-004
MW-5R	W	Dec-10-08 00:00		320307-005
MW-6	W	Dec-10-08 00:00		320307-006
MW-7	W	Dec-10-08 00:00		320307-007
MW-8	W	Dec-10-08 00:00		320307-008
MW-9	W	Dec-10-08 00:00		320307-009
MW-10	W	Dec-10-08 00:00		320307-010
MW-11	W	Dec-10-08 00:00		320307-011
MW-12	W	Dec-10-08 00:00		320307-012
MW-13	W	Dec-10-08 00:00		320307-013
MW-14	W	Dec-10-08 00:00		320307-014
MW-15	W	Dec-10-08 00:00		320307-015
MW-16	W	Dec-10-08 00:00		320307-016
MW-17	W	Dec-10-08 00:00		320307-017
MW-18	W	Dec-10-08 00:00		320307-018
MW-19	W	Dec-10-08 00:00		320307-019
MW-20	W	Dec-10-08 00:00		320307-020
DW-1	W	Dec-10-08 00:00		320307-021
DW-2	W	Dec-10-08 00:00		320307-022
DW-3	W	Dec-10-08 00:00		320307-023
DW-4	W	Dec-10-08 00:00		320307-024
DW-5	W	Dec-10-08 00:00		320307-025
DW-6	W	Dec-10-08 00:00		320307-026
WSW-2	W	Dec-10-08 00:00		320307-027
SS-1	S	Dec-10-08 00:00		320307-028



## CASE NARRATIVE SUMMARY



*Client Name: Consultech Environmental, Inc.*

*Project Name: SC UST Sites*

*Project ID: C-05-05-032*

*Report Date: 23-DEC-08*

*Work Order Number: 320307*

*Date Received: 12-DEC-08*

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**Project Manager's Notations:**

1. The soil sample results are reported on a wet weight basis (no moisture correction applied).

*Dijana Piljak*

*Dijana Piljak  
Project Manager*





# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-1	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-001	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	<b>Prep Method:</b> EXT_8011
Date Analyzed: Dec-15-08 17:06    Analyst: VCH	Date Prep: Dec-13-08 16:07    Tech: 4118
Seq Number: 743627	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.021	0.0051	ug/L	U	1

<b>Analytical Method:</b> Metals, Total by SW846 6010B	<b>Prep Method:</b> SW3010A
Date Analyzed: Dec-17-08 19:00    Analyst: 4150	Date Prep: Dec-16-08 12:07    Tech: CHL
Seq Number: 744082	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	<b>Prep Method:</b> SW5030B
Date Analyzed: Dec-13-08 17:02    Analyst: ANI	Date Prep: Dec-13-08 14:15    Tech: ANI
Seq Number: 743432	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	6.42	1.00	0.160	ug/L		1
Ethylbenzene	100-41-4	33.5	1.00	0.190	ug/L		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	12.5	2.00	0.220	ug/L		1
Toluene	108-88-3	3.71	1.00	0.140	ug/L		1
m,p-Xylenes	179601-23-1	60.5	2.00	0.510	ug/L		1
o-Xylene	95-47-6	9.02	1.00	0.200	ug/L		1
Xylenes, Total	1330-20-7	69.52	3.00		ug/L		1

Project: SC UST Sites

Version: 1.014



# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-2	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-002	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	<b>Prep Method:</b> EXT_8011
Date Analyzed: Dec-15-08 17:28    Analyst: VCH	Date Prep: Dec-13-08 16:07    Tech: 4118
Seq Number: 743627	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	0.099	0.020	0.0048	ug/L		1

<b>Analytical Method:</b> Metals, Total by SW846 6010B	<b>Prep Method:</b> SW3010A
Date Analyzed: Dec-17-08 19:14    Analyst: 4150	Date Prep: Dec-16-08 12:07    Tech: CHL
Seq Number: 744082	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	0.014	0.010	0.002	mg/L		1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	<b>Prep Method:</b> SW5030B
Date Analyzed: Dec-13-08 22:54    Analyst: ANI	Date Prep: Dec-13-08 14:15    Tech: ANI
Seq Number: 743432	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	154	10.0	1.60	ug/L		10
Ethylbenzene	100-41-4	1450	10.0	1.90	ug/L		10
Methyl tert-butyl ether	1634-04-4	U	20.0	1.80	ug/L	U	10
Naphthalene	91-20-3	271	20.0	2.20	ug/L		10
Toluene	108-88-3	2180	50.0	7.00	ug/L	D	50
m,p-Xylenes	179601-23-1	4400	100	25.5	ug/L	D	50
o-Xylene	95-47-6	1050	10.0	2.00	ug/L		10
Xylenes, Total	1330-20-7	5450	150		ug/L	D	50

Project: SC UST Sites

Version: 1.014



# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-3	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-003	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method: EDB by SW-846 8011</b>	Prep Method: EXT_8011
Date Analyzed: Dec-15-08 17:50    Analyst: VCH	Date Prep: Dec-13-08 16:07    Tech: 4118
Seq Number: 743627	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.021	0.0050	ug/L	U	1

<b>Analytical Method: Metals, Total by SW846 6010B</b>	Prep Method: SW3010A
Date Analyzed: Dec-17-08 19:16    Analyst: 4150	Date Prep: Dec-16-08 12:07    Tech: CHL
Seq Number: 744082	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	0.011	0.010	0.002	mg/L		1

<b>Analytical Method: Select VOCs by SW-846 8260B</b>	Prep Method: SW5030B
Date Analyzed: Dec-15-08 14:58    Analyst: 4124	Date Prep: Dec-15-08 10:06    Tech: ANI
Seq Number: 743646	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	6.50	5.00	0.800	ug/L		5
Ethylbenzene	100-41-4	234	5.00	0.950	ug/L		5
Methyl tert-butyl ether	1634-04-4	U	10.0	0.900	ug/L	U	5
Naphthalene	91-20-3	268	10.0	1.10	ug/L		5
Toluene	108-88-3	52.6	5.00	0.700	ug/L		5
m,p-Xylenes	179601-23-1	1360	10.0	2.55	ug/L		5
o-Xylene	95-47-6	406	5.00	1.00	ug/L		5
Xylenes, Total	1330-20-7	1766	15.0		ug/L		5

Project: SC UST Sites

Version: 1.014



# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-4R	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-004	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	<b>Prep Method:</b> EXT_8011
Date Analyzed: Dec-15-08 18:12    Analyst: VCH	Date Prep: Dec-13-08 16:07    Tech: 4118
Seq Number: 743627	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.021	0.0052	ug/L	U	1

<b>Analytical Method:</b> Metals, Total by SW846 6010B	<b>Prep Method:</b> SW3010A
Date Analyzed: Dec-17-08 19:18    Analyst: 4150	Date Prep: Dec-16-08 12:07    Tech: CHL
Seq Number: 744082	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	0.026	0.010	0.002	mg/L		1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	<b>Prep Method:</b> SW5030B
Date Analyzed: Dec-13-08 21:51    Analyst: ANI	Date Prep: Dec-13-08 14:15    Tech: ANI
Seq Number: 743432	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	45.4	10.0	1.60	ug/L		10
Ethylbenzene	100-41-4	976	10.0	1.90	ug/L		10
Methyl tert-butyl ether	1634-04-4	U	20.0	1.80	ug/L	U	10
Naphthalene	91-20-3	432	20.0	2.20	ug/L		10
Toluene	108-88-3	1120	10.0	1.40	ug/L		10
m,p-Xylenes	179601-23-1	3540	20.0	5.10	ug/L		10
o-Xylene	95-47-6	797	10.0	2.00	ug/L		10
Xylenes, Total	1330-20-7	4337	30.0		ug/L		10

Project: SC UST Sites

Version: 1.014



# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-5R	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-005	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method: EDB by SW-846 8011</b>		Prep Method: EXT_8011	
Date Analyzed: Dec-15-08 18:35	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118
Seq Number: 743627			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0050	ug/L	U	1

<b>Analytical Method: Metals, Total by SW846 6010B</b>		Prep Method: SW3010A	
Date Analyzed: Dec-17-08 19:19	Analyst: 4150	Date Prep: Dec-16-08 12:07	Tech: CHL
Seq Number: 744082			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	0.305	0.010	0.002	mg/L		1

<b>Analytical Method: Select VOCs by SW-846 8260B</b>		Prep Method: SW5030B	
Date Analyzed: Dec-13-08 17:31	Analyst: ANI	Date Prep: Dec-13-08 14:15	Tech: ANI
Seq Number: 743432			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	6.82	1.00	0.160	ug/L		1
Ethylbenzene	100-41-4	134	1.00	0.190	ug/L		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	136	2.00	0.220	ug/L		1
Toluene	108-88-3	6.10	1.00	0.140	ug/L		1
m,p-Xylenes	179601-23-1	1050	10.0	2.55	ug/L	D	5
o-Xylene	95-47-6	53.1	1.00	0.200	ug/L	D	1
Xylenes, Total	1330-20-7	1100	15.0				5

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-6	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-006	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	<b>Prep Method:</b> EXT_8011
Date Analyzed: Dec-15-08 19:41    Analyst: VCH	Date Prep: Dec-13-08 16:07    Tech: 4118
Seq Number: 743627	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	0.24	0.020	0.0049	ug/L		1

<b>Analytical Method:</b> Metals, Total by SW846 6010B	<b>Prep Method:</b> SW3010A
Date Analyzed: Dec-17-08 19:21    Analyst: 4150	Date Prep: Dec-16-08 12:07    Tech: CHL
Seq Number: 744082	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	0.028	0.010	0.002	mg/L		1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	<b>Prep Method:</b> SW5030B
Date Analyzed: Dec-13-08 22:23    Analyst: ANI	Date Prep: Dec-13-08 14:15    Tech: ANI
Seq Number: 743432	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	170	10.0	1.60	ug/L		10
Ethylbenzene	100-41-4	1360	10.0	1.90	ug/L		10
Methyl tert-butyl ether	1634-04-4	U	20.0	1.80	ug/L	U	10
Naphthalene	91-20-3	414	20.0	2.20	ug/L		10
Toluene	108-88-3	2450	100	14.0	ug/L	D	100
m,p-Xylenes	179601-23-1	4090	200	51.0	ug/L	D	100
o-Xylene	95-47-6	1400	100	20.0	ug/L	D	100
Xylenes, Total	1330-20-7	5490	300		ug/L	D	100

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-7	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-007	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	<b>Prep Method:</b> EXT_8011
Date Analyzed: Dec-15-08 20:04    Analyst: VCH	Date Prep: Dec-13-08 16:07    Tech: 4118
Seq Number: 743627	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0049	ug/L	U	1

<b>Analytical Method:</b> Metals, Total by SW846 6010B	<b>Prep Method:</b> SW3010A
Date Analyzed: Dec-17-08 19:23    Analyst: 4150	Date Prep: Dec-16-08 12:07    Tech: CHL
Seq Number: 744082	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	<b>Prep Method:</b> SW5030B
Date Analyzed: Dec-15-08 13:02    Analyst: ANI	Date Prep: Dec-15-08 10:06    Tech: ANI
Seq Number: 743646	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-8	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-008	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	Prep Method: EXT_8011		
Date Analyzed: Dec-15-08 20:26	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118
	Seq Number: 743627		

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0049	ug/L	U	1

<b>Analytical Method:</b> Metals, Total by SW846 6010B	Prep Method: SW3010A		
Date Analyzed: Dec-17-08 19:25	Analyst: 4150	Date Prep: Dec-16-08 12:07	Tech: CHL
	Seq Number: 744082		

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	0.046	0.010	0.002	mg/L		1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	Prep Method: SW5030B		
Date Analyzed: Dec-13-08 18:28	Analyst: ANI	Date Prep: Dec-13-08 14:15	Tech: ANI
	Seq Number: 743432		

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-9	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-009	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

Analytical Method: EDB by SW-846 8011		Prep Method: EXT_8011	
Date Analyzed: Dec-15-08 20:48	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118
Seq Number: 743627			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	0.060	0.021	0.0051	ug/L		1

Analytical Method: Metals, Total by SW846 6010B		Prep Method: SW3010A	
Date Analyzed: Dec-17-08 19:27	Analyst: 4150	Date Prep: Dec-16-08 12:07	Tech: CHL
Seq Number: 744082			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	0.011	0.010	0.002	mg/L		1

Analytical Method: Select VOCs by SW-846 8260B		Prep Method: SW5030B	
Date Analyzed: Dec-13-08 20:51	Analyst: ANI	Date Prep: Dec-13-08 14:15	Tech: ANI
Seq Number: 743432			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	62.8	1.00	0.160	ug/L		1
Ethylbenzene	100-41-4	284	50.0	9.50	ug/L	D	50
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	167	2.00	0.220	ug/L		1
Toluene	108-88-3	1540	50.0	7.00	ug/L	D	50
m,p-Xylenes	179601-23-1	2670	100	25.5	ug/L	D	50
o-Xylene	95-47-6	909	50.0	10.0	ug/L	D	50
Xylenes, Total	1330-20-7	3580	150		ug/L	D	50

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-10	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-010	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	<b>Prep Method:</b> EXT_8011
Date Analyzed: Dec-15-08 21:10    Analyst: VCH Seq Number: 743627	Date Prep: Dec-13-08 16:07    Tech: 4118

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.021	0.0051	ug/L	U	1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	<b>Prep Method:</b> SW5030B
Date Analyzed: Dec-13-08 18:57    Analyst: ANI Seq Number: 743432	Date Prep: Dec-13-08 14:15    Tech: ANI

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-11	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-011	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

Analytical Method: EDB by SW-846 8011		Prep Method: EXT_8011	
Date Analyzed: Dec-15-08 21:33	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118
Seq Number: 743627			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0050	ug/L	U	1

Analytical Method: Select VOCs by SW-846 8260B		Prep Method: SW5030B	
Date Analyzed: Dec-13-08 19:25	Analyst: ANI	Date Prep: Dec-13-08 14:15	Tech: ANI
Seq Number: 743432			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	7.82	1.00	0.190	ug/L		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	6.13	1.00	0.140	ug/L		1
m,p-Xylenes	179601-23-1	17.7	2.00	0.510	ug/L		1
o-Xylene	95-47-6	6.35	1.00	0.200	ug/L		1
Xylenes, Total	1330-20-7	24.05	3.00		ug/L		1

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Version: 1.014



# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-12	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-012	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

Analytical Method: EDB by SW-846 8011		Prep Method: EXT_8011	
Date Analyzed: Dec-15-08 21:55	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118
Seq Number: 743627			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0050	ug/L	U	1

Analytical Method: Metals, Total by SW846 6010B		Prep Method: SW3010A	
Date Analyzed: Dec-17-08 19:32	Analyst: 4150	Date Prep: Dec-16-08 12:07	Tech: CHL
Seq Number: 744082			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

Analytical Method: Select VOCs by SW-846 8260B		Prep Method: SW5030B	
Date Analyzed: Dec-13-08 19:54	Analyst: ANI	Date Prep: Dec-13-08 14:15	Tech: ANI
Seq Number: 743432			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-13	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-013	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	<b>Prep Method:</b> EXT_8011
Date Analyzed: Dec-15-08 22:17    Analyst: VCH Seq Number: 743627	Date Prep: Dec-13-08 16:07    Tech: 4118

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.021	0.0051	ug/L	U	1

<b>Analytical Method:</b> Metals, Total by SW846 6010B	<b>Prep Method:</b> SW3010A
Date Analyzed: Dec-17-08 19:34    Analyst: 4150 Seq Number: 744082	Date Prep: Dec-16-08 12:07    Tech: CHL

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	<b>Prep Method:</b> SW5030B
Date Analyzed: Dec-13-08 20:23    Analyst: ANI Seq Number: 743432	Date Prep: Dec-13-08 14:15    Tech: ANI

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-14	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-014	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

Analytical Method: EDB by SW-846 8011		Prep Method: EXT_8011	
Date Analyzed: Dec-15-08 22:40	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118
Seq Number: 743627			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	0.061	0.020	0.0049	ug/L		1

Analytical Method: Metals, Total by SW846 6010B		Prep Method: SW3010A	
Date Analyzed: Dec-17-08 19:36	Analyst: 4150	Date Prep: Dec-16-08 12:07	Tech: CHL
Seq Number: 744082			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	0.012	0.010	0.002	mg/L		1

Analytical Method: Select VOCs by SW-846 8260B		Prep Method: SW5030B	
Date Analyzed: Dec-13-08 21:20	Analyst: ANI	Date Prep: Dec-13-08 14:15	Tech: ANI
Seq Number: 743432			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	28.1	1.00	0.160	ug/L		1
Ethylbenzene	100-41-4	1080	50.0	9.50	ug/L	D	50
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	167	2.00	0.220	ug/L		1
Toluene	108-88-3	3220	50.0	7.00	ug/L	D	50
m,p-Xylenes	179601-23-1	4450	100	25.5	ug/L	D	50
o-Xylene	95-47-6	1690	50.0	10.0	ug/L	D	50
Xylenes, Total	1330-20-7	6140	150		ug/L	D	50

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-15	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-015	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method: EDB by SW-846 8011</b>		Prep Method: EXT_8011	
Date Analyzed: Dec-15-08 23:46	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118
Seq Number: 743627			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0049	ug/L	U	1

<b>Analytical Method: Metals, Total by SW846 6010B</b>		Prep Method: SW3010A	
Date Analyzed: Dec-17-08 19:37	Analyst: 4150	Date Prep: Dec-16-08 12:07	Tech: CHL
Seq Number: 744082			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	0.017	0.010	0.002	mg/L		1

<b>Analytical Method: Select VOCs by SW-846 8260B</b>		Prep Method: SW5030B	
Date Analyzed: Dec-13-08 16:55	Analyst: ANI	Date Prep: Dec-13-08 14:11	Tech: ANI
Seq Number: 743431			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	2.78	1.00	0.140	ug/L		1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L		1

Project: SC UST Sites

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-16	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-016	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

Analytical Method: EDB by SW-846 8011			Prep Method: EXT_8011		
Date Analyzed: Dec-16-08 00:09	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118		
Seq Number: 743627					

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0048	ug/L	U	1

Analytical Method: Select VOCs by SW-846 8260B			Prep Method: SW5030B		
Date Analyzed: Dec-13-08 17:22	Analyst: ANI	Date Prep: Dec-13-08 14:11	Tech: ANI		
Seq Number: 743431					

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	32.4	1.00	0.160	ug/L		1
Ethylbenzene	100-41-4	137	1.00	0.190	ug/L		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	263	20.0	2.20	ug/L	D	10
Toluene	108-88-3	303	10.0	1.40	ug/L	D	10
m,p-Xylenes	179601-23-1	2290	20.0	5.10	ug/L	D	10
o-Xylene	95-47-6	857	10.0	2.00	ug/L	D	10
Xylenes, Total	1330-20-7	3150	30.0		ug/L	D	10

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Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-17	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-017	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	<b>Prep Method:</b> EXT_8011		
Date Analyzed: Dec-16-08 00:31	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118
	Seq Number: 743627		

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0049	ug/L	U	1

<b>Analytical Method:</b> Metals, Total by SW846 6010B	<b>Prep Method:</b> SW3010A		
Date Analyzed: Dec-17-08 19:39	Analyst: 4150	Date Prep: Dec-16-08 12:07	Tech: CHL
	Seq Number: 744082		

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	<b>Prep Method:</b> SW5030B		
Date Analyzed: Dec-15-08 13:30	Analyst: ANI	Date Prep: Dec-15-08 10:06	Tech: ANI
	Seq Number: 743646		

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-18	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-018	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

Analytical Method: EDB by SW-846 8011		Prep Method: EXT_8011	
Date Analyzed: Dec-16-08 00:53	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118
Seq Number: 743627			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0050	ug/L	U	1

Analytical Method: Metals, Total by SW846 6010B		Prep Method: SW3010A	
Date Analyzed: Dec-17-08 19:41	Analyst: 4150	Date Prep: Dec-16-08 12:07	Tech: CHL
Seq Number: 744082			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

Analytical Method: Select VOCs by SW-846 8260B		Prep Method: SW5030B	
Date Analyzed: Dec-13-08 18:15	Analyst: ANI	Date Prep: Dec-13-08 14:11	Tech: ANI
Seq Number: 743431			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

Project: SC UST Sites

Version: 1.014



# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-19	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-019	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

Analytical Method: EDB by SW-846 8011		Prep Method: EXT_8011	
Date Analyzed: Dec-16-08 01:15	Analyst: VCH	Date Prep: Dec-13-08 16:07	Tech: 4118
Seq Number: 743627			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0050	ug/L	U	1

Analytical Method: Metals, Total by SW846 6010B		Prep Method: SW3010A	
Date Analyzed: Dec-17-08 19:42	Analyst: 4150	Date Prep: Dec-16-08 12:07	Tech: CHL
Seq Number: 744082			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

Analytical Method: Select VOCs by SW-846 8260B		Prep Method: SW5030B	
Date Analyzed: Dec-13-08 18:42	Analyst: ANI	Date Prep: Dec-13-08 14:11	Tech: ANI
Seq Number: 743431			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	145	1.00	0.190	ug/L		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	58.4	2.00	0.220	ug/L		1
Toluene	108-88-3	36.6	1.00	0.140	ug/L		1
m,p-Xylenes	179601-23-1	238	2.00	0.510	ug/L		1
o-Xylene	95-47-6	75.3	1.00	0.200	ug/L		1
Xylenes, Total	1330-20-7	313.3	3.00		ug/L		1

Project: SC UST Sites

Version: 1.014



# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: MW-20	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-020	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	<b>Prep Method:</b> EXT_8011
Date Analyzed: Dec-16-08 01:38    Analyst: VCH Seq Number: 743627	Date Prep: Dec-13-08 16:07    Tech: 4118

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0050	ug/L	U	1

<b>Analytical Method:</b> Metals, Total by SW846 6010B	<b>Prep Method:</b> SW3010A
Date Analyzed: Dec-17-08 19:44    Analyst: 4150 Seq Number: 744082	Date Prep: Dec-16-08 12:07    Tech: CHL

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	0.068	0.010	0.002	mg/L		1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	<b>Prep Method:</b> SW5030B
Date Analyzed: Dec-15-08 13:59    Analyst: ANI Seq Number: 743646	Date Prep: Dec-15-08 10:06    Tech: ANI

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	2.20	2.00	0.220	ug/L		1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	5.10	1.00	0.200	ug/L		1
Xylenes, Total	1330-20-7	5.1	3.00		ug/L		1

Project: SC UST Sites

Version: 1.014



# Certificate of Analytical Results 320307



## Consultech Environmental, Inc., Cary, NC

Interstate Truck, Ulmer SC

Sample Id: DW-1	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-021	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> EDB by SW-846 8011	<b>Prep Method:</b> EXT_8011
Date Analyzed: Dec-16-08 04:36    Analyst: VCH	Date Prep: Dec-15-08 14:46    Tech: 4118
Seq Number: 743848	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0049	ug/L	U	1

<b>Analytical Method:</b> Metals, Total by SW846 6010B	<b>Prep Method:</b> SW3010A
Date Analyzed: Dec-17-08 19:46    Analyst: 4150	Date Prep: Dec-16-08 12:07    Tech: CHL
Seq Number: 744082	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

<b>Analytical Method:</b> Select VOCs by SW-846 8260B	<b>Prep Method:</b> SW5030B
Date Analyzed: Dec-13-08 19:36    Analyst: ANI	Date Prep: Dec-13-08 14:11    Tech: ANI
Seq Number: 743431	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

Project: SC UST Sites

Version: 1.014



# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: DW-2	Matrix: WATER	% Moisture:
Lab Sample Id: 320307-022	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

Analytical Method: EDB by SW-846 8011		Prep Method: EXT_8011	
Date Analyzed: Dec-16-08 04:58	Analyst: VCH	Date Prep: Dec-15-08 14:46	Tech: 4118
Seq Number: 743848			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.019	0.0048	ug/L	U	1

Analytical Method: Metals, Total by SW846 6010B		Prep Method: SW3010A	
Date Analyzed: Dec-17-08 19:48	Analyst: 4150	Date Prep: Dec-16-08 12:07	Tech: CHL
Seq Number: 744082			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

Analytical Method: Select VOCs by SW-846 8260B		Prep Method: SW5030B	
Date Analyzed: Dec-13-08 20:02	Analyst: ANI	Date Prep: Dec-13-08 14:11	Tech: ANI
Seq Number: 743431			

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

Project: SC UST Sites

Version: 1.014



# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: <b>DW-3</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>320307-023</b>	Date Collected: <b>Dec-10-08 00:00</b>	Date Received: <b>Dec-12-08 17:53</b>

<b>Analytical Method: EDB by SW-846 8011</b>	Prep Method: <b>EXT_8011</b>
Date Analyzed: Dec-16-08 05:21    Analyst: <b>VCH</b>	Date Prep: Dec-15-08 14:46    Tech: <b>4118</b>
Seq Number: <b>743848</b>	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.021	0.0051	ug/L	U	1

<b>Analytical Method: Metals, Total by SW846 6010B</b>	Prep Method: <b>SW3010A</b>
Date Analyzed: Dec-17-08 19:53    Analyst: <b>4150</b>	Date Prep: Dec-16-08 12:07    Tech: <b>CHL</b>
Seq Number: <b>744082</b>	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

<b>Analytical Method: Select VOCs by SW-846 8260B</b>	Prep Method: <b>SW5030B</b>
Date Analyzed: Dec-13-08 20:29    Analyst: <b>ANI</b>	Date Prep: Dec-13-08 14:11    Tech: <b>ANI</b>
Seq Number: <b>743431</b>	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	2.30	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: <b>DW-4</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>320307-024</b>	Date Collected: <b>Dec-10-08 00:00</b>	Date Received: <b>Dec-12-08 17:53</b>

<b>Analytical Method: EDB by SW-846 8011</b>	Prep Method: <b>EXT_8011</b>
Date Analyzed: Dec-16-08 05:43    Analyst: <b>VCH</b>	Date Prep: Dec-15-08 14:46    Tech: <b>4118</b>
Seq Number: <b>743848</b>	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	U	0.020	0.0048	ug/L	U	1

<b>Analytical Method: Metals, Total by SW846 6010B</b>	Prep Method: <b>SW3010A</b>
Date Analyzed: Dec-17-08 20:50    Analyst: <b>4150</b>	Date Prep: Dec-16-08 10:25    Tech: <b>CHL</b>
Seq Number: <b>744093</b>	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

<b>Analytical Method: Select VOCs by SW-846 8260B</b>	Prep Method: <b>SW5030B</b>
Date Analyzed: Dec-13-08 20:56    Analyst: <b>ANI</b>	Date Prep: Dec-13-08 14:11    Tech: <b>ANI</b>
Seq Number: <b>743431</b>	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: <b>DW-5</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>320307-025</b>	Date Collected: <b>Dec-10-08 00:00</b>	Date Received: <b>Dec-12-08 17:53</b>

<b>Analytical Method: EDB by SW-846 8011</b>			<b>Prep Method: EXT_8011</b>			
Date Analyzed: Dec-16-08 06:05	Analyst: VCH	Date Prep: Dec-15-08 14:46	Tech: 4118			
Seq Number: 743848						

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	0.21	0.020	0.0049	ug/L		1

<b>Analytical Method: Metals, Total by SW846 6010B</b>			<b>Prep Method: SW3010A</b>			
Date Analyzed: Dec-17-08 20:52	Analyst: 4150	Date Prep: Dec-16-08 10:25	Tech: CHL			
Seq Number: 744093						

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

<b>Analytical Method: Select VOCs by SW-846 8260B</b>			<b>Prep Method: SW5030B</b>			
Date Analyzed: Dec-13-08 21:23	Analyst: ANI	Date Prep: Dec-13-08 14:11	Tech: ANI			
Seq Number: 743431						

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	1.21	1.00	0.190	ug/L		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	3.31	1.00	0.140	ug/L		1
m,p-Xylenes	179601-23-1	4.66	2.00	0.510	ug/L		1
o-Xylene	95-47-6	1.66	1.00	0.200	ug/L		1
Xylenes, Total	1330-20-7	6.32	3.00		ug/L		1

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# Certificate of Analytical Results 320307



Consultech Environmental, Inc., Cary, NC  
Interstate Truck, Ulmer SC

Sample Id: <b>DW-6</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>320307-026</b>	Date Collected: <b>Dec-10-08 00:00</b>	Date Received: <b>Dec-12-08 17:53</b>

<b>Analytical Method: EDB by SW-846 8011</b>	Prep Method: <b>EXT_8011</b>
Date Analyzed: <b>Dec-16-08 06:27</b> Analyst: <b>VCH</b>	Date Prep: <b>Dec-15-08 14:46</b> Tech: <b>4118</b>
Seq Number: <b>743848</b>	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane (EDB)	106-93-4	.19	0.041	0.010	ug/L	D	2

<b>Analytical Method: Metals, Total by SW846 6010B</b>	Prep Method: <b>SW3010A</b>
Date Analyzed: <b>Dec-17-08 17:03</b> Analyst: <b>4150</b>	Date Prep: <b>Dec-16-08 10:15</b> Tech: <b>CHL</b>
Seq Number: <b>743975</b>	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	0.010	0.002	mg/L	U	1

<b>Analytical Method: Select VOCs by SW-846 8260B</b>	Prep Method: <b>SW5030B</b>
Date Analyzed: <b>Dec-13-08 21:50</b> Analyst: <b>ANI</b>	Date Prep: <b>Dec-13-08 14:11</b> Tech: <b>ANI</b>
Seq Number: <b>743431</b>	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	2.07	2.00	0.510	ug/L		1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	2.07	3.00		ug/L		1

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# Certificate of Analytical Results 320307



**Consultech Environmental, Inc., Cary, NC**

Interstate Truck, Ulmer SC

Sample Id: <b>WSW-2</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>320307-027</b>	Date Collected: <b>Dec-10-08 00:00</b>	Date Received: <b>Dec-12-08 17:53</b>

<b>Analytical Method: Select VOCs by SW-846 8260B</b>	Prep Method: <b>SW5030B</b>
Date Analyzed: Dec-13-08 22:16    Analyst: <b>ANI</b>	Date Prep: Dec-13-08 14:11    Tech: <b>ANI</b>
Seq Number: 743431	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	U	1
Naphthalene	91-20-3	U	2.00	0.220	ug/L	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	U	1
Xylenes, Total	1330-20-7	U	3.00		ug/L	U	1

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# Certificate of Analytical Results 320307



**Consultech Environmental, Inc., Cary, NC**  
Interstate Truck, Ulmer SC

Sample Id: SS-1	Matrix: SOIL	% Moisture:
Lab Sample Id: 320307-028	Date Collected: Dec-10-08 00:00	Date Received: Dec-12-08 17:53

<b>Analytical Method:</b> TPH (Gasoline Range Organics) by SW8015B	<b>Prep Method:</b> SW5030B
Date Analyzed: Dec-15-08 15:41    Analyst: ANI    Date Prep: Dec-15-08 09:03    Tech: ANI	
Seq Number: 743620	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
TPH-GRO (Gasoline Range Organics)	GRO	U	9.4	1.4	mg/kg	U	50

<b>Analytical Method:</b> TPH-Diesel Range Organics by SW-846 8015B	<b>Prep Method:</b> SW3545
Date Analyzed: Dec-16-08 22:13    Analyst: BRZ    Date Prep: Dec-15-08 08:00    Tech: 4155	
Seq Number: 743917	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
TPH-DRO (Diesel Range Organics)	DRO	U	9.8	1.1	mg/kg	U	1

Project: SC UST Sites

Version: 1.014



# Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.

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# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743627

Sample: 320307-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.47	5.00	109	60-140	

Lab Batch #: 743627

Sample: 320307-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.32	5.00	106	60-140	

Lab Batch #: 743627

Sample: 320307-002 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.76	5.00	115	60-140	

Lab Batch #: 743627

Sample: 320307-002 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.44	5.00	109	60-140	

Lab Batch #: 743627

Sample: 320307-003 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.00	5.00	120	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis.

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743627

Sample: 320307-003 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.17	5.00	123	60-140	

Lab Batch #: 743627

Sample: 320307-004 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.66	5.00	113	60-140	

Lab Batch #: 743627

Sample: 320307-004 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.39	5.00	88	60-140	

Lab Batch #: 743627

Sample: 320307-005 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.28	5.00	106	60-140	

Lab Batch #: 743627

Sample: 320307-005 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.39	5.00	108	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



## Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743627

Sample: 320307-006 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.52	5.00	130	60-140	

Lab Batch #: 743627

Sample: 320307-006 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.32	5.00	106	60-140	

Lab Batch #: 743627

Sample: 320307-007 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.85	5.00	137	60-140	

Lab Batch #: 743627

Sample: 320307-007 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.88	5.00	118	60-140	

Lab Batch #: 743627

Sample: 320307-008 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.81	5.00	116	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.





# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Project ID: C-05-05-032

Work Orders : 320307,

Lab Batch #: 743627

Sample: 320307-008 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.16	5.00	103	60-140	

Lab Batch #: 743627

Sample: 320307-009 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.63	5.00	113	60-140	

Lab Batch #: 743627

Sample: 320307-009 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.74	5.00	115	60-140	

Lab Batch #: 743627

Sample: 320307-010 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.21	5.00	124	60-140	

Lab Batch #: 743627

Sample: 320307-010 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.54	5.00	111	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743627

Sample: 320307-011 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.61	5.00	112	60-140	

Lab Batch #: 743627

Sample: 320307-011 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.08	5.00	102	60-140	

Lab Batch #: 743627

Sample: 320307-012 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.66	5.00	113	60-140	

Lab Batch #: 743627

Sample: 320307-012 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.63	5.00	93	60-140	

Lab Batch #: 743627

Sample: 320307-013 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.27	5.00	105	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



## Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743627

Sample: 320307-013 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.46	5.00	89	60-140	

Lab Batch #: 743627

Sample: 320307-014 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.51	5.00	110	60-140	

Lab Batch #: 743627

Sample: 320307-014 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.33	5.00	87	60-140	

Lab Batch #: 743627

Sample: 320307-015 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.00	5.00	120	60-140	

Lab Batch #: 743627

Sample: 320307-015 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.75	5.00	115	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



## Form 2 - Surrogate Recoveries

**Project Name: Interstate Truck, Ulmer SC**

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743627

Sample: 320307-016 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.74	5.00	115	60-140	

Lab Batch #: 743627

Sample: 320307-016 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.70	5.00	94	60-140	

Lab Batch #: 743627

Sample: 320307-017 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.49	5.00	130	60-140	

Lab Batch #: 743627

Sample: 320307-017 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.99	5.00	120	60-140	

Lab Batch #: 743627

Sample: 320307-018 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.89	5.00	118	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743627

Sample: 320307-018 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.31	5.00	106	60-140	

Lab Batch #: 743627

Sample: 320307-019 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.21	5.00	124	60-140	

Lab Batch #: 743627

Sample: 320307-019 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.16	5.00	103	60-140	

Lab Batch #: 743627

Sample: 320307-020 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.27	5.00	125	60-140	

Lab Batch #: 743627

Sample: 320307-020 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.20	5.00	104	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743627

Sample: 320307-020 S / MS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.22	5.00	104	60-140	

Lab Batch #: 743627

Sample: 320307-020 S / MS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.59	5.00	92	60-140	

Lab Batch #: 743627

Sample: 521192-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.50	5.00	110	60-140	

Lab Batch #: 743627

Sample: 521192-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.15	5.00	103	60-140	

Lab Batch #: 743627

Sample: 521192-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.44	5.00	109	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743627

Sample: 521192-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.06	5.00	101	60-140	

Lab Batch #: 743627

Sample: 521192-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.82	5.00	116	60-140	

Lab Batch #: 743627

Sample: 521192-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.12	5.00	102	60-140	

Lab Batch #: 743848

Sample: 320307-021 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.67	5.00	113	60-140	

Lab Batch #: 743848

Sample: 320307-021 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.91	5.00	98	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743848

Sample: 320307-022 / SMP

Batch: 1 Matrix: Water

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB by SW-846 8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.86	5.00	117	60-140	

Lab Batch #: 743848

Sample: 320307-022 / SMP

Batch: 1 Matrix: Water

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB by SW-846 8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.43	5.00	109	60-140	

Lab Batch #: 743848

Sample: 320307-023 / SMP

Batch: 1 Matrix: Water

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB by SW-846 8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.87	5.00	117	60-140	

Lab Batch #: 743848

Sample: 320307-023 / SMP

Batch: 1 Matrix: Water

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB by SW-846 8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.24	5.00	105	60-140	

Lab Batch #: 743848

Sample: 320307-024 / SMP

Batch: 1 Matrix: Water

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB by SW-846 8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.96	5.00	119	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.





# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743848

Sample: 320307-024 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.07	5.00	101	60-140	

Lab Batch #: 743848

Sample: 320307-025 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.22	5.00	104	60-140	

Lab Batch #: 743848

Sample: 320307-025 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.03	5.00	101	60-140	

Lab Batch #: 743848

Sample: 320307-026 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.90	5.00	118	60-140	

Lab Batch #: 743848

Sample: 320307-026 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.32	5.00	106	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743848

Sample: 320307-026 DL / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	2.66	2.50	106	60-140	

Lab Batch #: 743848

Sample: 320307-026 DL / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	2.15	2.50	86	60-140	

Lab Batch #: 743848

Sample: 320308-029 S / MS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.69	5.00	114	60-140	

Lab Batch #: 743848

Sample: 320308-029 S / MS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.75	5.00	115	60-140	

Lab Batch #: 743848

Sample: 521352-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.62	5.00	112	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743848

Sample: 521352-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.58	5.00	92	60-140	

Lab Batch #: 743848

Sample: 521352-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.12	5.00	102	60-140	

Lab Batch #: 743848

Sample: 521352-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.46	5.00	89	60-140	

Lab Batch #: 743848

Sample: 521352-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.63	5.00	93	60-140	

Lab Batch #: 743848

Sample: 521352-1-BSD / BSD

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB by SW-846 8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.18	5.00	84	60-140	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743431

Sample: 320307-015 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	41.53	50.00	83	53-159	
4-Bromofluorobenzene	48.77	50.00	98	30-186	
Toluene-D8	49.64	50.00	99	70-130	

Lab Batch #: 743431

Sample: 320307-015 S / MS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	39.28	50.00	79	53-159	
4-Bromofluorobenzene	49.09	50.00	98	30-186	
Toluene-D8	57.40	50.00	115	70-130	

Lab Batch #: 743431

Sample: 320307-015 SD / MSD

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	35.95	50.00	72	53-159	
4-Bromofluorobenzene	53.00	50.00	106	30-186	
Toluene-D8	56.60	50.00	113	70-130	

Lab Batch #: 743431

Sample: 320307-016 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	41.74	50.00	83	53-159	
4-Bromofluorobenzene	60.29	50.00	121	30-186	
Toluene-D8	50.12	50.00	100	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743431

Sample: 320307-018 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	41.91	50.00	84	53-159	
4-Bromofluorobenzene	49.45	50.00	99	30-186	
Toluene-D8	48.88	50.00	98	70-130	

Lab Batch #: 743431

Sample: 320307-019 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	42.45	50.00	85	53-159	
4-Bromofluorobenzene	58.07	50.00	116	30-186	
Toluene-D8	46.73	50.00	93	70-130	

Lab Batch #: 743431

Sample: 320307-021 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	41.80	50.00	84	53-159	
4-Bromofluorobenzene	49.97	50.00	100	30-186	
Toluene-D8	48.98	50.00	98	70-130	

Lab Batch #: 743431

Sample: 320307-022 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	42.69	50.00	85	53-159	
4-Bromofluorobenzene	51.05	50.00	102	30-186	
Toluene-D8	46.09	50.00	92	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743431

Sample: 320307-023 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	43.14	50.00	86	53-159	
4-Bromofluorobenzene	49.34	50.00	99	30-186	
Toluene-D8	49.31	50.00	99	70-130	

Lab Batch #: 743431

Sample: 320307-024 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	44.93	50.00	90	53-159	
4-Bromofluorobenzene	51.07	50.00	102	30-186	
Toluene-D8	49.40	50.00	99	70-130	

Lab Batch #: 743431

Sample: 320307-025 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	44.47	50.00	89	53-159	
4-Bromofluorobenzene	50.37	50.00	101	30-186	
Toluene-D8	46.18	50.00	92	70-130	

Lab Batch #: 743431

Sample: 320307-026 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	45.12	50.00	90	53-159	
4-Bromofluorobenzene	51.18	50.00	102	30-186	
Toluene-D8	49.22	50.00	98	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743431

Sample: 320307-027 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	46.11	50.00	92	53-159	
4-Bromofluorobenzene	48.21	50.00	96	30-186	
Toluene-D8	45.81	50.00	92	70-130	

Lab Batch #: 743431

Sample: 521073-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	32.58	50.00	65	53-159	
4-Bromofluorobenzene	55.83	50.00	112	30-186	
Toluene-D8	55.04	50.00	110	77-124	

Lab Batch #: 743431

Sample: 521073-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	40.56	50.00	81	53-159	
4-Bromofluorobenzene	49.73	50.00	99	30-186	
Toluene-D8	46.00	50.00	92	77-124	

Lab Batch #: 743432

Sample: 320307-001 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	38.99	50.00	78	53-159	
4-Bromofluorobenzene	47.87	50.00	96	30-186	
Toluene-D8	51.42	50.00	103	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743432

Sample: 320307-002 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	36.67	50.00	73	53-159	
4-Bromofluorobenzene	52.99	50.00	106	30-186	
Toluene-D8	51.77	50.00	104	70-130	

Lab Batch #: 743432

Sample: 320307-004 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	50.57	50.00	101	53-159	
4-Bromofluorobenzene	52.95	50.00	106	30-186	
Toluene-D8	53.52	50.00	107	70-130	

Lab Batch #: 743432

Sample: 320307-005 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	38.56	50.00	77	53-159	
4-Bromofluorobenzene	45.63	50.00	91	30-186	
Toluene-D8	50.27	50.00	101	70-130	

Lab Batch #: 743432

Sample: 320307-006 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	35.78	50.00	72	53-159	
4-Bromofluorobenzene	51.92	50.00	104	30-186	
Toluene-D8	52.35	50.00	105	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.





# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743432

Sample: 320307-008 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	38.06	50.00	76	53-159	
4-Bromofluorobenzene	53.72	50.00	107	30-186	
Toluene-D8	51.52	50.00	103	70-130	

Lab Batch #: 743432

Sample: 320307-009 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	39.45	50.00	79	53-159	
4-Bromofluorobenzene	47.30	50.00	95	30-186	
Toluene-D8	49.06	50.00	98	70-130	

Lab Batch #: 743432

Sample: 320307-010 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	<0.0000	50.00	0	53-159	**
4-Bromofluorobenzene	53.05	50.00	106	30-186	
Toluene-D8	51.73	50.00	103	70-130	

Lab Batch #: 743432

Sample: 320307-010 S / MS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	57.88	50.00	116	53-159	
4-Bromofluorobenzene	46.00	50.00	92	30-186	
Toluene-D8	47.99	50.00	96	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743432

Sample: 320307-010 SD / MSD

Batch: 1 Matrix: Water

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
<b>Analytes</b>					
1,2-Dichloroethane-D4	37.99	50.00	76	53-159	
4-Bromofluorobenzene	45.65	50.00	91	30-186	
Toluene-D8	48.49	50.00	97	70-130	

Lab Batch #: 743432

Sample: 320307-011 / SMP

Batch: 1 Matrix: Water

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
<b>Analytes</b>					
1,2-Dichloroethane-D4	59.26	50.00	119	53-159	
4-Bromofluorobenzene	50.49	50.00	101	30-186	
Toluene-D8	52.18	50.00	104	70-130	

Lab Batch #: 743432

Sample: 320307-012 / SMP

Batch: 1 Matrix: Water

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
<b>Analytes</b>					
1,2-Dichloroethane-D4	60.48	50.00	121	53-159	
4-Bromofluorobenzene	53.27	50.00	107	30-186	
Toluene-D8	51.05	50.00	102	70-130	

Lab Batch #: 743432

Sample: 320307-013 / SMP

Batch: 1 Matrix: Water

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
<b>Analytes</b>					
1,2-Dichloroethane-D4	39.23	50.00	78	53-159	
4-Bromofluorobenzene	54.32	50.00	109	30-186	
Toluene-D8	51.26	50.00	103	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743432

Sample: 320307-014 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	36.00	50.00	72	53-159	
4-Bromofluorobenzene	49.00	50.00	98	30-186	
Toluene-D8	51.95	50.00	104	70-130	

Lab Batch #: 743432

Sample: 521072-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	37.73	50.00	75	53-159	
4-Bromofluorobenzene	45.24	50.00	90	30-186	
Toluene-D8	48.93	50.00	98	77-124	

Lab Batch #: 743432

Sample: 521072-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	58.58	50.00	117	53-159	
4-Bromofluorobenzene	56.56	50.00	113	30-186	
Toluene-D8	51.09	50.00	102	77-124	

Lab Batch #: 743646

Sample: 320307-002 / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	58.64	50.00	117	53-159	
4-Bromofluorobenzene	53.43	50.00	107	30-186	
Toluene-D8	51.80	50.00	104	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



## Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743646

Sample: 320307-003 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	56.76	50.00	114	53-159	
4-Bromofluorobenzene	48.71	50.00	97	30-186	
Toluene-D8	52.79	50.00	106	70-130	

Lab Batch #: 743646

Sample: 320307-005 / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	37.21	50.00	74	53-159	
4-Bromofluorobenzene	48.12	50.00	96	30-186	
Toluene-D8	50.71	50.00	101	70-130	

Lab Batch #: 743646

Sample: 320307-006 / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	37.53	50.00	75	53-159	
4-Bromofluorobenzene	51.86	50.00	104	30-186	
Toluene-D8	51.91	50.00	104	70-130	

Lab Batch #: 743646

Sample: 320307-007 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	59.81	50.00	120	53-159	
4-Bromofluorobenzene	57.42	50.00	115	30-186	
Toluene-D8	50.92	50.00	102	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

**Project Name: Interstate Truck, Ulmer SC**

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743646

Sample: 320307-007 S / MS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	34.45	50.00	69	53-159	
4-Bromofluorobenzene	43.84	50.00	88	30-186	
Toluene-D8	48.48	50.00	97	70-130	

Lab Batch #: 743646

Sample: 320307-007 SD / MSD

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	51.92	50.00	104	53-159	
4-Bromofluorobenzene	46.38	50.00	93	30-186	
Toluene-D8	47.37	50.00	95	70-130	

Lab Batch #: 743646

Sample: 320307-009 / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	58.01	50.00	116	53-159	
4-Bromofluorobenzene	54.66	50.00	109	30-186	
Toluene-D8	51.88	50.00	104	70-130	

Lab Batch #: 743646

Sample: 320307-014 / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	58.43	50.00	117	53-159	
4-Bromofluorobenzene	53.85	50.00	108	30-186	
Toluene-D8	50.54	50.00	101	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743646

Sample: 320307-016 / DL

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	37.01	50.00	74	53-159	
4-Bromofluorobenzene	50.35	50.00	101	30-186	
Toluene-D8	51.93	50.00	104	70-130	

Lab Batch #: 743646

Sample: 320307-017 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	60.58	50.00	121	53-159	
4-Bromofluorobenzene	58.68	50.00	117	30-186	
Toluene-D8	50.70	50.00	101	70-130	

Lab Batch #: 743646

Sample: 320307-020 / SMP

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	60.96	50.00	122	53-159	
4-Bromofluorobenzene	47.63	50.00	95	30-186	
Toluene-D8	51.66	50.00	103	70-130	

Lab Batch #: 743646

Sample: 521201-1-BKS / BKS

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	53.82	50.00	108	53-159	
4-Bromofluorobenzene	45.33	50.00	91	30-186	
Toluene-D8	49.23	50.00	98	70-130	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743646

Sample: 521201-1-BLK / BLK

Batch: 1 Matrix: Water

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-D4	58.71	50.00	117	53-159	
4-Bromofluorobenzene	54.31	50.00	109	30-186	
Toluene-D8	51.53	50.00	103	70-130	

Lab Batch #: 743620

Sample: 320307-028 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH (Gasoline Range Organics) by SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
p-Cymene (p-Isopropyltoluene)	0.10	0.10	100	66-121	

Lab Batch #: 743620

Sample: 320319-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH (Gasoline Range Organics) by SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
p-Cymene (p-Isopropyltoluene)	0.11	0.10	110	66-121	

Lab Batch #: 743620

Sample: 320319-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH (Gasoline Range Organics) by SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
p-Cymene (p-Isopropyltoluene)	0.11	0.10	110	66-121	

Lab Batch #: 743620

Sample: 521186-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH (Gasoline Range Organics) by SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
p-Cymene (p-Isopropyltoluene)	0.11	0.10	110	66-121	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743620

Sample: 521186-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH (Gasoline Range Organics) by SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
p-Cymene (p-Isopropyltoluene)	0.11	0.10	110	66-121	

Lab Batch #: 743917

Sample: 320307-028 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH-Diesel Range Organics by SW-846 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
o-Terphenyl	1.5	1.6	94	32-116	

Lab Batch #: 743917

Sample: 320319-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH-Diesel Range Organics by SW-846 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
o-Terphenyl	1.5	1.7	88	32-116	

Lab Batch #: 743917

Sample: 320319-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH-Diesel Range Organics by SW-846 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
o-Terphenyl	1.3	1.6	81	32-116	

Lab Batch #: 743917

Sample: 521093-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH-Diesel Range Organics by SW-846 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
o-Terphenyl	2.0	1.7	118	32-116	**

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.





# Form 2 - Surrogate Recoveries

Project Name: Interstate Truck, Ulmer SC

Work Orders : 320307,

Project ID: C-05-05-032

Lab Batch #: 743917

Sample: 521093-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH-Diesel Range Organics by SW-846 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
o-Terphenyl	1.7	1.7	100	32-116	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.



- 5757 N.W. 156th Street, Miami Lakes, FL 33014 305-823-8500
- 2505 Falkenburg Rd, Tampa, FL 33569 813-620-2000
- 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

**ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD**

Philadelphia/New Jersey 610-955-5649

Serial #: **223486**

Page **1** of **3**

Company-City

ConsulTech Environmental 919 234 4238

Lab Only: **WO# 320307**

Project Name-Location  Previously done at XENCO Project ID

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, TN, TX, UT Other

FL Preburn: Virgin Non-Virgin

Fax Results to  PM or  Other

SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)

e-mail to **March Creel**

Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471

Invoice to  Accounting  Inc. Invoice with Final Report  Invoice must have a P.O. Bill to:

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Quote/Pricing:  Call for P.O.

PAHs: 8270 8100 8310 8270 SIM

Reg Program:  DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

TRPH by FL PRO DRO GRO MA EPH MA VPH

OAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)

Special DLs (GW DW QAPP MDLs RLS See Lab PM Included Call PM)

Pest. (8081 / 608) PCBs (8082 / 608) Herb. (8151 / 615)

LPST No.:

EDB / DBCP (8011 / 504)

Sampler Name **March Creel** Signature

Method: 8260 8021 624 524

Sampling Date

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Time

Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471

Depth

SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)

Matrix

TRPH by FL PRO DRO GRO MA EPH MA VPH

# Containers

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Grab

Metals Methods: 6020 / 6010 / 200.8 / 7470 / 7471

Composite

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Container Size

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Container Type

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Preservatives

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Relinquished by (Initials and Sign)

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Date & Time

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Relinquished to (Initials and Sign)

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Date & Time

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Total Containers per COC:

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Cooler Temp:

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

All XENCO Standard Terms and Conditions Apply.

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Rush Charges are Pre-Approved upon Requesting them.

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool.<4C) (C), None (NA), See Label (L), Other (O)

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Matrix: Air (A), Product (P), Solid(S), Water (W)

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

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Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2



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- 2505 Falkenburg Rd, Tampa, FL 33569 813-620-2000
- 6017 Financial Drive, Norcross, Georgia 30071 770-449-8800

**ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD**

- Philadelphia/New Jersey 610-955-5649

Serial #: 223354 Page 2 of 3

**Company-City**

Project Name-Location: *Consulting Environmental 919-234-4238*  
 Previously done at XENCO  
 Project ID: *Interstate Park, U/Mer, SC C-05-05-032*  
 Proj State: AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, TX, UT Other  
 Proj Manager (PM): *Mark Creel*  
 Fax Results to  PM or  email to: *mark@creel.com*  
 Fax No: *merseleconsulting.com*

Invoice to  Accounting  Inc. Invoice with Final Report  Invoice must have a P.O. Bill to:

Quote/Pricing:  P.O. No:  Call for P.O.  
 Reg Program:  DRY-CLEAN Land-Fill Waste-Disp NPDES DW GA HSRA

OAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:  
 Special DLs (GW DW QAPP MDLs RLS See Lab PM Included Call PM)  
 LPST No.:

Sampler Name: *Mark Creel* Signature: *[Signature]*

Sample ID	Sampling Date	Time	Depth m	Matrix	Composite	# Containers	Container Size	Container Type	Preservatives
MW-11	12/10/08			AW	X	5			
MW-12									
MW-13									
MW-14									
MW-15									
MW-16									
MW-17									
MW-18									
MW-19									
MW-20									

Relinquished by (Initials and Sign) *MAC* Date & Time *12/10/08 3:00PM*  
 Relinquished to (Initials and Sign) \_\_\_\_\_ Date & Time \_\_\_\_\_  
 Relinquished to (Initials and Sign) \_\_\_\_\_ Date & Time \_\_\_\_\_

Lab Only: **WO # 320307**

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

VOCs BTEX-MTBE VOAs PP TCL Appdx 1 Appdx 2  
 Method: 8260 8021 624 524  
 PAHs: 8270 8100 8310 8270 SIM  
 TRPH by FL PRO DRO GRO MA EPH MA VPH  
 SVOCs: 8270 625 - (BN&AE) (TCL) (PP) (Appdx 2)  
 Pest. (8081/608) PCBs (8082/608) Herb. (8151/615)  
 EDB/DBCP (8011/504)  
 Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2  
 Metals Methods: 6020/6010/200.8/7470/7471  
 SLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)  
 FL Preburtm: Virgin Non-Virgin

Address: 10000  
 9  
 8  
 7  
 6  
 5  
 4  
 3  
 2  
 1

Remarks: Sample Clean-ups are pre-approved as needed  
 Hold Samples (Surcharges will apply and are pre-approved)  
 Addn: PAH above mg/L W, mg/kg S Highest Hit  
 TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O)  
 Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tediur Bag (B), Wipe (W), Other  
 Matrix: Air (A), Product (P), Solid(S), Water (W)

All XENCO Standard Terms and Conditions Apply.  
 Rush Charges are Pre-Approved upon Requesting them.

Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Other (O)  
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- 5308 Wurzbach, Suite 104, San Antonio, TX 78238 210-509-3334
- 9700 Harry Hines Blvd., Dallas, TX 75220 972-902-0300

**ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD**

- 5757 N.W. 158th Street, Miami Lakes, FL 33014 305-823-8500
- 3016 US Highway 301 N., Suite 900, Tampa, FL 33619 813-620-2000

LAB ONLY: **W# 320307**

Serial #: **213302** Page **3** of **3**

Company-City: **Company Name** **Previously performed at XENCO Site**  
**Project Name** **Previously performed at XENCO Site**  
**Proj. Manager (PM)** **Site**  
**Fac Results to** **PM or**  
**e-mail to:** **mcrc@acoconsultakenv.com** **Fax No:**  
**Invoice to**  Accounting  Inc. Invoice with Final Report  Invoice must have a P.O.  
**Bill to:**  
**Quote No:** **P.O No:**  Call for a P.O.  
**Reg Program:** CLP AFCEE TRRP DW **State** Other:  
**Target DLs ( DW CRDL TRRP GAPP MDLs See Lab PM Attached Call )**  
**TRRP PCLs:** Tier 1 Residential Industrial  
**LPST No.:( Required)**  
**Sampler Name** **Signature**

Company-City: **Company Name** **Previously performed at XENCO Site**  
**Project Name** **Previously performed at XENCO Site**  
**Proj. Manager (PM)** **Site**  
**Fac Results to** **PM or**  
**e-mail to:** **mcrc@acoconsultakenv.com** **Fax No:**  
**Invoice to**  Accounting  Inc. Invoice with Final Report  Invoice must have a P.O.  
**Bill to:**  
**Quote No:** **P.O No:**  Call for a P.O.  
**Reg Program:** CLP AFCEE TRRP DW **State** Other:  
**Target DLs ( DW CRDL TRRP GAPP MDLs See Lab PM Attached Call )**  
**TRRP PCLs:** Tier 1 Residential Industrial  
**LPST No.:( Required)**  
**Sampler Name** **Signature**

Sample ID	Sampling Date	Time	Depth	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives
DW-1	12/14/08		3	GW			X5			
DW-2										
DW-3										
DW-4										
DW-5										
DW-6										
LWSW-2										
SS-1										

Relinquished by ( Initials and Sign) **MPC** Date & Time **12-14-08 3:00 PM**  
 Relinquished to ( Initials and Sign) \_\_\_\_\_ Date & Time \_\_\_\_\_  
 Rush Charges are Pre-Approved upon requesting them.  
 Instructions:  
 All XENCO Standard Terms and Conditions Apply.  
 Containers Received: \_\_\_\_\_ Cooler Temperature: \_\_\_\_\_  
 Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O)  
 Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other \_\_\_\_\_ Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Other (O)  
 Matrix: Air (A), Product (P), Solid(S), Water (W)  
 SDBE Committed to Excellence in Service and Quality since 1990  
 www.xenco.com



Prelogin/Nonconformance Report- Sample Log-In

Client: Consultech Env. Inc.  
 Date/ Time: 12-12-08 17:53  
 Lab ID #: 320307  
 Initials: DL

Sample Receipt Checklist

#1	Temperature of cooler?				2 °C
#2	Shipping container in good condition?	YES	No	None	
#3	Samples received on ice?	YES	No	N/A	Blue/Water
#4	Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Chain of Custody present?	YES	No		
#7	Sample instructions complete of Chain of Custody?	YES	No		
#8	Any missing/extra samples?	Yes	NO		DP 12/12/08
#9	Chain of Custody signed when relinquished/ received?	YES	No		
#10	Chain of Custody agrees with sample label(s)?	YES	No		
#11	Container label(s) legible and intact?	YES	No		
#12	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#13	Samples in proper container/ bottle?	YES	No		
#14	Samples properly preserved?	YES	No	N/A	
#15	Sample container(s) intact?	YES	No		
#16	Sufficient sample amount for indicated test(s)?	YES	No		
#17	All samples received within sufficient hold time?	YES	No		
#18	Subcontract of sample(s)?	Yes	NO		
#19	VOC samples have zero headspace?	YES	No	N/A	

Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: #8 - Metal bottles for samples MW-10, MW-11 and MW-16 were missing.

Corrective Action Taken:  
#8 - The client was contacted and Xenco was told to proceed with the remaining analyses. DP 12/15/08

- Check all that Apply:
- Client understands and would like to proceed with analysis
  - Cooling process had begun shortly after sampling event

**APPENDIX 3**  
**WASTE DISPOSAL MANIFEST**

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>CES06</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>919-662-1164</b>	4. Waste Tracking Number <b>14423</b>
5. Generator's Name and Mailing Address <b>INTERSTATE TRUCK TERMINAL HIGHWAY 301/321 GENERATOR'S SITE ADDRESS (if different than mailing address)</b>					
Generator's Phone: <b>919 851-4319</b> <b>135ERS, SC 29749</b>					
8. Transporter 1 Company Name <b>Environmental Options</b>				U.S. EPA ID Number <b>WA00022994</b>	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address <b>CEB, INC. 917 INDUSTRIAL ROAD</b>				U.S. EPA ID Number <b>SC000003442</b>	
Facility's Phone: <b>(853) 538-8131</b> <b>WATERBORO, SC 29138</b>					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.	<b>IDW SOIL, # + water</b>	<b>007</b>	<b>IDW</b>	<b>6300</b>	<b>P</b>
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information  <b>* Do not process until material is approved *</b>					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name <b>Scott D B. Aymer</b>				Signature 	
				Month Day Year <b>12 29 08</b>	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name <b>Jon Angle</b>				Signature 	
				Month Day Year <b>12 29 08</b>	
Transporter 2 Printed/Typed Name				Signature	
				Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name <b>Dean Ritchfield</b>				Signature 	
				Month Day Year <b>12 29 08</b>	

# **Agra Environmental**

December 9, 2008

Ms. Minda Johnson  
Assessment Section  
Assessment & Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land & Waste Management  
South Carolina DHEC  
2600 Bull Street  
Columbia, South Carolina 29201

RE: Tier II Assessment Report  
Interstate Truck Terminal  
Hwy 301 & 321  
Ulmer, South Carolina  
SCDHEC Site ID # 00332, CA# 31575

Dear Ms Johnson,

This letter serves as certification that all water encountered during our Tier II work was handled in a manner that complies with all conditions established by DHEC for treatment of small amounts of petroleum hydrocarbon contaminated groundwater.

**Source:**

Groundwater obtained as a result of well development, well purging and groundwater sampling.

**Conditions:**

- No free product was disposed of separately from the drums of water.
- The water obtained was containerized on site, for a period of less than 30 days, prior to treatment by the activated carbon canisters.
- Records of carbon canister usage are maintained by Agra.
- The carbon canisters have an expected life of 5,000 gallons before replacement is required.
- Recommendations and conditions issued by the canister manufacturer and SCDHEC have been followed.
- All water obtained was treated on site using an up-flow treatment drum consisting of 90 lbs. of activated carbon. Manufacturer's suggested treatment life is 5,000 gallons of water.



**Specific site conditions of referenced site:**

- A total of two 55-gallon drums of water were treated on December 8, 2008 at the referenced site

Should you have any questions, please contact me at 919-858-5350.

Sincerely,  
**Agra Environmental, Inc.**



John Klien  
Project Manager

*for John Klien*

**APPENDIX 5**  
**FIELD DATA**



Summary of Slug Test  
Division of Underground Storage Tank Management

Site Data

UST Permit #: 332 County: ALLENDALE  
Facility Name: INTERSTATE TRUCK RENTAL

Slug Data

See Appendix 7 Table \_\_\_\_\_ Figure \_\_\_\_\_ for a list of all data measurements. [water level logs, etc. (complete as appropriate)].

Water Level Recovery Data was measured by WATER LEVEL INDICATOR  
[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	MW-2	MW-3	MW-5R
Initial Rise/Drawdown in Well (feet)	1.31	.06	.61
Radius of Well Casing (feet)	.083		
Effective Radius of Well (feet)	.1666		
Static Saturated Aquifer Thickness (feet)	3.91	5.86	3.81
Length of Well Screen (feet)	10	10	10
Static Height of Water Column in Well (ft)	3.91	5.86	3.81

Calculations

See Appendix 7 Table \_\_\_\_\_ Figure \_\_\_\_\_ for calculations (complete as appropriate).

The method for aquifer calculations was BOUWER-RICE (i.e. Bouwer-Rice, Cooper, etc.).

Calculated values by well were as follows:

Slug Test Conducted in Well(s) Number	MW-2	MW-3	MW-5R
Hydraulic Conductivity FT/DAY	14.66	21.76	25.06

Thickness of the aquifer used to calculate hydraulic conductivity was \_\_\_\_\_ feet.

The aquifer is \_\_\_\_\_ confined  semi-confined \_\_\_\_\_ water table (check as appropriate).

The estimated seepage velocity is 274 feet per year based on

a hydraulic conductivity of 20,49'/d. a hydraulic gradient of .011'/ft and

a porosity of .30 percent for SANDY soil (list type i.e., silty sand, clay, etc).

14.66ft/day MW-2  
21.76ft/day MW-3  
25.06ft/day MW-5R

---

$$61.48 \text{ ft/day} / 3 = 20.49 \text{ ft/day}$$

---

$$73.85 \text{ ft} - 72.87 \text{ ft} / 90 \text{ ft} = .98 / 90 = .011 \text{ ft/ft}$$

---

$$20.49 \text{ ft/day} \times .011 \text{ ft/ft} / .30 =$$

.75 ft/day or 274 ft/year

### MW-3

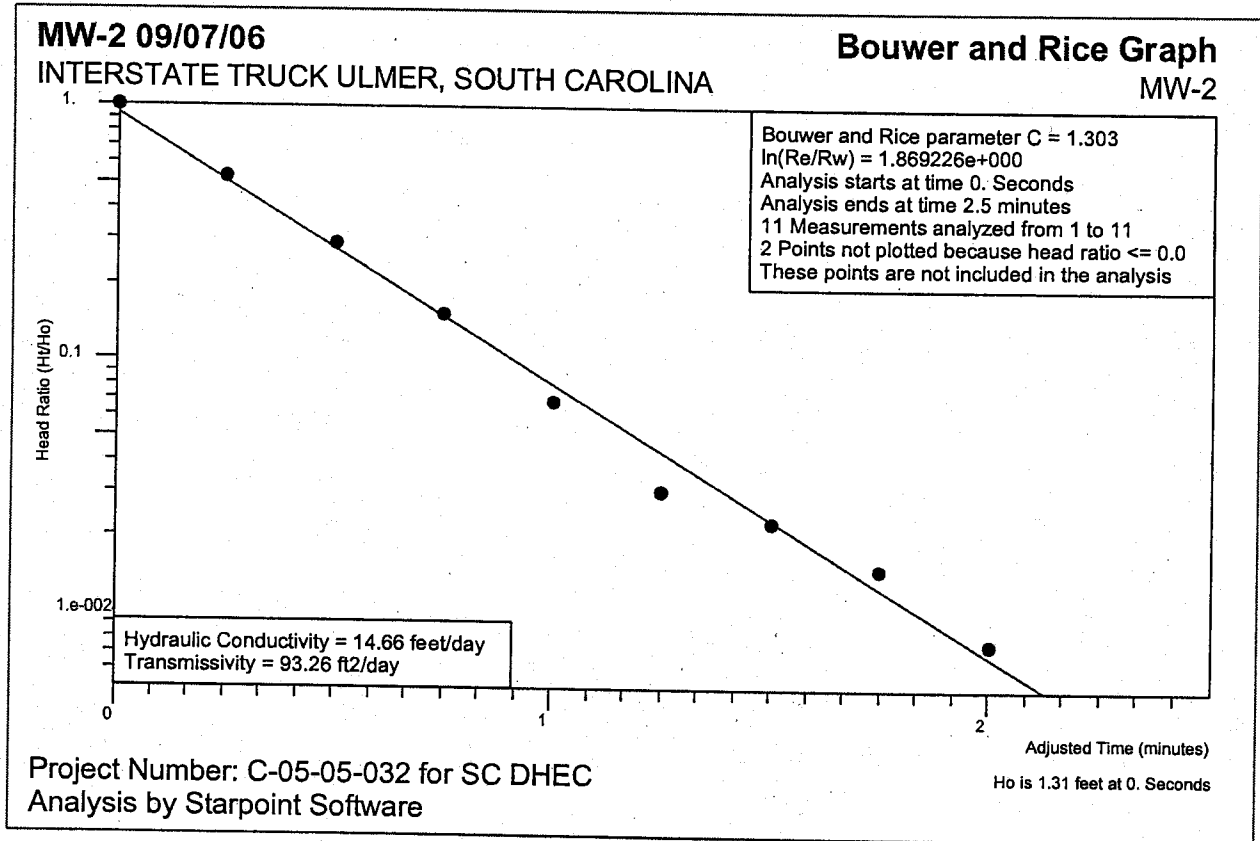
	29.14
.25	29.20
.5	29.17
.75	29.15
1.0	29.14

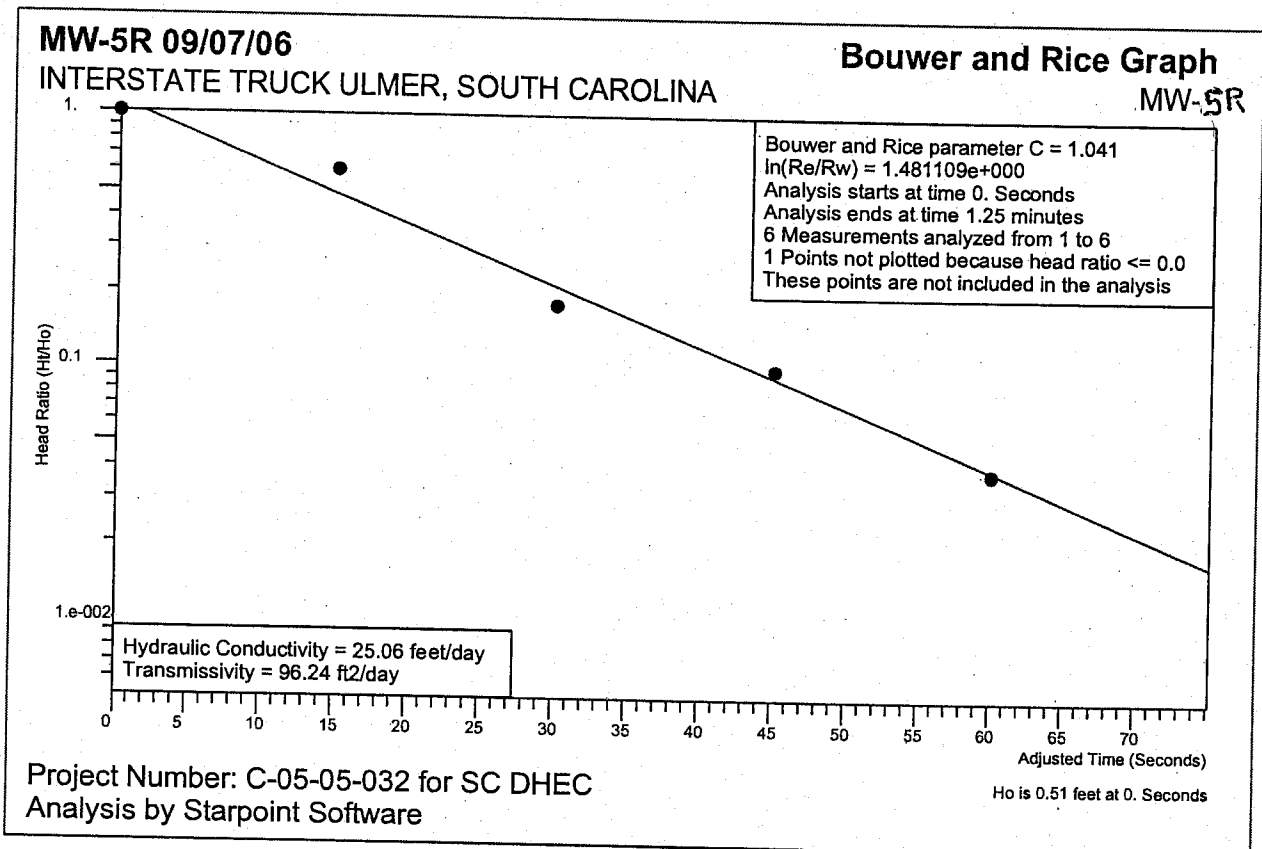
### MW-5R

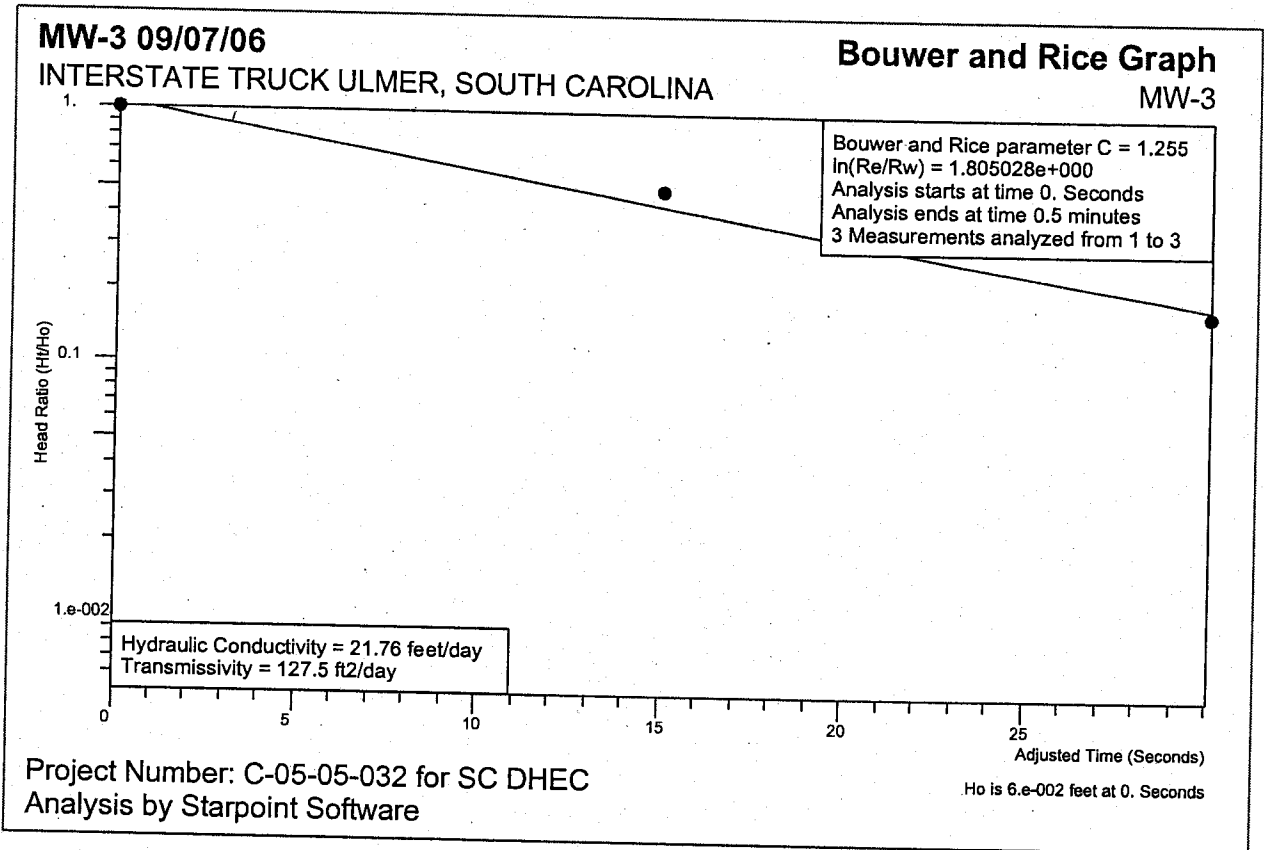
	31.19
.25	31.7
.5	31.5
.75	31.28
1.0	31.24
1.25	31.21
1.5	31.19

### MW-2

	31.09
.25	32.40
.5	31.78
.75	31.47
1.0	31.29
1.25	31.18
1.5	31.31
1.75	31.12
2.0	31.11
2.25	31.1









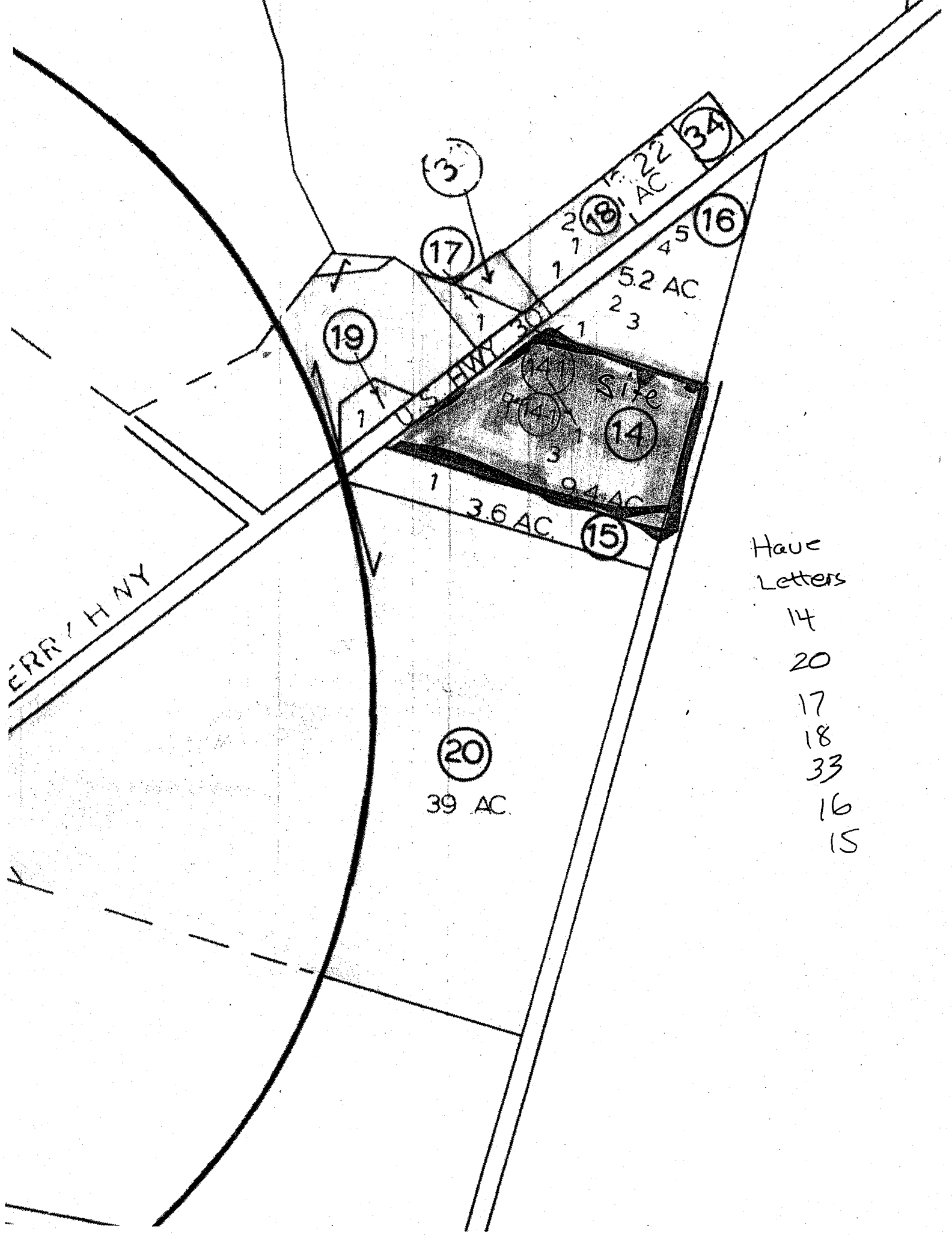
**APPENDIX 6**  
**SURVEY PLAT**

**Survey map will be sent directly to the DHEC Project Manager**

**APPENDIX 7**  
**TAX MAP AND SURROUNDING**  
**PROPERTY OWNERS**

**Adjacent Property Owners**  
**Interstate truck Terminal UST #332**  
**Allendale County**

<u>Tax map and parcel #</u>	<u>Owner name and address</u>
<b>SITE</b>	Mr. Julius Moody Rte. 3 Box 192B, Bamberg, 29003 803-245-4470
131-14	Carlyle Moody 1375 Capernaum Rd. Bamberg
131-15	Francia Maracle PO Box 6 Ulmer 29849
131-17	Mary Anne Johnson 155 Bird Dog Rd. Ehrardt
131-33	Town of Ulmer PO Box 128 Ulmer 29849
131-19	Same as above
131-20	Hector F. Avelar PO Box 1907 Hardeeville 29927 Wilma M. McCain 101 Lake Margaret Dr. Denmark, SC 29042



Have  
Letters  
14  
20  
17  
18  
33  
16  
15



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, Frances Maracle, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-015 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans  
Company Representative

8-23-05  
Date

Consultech Environmental, Inc.  
Telephone Number (678) 377-0400  
Fax Number (678) 377-0051  
C-32

Agreed and Consented to giving access:

Frances Maracle  
Property Owner's Signature

Frances Maracle  
Printed Name

Access Denied:

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, Carlyle Moody, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-014 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans

Company Representative

8-23-05

Date

**Consultech Environmental, Inc.**  
 Telephone Number (678) 377-0400  
 Fax Number (678) 377-0051  
 C-033

**Agreed and Consented to giving access:**

W. E. Myrick, Jr. Esq.

Property Owner's Signature  
 William E. Myrick, Jr. Agent for  
Carlyle Moody

Printed Name

**Access Denied:**

\_\_\_\_\_  
 Property Owner's Signature

\_\_\_\_\_  
 Printed Name

RIGHT OF ENTRY AND PERMISSION FORM

UNDERGROUND STORAGE TANK AND PROPERTY OWNER

Interstate Truck Terminal, Highways 301 & 321, Ulmer, SC, Allendale County, UST Permit # 00332

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, JULIUS MOODY, certify that I am the legal owner of the underground storage tanks and property located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (SCDHEC) or its contractors to enter this property at reasonable times only to accomplish site assessment and liquid removal activities. I understand that SCDHEC will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of the results of each activity.

Name of Facility INTERSTATE TRUCK TERMINAL Phone # N/A  
Street Address of Facility HIGHWAYS 301 and 321  
Town, City, District, Suburb ULMER, SOUTH CAROLINA  
Name of nearest intersecting street, road, highway, alley  
301 North

Is this facility within the city limits? (yes or no) YES  
Does a public water or sewer utility service this facility? (yes or no) no. If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines.  
\_\_\_\_\_ phone number \_\_\_\_\_

Were underground storage tanks previously removed from the ground at this facility? (yes or no) no  
If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation  
\_\_\_\_\_ Phone number \_\_\_\_\_

Is the property currently leased or rented to someone? (yes or no) no. If yes, please provide their name \_\_\_\_\_ and phone number \_\_\_\_\_ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before assessment activities begin.

NAME of UST/property owner (Please Print): JULIUS MOODY  
Contact Person: William E. Myrick, Jr.  
Phone Number (home) (803)584-4333 (work) NOT WORKING

Signature of UST/property Owner: Julius Moody

Witness: W E Myrick Jr Esq.

Date: May Month 15th Day 2002 Year





# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consulatech Environmental, Inc. (Consulatech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-017, 131-00-00-018, 131-00-00-033 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consulatech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consulatech making reasonable restoration to the property resulting from Consulatech's activities on the property.

Carey Evans  
Company Representative

8-23-05  
Date

Consulatech Environmental, Inc.  
Telephone Number (678) 377-0400  
Fax Number (678) 377-0051  
C-033

Agreed and Consented to giving access:

[Signature]  
Property Owner's Signature

J. Fleetwood Stokes, Jr.  
Printed Name

Access Denied:

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, Mary A. Johnson Jones, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-016 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carley Evans  
 Company Representative  
8-23-05  
 Date

**Consultech Environmental, Inc.**  
 Telephone Number (678) 377-0400  
 Fax Number (678) 377-0051  
 C-033

**Agreed and Consented to giving access:**  
Mary A. Johnson Jones  
 Property Owner's Signature  
Mary A. Johnson Jones  
 Printed Name

**Access Denied:**  
 \_\_\_\_\_  
 Property Owner's Signature  
 \_\_\_\_\_  
 Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I Sandra A. McElveen hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assign the right to enter upon the property located 6212 Salem Rd. for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- > Drilling of soil test boring(s);
- > Installation of groundwater monitoring well(s);
- > Measuring depth to groundwater, about once every three months;
- > Collection of groundwater samples, about once every three months; or
- > Maintenance of the monitoring well(s).

Access to the monitoring well(s) will be needed for a time period not likely to exceed three to five years after well installation is completed. The property owner will be notified at least 48 hour in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Company Representative

Date 8/11/06

Consultech Environmental, Inc.  
Telephone Number (919) 861-4319  
Fax Number (919) 858-5351

Agreed and Consented to giving access:

Sandra A. McElveen  
Property Owner's Signature

SANDRA A. McELVEEN  
Printed Name

843-659-4806  
Jennifer M. Johnson  
@ Post Office  
843-659-4616

Access Denied:

Property Owner's Signature

Printed Name

c.  
Property directly in front of site across Salem Rd

530 Pylon Drive • Raleigh, North Carolina 27606  
(919) 861-4319 • FAX (919) 858-5351



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_ hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant \_\_\_\_\_ its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assign the right to enter upon the property located \_\_\_\_\_ for the purpose of performing an environmental assessment, as requested by \_\_\_\_\_ which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well(s) will be needed for a time period not likely to exceed three to five years after well installation is completed. The property owner will be notified at least 48 hour in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.  
This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

\_\_\_\_\_  
Company Representative

\_\_\_\_\_  
Date

Consultech Environmental, Inc.  
Telephone Number (919) 861-4319  
Fax Number (919) 858-5351

Agreed and Consented to giving access:

Charlotte McGee  
Property Owner's Signature

Charlotte McGee  
Printed Name

*talked to  
store owner  
gave you 16-  
permission  
sign for*

Access Denied:

*C.  
across old Manning Rd*

\_\_\_\_\_  
Property Owner's Signature



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assign the right to enter upon the property located \_\_\_\_\_ for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- > Drilling of soil test boring(s);
- > Installation of groundwater monitoring well(s);
- > Measuring depth to groundwater, about once every three months;
- > Collection of groundwater samples, about once every three months; or
- > Maintenance of the monitoring well(s).

Access to the monitoring well(s) will be needed for a time period not likely to exceed three to five years after well installation is completed. The property owner will be notified at least 48 hour in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Company Representative

8/18/06  
Date

Consultech Environmental, Inc.  
Telephone Number (919) 861-4319  
Fax Number (919) 858-5351

C-

Site  
owner

Agreed and Consented to giving access:

John E. Johnson Jr  
Property Owner's Signature

John E. Johnson Jr  
Printed Name

Access Denied:

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name

530 Pylon Drive \* Raleigh, North Carolina 27606  
(919) 861-4319 \* FAX (919) 858-5351



# CONSULTECH ENVIRONMENTAL, INC.

*Consulting Engineers, Geologists & Scientists*

## PERMISSION TO ENTER PROPERTY

I, CRAIG FLOYD, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located VACANT LOTS ON HWY 301, for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- > Drilling of soil test boring(s);
- > Installation of groundwater monitoring well(s);
- > Measuring depth to groundwater, about once every three months;
- > Collection of groundwater samples, about once every three months; or
- > Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Kurtz Curtis  
Company Representative

2-18-05  
Date

Consultech Environmental, Inc.  
Telephone Number (678) 377-0400  
Fax Number (678) 377-0051

Agreed and Consented to giving access:

[Signature]  
Property Owner's Signature

Craig Floyd  
Printed Name

Access Denied:

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-020 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans

Company Representative

8-23-05

Date

**Consultech Environmental, Inc.**

Telephone Number (678) 377-0400

Fax Number (678) 377-0051

C-033

**Agreed and Consented to giving access:**

Wilma M. McCain

Property Owner's Signature

Wilma M. McCain

Printed Name

**Access Denied:**

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name

January 23, 2009

Ms. Debra Thoma  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201

**RECEIVED**

**JAN 27 2009**

**UNDERGROUND STORAGE  
TANK PROGRAM**

RE: Project: INTERSTATE TRUCK TERMINAL #00332  
Pace Project No.: 9236268

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on January 16, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

  
Renee Spencer

renee.spencer@pacelabs.com  
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**

Page 1 of 10

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**UST PROGRAM  
DOCKETING #** 3



## CERTIFICATIONS

Project: INTERSTATE TRUCK TERMINAL  
Pace Project No.: 9236268

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### Charlotte Certification IDs

West Virginia Certification #: 357  
Virginia Certification #: 00213  
Tennessee Certification #: 04010  
South Carolina Drinking Water Cert. #: 990060003  
South Carolina Certification #: 990060001  
Pennsylvania Certification #: 68-00784  
North Carolina Wastewater Certification #: 12

North Carolina Field Services Certification #: 5342  
North Carolina Drinking Water Certification #: 37706  
New Jersey Certification #: NC012  
Louisiana/LELAP Certification #: 04034  
Kentucky UST Certification #: 84  
Florida/NELAP Certification #: E87627  
Connecticut Certification #: PH-0104

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### Asheville Certification IDs

West Virginia Certification #: 356  
Virginia Certification #: 00072  
Tennessee Certification #: 2980  
South Carolina Certification #: 99030001  
South Carolina Bioassay Certification #: 99030002  
Pennsylvania Certification #: 68-03578  
North Carolina Wastewater Certification #: 40

North Carolina Drinking Water Certification #: 37712  
North Carolina Bioassay Certification #: 9  
New Jersey Certification #: NC011  
Massachusetts Certification #: M-NC030  
Louisiana/LELAP Certification #: 03095  
Florida/NELAP Certification #: E87648  
Connecticut Certification #: PH-0106

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### Eden Certification IDs

Virginia Drinking Water Certification #: 00424  
North Carolina Wastewater Certification #: 633

North Carolina Drinking Water Certification #: 37738

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## REPORT OF LABORATORY ANALYSIS

Page 2 of 10

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### SAMPLE SUMMARY

Project: INTERSTATE TRUCK TERMINAL  
Pace Project No.: 9236268

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9236268001	MW-16	Water	01/15/09 15:30	01/16/09 15:35
9236268002	CREEK	Water	01/15/09 15:20	01/16/09 15:35

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: INTERSTATE TRUCK TERMINAL  
Pace Project No.: 9236268

---

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9236268001	MW-16	EPA 8260	DLK	13
9236268002	CREEK	EPA 8260	DLK	13

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK TERMINAL  
Pace Project No.: 9236268

Sample: MW-16									
Lab ID: 9236268001 Collected: 01/15/09 15:30 Received: 01/16/09 15:35 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	26.0	ug/L	25.0	6.0	5		01/22/09 08:55	71-43-2	
1,2-Dichloroethane	ND	ug/L	25.0	6.5	5		01/22/09 08:55	107-06-2	
Ethylbenzene	76.7	ug/L	25.0	5.5	5		01/22/09 08:55	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	25.0	10.0	5		01/22/09 08:55	1634-04-4	
Naphthalene	182	ug/L	25.0	14.5	5		01/22/09 08:55	91-20-3	
Toluene	152	ug/L	25.0	9.0	5		01/22/09 08:55	108-88-3	
Xylene (Total)	1310	ug/L	50.0	13.5	5		01/22/09 08:55	1330-20-7	
m&p-Xylene	934	ug/L	50.0	13.5	5		01/22/09 08:55	1330-20-7	
o-Xylene	380	ug/L	25.0	8.5	5		01/22/09 08:55	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		5		01/22/09 08:55	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		5		01/22/09 08:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		5		01/22/09 08:55	17060-07-0	
Toluene-d8 (S)	98	%	70-120		5		01/22/09 08:55	2037-26-5	

### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK TERMINAL  
Pace Project No.: 9236268

Sample: CREEK									
Lab ID: 9236268002 Collected: 01/15/09 15:20 Received: 01/16/09 15:35 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	ND ug/L		5.0	1.2	1		01/22/09 05:28	71-43-2	
1,2-Dichloroethane	ND ug/L		5.0	1.3	1		01/22/09 05:28	107-06-2	
Ethylbenzene	ND ug/L		5.0	1.1	1		01/22/09 05:28	100-41-4	
Methyl-tert-butyl ether	ND ug/L		5.0	2.0	1		01/22/09 05:28	1634-04-4	
Naphthalene	ND ug/L		5.0	2.9	1		01/22/09 05:28	91-20-3	
Toluene	ND ug/L		5.0	1.8	1		01/22/09 05:28	108-88-3	
Xylene (Total)	ND ug/L		10.0	2.7	1		01/22/09 05:28	1330-20-7	
m&p-Xylene	ND ug/L		10.0	2.7	1		01/22/09 05:28	1330-20-7	
o-Xylene	ND ug/L		5.0	1.7	1		01/22/09 05:28	95-47-6	
4-Bromofluorobenzene (S)	92 %		87-109		1		01/22/09 05:28	460-00-4	
Dibromofluoromethane (S)	102 %		85-115		1		01/22/09 05:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	106 %		79-120		1		01/22/09 05:28	17060-07-0	
Toluene-d8 (S)	101 %		70-120		1		01/22/09 05:28	2037-26-5	

### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK TERMINAL  
Pace Project No.: 9236268

QC Batch: MSV/5907 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 9236268002

METHOD BLANK: 225630 Matrix: Water  
Associated Lab Samples: 9236268002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	01/22/09 01:11	
Benzene	ug/L	ND	5.0	01/22/09 01:11	
Ethylbenzene	ug/L	ND	5.0	01/22/09 01:11	
m&p-Xylene	ug/L	ND	10.0	01/22/09 01:11	
Methyl-tert-butyl ether	ug/L	ND	5.0	01/22/09 01:11	
Naphthalene	ug/L	ND	5.0	01/22/09 01:11	
o-Xylene	ug/L	ND	5.0	01/22/09 01:11	
Toluene	ug/L	ND	5.0	01/22/09 01:11	
Xylene (Total)	ug/L	ND	10.0	01/22/09 01:11	
1,2-Dichloroethane-d4 (S)	%	103	79-120	01/22/09 01:11	
4-Bromofluorobenzene (S)	%	92	87-109	01/22/09 01:11	
Dibromofluoromethane (S)	%	101	85-115	01/22/09 01:11	
Toluene-d8 (S)	%	102	70-120	01/22/09 01:11	

LABORATORY CONTROL SAMPLE: 225631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.4	105	72-126	
Benzene	ug/L	50	51.6	103	78-128	
Ethylbenzene	ug/L	50	48.4	97	80-127	
m&p-Xylene	ug/L	100	96.4	96	82-127	
Methyl-tert-butyl ether	ug/L	50	53.0	106	71-130	
Naphthalene	ug/L	50	53.2	106	52-136	
o-Xylene	ug/L	50	46.5	93	83-124	
Toluene	ug/L	50	51.5	103	76-126	
Xylene (Total)	ug/L	150	143	95	83-125	
1,2-Dichloroethane-d4 (S)	%			100	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			100	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 225632 225633

Parameter	Units	9236276006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Benzene	ug/L	ND	50	50	49.7	49.5	99	99	74-136	.3	30	
Toluene	ug/L	ND	50	50	48.1	48.4	96	97	73-131	.5	30	
1,2-Dichloroethane-d4 (S)	%						101	103	79-120			
4-Bromofluorobenzene (S)	%						92	93	87-109			
Dibromofluoromethane (S)	%						99	99	85-115			

Date: 01/23/2009 05:48 PM

### REPORT OF LABORATORY ANALYSIS

Page 7 of 10

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK TERMINAL  
Pace Project No.: 9236268

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		225632			225633								
Parameter	Units	9236276006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual	
Toluene-d8 (S)	%						99	98	70-120				

### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK TERMINAL  
Pace Project No.: 9236268

QC Batch: MSV/5908 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 9236268001

METHOD BLANK: 225634 Matrix: Water  
Associated Lab Samples: 9236268001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	01/22/09 01:30	
Benzene	ug/L	ND	5.0	01/22/09 01:30	
Ethylbenzene	ug/L	ND	5.0	01/22/09 01:30	
m&p-Xylene	ug/L	ND	10.0	01/22/09 01:30	
Methyl-tert-butyl ether	ug/L	ND	5.0	01/22/09 01:30	
Naphthalene	ug/L	ND	5.0	01/22/09 01:30	
o-Xylene	ug/L	ND	5.0	01/22/09 01:30	
Toluene	ug/L	ND	5.0	01/22/09 01:30	
Xylene (Total)	ug/L	ND	10.0	01/22/09 01:30	
1,2-Dichloroethane-d4 (S)	%	104	79-120	01/22/09 01:30	
4-Bromofluorobenzene (S)	%	95	87-109	01/22/09 01:30	
Dibromofluoromethane (S)	%	100	85-115	01/22/09 01:30	
Toluene-d8 (S)	%	100	70-120	01/22/09 01:30	

LABORATORY CONTROL SAMPLE: 225635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.6	107	72-126	
Benzene	ug/L	50	52.9	106	78-128	
Ethylbenzene	ug/L	50	48.8	98	80-127	
m&p-Xylene	ug/L	100	97.9	98	82-127	
Methyl-tert-butyl ether	ug/L	50	54.0	108	71-130	
Naphthalene	ug/L	50	54.7	109	52-136	
o-Xylene	ug/L	50	46.6	93	83-124	
Toluene	ug/L	50	52.7	105	76-126	
Xylene (Total)	ug/L	150	144	96	83-125	
1,2-Dichloroethane-d4 (S)	%			100	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			100	85-115	
Toluene-d8 (S)	%			101	70-120	



## QUALIFIERS

Project: INTERSTATE TRUCK TERMINAL  
Pace Project No.: 9236268

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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



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

**Section A**

Required Client Information:

**Section B**

Required Project Information:

**Section C**

Invoice Information:

Page: **1021126** of \_\_\_\_\_

Company: **SCHEC/JUST PROGRESS**  
Address: **8100 BULL ST., COLA, SC 29201**  
Email To: **M. JOHNSON**  
Purchase Order No.: **729210**

REGULATORY AGENCY:  
 NPDES  GROUND WATER  DRINKING WATER  
 JUST  RCRA  Other \_\_\_\_\_  
 SITE LOCATION:  
 GA  IL  IN  MI  MN  NC  
 OH  SC  WI  OTHER \_\_\_\_\_

Phone: **803-596-6240** Fax: \_\_\_\_\_  
Requested Due Date/TAT: **STAT**

Project Name: **INTERSTATE TRUCK TERMINAL**  
Project Number: **#00332** Pace Profile #: **842-7**

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE	SAMPLE TYPE G-GRAB C-COMP	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Filtered (Y/N)	Residual Chlorine (Y/N)		
					DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl			NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
1	MW-16							3										
2	LABEIK		WT 6		11/5/01	15:30	15:20	3	X	X	X	X	X					
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
<i>Minda Johnson</i>	11/5/01	10:45	<i>Ag Amyl Pur</i>	11/5/01	10:45	Y/N
<i>Ag Amyl Pur</i>	11/5/01	15:30	<i>Ag Amyl Pur</i>	11/5/01	15:30	Y/N

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

SAMPLER NAME AND SIGNATURE:  
 PRINT Name of SAMPLER: *Minda Johnson*  
 SIGNATURE of SAMPLER: *M. Johnson*

DATE signed (MM/DD/YY)

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N

00332  
4tegr

**Domenico Model**

UST # 00332  
Site Name: Interstate Truck Stop  
Modeler: Justin Koon  
Date: 9/28/2009

**Groundwater Flow Parameters**

K	146	ft/yr
dh/dx	0.018	
θ	0.25	dec. %
v <sub>x</sub>	274	ft/yr

**Transport Parameters**

x <sub>max</sub>	90	ft
y <sub>max</sub>	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	450	ft
α <sub>x</sub>	17.03202	ft
α <sub>y</sub>	1.703202	ft
α <sub>z</sub>	1.00E-99	ft

**Simulation Time**

t<sub>sim</sub> 50 yrs

**Aquifer Characteristics**

ρ <sub>d</sub>	1.7	kg/L
f <sub>oc</sub>	0.0002	

Modeled: MW2 to MW6 using 9/6/2006 data

**Retarded Velocity**

(ft/yr)

CoC	R	VR
Benzene	1.110	246.81
Toluene	1.181	232.03
Ethylbenzene	1.239	221.08
Xylenes	1.869	146.60
Naphthalene	3.098	88.43
MtBE	1.015	269.96
EDB	1.038	263.95
1,2-DCA	1.024	267.63

**Source Area CoC Data**

CoC	C <sub>source</sub> (mg/L)	K <sub>oc</sub> (L/kg)
Benzene	81	81
Toluene	133	133
Ethylbenzene	176	176
Xylenes	639	639
Naphthalene	1543	1543
MtBE	11	11
EDB	28	28
1,2-DCA	17.5	17.5

**Simulation Points for Breakthrough Curves**

MW6	x	y	z
90	ft	ft	ft
0	ft	ft	ft
0	ft	ft	ft

$$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x t}}\right] \operatorname{erf}\left[\frac{y + \frac{y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{y}{2}}{2\sqrt{\alpha_y x}}\right] \left\{\operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right]\right\}$$

**Ethylbenzene Calibration**

**Spatial Calibration Data**  
(centerline)

x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	2.2	2.2
9	2.042	2.042
18	1.815	1.815
27	1.585	1.585
36	1.384	1.384
45	1.215	1.215
54	1.072	1.072
63	0.951	0.951
72	0.848	0.848
81	0.758	0.758
90	0.68	0.68

**Temporal Calibration Data**  
MW6

t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	0	0	0	0
5	0.681	0.681	2.200	2.200
10	0.681	0.681	2.200	2.200
15	0.681	0.681	2.200	2.200
20	0.681	0.681	2.200	2.200
25	0.681	0.681	2.200	2.200
30	0.681	0.681	2.200	2.200
35	0.681	0.681	2.200	2.200
40	0.681	0.681	2.200	2.200
45	0.681	0.681	2.200	2.200
50	0.681	0.681	2.200	2.200

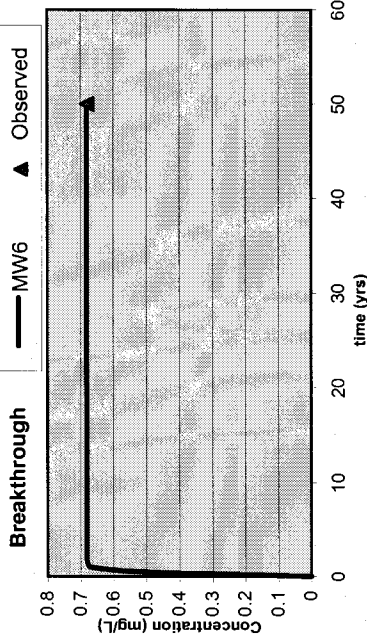
Site ID 00332

Site Name Interstate Truck Stop

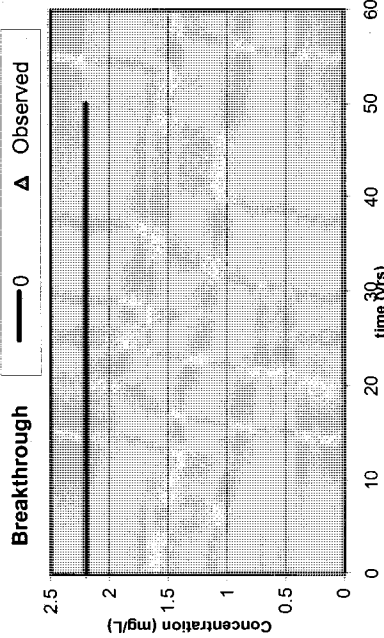
**Model Calibration Parameters**

t <sub>1/2</sub>	0.37	yrs
v <sub>x</sub>	274	ft/yr
R	1.239	
v <sub>R</sub>	221.082	ft/yr
L <sub>p</sub>	450	ft
α <sub>x</sub>	17.032021	ft
α <sub>y</sub>	1.7032021	ft
α <sub>z</sub>	1E-99	ft
λ	1.87297	yr <sup>-1</sup>
C <sub>source</sub>	2.2	mg/L
t <sub>sim</sub>	50	yrs

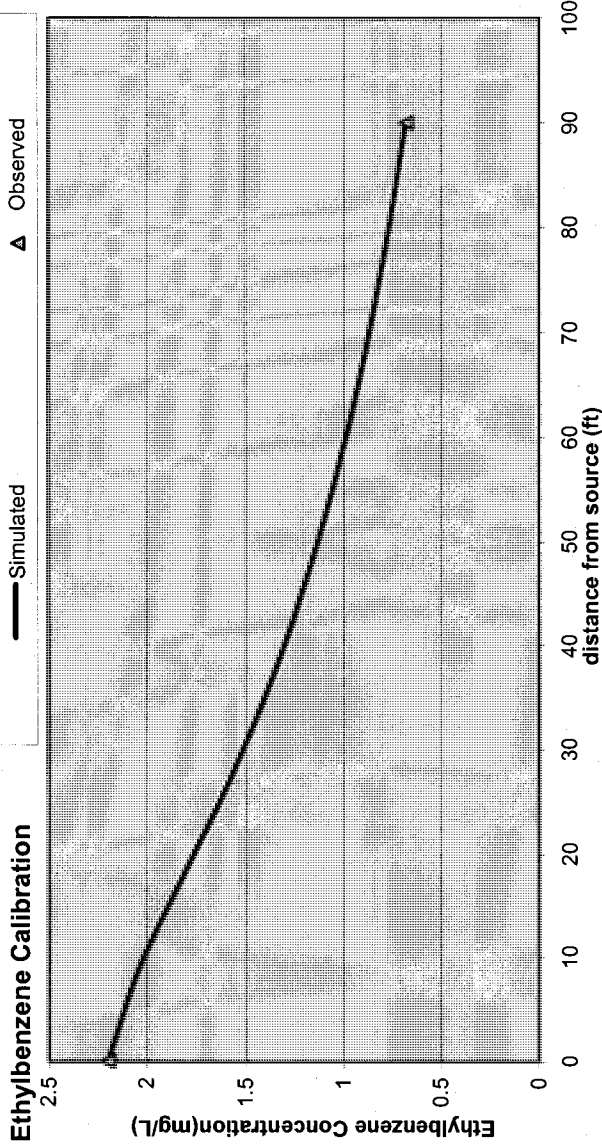
**Breakthrough**



**Breakthrough**



**Ethylbenzene Calibration**



Source	9	18	27	36	45	54	63	72	81	90
0	2.04232441	1.81529874	1.58459309	1.38403854	1.2149226	1.0723821	0.951396	0.847837	0.758474	0.680801
0	2.04232441	1.81529874	1.58459309	1.38403854	1.2149226	1.0723821	0.951396	0.847837	0.758474	0.680801
0	2.04232441	1.81529874	1.58459309	1.38403854	1.2149226	1.0723821	0.951396	0.847837	0.758474	0.680801
0	2.04232441	1.81529874	1.58459309	1.38403854	1.2149226	1.0723821	0.951396	0.847837	0.758474	0.680801
0	2.04232441	1.81529874	1.58459309	1.38403854	1.2149226	1.0723821	0.951396	0.847837	0.758474	0.680801

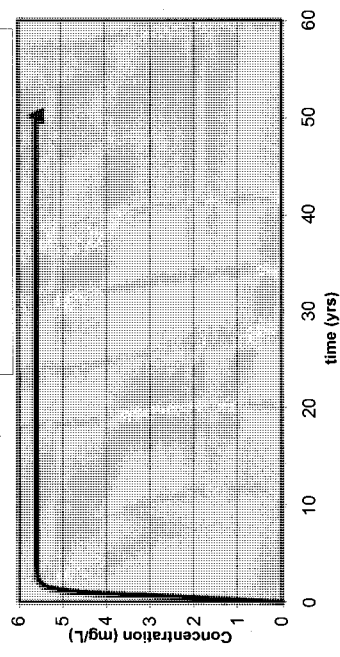
**Xylenes Calibration**

Spatial Calibration Data (centerline)			Temporal Calibration Data MW6			Site ID 00332		Site Name Interstate Truck Stop	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)		
0	11	11	0	0	0	0	11		
9	10.732	10.732	5	5.596	5.596	11.000	11.000		
18	10.025	10.025	10	5.596	5.596	11.000	11.000		
27	9.197	9.197	15	5.596	5.596	11.000	11.000		
36	8.442	8.442	20	5.596	5.596	11.000	11.000		
45	7.789	7.789	25	5.596	5.596	11.000	11.000		
54	7.225	7.225	30	5.596	5.596	11.000	11.000		
63	6.737	6.737	35	5.596	5.596	11.000	11.000		
72	6.309	6.309	40	5.596	5.596	11.000	11.000		
81	5.932	5.932	45	5.596	5.596	11.000	11.000		
90	5.6	5.596	50	5.6	5.596	11.000	11.000		

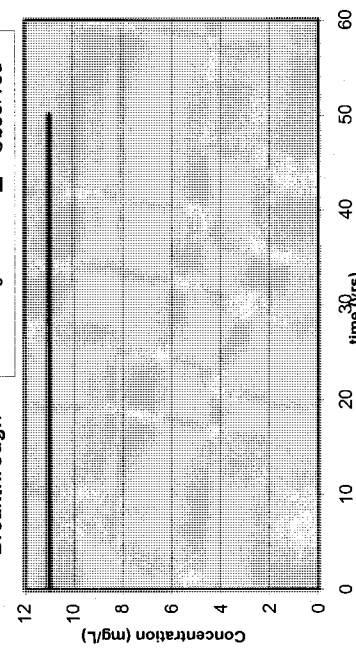
**Model Calibration Parameters**

t <sub>1/2</sub>	2.3	λ	0.3013 yr <sup>-1</sup>
V <sub>k</sub>	274		
R	1.869		
V <sub>R</sub>	146.599	C <sub>source</sub>	11 mg/L
L <sub>p</sub>	450		
α <sub>x</sub>	17.032021	t <sub>sim</sub>	50 yrs
α <sub>y</sub>	1.7032021		
α <sub>z</sub>	1E-99		

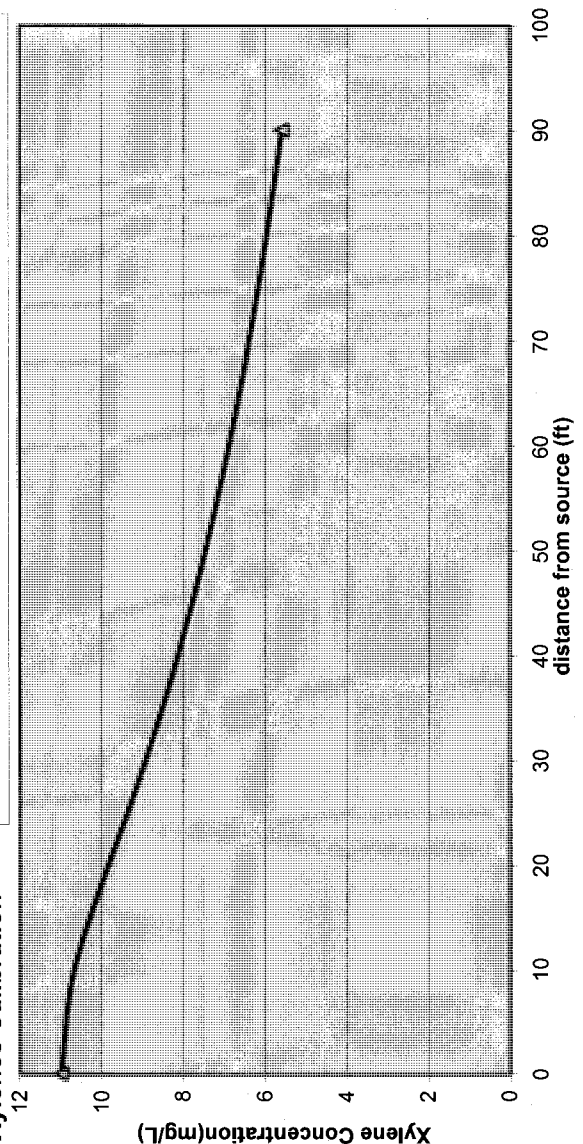
**Breakthrough**



**Breakthrough**



**Xylenes Calibration**



Source	9	18	27	36	45	54	63	72	81	90
0	10.7320393	10.0252025	9.19708771	8.44244572	7.78854309	7.225114	6.73665	6.309316	5.931963	5.595846
0	10.7320393	10.0252025	9.19708771	8.44244572	7.78854309	7.225114	6.73665	6.309316	5.931963	5.595846
0	10.7320393	10.0252025	9.19708771	8.44244572	7.78854309	7.225114	6.73665	6.309316	5.931963	5.595846
0	10.7320393	10.0252025	9.19708771	8.44244572	7.78854309	7.225114	6.73665	6.309316	5.931963	5.595846
0	10.7320393	10.0252025	9.19708771	8.44244572	7.78854309	7.225114	6.73665	6.309316	5.931963	5.595846

UST Permit # 00332

Site Name: Interstate Truck Stop

t 1000 yrs

SSTLs

SSTLs in mg/L		RBSLs (mg/L):			0.700		10.000	
MW #	x (ft)	y (ft)	z (ft)	Ethylbenzene SSTL	Xylenes SSTL			
MW1	205	0	0	7.597	34.979			
MW2	212	0	0	8.129	36.009			
MW3	195	0	0	6.891	33.532			
MW4R	250	0	0	11.654	41.852			
MW5	102	0	0	2.601	21.153			
MW6	185	0	0	6.245	32.112			
MW9	200	0	0	7.236	34.252			
MW14	220	0	0	8.777	37.202			
MW16	315	0	0	21.128	52.991			
MW19	295	0	0	17.635	49.396			
				$\lambda$ (yr <sup>-1</sup> ):				
				R:		1.873	0.301	
				Pure Substance Solubility:		1.239	1.869	
				Effective Solubility:		169	175	
						3.7	21.68	

Receptor is WSW-1 until it is properly abandoned

**Domenico Model**

UST # 00332

Site Name: Interstate Truck Stop

Modeler: Justin Koon

Date: 9/28/2009

**Groundwater Flow Parameters**

K	146	ft/yr
dh/dx	0.018	
θ	0.25	dec. %
v <sub>x</sub>	274	ft/yr

**Transport Parameters**

X <sub>max</sub>	145	ft
Y <sub>max</sub>	0	ft
Z	0	ft
Source Width	30	ft
Source Thickness	15	ft

Plume Length	450	ft
α <sub>x</sub>	17.03202	ft
α <sub>y</sub>	1.703202	ft
α <sub>z</sub>	1.00E-99	ft

**Simulation Time**

t <sub>sim</sub>	50	yrs
------------------	----	-----

**Aquifer Characteristics**

ρ <sub>d</sub>	1.7	kg/L
f <sub>oc</sub>	0.0002	

Modeled: MW9 to MW16 using 12/10/2008 data

**Retarded Velocity (ft/yr)**

**Source Area CoC Data**

CoC	C <sub>source</sub> (mg/L)	K <sub>oc</sub> (L/kg)	CoC	R	V <sub>R</sub>
Benzene		81	Benzene	1.110	246.81
Toluene	1.54	133	Toluene	1.181	232.03
Ethylbenzene		176	Ethylbenzene	1.239	221.08
Xylenes		639	Xylenes	1.869	146.60
Naphthalene		1543	Naphthalene	3.098	88.43
MtBE		11	MtBE	1.015	269.96
EDB		28	EDB	1.038	263.95
1,2-DCA		17.5	1,2-DCA	1.024	267.63

**Simulation Points for Breakthrough Curves**

	MW16	
x	145	ft
y	0	ft
z	0	ft

$$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right]$$

$$\left\{ \operatorname{erf}\left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] \right\} \left\{ \operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right] \right\}$$

**Toluene Calibration**

**Spatial Calibration Data**  
(centerline)

x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	1.54	1.54
14.5	1.357	1.357
29	1.111	1.111
43.5	0.911	0.911
58	0.758	0.758
72.5	0.639	0.639
87	0.543	0.543
101.5	0.466	0.466
116	0.402	0.402
130.5	0.349	0.349
145	0.303	0.303

**Temporal Calibration Data**  
MW16

t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0		0	0	1.54
5		0.304	0.304	1.540
10		0.304	0.304	1.540
15		0.304	0.304	1.540
20		0.304	0.304	1.540
25		0.304	0.304	1.540
30		0.304	0.304	1.540
35		0.304	0.304	1.540
40		0.304	0.304	1.540
45		0.304	0.304	1.540
50	0.303	0.304	0.304	1.540

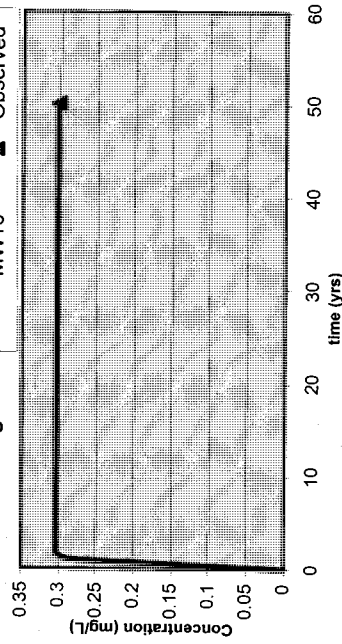
Site ID 00332

Site Name Interstate Truck Stop

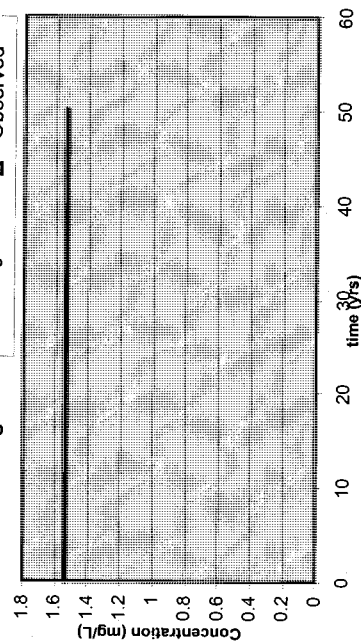
**Model Calibration Parameters**

t <sub>1/2</sub>	0.42 yrs	λ	1.65 yr <sup>-1</sup>
v <sub>x</sub>	274 ft/yr	C <sub>source</sub>	1.54 mg/L
R	1.181	t <sub>sim</sub>	50 yrs
v <sub>R</sub>	232.030 ft/yr		
L <sub>p</sub>	450 ft		
α <sub>x</sub>	17.032021 ft		
α <sub>y</sub>	1.7032021 ft		
α <sub>z</sub>	1E-99 ft		

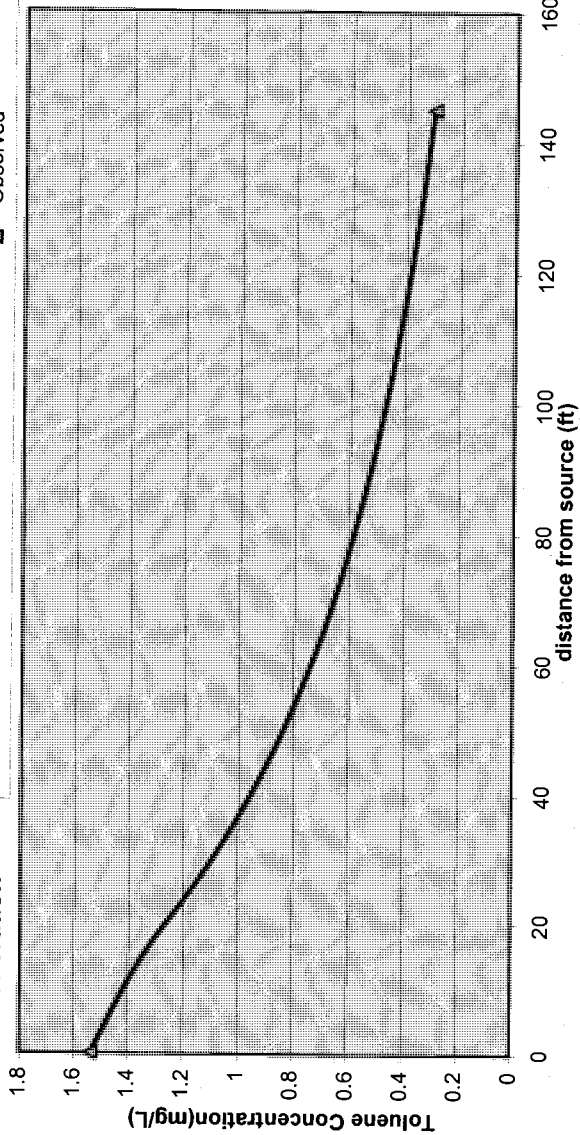
**Breakthrough**



**Breakthrough**



**Toluene Calibration**



Source	14.5	29	43.5	58	72.5	87	101.5	116	130.5	145
0	1.35724152	1.11088936	0.91136073	0.75821121	0.63872373	0.5434608	0.466081	0.402269	0.349002	0.304096
0	1.35724152	1.11088936	0.91136073	0.75821121	0.63872373	0.5434608	0.466081	0.402269	0.349002	0.304096
0	1.35724152	1.11088936	0.91136073	0.75821121	0.63872373	0.5434608	0.466081	0.402269	0.349002	0.304096
0	1.35724152	1.11088936	0.91136073	0.75821121	0.63872373	0.5434608	0.466081	0.402269	0.349002	0.304096
0	1.35724152	1.11088936	0.91136073	0.75821121	0.63872373	0.5434608	0.466081	0.402269	0.349002	0.304096



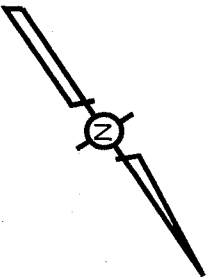
UST Permit # 00332  
 Site Name: Interstate Truck Stop

t 1000 yrs

SSTLs

SSTLs in mg/L		RBSLs (mg/L):				1,000	
MW #	x (ft)	y (ft)	z (ft)	Toluene SSTL			
MW1	205	0	0	8.662			
MW2	212	0	0	9.197			
MW3	195	0	0	7.944			
MW4R	250	0	0	12.646			
MW5	102	0	0	3.321			
MW6	185	0	0	7.278			
MW9	200	0	0	8.296			
MW14	220	0	0	9.844			
MW16	315	0	0	21.345			
MW19	295	0	0	18.212			
				$\lambda$ (yr <sup>-1</sup> ):	1.650		
				R:	1.181		
				Pure Substance Solubility:	526		
				Effective Solubility:	26.54		

Receptor is WSW-1 until it is properly abandoned



MW-11 WOODDED  
MW-12  
MW-13  
DW-4  
MW-20 WOODDED

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

MW-19

MW-4R

DW-1

MW-2

*ETHYL & XYL  
MODEL LINE*

MW-6

MW-14

DW-3

MW-15

ASPHALT/CONCRETE

MW-18

MW-1

MW-3

INTERSTATE TRUCK

CONCRETE

MW-5R

DW-6

MW-10

DW-2

MW-8

WSW-2 (APPROX. 185)

GRASS

MW-7

DW-5

WSW-1

*Top  
Tol, Ethyl, and Xyl MODEL  
RECEPTOR  
UNTIL  
ABANDONED*

*MODEL LINE: MW2-MW6*

*Dist.: 90'*

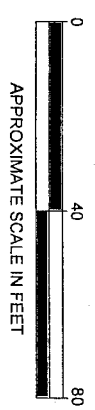
*MODEL LINE (TOL)  
SC-S-3-190*

MW-17

MW-16

**LEGEND**

- MW-7 SHALLOW MONITORING WELL
- DW-2 DEEP MONITORING WELL
- WSW-1 WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND



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 Environmental Consulting and Engineering  
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DRAWN: MAC	DATE: 12/29/08
SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 2  
SITE PLAN MAP

CAD FILE = C-05-05-032.dwg.

**Domenico Model**

UST # 00332

Site Name: Interstate Truck Stop

Modeler: Justin Koon

Date: 9/28/2009

**Groundwater Flow Parameters**

K	146	ft/yr
dh/dx	0.018	
θ	0.25	dec. %
V <sub>x</sub>	274	ft/yr

**Transport Parameters**

X <sub>max</sub>	105	ft
Y <sub>max</sub>	12	ft
Z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	450	ft
α <sub>x</sub>	17.03202	ft
α <sub>y</sub>	1.703202	ft
α <sub>z</sub>	1.00E-99	ft

**Simulation Time**

t<sub>sim</sub> 50 yrs

**Aquifer Characteristics**

ρ <sub>d</sub>	1.7	kg/L
f <sub>oc</sub>	0.0002	

Modeled: MW6 to MW14 using 12/10/2008 data

**Retarded Velocity (ft/yr)**

**Simulation Points for Breakthrough Curves**

**Source Area CoC Data**

CoC	C <sub>source</sub> (mg/L)	K <sub>oc</sub> (L/kg)	CoC	R	V <sub>R</sub>
Benzene	0.17	81	Benzene	1.110	246.81
Toluene		133	Toluene	1.181	232.03
Ethylbenzene		176	Ethylbenzene	1.239	221.08
Xylenes		639	Xylenes	1.869	146.60
Naphthalene	0.414	1543	Naphthalene	3.098	88.43
MtBE		11	MtBE	1.015	269.96
EDB		28	EDB	1.038	263.95
1,2-DCA		17.5	1,2-DCA	1.024	267.63

MW14	
x	105
y	12
z	0

$$C(x, y, z, t) = \left( \frac{C_0}{8} \right) \exp \left[ \left( \frac{x}{2\alpha_x} \right) \left( 1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}} \right) \operatorname{erfc} \left[ \frac{x - vt \sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}} \right] \right] \operatorname{erf} \left[ \frac{y + \frac{y}{2}}{2\sqrt{\alpha_y x}} \right] - \operatorname{erf} \left[ \frac{y - \frac{y}{2}}{2\sqrt{\alpha_y x}} \right] \left\{ \operatorname{erf} \left[ \frac{z + Z}{2\sqrt{\alpha_z x}} \right] - \operatorname{erf} \left[ \frac{z - Z}{2\sqrt{\alpha_z x}} \right] \right\}$$

**Benzene Calibration**

**Spatial Calibration Data**

x (centerline)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	0.17	0.17
10.5	0.151	0.126
21	0.105	0.087
31.5	0.087	0.073
42	0.061	0.052
52.5	0.052	0.044
63	0.044	0.038
73.5	0.038	0.033
84	0.028	0.028
94.5	0.028	0.028
105	0.028	0.028

**Temporal Calibration Data**

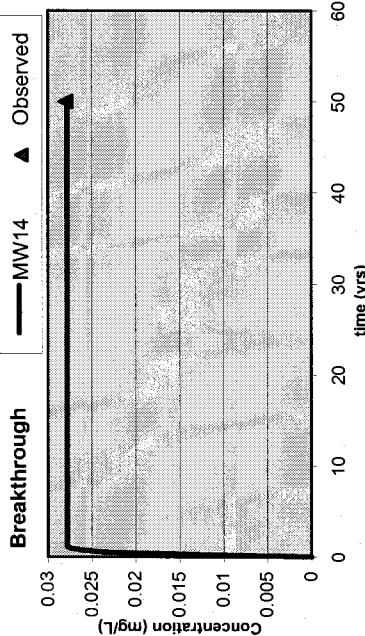
t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	0	0
5	0.028	0.170
10	0.028	0.170
15	0.028	0.170
20	0.028	0.170
25	0.028	0.170
30	0.028	0.170
35	0.028	0.170
40	0.028	0.170
45	0.028	0.170
50	0.028	0.170

Site ID 00332  
Site Name Interstate Truck Stop

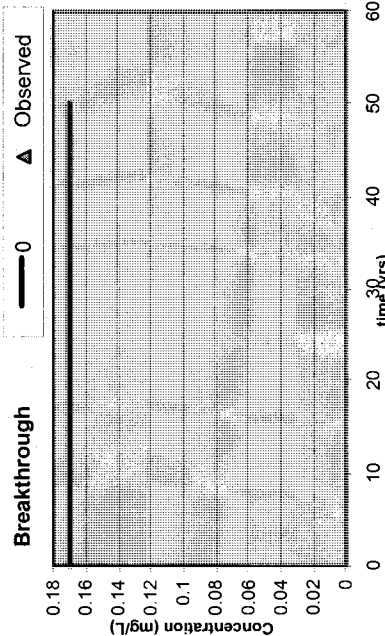
**Model Calibration Parameters**

t <sub>1/2</sub>	0.23 yrs
v <sub>x</sub>	274 ft/yr
R	1.110
v <sub>R</sub>	246.811 ft/yr
L <sub>p</sub>	450 ft
α <sub>x</sub>	17.032021 ft
α <sub>y</sub>	1.7032021 ft
α <sub>z</sub>	1E-99 ft
λ	3.01304 yr <sup>-1</sup>
C <sub>source</sub>	0.17 mg/L
t <sub>sim</sub>	50 yrs

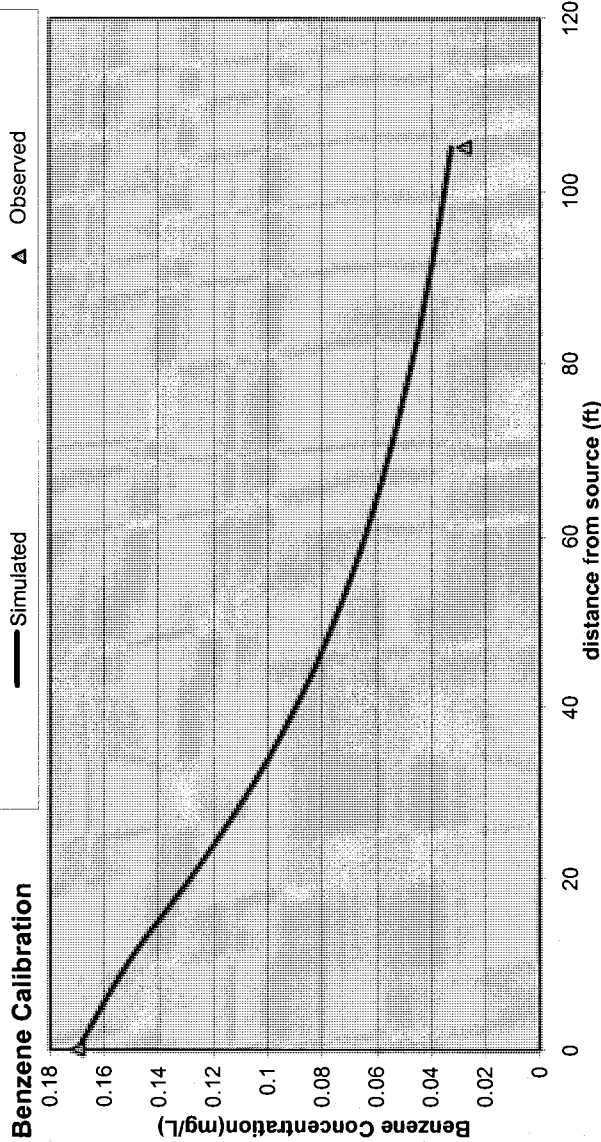
**Breakthrough**



**Breakthrough**



**Benzene Calibration**



Source	10.5	21	31.5	42	52.5	63	73.5	84	94.5	105
12	0.10550304	0.08721163	0.074714	0.06454587	0.05591012	0.0485006	0.042126	0.036636	0.031902	0.027815
6	0.14233107	0.11619012	0.09639677	0.08076504	0.06817173	0.0578902	0.049407	0.042346	0.036425	0.031429
0	0.15060382	0.12630897	0.10451161	0.08688347	0.0727705	0.0613813	0.05209	0.044433	0.038066	0.032733
6	0.14233107	0.11619012	0.09639677	0.08076504	0.06817173	0.0578902	0.049407	0.042346	0.036425	0.031429
12	0.10550304	0.08721163	0.074714	0.06454587	0.05591012	0.0485006	0.042126	0.036636	0.031902	0.027815

**Naphthalene Calibration**

**Spatial Calibration Data**  
(centerline)

x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	0.414	0.414
10.5	0.401	0.368
21	0.368	0.333
31.5	0.333	0.302
42	0.302	0.277
52.5	0.277	0.255
63	0.255	0.237
73.5	0.237	0.221
84	0.221	0.207
94.5	0.207	0.194
105	0.194	0.167

**Temporal Calibration Data**  
MW14

t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	0	0
5	0.165	0.165
10	0.165	0.165
15	0.165	0.165
20	0.165	0.165
25	0.165	0.165
30	0.165	0.165
35	0.165	0.165
40	0.165	0.165
45	0.165	0.165
50	0.165	0.165

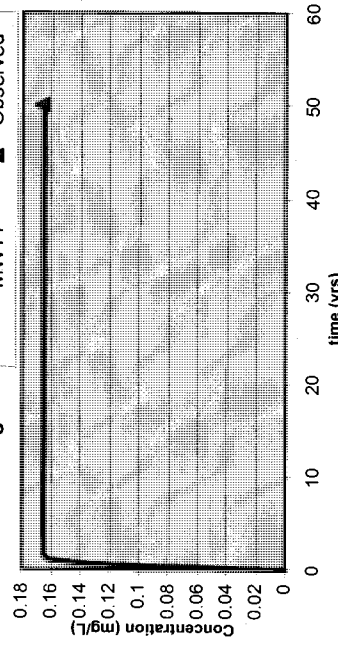
**Site ID** 00332

**Site Name** Interstate Truck Stop

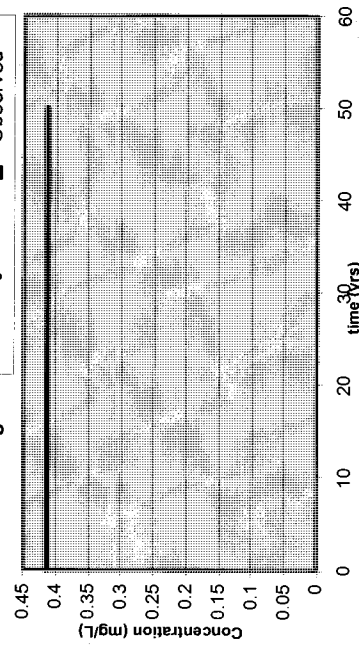
**Model Calibration Parameters**

t <sub>1/2</sub>	1.3 yrs
V <sub>s</sub>	274 ft/yr
R	1.000
V <sub>R</sub>	274.000 ft/yr
L <sub>p</sub>	450 ft
α <sub>x</sub>	17.032021 ft
α <sub>y</sub>	1.7032021 ft
α <sub>z</sub>	1E-99 ft
C <sub>source</sub>	0.414 mg/L
t <sub>sim</sub>	50 yrs
λ	0.53308 yr <sup>-1</sup>

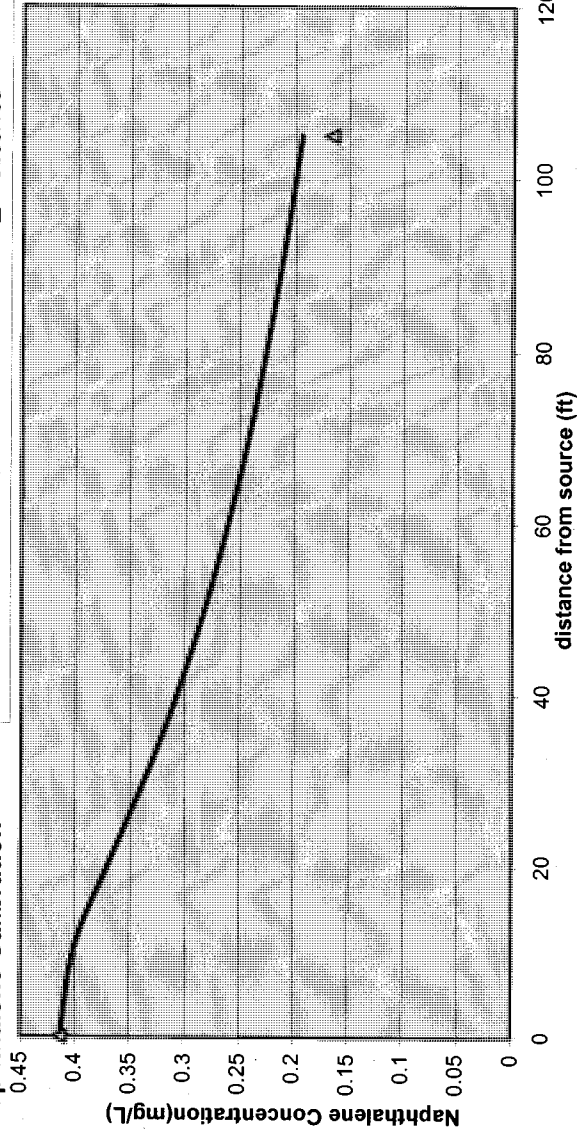
**Breakthrough** — MW14 ▲ Observed



**Breakthrough** — 0 ▲ Observed



**Naphthalene Calibration**



Source	10.5	21	31.5	42	52.5	63	73.5	84	94.5	105
12	0.28088592	0.25383586	0.23773555	0.22452992	0.21262275	0.20164416	0.19147	0.182043	0.1733	0.165183
6	0.378935	0.33817988	0.30672886	0.28095008	0.2592529	0.2406791	0.224561	0.210411	0.197865	0.186644
0	0.40095995	0.36763155	0.33254981	0.30223372	0.27674175	0.255193	0.236757	0.220784	0.206783	0.194387
6	0.378935	0.33817988	0.30672886	0.28095008	0.2592529	0.2406791	0.224561	0.210411	0.197865	0.186644
12	0.28088592	0.25383586	0.23773555	0.22452992	0.21262275	0.20164416	0.19147	0.182043	0.1733	0.165183

UST Permit # 00332  
 Site Name: Interstate Truck Stop

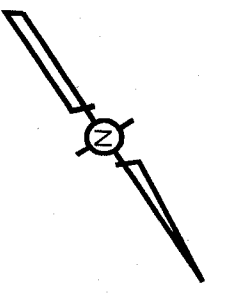
t 1000 yrs

SSTLs

MW #	SSTLs in mg/L			RBSLs (mg/L):			0.005			0.025			
	x (ft)	y (ft)	z (ft)	Benzene SSTL						Naphthalene SSTL			
MW1	205	0	0	0.098						0.086			
MW2	212	0	0	0.107						0.088			
MW3	195	0	0	0.086						0.082			
MW4R	250	0	0	0.170						0.102			
MW5	102	0	0	0.025						0.052			
MW6	185	0	0	0.076						0.079			
MW9	200	0	0	0.092						0.084			
MW14	220	0	0	0.118						0.091			
MW16	315	0	0	0.372						0.128			
MW19	295	0	0	0.293						0.120			
				$\lambda$ (yr <sup>-1</sup> ):									
				R:									
				Pure Substance Solubility:									
				Effective Solubility:									
					3.013						0.533		
					1.110						1.000		
					1750						31		
					44.39						6.7		

Receptor is tributary of Franklin Creek, approximately 700' away.

Receptor is USW1 until properly abandoned.



- MW-11
- WOODED
- MW-12
- MW-13
- DW-4
- MW-20
- WOODED

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

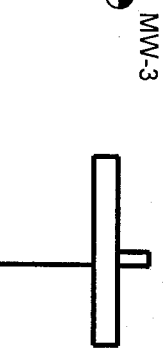
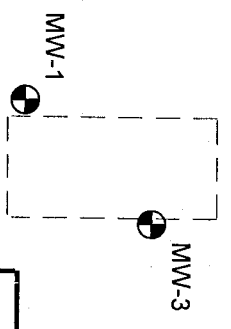
- MW-19
- MW-4R
- DW-1
- MW-2

- MW-6
- MW-14
- DW-3

MODEL LINE

ASPHALT/CONCRETE

- MW-18



INTERSTATE TRUCK

CONCRETE

- MW-5R
- DW-6

- MW-9

SC-S-3-190

- MW-16

- MW-10
- DW-2

WSSW-2 (APPROX. 185')

GRASS

- MW-7
- DW-5

WSSW-1  
(INACTIVE)  
RECEPTOR  
UNTIL  
ABANDONED

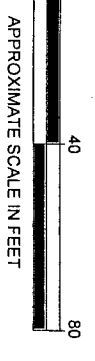
- MW-17

- MW-15

**LEGEND**

- MW-7 SHALLOW MONITORING WELL
- DW-2 DEEP MONITORING WELL
- WSSW-1 WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND

Ben : Naph MODEL  
MODEL LINE: MW-6-MW-14  
Dist : X-105  
Y-112



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Environmental Consulting and Engineering © 1999

DRAWN: MAC	DATE: 12/29/08
SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 2  
SITE PLAN MAP

CAD FILE = C-05-05-032.dwg



C. Earl Hunter, Commissioner

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

NOV 06 2009

**WILLIAM MYRICK  
PO BOX 555  
ALLENDALE SC 29810**

Re: **Abandonment of Water Supply Well**  
Interstate Truck Terminal Inc: Hwy 301 and SC 3-190, Ulmer, SC  
UST Permit #00332  
Monitoring Report received January 27, 2009  
Allendale County

Dear Mr. Myrick:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the report referenced above and developed a model using the Domenico Method. The model develops Site Specific Target Levels (SSTL) using site geology and the concentrations of the chemicals of concern (CoC). The on-site Water Supply Well (WSW-1 as dictated on the enclosed site map) is the nearest receptor, even though it is presently inactive. The UST Division would like to properly abandon WSW-1 in order to raise the SSTL. Raising the SSTL will make it easier for this site to obtain a conditional No-Further Action designation.

I need confirmation from Mr. Julius Moody that the Underground Storage Tank Management Division will be allowed to properly abandon the water supply well. Please respond to this letter by December 31, 2009.

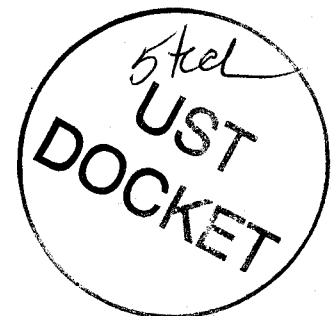
If you have any questions or comments regarding this correspondence, please contact me at (803) 896-6649 or by e-mail at [koonjt@dhec.sc.gov](mailto:koonjt@dhec.sc.gov).

Sincerely,

Justin Koon, Engineer Associate  
Corrective Action Section  
UST Management Division  
Bureau of Land and Waste Management

enc: Water Supply Well Form  
Site Map  
Information Sheet on MNA

cc: Technical File (w/enc)







South Carolina Department of Health and Environmental Control

UNDERGROUND STORAGE TANK DIVISION
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street
Columbia SC 29201

WATER SUPPLY WELL INFORMATION FORM

Name of Facility (if appropriate): Interstate Truck Terminal Inc.

Tax Map Parcel #: 131-00-00-014

Street Address: Intersection of US Hwy 301/321 and SC 3-190

City, State, ZIP: Ulmer, SC 29849

Phone number: (803) 245-4470

- 1. There is a water supply well located on the above listed property. Yes No
2. The water supply well is currently in use. Yes No
3. The water supply well is used as a source of drinking water. Yes No
4. The water supply well is used for irrigation. Yes No
5. Is electricity currently connected to the well? Yes No
6. The depth of the water supply well is \_\_\_\_\_ feet.
7. The diameter of the water supply well is \_\_\_\_\_ inches.
8. Please list any other important information about the water supply well of which the Department should be aware (e.g. well is located in fenced area, pets present, used for filling swimming pool, etc.).

8. I wish to voluntarily have the water supply well properly abandoned (sealed) by a S.C. certified well driller. I understand that this work will be performed at no cost to me. I grant access to SCDHEC and its contractor to conduct this abandonment. Yes No

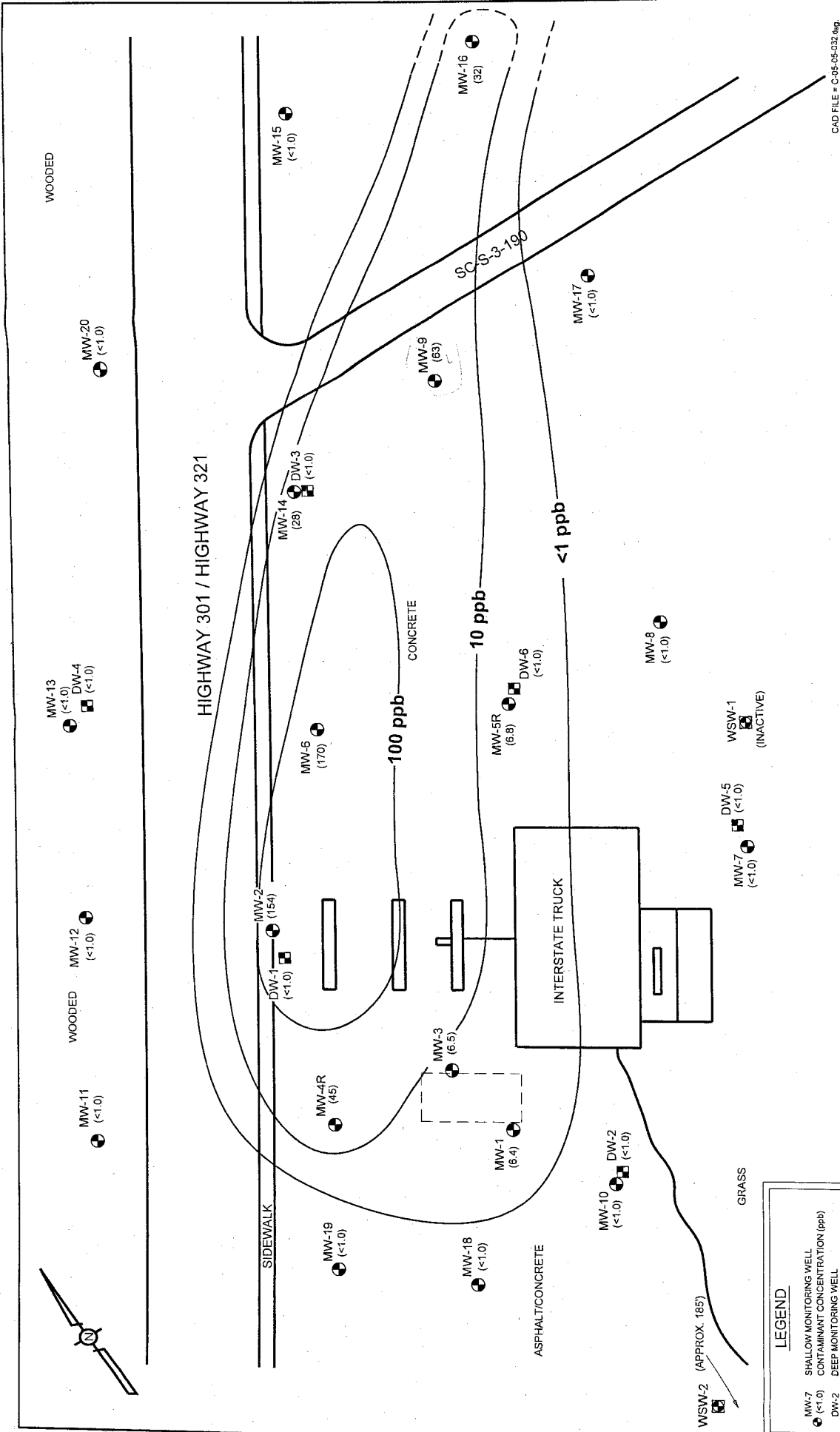
Signature: \_\_\_\_\_

Name (please print): \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_

Permit #: 00332

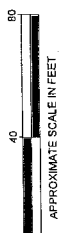


CAD FILE = C-05-05-032.dwg

**FIGURE 7  
DISSOLVED BENZENE  
ISOCONCENTRATION MAP  
(DECEMBER 10, 2008)**

DRAWN: MAC	DATE: 12/30/08
SITE ID # 0032	PROJECT: INTERSTATE TRUCK
PROJECT NO.: C-05-05-032	LOCATION: U.MER. SOUTH CAROLINA

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 and Engineering  
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 Delivering innovative solutions to today's environmental concerns



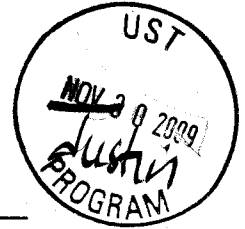
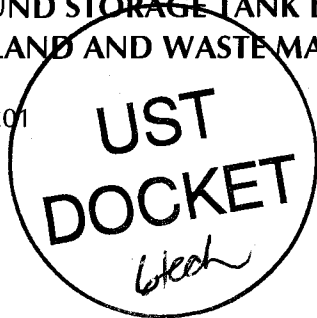
**LEGEND**

MW-7	SHALLOW MONITORING WELL
(<1.0)	CONTAMINANT CONCENTRATION (ppb)
DW-2	DEEP MONITORING WELL
(<1.0)	CONTAMINANT CONCENTRATION (ppb)
WSW-1	WATER SUPPLY WELL
[Symbol]	FORMER UST PIT
[Symbol]	DISPENSER ISLAND

WSW-2 (APPROX. 185)



UNDERGROUND STORAGE TANK DIVISION  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street  
Columbia SC 29201



**WATER SUPPLY WELL INFORMATION FORM**

Name of Facility (if appropriate) : Interstate Truck Terminal Inc.

Tax Map Parcel # : 131-00-00-014

Street Address : Intersection of US Hwy 301/321 and SC 3-190

City, State, ZIP : Ulmer, SC 29849

Phone number: (803) 245-4470

1. There is a water supply well located on the above listed property. TOWN WATER

Yes  No

2. The water supply well is currently in use.

Yes  No

3. The water supply well is used as a source of drinking water.

Yes  No

4. The water supply well is used for irrigation.

Yes  No

5. Is electricity currently connected to the well?

N/K Yes  No

6. The depth of the water supply well is

N/K feet.

7. The diameter of the water supply well is

N/K inches.

8. Please list any other important information about the water supply well of which the Department should be aware (e.g. well is located in fenced area, pets present, used for filling swimming pool, etc.).

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

8. I wish to voluntarily have the water supply well properly abandoned (sealed) by a S.C. certified well driller. I understand that this work will be performed at no cost to me. I grant access to SCDHEC and its contractor to conduct this abandonment.

Yes  No

Signature: W.E. Myrick, Jr.

Name (please print): William E. Myrick, JR. Agent for Julius Moody

Witness: Barbara L. Metzger

Date: 11-19-09

Permit # : 00332

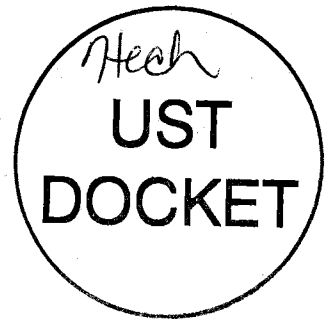


C. Earl Hunter, Commissioner

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

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

**DEC 04 2009**



Re: **Notice to Proceed-Groundwater Sampling**  
Bid # IFB-33335-3/11/08-EMW; PO# 719459

Dear Mr. Shane:

Based on the award of the referenced bid package, enclosed are the information packets to conduct twelve (12) groundwater-sampling events. The packets contain all necessary information for work to begin. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order # 719459 on the appropriate invoice submitted for payment against the facility.

UST Permit #	Facility	County	# wells	UST Project Manager	Sampling Due Date	Parameters-Groundwater	PACE CA#	MECI CA#
05740	Alcott Superette	Lee	10	D. Thoma	ASAP	BTEXMN, DCA, & EDB	37634	37635
08937	Heath Self Serve 1	Sumter	44	D. Thoma	01/08/10	BTEXMN & DCA	37723	37724
13792	Sawyers Grocery	Marion	18	D. Thoma	01/08/10	BTEXMN, DCA, & EDB	37714	37716
09352	ValMart 2	Georgetown	17	D. Thoma	01/08/10	BTEXMN & DCA	37498	37499
18662	Bay Creek Villas	Colleton	20	R. Miner	01/08/10	BTEXMN & DCA	37687	37688
15359	Tripps Mini Mart	York	15	D. Thoma	01/08/10	BTEXMN, DCA, EDB, & Oxygenates	37727	37728
00332	Interstate Truck	Allendale	27	J. Koon	01/08/10	BTEXMN & DCA	37619	37620
09390	McConnells Mart	York	26	D. Thoma	01/08/10	BTEXMN, DCA, & EDB	37504	37505
09125	McCutcheons Groc.	Williamsburg	19	J. Martin	01/08/10	BTEXMN & Oxygenates	36784	36785
03027	Carson's Amoco	Dorchester	17	J. Padgett	01/08/10	BTEXMN, DCA, EDB, Oxygenates, & total pb	37628	37627
11505	Harshaw Farms	York	19	D. Thoma	01/08/10	BTEXMN, DCA, & EDB	37502	37503
09325	Hershman Gulf	York	13	D. Thoma	01/08/10	BTEXMN, DCA, & EDB	37506	37507

MECI will perform services at the sites on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. Contact information has been provided in the information packet. The Department grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs. **Please note, the final report is due within 3 weeks from the date the site is sampled.**

**If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.**

Please contact me with the sampling schedule before commencing work at these facilities. If you have any questions or need further assistance, please contact me at (803) 896-6397 or [thomadl@dhec.sc.gov](mailto:thomadl@dhec.sc.gov).

Sincerely,



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

enc: Information Packets  
Approved Cost Agreements

cc: Renee Spencer, PACE Analytical, 9800 Kinsey Ave. Ste. 100, Huntersville, NC, 28078 (w/ Approved CAs)  
Technical Files (w/o. enc.)

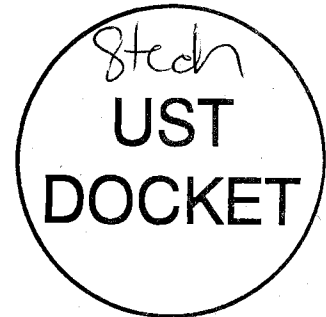


C. Earl Hunter, Commissioner

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

FEB 18 2010

MR TOM LAMMONS PE  
BUNNELL LAMMONS ENGINEERING INC  
6004 PONDERS CT  
GREENVILLE SC 29615-4601



Re: Monitoring well abandonments  
Bid #IFB-31861-6/21/07-EMW; PO #690443

Dear Mr. Lammons:

Under the terms and conditions of the referenced bid package, monitoring well abandonments have been approved for the facilities listed below. Each abandonment has been assigned an individual cost agreement (CA) number and report due date as listed below. Please reference appropriate CA numbers and Purchase Order #690443 on the invoice submitted for payment.

UST Permit	Facility	County	Wells	Total Footage	Cost Agreement	Due Date
00332	Interstate Truck Terminal	Allendale	1*	unk	37820	4/30/10
06961	Metts Grocery	Orangeburg	11	183	37676	4/30/10
06978	Gayatri Enterprises	Orangeburg	10	146	37365	4/30/10
18011	EZ Shop 10	Orangeburg	6**	125	38348	4/30/10
18662	Bay Creek Villas	Colleton	10	125	38370	4/30/10

\*water supply well

\*\*abandon one well and restore grout levels in five wells

If you have any questions or need further assistance, please contact me by telephone at (803) 896-6398, by fax at (803) 896-6245, or by e-mail at [padgettj@dhec.sc.gov](mailto:padgettj@dhec.sc.gov).

Sincerely,

Joel P. Padgett, P.G., Geologist/Hydrologist  
Corrective Action Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Abandonment packages  
cc: Technical file (w/o enc)  
DHEC/UST/JPP/021710

# Approved Cost Agreement 37820

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

KOONJT

PO Number:

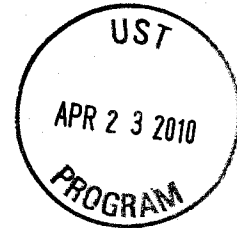
<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		A EQUIPMENT	1.0000	160.00	160.00
		B PERSONNEL	2.0000	55.00	110.00
18 MISCELLANEOUS		8 INCH WATER SUPPLY WELL	125.0000	7.50	937.50
		WATER SUPPLY WELL EQUIPMENT	4.0000	155.00	620.00
		<b>Total Amount</b>			<b>1,827.50</b>



# Midlands Environmental Consultants, Inc.

April 13, 2010

Ms. Debra Thoma, Hydrogeologist  
Assessment and Corrective Action Division  
Underground Storage Tank Division  
Bureau of Land and Waste Management  
South Carolina Department of Health and  
Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: Report of Groundwater Sampling  
Interstate Truck Terminal Inc.  
Allendale, South Carolina  
SCDHEC Site ID Number 00332, CA # 37619  
MECI Project Number 09-2600  
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Thoma,

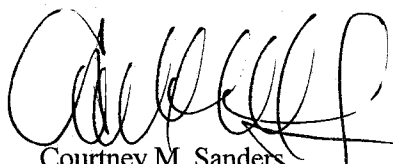
Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Sampling for the referenced site.

On April 8, 2010, twenty-three monitoring wells (MW-1 through MW-3, MW-4R, MW-5R, MW-6 through MW-15, MW-18 through MW-20, DW-1 through DW-4, and DW-6) and one water supply well (WSW-2) were sampled. Eight monitoring wells (MW-4R, MW-11, MW-12, DW-1 through DW-4 and DW-6) were purged prior to sampling. Two monitoring wells (MW-16 and MW-17) were not located. Groundwater samples obtained were transported to Pace Analytical Services, Inc. of Huntersville, NC for analysis.


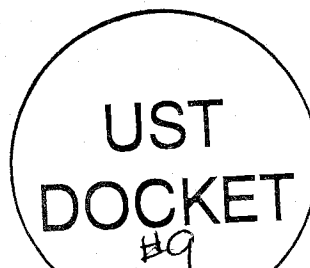
Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 135.0 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

If you have any question or comments please feel free to contact us at 803-808-2043.

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



Courtney M. Sanders  
Staff Biologist



Brendon P. Kelly  
Project Scientist



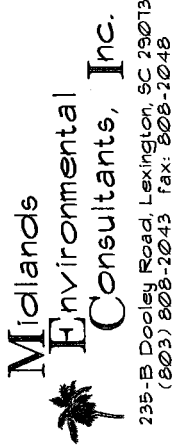
**Site Activity Summary**

UST Permit #: 00332

Facility Name: Interstate Truck Terminal Inc.

County: Allendale

Field Personnel: Adam Kelly



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	# Gals. Purged	Comments
MW-1	Y	4/8/10	16:30	25-35	***	25.00	***	***	No Odor
MW-2	Y	4/8/10	16:10	25-35	***	25.09	***	***	No Odor
MW-3	Y	4/8/10	16:40	24-34	***	26.74	***	***	Odor
MW-4R	Y	4/8/10	16:50	25-35	***	23.61	***	6.0	Odor
MW-5	Y	4/8/10	12:30	25-35	***	27.55	***	***	Odor
MW-6	Y	4/8/10	12:20	25-35	***	25.31	***	***	No Odor
MW-7	Y	4/8/10	13:00	25-35	***	27.24	***	***	No Odor
MW-8	Y	4/8/10	12:50	25-35	***	26.54	***	***	No Odor
MW-9	Y	4/8/10	12:00	25-35	***	25.89	***	***	No Odor
MW-10	Y	4/8/10	13:20	25-35	***	25.22	***	***	No Odor
MW-11	Y	4/8/10	14:00	25-35	***	23.56	***	6.0	No Odor
MW-12	Y	4/8/10	14:10	25-35	***	23.41	***	6.0	No Odor
MW-13	Y	4/8/10	14:20	25-35	***	25.42	***	***	No Odor
MW-14	Y	4/8/10	11:20	25-35	***	25.19	***	***	Odor
MW-15	Y	4/8/10	11:40	15-35	***	25.19	***	***	No Odor
								18.0	TOTAL GALLONS PURGED



South Carolina Department of Health and Environmental Control  
 Bureau of Land and Waste Management Underground Storage Tank Program  
 Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 4/8/2010

Field Personnel: Adam Kelly

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0	standard	X	standard
pH=7.0	X	standard	
pH=10.0	standard	standard	

Chain of Custody

Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

Facility Name: Interstate Truck Terminal Inc.

Site ID#: 00332 Monitoring Well # MW-4R

Water Supply Well Public Private \_\_\_\_\_

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
 for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 23.61 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 11.39 feet

1 casing volume (CV=LWC X C)= 0.163 X 3 = 1.86 gallons

3 casing volume (3 X CV)= 3 X 3 = 5.57 gallons

Total Volume of Water Purged Before Sampling 6 gals.  
 \*if free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	16:50						
pH (s.u.)	Sheen						
Specific Conductivity (µmhos/cm)	Sheen						
Water Temperature (°C)	Sheen						
Dissolved Oxygen	Sheen						
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 16:50 Unable to take field measurements due to petroleum sheen.

South Carolina Department of Health and Environmental Control  
 Bureau of Land and Waste Management Underground Storage Tank Program  
 Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 4/8/2010

Field Personnel: Adam Kelly

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0	<input checked="" type="checkbox"/>	standard	<input checked="" type="checkbox"/>
pH=7.0	<input checked="" type="checkbox"/>	standard	<input type="checkbox"/>
pH=10.0	<input type="checkbox"/>	standard	<input type="checkbox"/>

Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

Chain of Custody

Facility Name: Interstate Truck Terminal Inc.

Site ID#: 00332 Monitoring Well # MW-11

Water Supply Well Public Private Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
 for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 23.56 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 11.44 feet

1 casing volume (CV=LWC X C)= 0.163 X 3 1.86 gallons

3 casing volume (3 X CV)= 3 X 1.86 5.59 gallons

Total Volume of Water Purged Before Sampling 6 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:00	14:05	14:10	14:15			
pH (s.u.)	7.01	6.85	6.21	6.14			
Specific Conductivity (µmhos/cm)	212.70	195.60	181.70	152.3			
Water Temperature (°C)	22.9	22.9	22.7	22.7			
Dissolved Oxygen	3.95	2.88	0.91	0.66			
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 14:15

South Carolina Department of Health and Environmental Control  
 Bureau of Land and Waste Management Underground Storage Tank Program  
 Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 4/8/2010

Field Personnel: Adam Kelly

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0	standard	X	standard
pH=7.0	X	standard	
pH=10.0	standard	standard	

Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

Chain of Custody

Facility Name: Interstate Truck Terminal Inc.

Site ID#: 00332 Monitoring Well # MW-12

Water Supply Well Public Private \_\_\_\_\_

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
 for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 23.41 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 11.59 feet

1 casing volume (CV=LWC X C)= 0.163 X 3 1.89 gallons

3 casing volume (3 X CV)= 3 X 5.67 16.99 gallons

Total Volume of Water Purged Before Sampling 6 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:10	14:20	14:25	14:30			
pH (s.u.)	6.25	6.19	6.16	6.02			
Specific Conductivity (µmhos/cm)	52.10	50.40	51.10	49.2			
Water Temperature (°C)	21.9	21.5	20.8	20.3			
Dissolved Oxygen	9.01	3.42	3.35	3.12			
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 14:30

South Carolina Department of Health and Environmental Control  
 Bureau of Land and Waste Management Underground Storage Tank Program  
 Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 4/8/2010  
 Field Personnel: Adam Kelly  
 General Weather Conditions: Sunny  
 Ambient Air Temperature: 28.0 °C  
 pH Meter YSI Model 550A Conductivity Meter  
 serial no. 02A0831 serial no. 02A0831  
 pH=4.0 X standard X  
 pH=7.0 X standard \_\_\_\_\_  
 pH=10.0 X standard \_\_\_\_\_  
 Chain of Custody  
 Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

Facility Name: Interstate Truck Terminal Inc.  
 Site ID#: 00332 Monitoring Well # DW-1  
 Water Supply Well Public Private \_\_\_\_\_  
 Monitoring Well Diameter (D): 2 inches  
 Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
 for a 4 inch well C=0.652  
 \* Free Product Thickness: \_\_\_\_\_ feet  
 Depth to Free Product (DFP) \_\_\_\_\_ feet  
 Depth to Ground Water (DGW) 24.79 feet  
 Total Well Depth (TWD) 70 feet  
 Length of the water column (LWC=TWD-DGW) 45.21 feet  
 1 casing volume (CV=LWC X C)= 0.163 X 7.37 gallons  
 3 casing volume (3 X CV)= 3 X 22.11 gallons  
 Total Volume of Water Purged Before Sampling 23 gals.  
 \*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	16:00	16:10	16:15	16:20			
pH (s.u.)	7.89	7.76	7.30	7.17			
Specific Conductivity (µmhos/cm)	208.10	197.20	190.10	189.4			
Water Temperature (°C)	22.6	22.4	21.9	21.4			
Dissolved Oxygen	4.50	3.12	2.89	2.62			
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 16:20

South Carolina Department of Health and Environmental Control  
 Bureau of Land and Waste Management Underground Storage Tank Program  
 Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 4/8/2010

Field Personnel: Adam Kelly

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0	<u>X</u>	standard	<u>X</u>
pH=7.0	<u>X</u>	standard	
pH=10.0		standard	

Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

Chain of Custody

Facility Name: Interstate Truck Terminal Inc.

Site ID#: 00332 Monitoring Well # DW-2

Water Supply Well Public Private Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
 for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 26.39 feet

Total Well Depth (TWD) 70 feet

Length of the water column (LWC=TWD-DGW) 43.61 feet

1 casing volume (CV=LWC X C)= 0.163 X 3 7.11 gallons

3 casing volume (3 X CV)= 21.33 gallons

Total Volume of Water Purged Before Sampling 22 gals.

\*if free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	15:00	15:05					
pH (s.u.)	7.09	7.09					
Specific Conductivity (µmhos/cm)	212.60	199.90					
Water Temperature (°C)	22.9	21.9					
Dissolved Oxygen	3.60	3.48					
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 15:00 Parameters within 10%

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 4/8/2010

Field Personnel: Adam Kelly

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0	<u>X</u>	standard	<u>X</u>
pH=7.0	<u>X</u>	standard	
pH=10.0		standard	

Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

Chain of Custody

Facility Name: Interstate Truck Terminal Inc.

Site ID#: 00332 Monitoring Well # DW-3

Water Supply Well Public Private \_\_\_\_\_

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 25.10 feet

Total Well Depth (TWD) 70 feet

Length of the water column (LWC=TWD-DGW) 44.9 feet

1 casing volume (CV=LWC X C)= 0.163 X 3 7.32 gallons

3 casing volume (3 X CV)= 3 X 21.96 65.88 gallons

Total Volume of Water Purged Before Sampling 22 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	11:00	11:05	11:10	11:15			
pH (s.u.)	7.47	7.44	7.39	7.21			
Specific Conductivity (µmhos/cm)	143.8	144.2	147.8	149.3			
Water Temperature (°C)	22.6	22.5	22.9	23.4			
Dissolved Oxygen	3.62	3.14	2.61	1.74			
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 11:15



South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 4/8/2010

Field Personnel: Adam Kelly

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	02A0831	serial no.	02A0831
pH=4.0	standard	X	
pH=7.0	standard		
pH=10.0	standard		

Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

Chain of Custody

Facility Name: Interstate Truck Terminal Inc.

Site ID#: 00332 Monitoring Well # DW-4

Water Supply Well Public Private \_\_\_\_\_

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 26.32 feet

Total Well Depth (TWD) 70 feet

Length of the water column (LWC=TWD-DGW) 43.68 feet

1 casing volume (CV=LWC X C)= 0.163 X 3 7.12 gallons

3 casing volume (3 X CV)= 21.36 gallons

Total Volume of Water Purged Before Sampling 22 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:40	14:45					
pH (s.u.)	10.90	11.6					
Specific Conductivity (µmhos/cm)	248.10	263.00					
Water Temperature (°C)	20.3	20.8					
Dissolved Oxygen	5.31	11.48					
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 14:40 Parameters within 10%

South Carolina Department of Health and Environmental Control  
 Bureau of Land and Waste Management Underground Storage Tank Program  
 Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 4/8/2010

Field Personnel: Adam Kelly

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter YSI Model 550A Conductivity Meter  
 serial no. 02A0831 serial no. 02A0831  
 pH=4.0 standard X  
 pH=7.0 standard X  
 pH=10.0 standard         

Chain of Custody

Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_

Facility Name: Interstate Truck Terminal Inc.

Site ID#: 00332 Monitoring Well # DW-6

Water Supply Well Public Private         

Monitoring Well Diameter (D): 2 inches

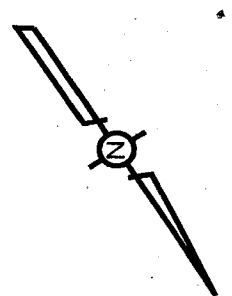
Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
 for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet  
 Depth to Free Product (DFP) \_\_\_\_\_ feet  
 Depth to Ground Water (DGW) 28.75 feet  
 Total Well Depth (TWD) 85 feet  
 Length of the water column (LWC=TWD-DGW) 56.25 feet  
 1 casing volume (CV=LWC X C)= 0.163 3 9.17 gallons  
 3 casing volume (3 X CV)= \_\_\_\_\_ 3 27.51 gallons

Total Volume of Water Purged Before Sampling 28 gals.  
 \*if free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:25	14:30	14:35	14:40			
pH (s.u.)	6.72	6.71	6.82	6.86			
Specific Conductivity (µmhos/cm)	185.7	184.9	186.2	185.0			
Water Temperature (°C)	22.9	22.6	22.4	22.1			
Dissolved Oxygen	4.46	3.82	2.16	1.85			
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 14:25



- MW-11 (1.0)
- MW-12 (1.0)
- MW-13 (1.0)
- DW-4 (1.0)
- MW-20 (1.0)

WOODED

WOODED

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

MW-19 (1.0)

MW-4R (45)

DW-1 (1.0)

MW-2 (154)

MW-6 (170)

MW-14 (28)

DW-3 (1.0)

MW-15 (1.0)

MW-18 (1.0)

ASPHALT/CONCRETE

MW-1 (6.4)

MW-3 (6.5)

100 ppb

CONCRETE

MW-5R (6.8)

DW-6 (1.0)

10 ppb

<1 ppb

SC-S-3-190

MW-9 (63)

MW-16 (32)

MW-17 (1.0)

MW-10 (1.0)

DW-2 (1.0)

INTERSTATE TRUCK

MW-7 (1.0)

DW-5 (1.0)

WSW-1 (INACTIVE)

MW-8 (1.0)

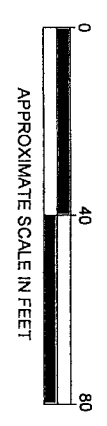
WSW-2 (APPROX. 185')

GRASS

**LEGEND**

- MW-7 SHALLOW MONITORING WELL
- (1.0) CONTAMINANT CONCENTRATION (ppb)
- DW-2 DEEP MONITORING WELL
- (1.0) CONTAMINANT CONCENTRATION (ppb)
- WSW-1 WATER SUPPLY WELL

- FORMER UST PIT
- DISPENSER ISLAND



CONSULTECH ENVIRONMENTAL, L.L.C.	
Environmental Consulting and Engineering	© 1999
Delivering innovative solutions to today's environmental concerns.	
DRAWN: MAC	DATE: 12/30/08
SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT NO.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

**FIGURE 7**  
DISSOLVED BENZENE  
ISOCNCENTRATION MAP  
(DECEMBER 10, 2008)

CAD FILE = C-05-05-032.dwg.

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

1356829

**Section A** Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

**Section A**  
 Company: SCDEHC-1151  
 Address: 2600 Bull St  
 Columbia, SC 29201  
 Phone: 803-893-6111 Fax: 803-46-6743  
 Requested Due Date/TAT:

**Section B**  
 Report To: D Thomas  
 Copy To: \*  
 Purchase Order No.: 719454  
 Project Name: Interstate Truck Terminal  
 Project Number: 37620/37619

**Section C**  
 Attention: Financ (D Thomas)  
 Company Name: SCDEHC-1151  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager: R Spence  
 Pace Profile #:

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

ITEM #	Section D Required Client Information  SAMPLE ID (AZ, 08 / / ) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE DW Drinking Water WT Waste Water WW Waste Water Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives									Analysis Test (Y/N)	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB						DATE	TIME	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other			
1	MW-1				WT			3										Residual Chlorine (Y/N)	No Odor		
2	MW-2						1630												No Odor		
3	MW-3						1640												Odor		
4	MW-4						1650												Odor		
5	MW-5						1730												Odor		
6	MW-6						1820												No Odor		
7	MW-7						1900												No Odor		
8	MW-8						1950												No Odor		
9	MW-9						1950												No Odor		
10	MW-10						1900												No Odor		
11	MW-11						1910												No Odor		
12	MW-12						1910												No Odor		

**ADDITIONAL COMMENTS**  
 Relinquished by / Affiliation: Adam Kelly / MEZ  
 Date: 7/18/10  
 Time: 1800  
 Accepted by / Affiliation: [Signature]  
 Date: 7/10/10  
 Time: 1120

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

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER:  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): 04/08/10

2



# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
**Required Client Information:**  
 Company: SCDHEC-UST  
 Address: 2600 Bull St  
 Columbia, SC 29201  
 Email To: [Blank]  
 Phone: 803-843-1110 Fax: 803-846-6713  
 Requested Due Date/TAT: [Blank]

**Section B**  
**Required Project Information:**  
 Report To: D Thomas  
 Copy To: [Blank]  
 Purchase Order No.: 719952  
 Project Name: Interstate Truck Company  
 Project Number: 37620/37614

**Section C**  
**Invoice Information:**  
 Attention: Fischer (D Thomas)  
 Company Name: SCDHEC-UST  
 Address: [Blank]  
 Pace Quote Reference: R Spencer  
 Pace Project Manager: [Blank]  
 Pace Profile #: [Blank]

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

Page: 2 of 2  
 1356830

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE	Matrix Codes Drinking Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB							
1	MU-13	WT			DATE: 9/8	TIME: 1410	3	H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	X X X X X X X			1356830
2	MU-14					1420			X			Odor
3	MU-15					1420			X			No odor
4	MU-18					1440			X			No odor
5	MU-19					1610			X			Odor
6	MU-20					1700			X			No odor
7	DW-1					1600			X			No odor
8	DW-2					1500			X			No odor
9	DW-3					1400			X			No odor
10	DW-4					1425			X			No odor
11	DW-6					1350			X			No odor
12	DW-7					1350			X			No odor

**ADDITIONAL COMMENTS**  
 Report values from Kelly/MCE

**RELINQUISHED BY / AFFILIATION**  
 Adam Kelly / MCE

**DATE**  
 9/8

**TIME**  
 1800

**ACCEPTED BY / AFFILIATION**  
 Blomby Pace

**DATE**  
 10/10

**TIME**  
 1120

**SAMPLE CONDITIONS**

Temp in °C [Blank]  
 Received on [Blank]  
 Ice (Y/N) [Blank]  
 Sealed Cooler (Y/N) [Blank]  
 Custody (Y/N) [Blank]  
 Samples Intact (Y/N) [Blank]

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Adam Kelly  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): 09/08/10



# Midlands Environmental Consultants, Inc.

April 13, 2010

Re: Treatment of Purge Water  
Interstate Truck Terminal Inc.  
Allendale, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 09-2600

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

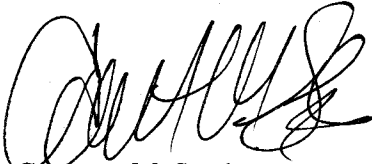
April 13, 2010

**A total of 135.0 gallons were treated on April 08, 2010 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.

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

Courtney M. Sanders  
Staff Biologist

April 20, 2010



Ms. Debra Thoma  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201

RE: Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,



Renee Spencer

renee.spencer@pacelabs.com  
Project Manager

Enclosures

## REPORT OF LABORATORY ANALYSIS

Page 1 of 38

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





## CERTIFICATIONS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

---

### Charlotte Certification IDs

9800 Kinsey Ave. - Ste 100 Huntersville, NC 28078  
Connecticut Certification #: PH-0104  
Virginia Certification #: 00213  
Tennessee Certification #: 04010  
South Carolina Drinking Water Cert. #: 990060003  
South Carolina Certification #: 990060001  
Pennsylvania Certification #: 68-00784  
North Carolina Wastewater Certification #: 12

North Carolina Field Services Certification #: 5342  
North Carolina Drinking Water Certification #: 37706  
New Jersey Certification #: NC012  
Louisiana/LELAP Certification #: 04034  
Kentucky UST Certification #: 84  
Florida/NELAP Certification #: E87627  
West Virginia Certification #: 357

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## REPORT OF LABORATORY ANALYSIS

Page 2 of 38

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### SAMPLE SUMMARY

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9267107001	MW-1	Water	04/08/10 16:30	04/09/10 16:45
9267107002	MW-2	Water	04/08/10 16:10	04/09/10 16:45
9267107003	MW-3	Water	04/08/10 16:40	04/09/10 16:45
9267107004	MW-4R	Water	04/08/10 16:50	04/09/10 16:45
9267107005	MW-5R	Water	04/08/10 12:30	04/09/10 16:45
9267107006	MW-6	Water	04/08/10 12:20	04/09/10 16:45
9267107007	MW-7	Water	04/08/10 13:00	04/09/10 16:45
9267107008	MW-8	Water	04/08/10 12:50	04/09/10 16:45
9267107009	MW-9	Water	04/08/10 12:00	04/09/10 16:45
9267107010	MW-10	Water	04/08/10 13:20	04/09/10 16:45
9267107011	MW-11	Water	04/08/10 14:00	04/09/10 16:45
9267107012	MW-12	Water	04/08/10 14:10	04/09/10 16:45
9267107013	MW-13	Water	04/08/10 14:10	04/09/10 16:45
9267107014	MW-14	Water	04/08/10 14:20	04/09/10 16:45
9267107015	MW-15	Water	04/08/10 11:20	04/09/10 16:45
9267107016	MW-18	Water	04/08/10 11:40	04/09/10 16:45
9267107017	MW-19	Water	04/08/10 16:40	04/09/10 16:45
9267107018	MW-20	Water	04/08/10 16:50	04/09/10 16:45
9267107019	DW-1	Water	04/08/10 17:00	04/09/10 16:45
9267107020	DW-2	Water	04/08/10 16:00	04/09/10 16:45
9267107021	DW-3	Water	04/08/10 15:00	04/09/10 16:45
9267107022	DW-4	Water	04/08/10 11:00	04/09/10 16:45
9267107023	DW-6	Water	04/08/10 14:25	04/09/10 16:45
9267107024	WSW-2	Water	04/08/10 13:50	04/09/10 16:45

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9267107001	MW-1	EPA 8260	KJM	13
9267107002	MW-2	EPA 8260	MCK	13
9267107003	MW-3	EPA 8260	KJM, MCK	13
9267107004	MW-4R	EPA 8260	KJM	13
9267107005	MW-5R	EPA 8260	KJM, MCK	13
9267107006	MW-6	EPA 8260	KJM	13
9267107007	MW-7	EPA 8260	KJM	13
9267107008	MW-8	EPA 8260	KJM	13
9267107009	MW-9	EPA 8260	KJM	13
9267107010	MW-10	EPA 8260	KJM	13
9267107011	MW-11	EPA 8260	MCK	13
9267107012	MW-12	EPA 8260	KJM	13
9267107013	MW-13	EPA 8260	MCK	13
9267107014	MW-14	EPA 8260	KJM, MCK	13
9267107015	MW-15	EPA 8260	MCK	13
9267107016	MW-18	EPA 8260	MCK	13
9267107017	MW-19	EPA 8260	MCK	13
9267107018	MW-20	EPA 8260	MCK	13
9267107019	DW-1	EPA 8260	MCK	13
9267107020	DW-2	EPA 8260	MCK	13
9267107021	DW-3	EPA 8260	MCK	13
9267107022	DW-4	EPA 8260	MCK	13
9267107023	DW-6	EPA 8260	MCK	13
9267107024	WSW-2	EPA 8260	MCK	13

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: MW-1 Lab ID: 9267107001 Collected: 04/08/10 16:30 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	3.5J	ug/L	5.0	1.2	1		04/17/10 16:41	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/17/10 16:41	107-06-2	
Ethylbenzene	28.7	ug/L	5.0	1.1	1		04/17/10 16:41	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/17/10 16:41	1634-04-4	
Naphthalene	14.9	ug/L	5.0	2.9	1		04/17/10 16:41	91-20-3	
Toluene	18.6	ug/L	5.0	1.8	1		04/17/10 16:41	108-88-3	
Xylene (Total)	63.0	ug/L	10.0	2.7	1		04/17/10 16:41	1330-20-7	
m&p-Xylene	53.2	ug/L	10.0	2.7	1		04/17/10 16:41	1330-20-7	
o-Xylene	9.8	ug/L	5.0	1.7	1		04/17/10 16:41	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/17/10 16:41	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/17/10 16:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		04/17/10 16:41	17060-07-0	
Toluene-d8 (S)	92	%	70-130		1		04/17/10 16:41	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

**Sample: MW-2**      **Lab ID: 9267107002**      Collected: 04/08/10 16:10      Received: 04/09/10 16:45      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	160	ug/L	5.0	1.2	1		04/18/10 12:06	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/18/10 12:06	107-06-2	
Ethylbenzene	969	ug/L	5.0	1.1	1		04/18/10 12:06	100-41-4	1g,E
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/18/10 12:06	1634-04-4	
Naphthalene	237	ug/L	5.0	2.9	1		04/18/10 12:06	91-20-3	E
Toluene	1890	ug/L	5.0	1.8	1		04/18/10 12:06	108-88-3	E
Xylene (Total)	2540	ug/L	10.0	2.7	1		04/18/10 12:06	1330-20-7	
m&p-Xylene	1600	ug/L	10.0	2.7	1		04/18/10 12:06	1330-20-7	E
o-Xylene	940	ug/L	5.0	1.7	1		04/18/10 12:06	95-47-6	E
4-Bromofluorobenzene (S)	103	%	70-130		1		04/18/10 12:06	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/18/10 12:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		04/18/10 12:06	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		04/18/10 12:06	2037-26-5	

**Debra L. Thoma - Interstate Truck 00332 project 9267107**

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**From:** "Renee Spencer" <Renee.Spencer@pacelabs.com>  
**To:** <THOMADL@dhec.sc.gov>  
**Date:** 4/21/2010 11:10 AM  
**Subject:** Interstate Truck 00332 project 9267107

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Morning Debra-

I just faxed results for this project and also included the results page for sample MW-2, which had to be footnoted as estimated/out of range. I checked with the analyst and they did run all 3 vials, but the results were non-confirming from one run to the next - the sample was also noted as being non-homogeneous and the highest results were reported. Just wanted to supply you with a little better explanation of the footnotes.

Thanks,  
Renee

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### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: **MW-3** Lab ID: **9267107003** Collected: 04/08/10 16:40 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	7.8 ug/L		5.0	1.2	1		04/17/10 16:59	71-43-2	
1,2-Dichloroethane	ND ug/L		5.0	1.3	1		04/17/10 16:59	107-06-2	
Ethylbenzene	1120 ug/L		50.0	11.0	10		04/18/10 14:47	100-41-4	
Methyl-tert-butyl ether	ND ug/L		5.0	2.0	1		04/17/10 16:59	1634-04-4	
Naphthalene	93.1 ug/L		5.0	2.9	1		04/17/10 16:59	91-20-3	
Toluene	133 ug/L		5.0	1.8	1		04/17/10 16:59	108-88-3	
Xylene (Total)	5270 ug/L		100	27.0	10		04/18/10 14:47	1330-20-7	
m&p-Xylene	3470 ug/L		100	27.0	10		04/18/10 14:47	1330-20-7	
o-Xylene	1800 ug/L		50.0	17.0	10		04/18/10 14:47	95-47-6	
4-Bromofluorobenzene (S)	104 %		70-130		1		04/17/10 16:59	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		04/17/10 16:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	105 %		70-130		1		04/17/10 16:59	17060-07-0	
Toluene-d8 (S)	95 %		70-130		1		04/17/10 16:59	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: MW-4R      Lab ID: 9267107004      Collected: 04/08/10 16:50      Received: 04/09/10 16:45      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	16.1	ug/L	5.0	1.2	1		04/19/10 11:24	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/19/10 11:24	107-06-2	
Ethylbenzene	768	ug/L	50.0	11.0	10		04/19/10 14:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/19/10 11:24	1634-04-4	
Naphthalene	76.0	ug/L	5.0	2.9	1		04/19/10 11:24	91-20-3	
Toluene	556	ug/L	50.0	18.0	10		04/19/10 14:05	108-88-3	
Xylene (Total)	3480	ug/L	100	27.0	10		04/19/10 14:05	1330-20-7	
m&p-Xylene	2550	ug/L	100	27.0	10		04/19/10 14:05	1330-20-7	
o-Xylene	934	ug/L	50.0	17.0	10		04/19/10 14:05	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130		1		04/19/10 11:24	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		04/19/10 11:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/19/10 11:24	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		04/19/10 11:24	2037-26-5	



### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: **MW-5R** Lab ID: **9267107005** Collected: 04/08/10 12:30 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	9.6 ug/L		5.0	1.2	1		04/17/10 17:18	71-43-2	
1,2-Dichloroethane	ND ug/L		5.0	1.3	1		04/17/10 17:18	107-06-2	
Ethylbenzene	180 ug/L		5.0	1.1	1		04/17/10 17:18	100-41-4	
Methyl-tert-butyl ether	ND ug/L		5.0	2.0	1		04/17/10 17:18	1634-04-4	
Naphthalene	392 ug/L		50.0	29.0	10		04/18/10 15:08	91-20-3	
Toluene	10.1 ug/L		5.0	1.8	1		04/17/10 17:18	108-88-3	
Xylene (Total)	405 ug/L		10.0	2.7	1		04/17/10 17:18	1330-20-7	
m&p-Xylene	387 ug/L		10.0	2.7	1		04/17/10 17:18	1330-20-7	
o-Xylene	18.2 ug/L		5.0	1.7	1		04/17/10 17:18	95-47-6	
4-Bromofluorobenzene (S)	102 %		70-130		1		04/17/10 17:18	460-00-4	
Dibromofluoromethane (S)	99 %		70-130		1		04/17/10 17:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	102 %		70-130		1		04/17/10 17:18	17060-07-0	
Toluene-d8 (S)	93 %		70-130		1		04/17/10 17:18	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: **MW-6** Lab ID: **9267107006** Collected: 04/08/10 12:20 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	109	ug/L	5.0	1.2	1		04/19/10 11:42	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/19/10 11:42	107-06-2	
Ethylbenzene	143	ug/L	5.0	1.1	1		04/19/10 11:42	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/19/10 11:42	1634-04-4	
Naphthalene	168	ug/L	5.0	2.9	1		04/19/10 11:42	91-20-3	
Toluene	845	ug/L	100	36.0	20		04/19/10 15:06	108-88-3	
Xylene (Total)	3790	ug/L	200	54.0	20		04/19/10 15:06	1330-20-7	
m&p-Xylene	2920	ug/L	200	54.0	20		04/19/10 15:06	1330-20-7	
o-Xylene	868	ug/L	100	34.0	20		04/19/10 15:06	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		04/19/10 11:42	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		04/19/10 11:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/19/10 11:42	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		04/19/10 11:42	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: **MW-7** Lab ID: **9267107007** Collected: 04/08/10 13:00 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/15/10 23:56	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/15/10 23:56	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/15/10 23:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/15/10 23:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/15/10 23:56	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/15/10 23:56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/15/10 23:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/15/10 23:56	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/15/10 23:56	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/15/10 23:56	460-00-4	
Dibromofluoromethane (S)	88	%	70-130		1		04/15/10 23:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		04/15/10 23:56	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		04/15/10 23:56	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: **MW-8** Lab ID: **9267107008** Collected: 04/08/10 12:50 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1.2	1		04/16/10 00:14	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/16/10 00:14	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/16/10 00:14	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/16/10 00:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/16/10 00:14	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/16/10 00:14	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/16/10 00:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/16/10 00:14	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/16/10 00:14	95-47-6	
4-Bromofluorobenzene (S)	95 %		70-130		1		04/16/10 00:14	460-00-4	
Dibromofluoromethane (S)	97 %		70-130		1		04/16/10 00:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		70-130		1		04/16/10 00:14	17060-07-0	
Toluene-d8 (S)	96 %		70-130		1		04/16/10 00:14	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: **MW-9** Lab ID: **9267107009** Collected: 04/08/10 12:00 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	3.7J	ug/L	5.0	1.2	1		04/16/10 00:32	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/16/10 00:32	107-06-2	
Ethylbenzene	2.4J	ug/L	5.0	1.1	1		04/16/10 00:32	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/16/10 00:32	1634-04-4	
Naphthalene	4.7J	ug/L	5.0	2.9	1		04/16/10 00:32	91-20-3	
Toluene	1.8J	ug/L	5.0	1.8	1		04/16/10 00:32	108-88-3	
Xylene (Total)	22.0	ug/L	10.0	2.7	1		04/16/10 00:32	1330-20-7	
m&p-Xylene	9.6J	ug/L	10.0	2.7	1		04/16/10 00:32	1330-20-7	
o-Xylene	12.5	ug/L	5.0	1.7	1		04/16/10 00:32	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/16/10 00:32	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/16/10 00:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/16/10 00:32	17060-07-0	
Toluene-d8 (S)	91	%	70-130		1		04/16/10 00:32	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: **MW-10** Lab ID: **9267107010** Collected: 04/08/10 13:20 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	13.0	ug/L	5.0	1.2	1		04/17/10 14:29	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/17/10 14:29	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/17/10 14:29	100-41-4	
Methyl-tert-butyl ether	63.8	ug/L	5.0	2.0	1		04/17/10 14:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/17/10 14:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/17/10 14:29	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/10 14:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/17/10 14:29	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/17/10 14:29	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/17/10 14:29	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/17/10 14:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/17/10 14:29	17060-07-0	
Toluene-d8 (S)	90	%	70-130		1		04/17/10 14:29	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: MW-11 Lab ID: 9267107011 Collected: 04/08/10 14:00 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/18/10 11:10	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/18/10 11:10	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/18/10 11:10	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/18/10 11:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/18/10 11:10	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/18/10 11:10	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/10 11:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/18/10 11:10	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/18/10 11:10	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/18/10 11:10	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/18/10 11:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		04/18/10 11:10	17060-07-0	
Toluene-d8 (S)	93	%	70-130		1		04/18/10 11:10	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: **MW-12** Lab ID: **9267107012** Collected: 04/08/10 14:10 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/17/10 14:48	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/17/10 14:48	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/17/10 14:48	100-41-4	
Methyl-tert-butyl ether	3.0J	ug/L	5.0	2.0	1		04/17/10 14:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/17/10 14:48	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/17/10 14:48	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/10 14:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/17/10 14:48	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/17/10 14:48	95-47-6	
4-Bromofluorobenzene (S)	100 %		70-130		1		04/17/10 14:48	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		04/17/10 14:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	102 %		70-130		1		04/17/10 14:48	17060-07-0	
Toluene-d8 (S)	89 %		70-130		1		04/17/10 14:48	2037-26-5	



### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: MW-13      Lab ID: 9267107013      Collected: 04/08/10 14:10      Received: 04/09/10 16:45      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/17/10 14:42	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/17/10 14:42	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/17/10 14:42	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/17/10 14:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/17/10 14:42	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/17/10 14:42	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/10 14:42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/17/10 14:42	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/17/10 14:42	95-47-6	
4-Bromofluorobenzene (S)	99 %		70-130		1		04/17/10 14:42	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		04/17/10 14:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		70-130		1		04/17/10 14:42	17060-07-0	
Toluene-d8 (S)	101 %		70-130		1		04/17/10 14:42	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: **MW-14** Lab ID: **9267107014** Collected: 04/08/10 14:20 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	107	ug/L	50.0	12.0	10		04/18/10 15:30	71-43-2	
1,2-Dichloroethane	ND	ug/L	50.0	13.0	10		04/18/10 15:30	107-06-2	
Ethylbenzene	445	ug/L	50.0	11.0	10		04/18/10 15:30	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	50.0	20.0	10		04/18/10 15:30	1634-04-4	
Naphthalene	151	ug/L	50.0	29.0	10		04/18/10 15:30	91-20-3	
Toluene	3100	ug/L	250	90.0	50		04/19/10 12:46	108-88-3	
Xylene (Total)	5120	ug/L	100	27.0	10		04/18/10 15:30	1330-20-7	
m&p-Xylene	3420	ug/L	100	27.0	10		04/18/10 15:30	1330-20-7	
o-Xylene	1700	ug/L	50.0	17.0	10		04/18/10 15:30	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130		10		04/18/10 15:30	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		10		04/18/10 15:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		10		04/18/10 15:30	17060-07-0	
Toluene-d8 (S)	98	%	70-130		10		04/18/10 15:30	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: **MW-15** Lab ID: **9267107015** Collected: 04/08/10 11:20 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/17/10 14:24	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/17/10 14:24	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/17/10 14:24	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/17/10 14:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/17/10 14:24	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/17/10 14:24	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/10 14:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/17/10 14:24	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/17/10 14:24	95-47-6	
4-Bromofluorobenzene (S)	99 %		70-130		1		04/17/10 14:24	460-00-4	
Dibromofluoromethane (S)	98 %		70-130		1		04/17/10 14:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	97 %		70-130		1		04/17/10 14:24	17060-07-0	
Toluene-d8 (S)	102 %		70-130		1		04/17/10 14:24	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

**Sample: MW-18**      **Lab ID: 9267107016**      Collected: 04/08/10 11:40      Received: 04/09/10 16:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/17/10 14:05	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/17/10 14:05	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/17/10 14:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/17/10 14:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/17/10 14:05	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/17/10 14:05	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/10 14:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/17/10 14:05	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/17/10 14:05	95-47-6	
4-Bromofluorobenzene (S)	98 %		70-130		1		04/17/10 14:05	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		04/17/10 14:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	96 %		70-130		1		04/17/10 14:05	17060-07-0	
Toluene-d8 (S)	101 %		70-130		1		04/17/10 14:05	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: MW-19 Lab ID: 9267107017 Collected: 04/08/10 16:40 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	9.8J	ug/L	10.0	2.4	2		04/18/10 13:22	71-43-2	
1,2-Dichloroethane	ND	ug/L	10.0	2.6	2		04/18/10 13:22	107-06-2	
Ethylbenzene	167	ug/L	10.0	2.2	2		04/18/10 13:22	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	10.0	4.0	2		04/18/10 13:22	1634-04-4	
Naphthalene	19.5	ug/L	10.0	5.8	2		04/18/10 13:22	91-20-3	
Toluene	225	ug/L	10.0	3.6	2		04/18/10 13:22	108-88-3	
Xylene (Total)	916	ug/L	20.0	5.4	2		04/18/10 13:22	1330-20-7	
m&p-Xylene	671	ug/L	20.0	5.4	2		04/18/10 13:22	1330-20-7	
o-Xylene	245	ug/L	10.0	3.4	2		04/18/10 13:22	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		2		04/18/10 13:22	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		2		04/18/10 13:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		2		04/18/10 13:22	17060-07-0	
Toluene-d8 (S)	94	%	70-130		2		04/18/10 13:22	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: MW-20 Lab ID: 9267107018 Collected: 04/08/10 16:50 Received: 04/09/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/17/10 13:47	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/17/10 13:47	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/17/10 13:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/17/10 13:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/17/10 13:47	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/17/10 13:47	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/10 13:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/17/10 13:47	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/17/10 13:47	95-47-6	
4-Bromofluorobenzene (S)	95 %		70-130		1		04/17/10 13:47	460-00-4	
Dibromofluoromethane (S)	99 %		70-130		1		04/17/10 13:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	93 %		70-130		1		04/17/10 13:47	17060-07-0	
Toluene-d8 (S)	102 %		70-130		1		04/17/10 13:47	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: DW-1      Lab ID: 9267107019      Collected: 04/08/10 17:00      Received: 04/09/10 16:45      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/18/10 11:29	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/18/10 11:29	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/18/10 11:29	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/18/10 11:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/18/10 11:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/18/10 11:29	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/18/10 11:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/18/10 11:29	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/18/10 11:29	95-47-6	
4-Bromofluorobenzene (S)	94 %		70-130		1		04/18/10 11:29	460-00-4	
Dibromofluoromethane (S)	98 %		70-130		1		04/18/10 11:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	102 %		70-130		1		04/18/10 11:29	17060-07-0	
Toluene-d8 (S)	88 %		70-130		1		04/18/10 11:29	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: DW-2      Lab ID: 9267107020      Collected: 04/08/10 16:00      Received: 04/09/10 16:45      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/17/10 13:29	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/17/10 13:29	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/17/10 13:29	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/17/10 13:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/17/10 13:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/17/10 13:29	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/10 13:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/17/10 13:29	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/17/10 13:29	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/17/10 13:29	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/17/10 13:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/17/10 13:29	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		04/17/10 13:29	2037-26-5	



### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: DW-3      Lab ID: 9267107021      Collected: 04/08/10 15:00      Received: 04/09/10 16:45      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	15.3	ug/L	5.0	1.2	1		04/18/10 11:47	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/18/10 11:47	107-06-2	
Ethylbenzene	4.8J	ug/L	5.0	1.1	1		04/18/10 11:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/18/10 11:47	1634-04-4	
Naphthalene	11.5	ug/L	5.0	2.9	1		04/18/10 11:47	91-20-3	
Toluene	2.5J	ug/L	5.0	1.8	1		04/18/10 11:47	108-88-3	
Xylene (Total)	49.0	ug/L	10.0	2.7	1		04/18/10 11:47	1330-20-7	
m&p-Xylene	43.2	ug/L	10.0	2.7	1		04/18/10 11:47	1330-20-7	
o-Xylene	5.8	ug/L	5.0	1.7	1		04/18/10 11:47	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/18/10 11:47	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		04/18/10 11:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/18/10 11:47	17060-07-0	
Toluene-d8 (S)	93	%	70-130		1		04/18/10 11:47	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: DW-4		Lab ID: 9267107022	Collected: 04/08/10 11:00	Received: 04/09/10 16:45	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/17/10 13:11	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/17/10 13:11	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/17/10 13:11	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/17/10 13:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/17/10 13:11	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/17/10 13:11	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/10 13:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/17/10 13:11	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/17/10 13:11	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130		1		04/17/10 13:11	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		04/17/10 13:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/17/10 13:11	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		04/17/10 13:11	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: DW-6      Lab ID: 9267107023      Collected: 04/08/10 14:25      Received: 04/09/10 16:45      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	ND	ug/L	5.0	1.2	1		04/17/10 12:52	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		04/17/10 12:52	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		04/17/10 12:52	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		04/17/10 12:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		04/17/10 12:52	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		04/17/10 12:52	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		04/17/10 12:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	2.7	1		04/17/10 12:52	1330-20-7	
o-Xylene	ND	ug/L	5.0	1.7	1		04/17/10 12:52	95-47-6	
4-Bromofluorobenzene (S)	98 %		70-130		1		04/17/10 12:52	460-00-4	
Dibromofluoromethane (S)	96 %		70-130		1		04/17/10 12:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		70-130		1		04/17/10 12:52	17060-07-0	
Toluene-d8 (S)	101 %		70-130		1		04/17/10 12:52	2037-26-5	

### ANALYTICAL RESULTS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Sample: WSW-2      Lab ID: 9267107024      Collected: 04/08/10 13:50      Received: 04/09/10 16:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	0.25	1		04/14/10 09:47	71-43-2	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/14/10 09:47	107-06-2	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/14/10 09:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		04/14/10 09:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		04/14/10 09:47	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		04/14/10 09:47	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/14/10 09:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/14/10 09:47	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/14/10 09:47	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/14/10 09:47	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		04/14/10 09:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		04/14/10 09:47	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/14/10 09:47	2037-26-5	

### QUALITY CONTROL DATA

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

QC Batch: MSV/10603      Analysis Method: EPA 8260  
QC Batch Method: EPA 8260      Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 9267107024

METHOD BLANK: 427892      Matrix: Water  
Associated Lab Samples: 9267107024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	04/14/10 02:36	
Benzene	ug/L	ND	1.0	04/14/10 02:36	
Ethylbenzene	ug/L	ND	1.0	04/14/10 02:36	
m&p-Xylene	ug/L	ND	2.0	04/14/10 02:36	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/14/10 02:36	
Naphthalene	ug/L	ND	1.0	04/14/10 02:36	
o-Xylene	ug/L	ND	1.0	04/14/10 02:36	
Toluene	ug/L	ND	1.0	04/14/10 02:36	
Xylene (Total)	ug/L	ND	2.0	04/14/10 02:36	
1,2-Dichloroethane-d4 (S)	%	102	70-130	04/14/10 02:36	
4-Bromofluorobenzene (S)	%	98	70-130	04/14/10 02:36	
Dibromofluoromethane (S)	%	100	70-130	04/14/10 02:36	
Toluene-d8 (S)	%	101	70-130	04/14/10 02:36	

LABORATORY CONTROL SAMPLE: 427893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.2	100	70-130	
Benzene	ug/L	50	49.0	98	70-130	
Ethylbenzene	ug/L	50	51.0	102	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	49.3	99	70-130	
Naphthalene	ug/L	50	50.6	101	70-130	
o-Xylene	ug/L	50	51.4	103	70-130	
Toluene	ug/L	50	49.6	99	70-130	
Xylene (Total)	ug/L	150	157	105	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

### QUALITY CONTROL DATA

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

QC Batch: MSV/10605 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 9267107007, 9267107008, 9267107009

METHOD BLANK: 427955 Matrix: Water  
Associated Lab Samples: 9267107007, 9267107008, 9267107009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/15/10 19:01	
Benzene	ug/L	ND	5.0	04/15/10 19:01	
Ethylbenzene	ug/L	ND	5.0	04/15/10 19:01	
m&p-Xylene	ug/L	ND	10.0	04/15/10 19:01	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/15/10 19:01	
Naphthalene	ug/L	ND	5.0	04/15/10 19:01	
o-Xylene	ug/L	ND	5.0	04/15/10 19:01	
Toluene	ug/L	ND	5.0	04/15/10 19:01	
Xylene (Total)	ug/L	ND	10.0	04/15/10 19:01	
1,2-Dichloroethane-d4 (S)	%	97	70-130	04/15/10 19:01	
4-Bromofluorobenzene (S)	%	98	70-130	04/15/10 19:01	
Dibromofluoromethane (S)	%	95	70-130	04/15/10 19:01	
Toluene-d8 (S)	%	100	70-130	04/15/10 19:01	

LABORATORY CONTROL SAMPLE: 427956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.4	93	70-130	
Benzene	ug/L	50	50.5	101	70-130	
Ethylbenzene	ug/L	50	47.6	95	70-130	
m&p-Xylene	ug/L	100	96.2	96	70-130	
Methyl-tert-butyl ether	ug/L	50	49.1	98	70-130	
Naphthalene	ug/L	50	50.4	101	70-130	
o-Xylene	ug/L	50	48.4	97	70-130	
Toluene	ug/L	50	50.0	100	70-130	
Xylene (Total)	ug/L	150	145	96	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 427957 427958

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		9266976001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,2-Dichloroethane	ug/L	ND	50	50	51.0	52.2	102	104	70-130	2	30
Benzene	ug/L	ND	50	50	48.3	53.8	97	108	70-130	11	30
Ethylbenzene	ug/L	ND	50	50	47.7	51.2	95	102	70-130	7	30
m&p-Xylene	ug/L	ND	100	100	95.4	101	95	101	70-130	5	30
Methyl-tert-butyl ether	ug/L	ND	50	50	54.5	56.3	109	113	70-130	3	30

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### QUALITY CONTROL DATA

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Parameter	9266976001		MS	MSD	427957		427958		% Rec Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Naphthalene	ug/L	ND	50	50	44.7	52.8	89	106	70-130	17	30
o-Xylene	ug/L	ND	50	50	48.4	51.0	97	102	70-130	5	30
Toluene	ug/L	ND	50	50	49.4	53.8	99	108	70-130	8	30
1,2-Dichloroethane-d4 (S)	%						105	104	70-130		
4-Bromofluorobenzene (S)	%						100	103	70-130		
Dibromofluoromethane (S)	%						101	99	70-130		
Toluene-d8 (S)	%						99	100	70-130		

### QUALITY CONTROL DATA

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

QC Batch: MSV/10606 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 9267107010, 9267107012

METHOD BLANK: 427971 Matrix: Water  
Associated Lab Samples: 9267107010, 9267107012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/17/10 11:43	
Benzene	ug/L	ND	5.0	04/17/10 11:43	
Ethylbenzene	ug/L	ND	5.0	04/17/10 11:43	
m&p-Xylene	ug/L	ND	10.0	04/17/10 11:43	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/17/10 11:43	
Naphthalene	ug/L	ND	5.0	04/17/10 11:43	
o-Xylene	ug/L	ND	5.0	04/17/10 11:43	
Toluene	ug/L	ND	5.0	04/17/10 11:43	
Xylene (Total)	ug/L	ND	10.0	04/17/10 11:43	
1,2-Dichloroethane-d4 (S)	%	104	70-130	04/17/10 11:43	
4-Bromofluorobenzene (S)	%	98	70-130	04/17/10 11:43	
Dibromofluoromethane (S)	%	99	70-130	04/17/10 11:43	
Toluene-d8 (S)	%	98	70-130	04/17/10 11:43	

LABORATORY CONTROL SAMPLE: 427972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.5	99	70-130	
Benzene	ug/L	50	50.1	100	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	50.7	101	70-130	
Naphthalene	ug/L	50	55.5	111	70-130	
o-Xylene	ug/L	50	51.5	103	70-130	
Toluene	ug/L	50	51.2	102	70-130	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 427973 427974

Parameter	Units	9267072001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result					
1,2-Dichloroethane	ug/L	ND	50	50.1	50	51.4	100	103	70-130	2	30
Benzene	ug/L	ND	50	51.3	50	50.0	103	100	70-130	3	30
Ethylbenzene	ug/L	ND	50	49.5	50	47.7	99	95	70-130	4	30
m&p-Xylene	ug/L	ND	100	100	100	96.7	100	96	70-130	4	30
Methyl-tert-butyl ether	ug/L	ND	50	53.1	50	55.1	104	108	70-130	4	30

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### QUALITY CONTROL DATA

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Parameter	427973		MS		427974		MS		% Rec	% Rec	Max RPD	Qual
	Units	9267072001 Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Naphthalene	ug/L	ND	50	50	46.7	56.5	93	113	70-130	19	30	
o-Xylene	ug/L	ND	50	50	50.6	49.0	101	98	70-130	3	30	
Toluene	ug/L	ND	50	50	51.8	50.5	103	100	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%						102	106	70-130			
4-Bromofluorobenzene (S)	%						103	101	70-130			
Dibromofluoromethane (S)	%						99	102	70-130			
Toluene-d8 (S)	%						101	100	70-130			

### QUALITY CONTROL DATA

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

QC Batch: MSV/10609 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 9267107001, 9267107003, 9267107005, 9267107011, 9267107014

METHOD BLANK: 428194 Matrix: Water

Associated Lab Samples: 9267107001, 9267107003, 9267107005, 9267107011, 9267107014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/17/10 11:25	
Benzene	ug/L	ND	5.0	04/17/10 11:25	
Ethylbenzene	ug/L	ND	5.0	04/17/10 11:25	
m&p-Xylene	ug/L	ND	10.0	04/17/10 11:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/17/10 11:25	
Naphthalene	ug/L	ND	5.0	04/17/10 11:25	
o-Xylene	ug/L	ND	5.0	04/17/10 11:25	
Toluene	ug/L	ND	5.0	04/17/10 11:25	
Xylene (Total)	ug/L	ND	10.0	04/17/10 11:25	
1,2-Dichloroethane-d4 (S)	%	102	70-130	04/17/10 11:25	
4-Bromofluorobenzene (S)	%	97	70-130	04/17/10 11:25	
Dibromofluoromethane (S)	%	99	70-130	04/17/10 11:25	
Toluene-d8 (S)	%	98	70-130	04/17/10 11:25	

LABORATORY CONTROL SAMPLE: 428195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.5	99	70-130	
Benzene	ug/L	50	50.1	100	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	50.7	101	70-130	
Naphthalene	ug/L	50	55.5	111	70-130	
o-Xylene	ug/L	50	51.5	103	70-130	
Toluene	ug/L	50	51.2	102	70-130	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

**QUALITY CONTROL DATA**

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

QC Batch: MSV/10629 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 9267107002, 9267107013, 9267107015, 9267107016, 9267107017, 9267107018, 9267107019, 9267107020, 9267107021, 9267107022, 9267107023

METHOD BLANK: 430351 Matrix: Water  
Associated Lab Samples: 9267107002, 9267107013, 9267107015, 9267107016, 9267107017, 9267107018, 9267107019, 9267107020, 9267107021, 9267107022, 9267107023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/17/10 11:39	
Benzene	ug/L	ND	5.0	04/17/10 11:39	
Ethylbenzene	ug/L	ND	5.0	04/17/10 11:39	
m&p-Xylene	ug/L	ND	10.0	04/17/10 11:39	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/17/10 11:39	
Naphthalene	ug/L	ND	5.0	04/17/10 11:39	
o-Xylene	ug/L	ND	5.0	04/17/10 11:39	
Toluene	ug/L	ND	5.0	04/17/10 11:39	
Xylene (Total)	ug/L	ND	10.0	04/17/10 11:39	
1,2-Dichloroethane-d4 (S)	%	97	70-130	04/17/10 11:39	
4-Bromofluorobenzene (S)	%	98	70-130	04/17/10 11:39	
Dibromofluoromethane (S)	%	98	70-130	04/17/10 11:39	
Toluene-d8 (S)	%	101	70-130	04/17/10 11:39	

LABORATORY CONTROL SAMPLE: 430352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.0	98	70-130	
Benzene	ug/L	50	48.4	97	70-130	
Ethylbenzene	ug/L	50	48.6	97	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	48.4	97	70-130	
Naphthalene	ug/L	50	49.8	100	70-130	
o-Xylene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	49.5	99	70-130	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 430353 430354

Parameter	Units	9267016011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	56.5	55.2	107	104	70-130	2	30
Benzene	ug/L	ND	50	50	55.4	54.3	111	109	70-130	2	30
Ethylbenzene	ug/L	ND	50	50	53.0	52.8	106	105	70-130	0	30

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### QUALITY CONTROL DATA

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

Parameter	Units	430353		430354		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		9267016011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
m&p-Xylene	ug/L	ND	100	100	108	107	108	107	70-130	1	30	
Methyl-tert-butyl ether	ug/L	9.3	50	50	65.8	65.1	113	112	70-130	1	30	
Naphthalene	ug/L	ND	50	50	58.1	65.8	113	129	70-130	13	30	
o-Xylene	ug/L	ND	50	50	54.6	54.1	109	108	70-130	1	30	
Toluene	ug/L	ND	50	50	56.7	55.9	113	112	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						106	106	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Dibromofluoromethane (S)	%						101	101	70-130			
Toluene-d8 (S)	%						100	99	70-130			

### QUALITY CONTROL DATA

Project: Interstate Truck Term 00332

Pace Project No.: 9267107

QC Batch: MSV/10655 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 9267107004, 9267107006

METHOD BLANK: 430592 Matrix: Water

Associated Lab Samples: 9267107004, 9267107006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/19/10 11:05	
Benzene	ug/L	ND	5.0	04/19/10 11:05	
Ethylbenzene	ug/L	ND	5.0	04/19/10 11:05	
m&p-Xylene	ug/L	ND	10.0	04/19/10 11:05	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/19/10 11:05	
Naphthalene	ug/L	ND	5.0	04/19/10 11:05	
o-Xylene	ug/L	ND	5.0	04/19/10 11:05	
Toluene	ug/L	ND	5.0	04/19/10 11:05	
Xylene (Total)	ug/L	ND	10.0	04/19/10 11:05	
1,2-Dichloroethane-d4 (S)	%	98	70-130	04/19/10 11:05	
4-Bromofluorobenzene (S)	%	97	70-130	04/19/10 11:05	
Dibromofluoromethane (S)	%	95	70-130	04/19/10 11:05	
Toluene-d8 (S)	%	96	70-130	04/19/10 11:05	

LABORATORY CONTROL SAMPLE: 430593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.4	91	70-130	
Benzene	ug/L	50	47.6	95	70-130	
Ethylbenzene	ug/L	50	47.6	95	70-130	
m&p-Xylene	ug/L	100	96.6	97	70-130	
Methyl-tert-butyl ether	ug/L	50	47.1	94	70-130	
Naphthalene	ug/L	50	56.9	114	70-130	
o-Xylene	ug/L	50	48.5	97	70-130	
Toluene	ug/L	50	49.2	98	70-130	
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

## QUALIFIERS

Project: Interstate Truck Term 00332  
Pace Project No.: 9267107

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

### ANALYTE QUALIFIERS

1g Non homogenous sample.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

Section A Required Client Information: Company: **SCDHEC-UST** Address: **2600 Bull St Columbia, SC 29201** Email To: **Columbia, SC 29201** Phone: **803-673-0246** Fax: **803-596-6243** Requested Due Date/TAT: \_\_\_\_\_

Section B Required Project Information: Report To: **D. Thomas** Copy To: \_\_\_\_\_ Purchase Order No.: **719454** Project Name: **Interstate Tank Terminal** Project Number: **37620/37619** Project Name: \_\_\_\_\_

Section C Invoice Information: Attention: **Fincher (D. Thomas)** Company Name: **SCDHEC-UST** Address: \_\_\_\_\_ Page Quote Reference: \_\_\_\_\_ Page Project Manager: **E. Spencer** Page Profile #: \_\_\_\_\_

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

Page: **1** of **2**  
**1356829**

ITEM #	Section D Required Client Information <b>SAMPLE ID</b> (A-Z, 0-9/-/.) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
					DATE	TIME										
1	MU-1		WT C		4/8	1630	3			X		No Odor	081			
2	MU-2		WT C		4/8	1610	3			X		No Odor	082			
3	MU-3		WT C		4/8	1640	3			X		No Odor	083			
4	MU-4R											No Odor	084			
5	MU-5R											No Odor	085			
6	MU-6											No Odor	086			
7	MU-7											No Odor	087			
8	MU-8											No Odor	088			
9	MU-9											No Odor	089			
10	MU-10											No Odor	090			
11	MU-11											No Odor	091			
12	MU-12											No Odor	092			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Report values	Adam Kelly / M&E	4/8	1630	Adam Kelly / Phase	4/8/10	1120	No Odor
	Adam Kelly / M&E	4/9/10	1645	Adam Kelly / Phase	4/9/10	1145	No Odor

**ORIGINAL**

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed (MM/DD/YY): **01/08/10**

Temp in °C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_

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

F-FALL-Q-020rev 07, 15-May-2007

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

Section A Required Client Information: Company: **SCDHEC-UST** Address: **2600 Ball St Columbia, SC 29201** Phone: **803-543-6200** Fax: **803-596-6203** Requested Due Date/TAT: \_\_\_\_\_

Section B Required Project Information: Report To: **D. Thomas** Copy To: \_\_\_\_\_ Purchase Order No.: **719452** Project Name: **1st Street Tank Terminal** Project Number: **37620/37614** Project Number: \_\_\_\_\_

Section C Invoice Information: Attention: **Finner (D. Thomas)** Company Name: **SCDHEC-UST** Address: \_\_\_\_\_ Page Quote Reference: \_\_\_\_\_ Page Project Manager: **R. Spaul** Page Profile #: \_\_\_\_\_

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

Page: **2** of **2**  
**1356830**

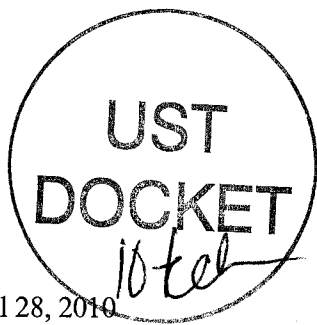
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX 1 CODE Drinking Water DW Waste Water WT Waste Water Product P Soil/Solid SL Oil OL Wipe AR Air TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives		Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
					COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME			H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>				
1	MU-13		WT C		4/8	1410	3				BTEX, Napth, MTBE, 1,2 DCA		No odor	013
2	MU-14		WT C		4/8	1420	3						No odor	014
3	MU-15				4/8	1420	3						No odor	015
4	MU-18				4/8	1440	3						No odor	016
5	MU-19				4/8	1440	3						No odor	017
6	MU-20				4/8	1650	3						No odor	018
7	DW-1				4/8	1700	3						No odor	019
8	DW-2				4/8	1600	3						No odor	020
9	DW-3				4/8	1500	3						No odor	021
10	DW-4				4/8	1100	3						No odor	022
11	DW-6				4/8	1425	3						No odor	023
12	WSW-2		WT C		4/8	1350	3						No odor	024

ADDITIONAL COMMENTS: **Report j-walks**  
RELINQUISHED BY / AFFILIATION: **Adam Kelly Project** DATE: **4/8/10** TIME: **1800**  
ACCEPTED BY / AFFILIATION: **Ed Smith Over** DATE: **4/10/10** TIME: **1645**  
REGULATORY AGENCY:  NPDES  GROUND WATER  DRINKING WATER  OTHER \_\_\_\_\_  
Site Location:  UST  RCRA STATE: **SC**

ORIGINAL  
SAMPLER NAME AND SIGNATURE: **Adam Kelly Project**  
PRINT Name of SAMPLER: **Adam Kelly**  
SIGNATURE of SAMPLER: **A. Kelly**  
DATE Signed (MM/DD/YY): **04/08/10**  
Temp in °C: **20**  
Received on Ice (Y/N): **Y**  
Custody Sealed Cooler (Y/N): **Y**  
Samples Intact (Y/N): **Y**

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





**BLE** INC.  
**BUNNELL-LAMMONS ENGINEERING, INC.**  
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

April 28, 2010

South Carolina Department of Health and Environmental Control  
Bureau of Underground Storage Tank Management  
2600 Bull Street  
Columbia, SC 29201-1708



Attention: Mr. Joel Padgett, P.G.  
Hydrogeologist

Subject: **Report of Water Supply Well Abandonment  
Interstate Truck Terminal, UST Permit #00332  
Highways 301 and 321  
Ulmer, Allendale County, South Carolina  
CA # 37820; Bid #IFB-31861-6/21/07-EMW; PO #690443  
BLE Project No. J09-5420-97**

Dear Mr. Padgett:

On behalf of the South Carolina Department of Health and Environmental Control (SCDHEC), Bunnell-Lammons Engineering, Inc. (BLE) has attempted the water supply well abandonment at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter received by BLE on February 18, 2010. The results of our activities are provided herein.


#### WATER SUPPLY WELL ABANDONMENT

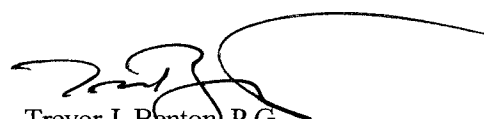
The water-supply well was unable to be located on the date of our site visit, April 15, 2010. The abandonment attempt was performed by Landprobe Environmental and Geotechnical Drilling Services of Greenville, South Carolina. The caretaker of the property stated that the well had been gone for several years. Additionally, he stated that they will be doing some grading work in a few weeks and will notify BLE if the well is located.

#### CLOSING

If you have any questions concerning this project, please do not hesitate contacting us at (864) 288-1265.

Sincerely,  
**BUNNELL-LAMMONS ENGINEERING, INC.**

  
Toby P. Stugg  
Environmental Administrator

  
Trevor J. Benton, P.G.  
Project Hydrogeologist

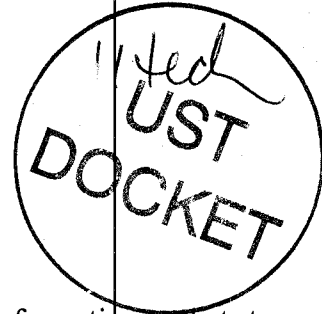


C. Earl Hunter, Commissioner

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

SEP 30 2010

BRYAN SHANE  
 MIDLANDS ENVIRONMENTAL CONSULTANTS INC  
 P O BOX 854  
 LEXINGTON SC 29071



Re: Bid # IFB-34007-6/3/08-EMW; PO# 4500011317  
 Notice to Proceed

Dear Mr. Shane:

Based on the award of the referenced bid package, enclosed are the information packets to conduct assessments at several facilities. The packets contain the necessary approval for work to begin. The facilities have been assigned Cost Agreement (CA) numbers as listed below. Please reference the CA numbers and Purchase Order # 4500011317 on the appropriate invoices submitted for payment against the facilities. As specified in the referenced bid, **the completed invoice forms and associated reports (include contract certification number) are expected on or before the designated due date (see below).**

UST Permit#	Facility	County	Release #	Work Scope	Due Date*	CA #	Approved Amt
09322	Smiths Grocery	York	1	Monitoring Well Installation	60 Days	39705	\$10,750.00
02233	Danny Melton Amoco	Chesterfield	1	Monitoring Well Installation	60 Days	39453	\$325.00
05694	Copelands Service Station	Lauens	1	Monitoring Well Installation	60 Days	39770	\$7,860.00
00332	Interstate Truck Stop	Allendale	2	Monitoring Well Installation	60 Days	39471	\$2,000.00
11702	Colonel Creek Landing	Fairfield	1	Monitoring Well Installation	60 Days	39701	\$2,841.00

\*From receipt of letter

Midland's Environmental Consultants, Inc. will perform services at the sites on behalf of the site's UST owners; however, payments will be made from the SUPERB Account. The site's UST owners have no obligation for payment for this scope of work. **Please note, if there are any changes in the established cost agreement amounts (e.g., additional water supply wells sampled, additional well footage, etc.) contact the site's project manager for technical and/or financial approval. Failure to do so prior to submittal of invoice may result in delay of payment.**

The Bureau grants pre-approval for transportation of drums of virgin petroleum contaminated soil and drums of groundwater from the referenced site to a permitted treatment facility. The contaminated soil and/or groundwater must be properly stored in labeled 55-gallon drums or equivalent containers.

The contaminated soil and/or groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included as an appendix to the final report. Please note, transportation of waste oil contaminated soil must receive pre-approval from the Division of Waste Assessment & Emergency Response.

Please provide this office with a schedule of drilling dates and coordinate all work with me before commencing work at the facility. If you have any questions or need further assistance, please contact me at (803) 896-6633.

Sincerely,



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

enc.: Monitoring Well Approvals (MWA)  
Approved Cost Agreements (ACA)  
Information Packets

cc: Cathleen Ridgley, UST Program (w/out enc)  
Technical Files (w/ copy of MWA, ACA, & Site Map)

# Approved Cost Agreement 39471

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

KOONJT

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		A EQUIPMENT	1.0000	100.00	100.00
		B PERSONNEL	2.0000	100.00	200.00
09 WELL INSTALLATION		B WATER TABLE (DRILLED)	70.0000	20.00	1,400.00
16 SUBSEQUENT SURVEY		SUBSEQUENT SURVEY	1.0000	50.00	50.00
17 DISPOSAL		A1 WASTEWATER - PURGING/SAMPLING	1.0000	50.00	50.00
		C SOIL (TREATMENT/DISPOSAL)	2.0000	50.00	100.00
23 EFR		D SITE RECONNAISSANCE	1.0000	100.00	100.00
			<b>Total Amount</b>		<b>2,000.00</b>



C. Earl Hunter, Commissioner

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

## Monitoring Well Approval

Approval is hereby granted to: **Midlands Environmental Consultants, Inc.**

On behalf of: **Julius Moody**

Facility: **Interstate Truck Stop**

**Near intersection of US Hwy 301 and US Hwy 321, Ulmer, SC**

UST Permit #: **00332**

County: **Allendale**

This approval is for the installation of two (2) groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

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

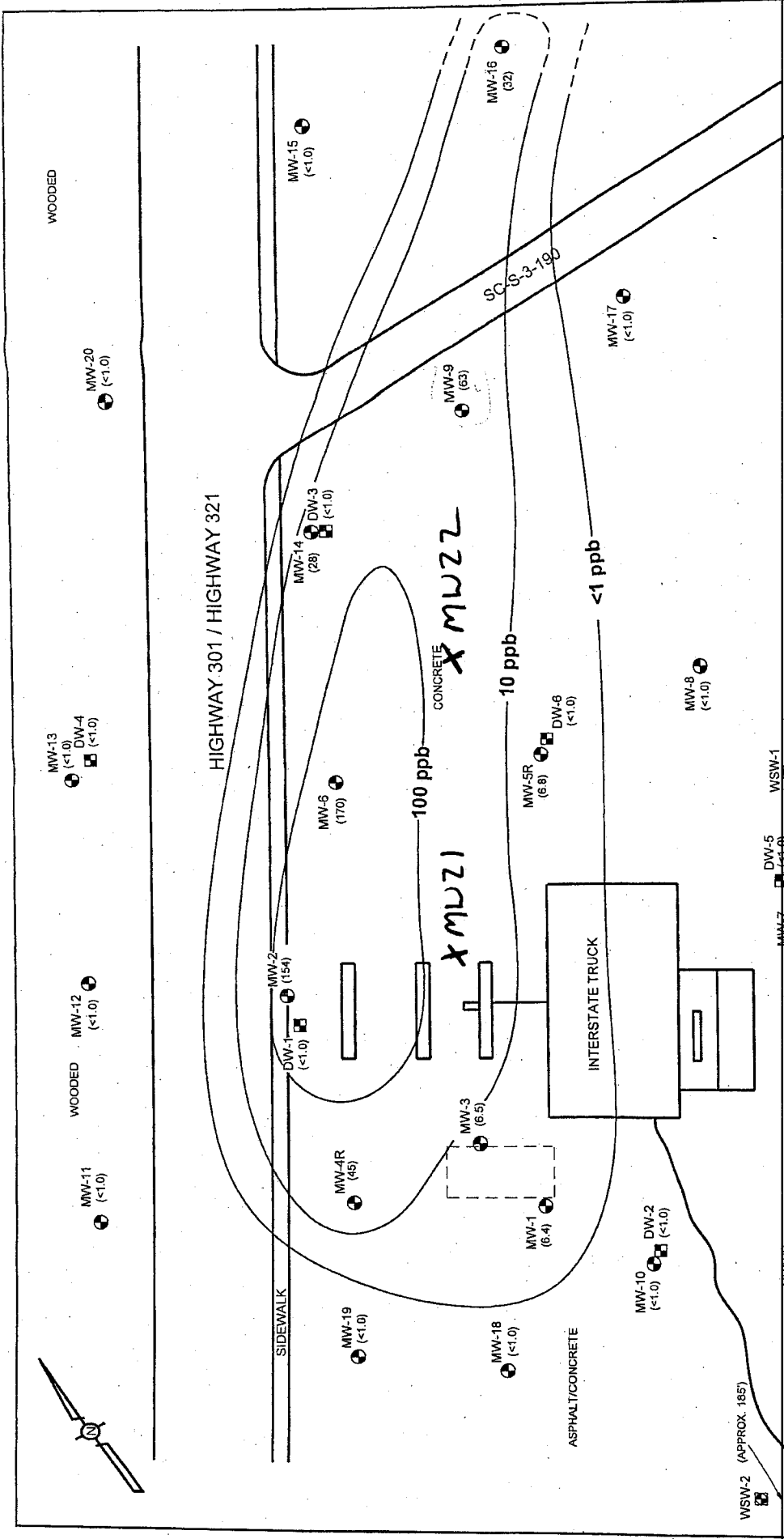
1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to the project manager (tel:803-896-6649 or e-mail: [koonjt@dhec.sc.gov](mailto:koonjt@dhec.sc.gov)) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Departmental approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

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

Date of Issuance: 7/13/2010

Approval: UMW-23779

Justin Koon, Engineer Associate  
Corrective Action Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management



**LEGEND**

- MW-7 (1.0) SHALLOW MONITORING WELL
- DW-2 (1.0) DEEP MONITORING WELL
- WSW-1 (1.0) WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND

APPROXIMATE SCALE IN FEET

0 40 80

CONSULTECH ENVIRONMENTAL, L.L.C.  
 Environmental Consulting and Engineering  
 © 1998  
 Drawing prepared under the supervision of a registered engineer.

DRAWN: MAC	DATE: 12/20/08
SITE ID # 00332	PROJECT: INTERSTATE TRUCK
PROJECT NO.: C-05-05-032	LOCATION: ULMER, SOUTH CAROLINA

CAD FILE # C-05-05-032.dwg

**FIGURE 7**  
 DISSOLVED BENZENE  
 ISOCENTRATION MAP  
 (DECEMBER 10, 2008)

00332

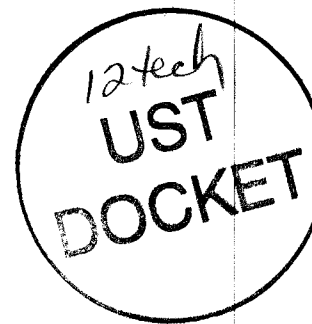


October 26, 2010

Mr. Justin Koon, Engineer Associate  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land & Waste Management  
South Carolina Department of Health and  
Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: Report of Monitoring Well Installation  
Interstate Truck Stop  
Intersection of U.S. Highway 301/321 & SC S-3-190  
Ulmer, South Carolina  
SCDHEC Site ID# 00332, CA # 39471  
MECI Project Number 10-3038  
Certified Site Rehabilitation Contractor UCC-0009



Dear Mr. Koon,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Monitoring Well Installation, Groundwater Sampling, and Chemical Analyses for the subject site. This report describes assessment activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

#### PROJECT INFORMATION

The subject site (Interstate Truck Stop) is located at the intersection of U.S. Highway 301/321 and SC S-3-190 in Ulmer, Allendale County, South Carolina (see Figure 1). The site consists of a vacant lot which is occupied by a former gasoline service station. The site currently maintains three-4,000 gallon diesel underground storage tanks (UST's), two-6,000 gallon gasoline UST's, one-6,000 gallon diesel UST, one-8,000 gallon gasoline UST, and two-8,000 gallon diesel UST's. All UST's currently maintained onsite have been rendered non-usable according to the South Carolina Underground Storage Tank Registry. The South Carolina Department of Health and Environmental Control (SCDHEC) reported a release of petroleum product in June of 2002 and confirmed the release in October of 2002.

The above project information is based on SCDHEC files.

### FIELD EXPLORATION

Field exploration conducted at the site included:

- construction of two groundwater monitoring wells; and
- a subsequent survey to locate the newly installed monitoring wells.

The monitoring well locations were selected based on SCDHEC project manager instructions, existing site conditions, and drilling accessibility.

### MONITORING WELL INSTALLATION

On October 22, 2010, two single cased, watertable bracketing monitoring wells were installed at the subject site. These wells were installed by Geologic Exploration, of Statesville, North Carolina (S.C. Driller Certification: James Hess # D 01929). These single cased monitoring wells were installed using an ATV-mounted drilling rig employing 7.5-inch outer diameter hollow stem augers to construct the boreholes. The following table presents new well installation details:

Well Number	Screened Interval (ft)	Total Depth (ft)
MW-21	25.0-35.0	35.0
MW-22	25.0-35.0	35.0

The soils encountered during drilling activities consisted of fine to coarse grained silty sands and clays of the Atlantic Coastal Plain Province. The soils encountered in this area are the product of successive advances and retreats of the ocean over the past several million years. Representative portions of soil samples were screened with a Photo Ionization Detector (PID) and classified by MECI personnel. Test boring records showing soil descriptions and screening result are attached.

Based on PID readings and lack on access to spread soils onsite, soil cuttings were transported to Waste Management/Richland County Landfill, Elgin, SC. A total of 0.95 tons was disposed of in this manner. A disposal manifest for these soils is attached at the end of this report.

Following completion of the monitoring well, the well was developed by bailing until it was determined to be functioning properly and turbidity was reduced. Test Boring Records showing soil descriptions and monitoring well installation details are attached. The drummed purge water was treated by MECI personnel using a granular activated carbon drum. A total of one (1) drum of purge/development water was disposed of in this manner. A disposal manifest for the drummed purge water is attached at the end of this report.



## SITE SURVEY

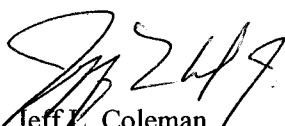
Following monitoring well installation, a subsequent survey was conducted by MECI personnel to locate the vertical and horizontal position of the newly installed monitoring wells. A top of casing (TOC) elevation of 102.22 for DW-1 was used as a benchmark for surveying purposes. The TOC elevation for MW-21 was determined to be 103.77 and the TOC elevation for MW-22 was determined to be 101.67..


## QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report is intended for the sole use by the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

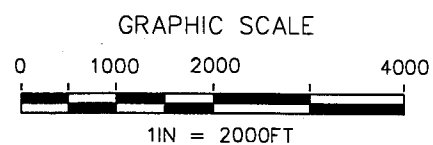
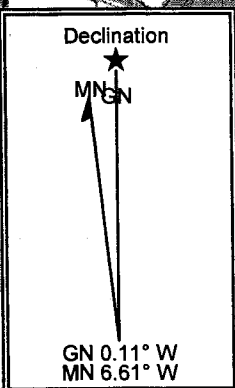
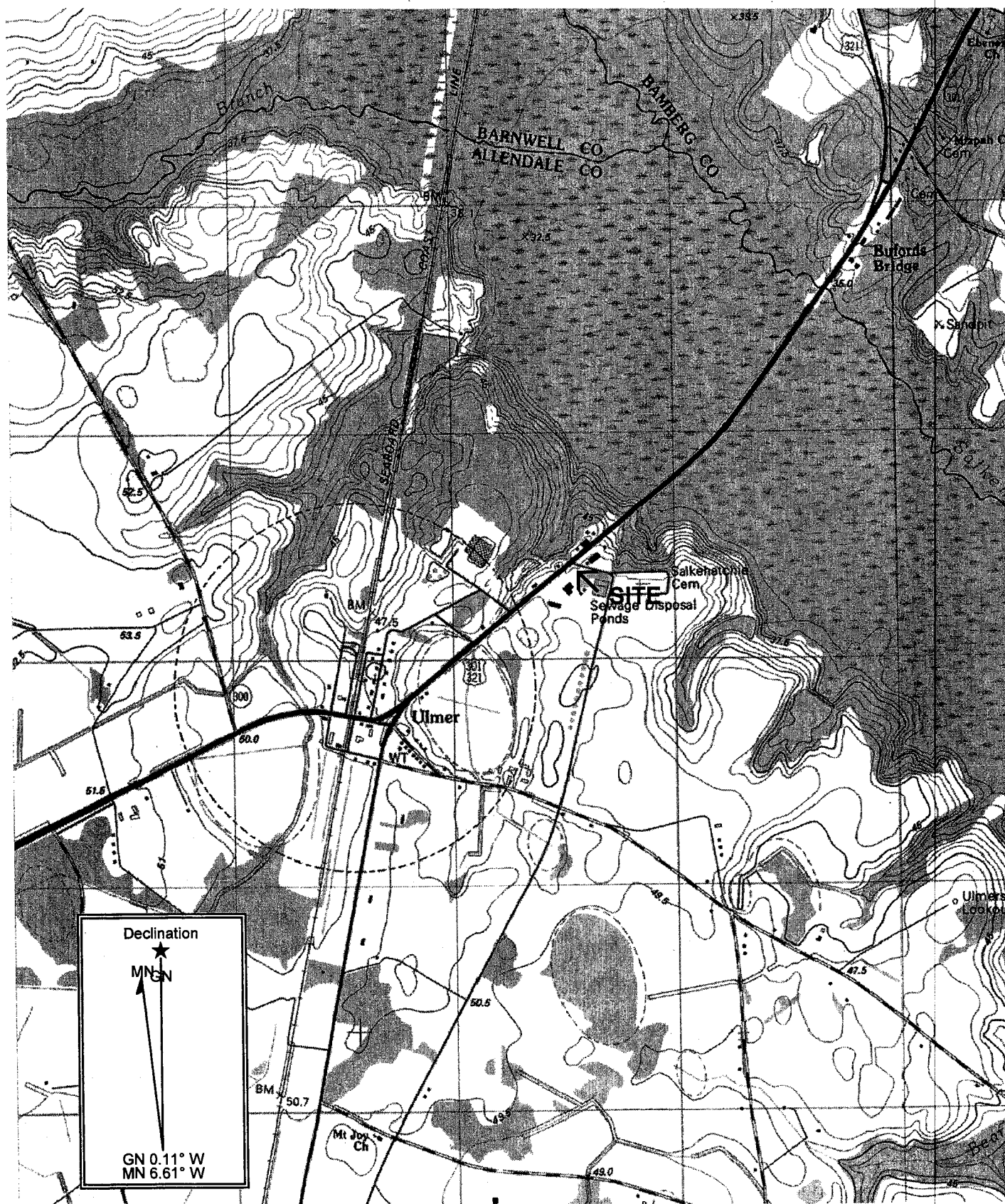
Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Jeff L. Coleman  
Senior Scientist

  
Bryan T. Shane, P.G.  
Principal Geologist

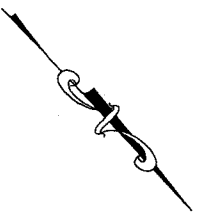
Attachments

**FIGURES**



Reference: Sycamore, South Carolina  
USGS 7.5 Min. Quad  
Contour Interval - 1.5 Meters

<p>Midlands Environmental Consultants, Inc.</p>	<p>Site Location</p>
<p>Interstate Truck Stop Intersection Hwy. 301/321 &amp; SC S-3-190, Ulmer, SC SCDHEC Site ID# 00332</p>	
<p>Figure 1</p>	<p>MECI 10-3038</p>



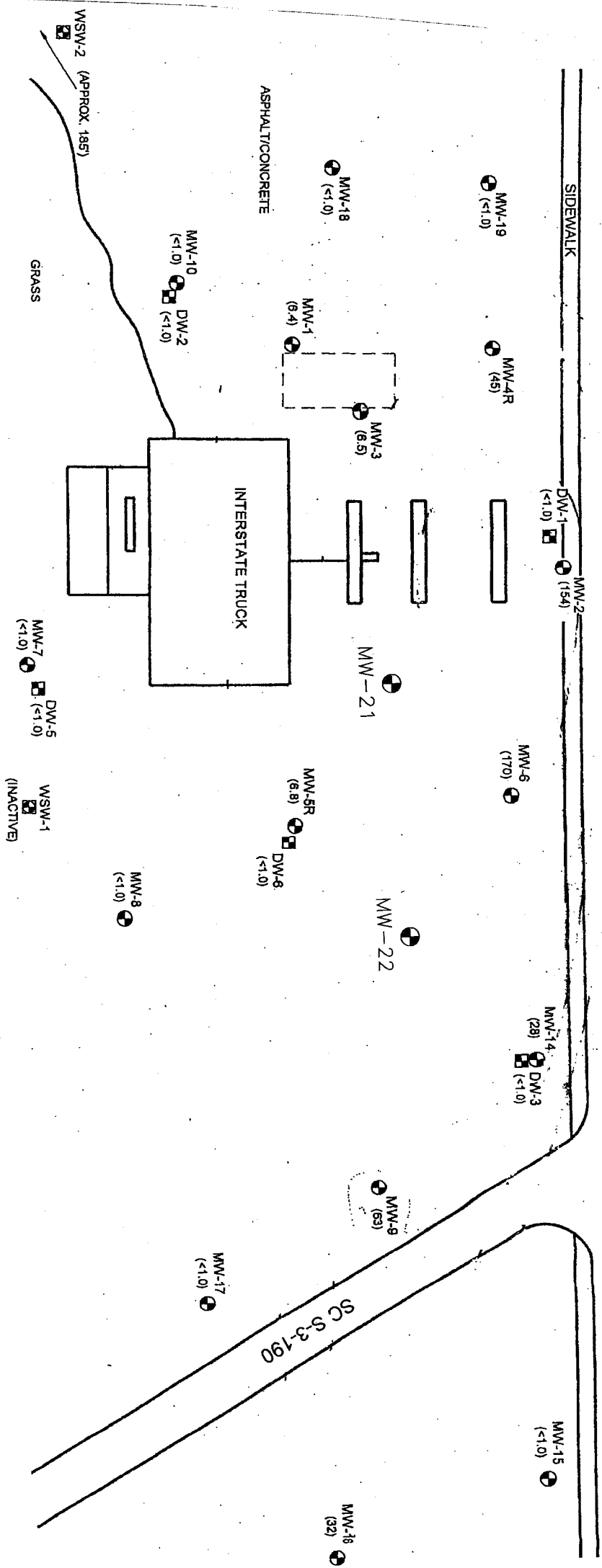
- MW-11 (1.0)
- MW-12 (1.0)
- MW-13 (1.0) DW-4 (1.0)
- MW-20 (1.0)

HIGHWAY 301 / HIGHWAY 321

- Explanation:**
- MW-7 (1.0) SHALLOW MONITORING WELL CONTAMINANT CONCENTRATION (ppb)
  - DW-2 (1.0) DEEP MONITORING WELL CONTAMINANT CONCENTRATION (ppb)
  - WSW-1 WATER SUPPLY WELL
  - FORMER UST PIT
  - DISPENSER ISLAND

Groundwater Elevation Data			
Well #	Depth to Water (feet)	Well Head Elevation	Groundwater Elevation
MW-21	28.68	103.77	75.09
MW-22	27.36	101.67	74.31

Notes: Depth to groundwater measured on October 25, 2010.



**Site Features**

Interstate Truck Stop  
 Ulmer, South Carolina  
 SCDHEC Site ID # 00332

**Midlands Environmental Consultants, Inc.**

JOB NO. 10-3038  
 DATE October 26, 2010

Figure 2

Drawing Based on MECI Field Notes and Map Generated by  
 Consultech Environmental, LLC Dated 12/30/08.

GRAPHIC SCALE  
 0 15 30 45 60  
 1IN = 30FT  
 ALL LOCATIONS ARE APPROXIMATE

**TEST BORING AND MONITORING WELL INSTALLATION RECORDS**

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot																
				0	5	10	20	40	60	80	100									
0	Concrete with Stone Base																			
0	COASTAL PLAIN SEDIMENT: Brown, Silty Fine to Medium SAND																			
5	Red, Micaceous Clayey Fine to Medium SAND	0.7																		
10		6.1																		
15		1,336																		
20	Red and Brown, Micaceous Fine to Medium SAND	618.9																		
25	Brown, Fine to Medium SAND	290.2																		
30	Tan, Medium to Coarse SAND	102.3																		
35	Boring Terminated at 35.0 Feet. Monitoring Well Installed to 35.0 Feet Below Ground Surface (BGS). Groundwater Measured at 28.68 Feet Below Top of Casing on 10/22/10.	2,049																		

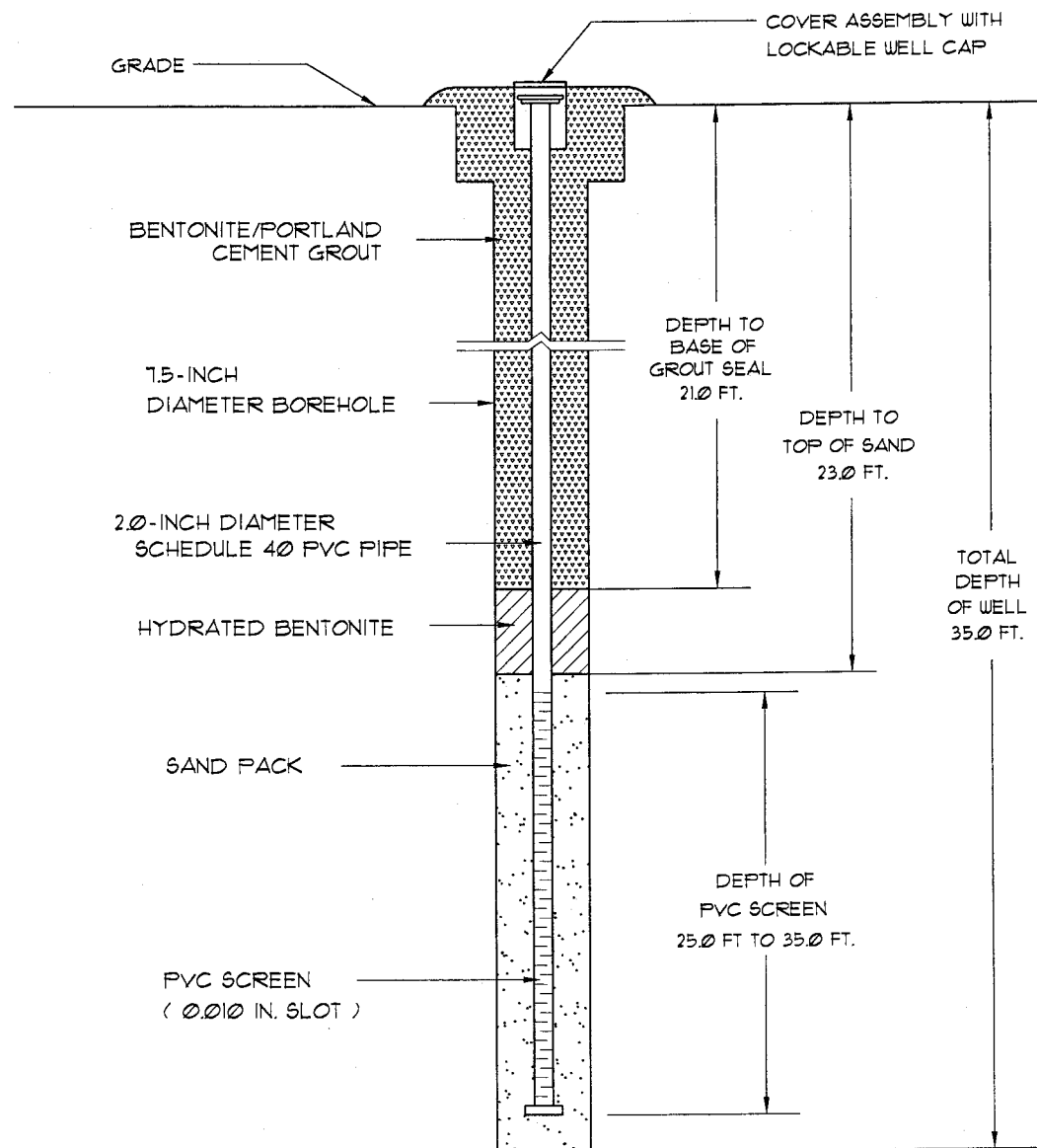
TEST BORING RECORD  
 Interstate Truck Stop  
 Ulmer, South Carolina  
 SCDHEC Site ID# 00332  
 MECI Project Number 10-3038

Boring Number:	MW-21
Date Drilled:	10/22/10
Drilled By:	Geologic Exploration Inc.
Logged By:	C. Lashley

Prepared By:  
 Midlands  
 Environmental  
 Consultants, Inc.  
 235-B Dooley Road  
 Lexington, South Carolina 29073  
 (803) 808-2043 fax: 808-2048

# MONITORING WELL INSTALLATION RECORD

Interstate Truck Stop  
 Ulmer, South Carolina  
 SCDHEC Site ID# 00332  
 MECI Project Number 10-3038



Well Number:	MW-21
Date Drilled:	10/22/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Hess	S.C. I.D. #: D 01929
Logged By:	C. Lashley

Prepared By:

**Midlands  
 Environmental  
 Consultants, Inc.**

235-B Dooley Road  
 Lexington, South Carolina 29013  
 (803) 808-2043 Fax: 808-2048

Depth (Feet)	Description	PID PPM	Well Diagram	Penetration Blows Per Foot																
				0	5	10	20	40	60	80	100									
	Concrete with Stone Base																			
	COASTAL PLAIN SEDIMENT: Tan, Micaceous Silty Fine to Medium SAND																			
5	Red, Micaceous Clayey Fine to Medium SAND	6.3																		
10		9.4																		
15	Orange, Micaceous Silty Fine to Medium SAND	32.4																		
20	Red and Brown, Micaceous Silty Fine to Medium SAND	20.1																		
25	Tan, Micaceous Fine to Medium SAND	20.3																		
30	Red and Brown, Micaceous Fine to Medium SAND	8.6																		
35	Boring Terminated at 35.0 Feet. Monitoring Well Installed to 35.0 Feet Below Ground Surface (BGS). Groundwater Measured at 27.36 Feet Below Top of Casing on 10/22/10.	9.0																		

TEST BORING RECORD  
 Interstate Truck Stop  
 Ulmer, South Carolina  
 SCDHEC Site ID# 00332  
 MECI Project Number 10-3038

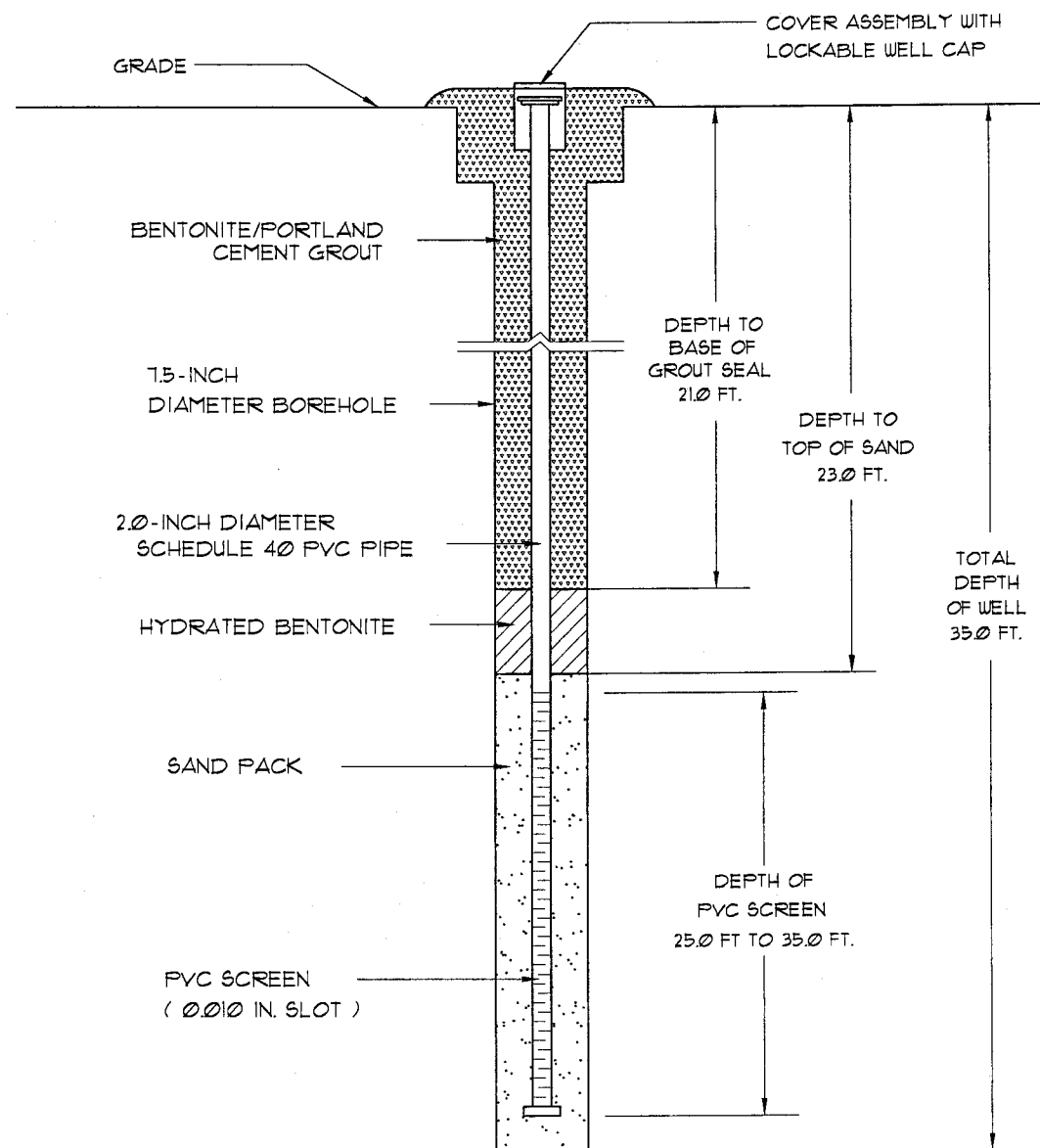
Boring Number: MW-22  
 Date Drilled: 10/22/10  
 Drilled By: Geologic  
 Exploration Inc.  
 Logged By: C. Lashley

Prepared By:  
 Midlands  
 Environmental  
 Consultants, Inc.  
 235-B Dooley Road  
 Lexington, South Carolina 29013  
 (803) 808-2043 fax: 808-2048



# MONITORING WELL INSTALLATION RECORD

Interstate Truck Stop  
 Ulmer, South Carolina  
 SCDHEC Site ID# 00332  
 MECI Project Number 10-3038



Well Number:	MW-22
Date Drilled:	10/22/10
Drilled By:	Geologic Exploration Inc.
Driller: J. Hess	S.C. I.D. #: D 01929
Logged By:	C. Lashley

Prepared By:

**Midlands**  
**E** Environmental  
**C** Consultants, Inc.

235-B Dooley Road  
 Lexington, South Carolina 29073  
 (803) 808-2043 fax: 808-2048



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

<b>1. WELL OWNER INFORMATION:</b> Name: MOODY, JULIUS (last) (first) Address: 1375 CAPERNAUM ROAD City: BAMBERG State: SC Zip: 29003 Telephone: Work: Home:			<b>7. PERMIT NUMBER:</b> 00332																																															
<b>2. LOCATION OF WELL:</b> SC COUNTY: ALLENDALE Name: INTERSTATE TRUCK STOP Street Address: HIGHWAY 321 @ HIGHWAY 301 City: ULMER Zip: 29849 Latitude: Longitude:			<b>8. USE:</b> <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement																																															
<b>3. PUBLIC SYSTEM NAME:</b> PUBLIC SYSTEM NUMBER:			<b>9. WELL DEPTH (completed)</b> Date Started: 10/22/10 35.0 ft. Date Completed: 10/22/10																																															
<b>4. ABANDONMENT:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Grouted Depth: from _____ ft. to _____ ft.			<b>10. CASING:</b> <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam.: 2 INCH Type: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other 2.0 in. to 25.0 ft. depth _____ in. to _____ ft. depth Height: Above <input type="checkbox"/> Below <input type="checkbox"/> Surface 0.0 ft. Weight _____ lb./ft. Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
<b>11. SCREEN:</b> Type: SCH 40 PVC Diam.: 2 INCH Slot/Gauge: .010 Length: 10.0 FEET Set Between: 25.0 ft. and 35.0 ft. NOTE: MULTIPLE SCREENS ____ ft. and _____ ft. USE SECOND SHEET Sieve Analysis <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No			<b>12. STATIC WATER LEVEL</b> 27.0 ft. below land surface after 24 hours																																															
<table border="1"><thead><tr><th>Formation Description</th><th>*Thickness of Stratum</th><th>Depth to Bottom of Stratum</th></tr></thead><tbody><tr><td>BROWN FILL</td><td>7.0</td><td>7.0</td></tr><tr><td>RED SILT</td><td>18.0</td><td>25.0</td></tr><tr><td>TAN SAND</td><td>10.0</td><td>35.0</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>			Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum	BROWN FILL	7.0	7.0	RED SILT	18.0	25.0	TAN SAND	10.0	35.0																																		<b>13. PUMPING LEVEL</b> Below Land Surface. _____ ft. after _____ hrs. Pumping _____ G.P.M. Pumping Test: <input type="checkbox"/> Yes (please enclose) <input type="checkbox"/> No Yield: _____		
Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum																																																
BROWN FILL	7.0	7.0																																																
RED SILT	18.0	25.0																																																
TAN SAND	10.0	35.0																																																
<b>14. WATER QUALITY</b> Chemical Analysis <input type="checkbox"/> Yes <input type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input type="checkbox"/> No Please enclose lab results.			<b>15. ARTIFICIAL FILTER (filter pack)</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from 23.0 ft. to 35.0 ft. Effective size 1.43 Uniformity Coefficient 1.30																																															
<b>16. WELL GROUTED?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Neal Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Bentonite/Cement <input type="checkbox"/> Other Depth: From 0.0 ft. to 20.0 ft.			<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> _____ ft. _____ direction Type _____ Well Disinfected <input type="checkbox"/> Yes <input type="checkbox"/> No Type: _____ Amount: _____																																															
<b>18. PUMP:</b> Date installed: _____ Not installed <input type="checkbox"/> Mfr. Name: _____ Model No.: _____ H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal			<b>19. WELL DRILLER: JAMES HESS</b> CERT. NO.: 01929 Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one) STATESVILLE, NC 28625 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Telephone No.: 704-872-7686 Fax No.: 704-872-0248																																															
<b>5. REMARKS:</b> MW-21 BENTONITE SEAL FROM 20.0 TO 23.0 FT.  *Indicate Water Bearing Zones (Use a 2nd sheet if needed)			<b>20. WATER WELL DRILLER'S CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief.  <i>James T. Hess</i> Signed: _____ Date: 10/28/10 Well Driller																																															
<b>6. TYPE:</b> <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jelled <input type="checkbox"/> Bored <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Other AUGER			If D Level Driller, provide supervising driller's name: MARK GETTYS																																															



**WASTE DISPOSAL MANIFESTS**



October 26, 2010

Re: Treatment of Purge Water  
Interstate Truck Stop  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 10-3038

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

**One 55-gallon drum was treated on October 25, 2010 at the referenced site.**

**A total of one (1) 55-gallon drum was treated at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.

Jeff L. Coleman  
Senior Scientist



Richland County LF  
1047 Highway Church Road  
Elgin, SC, 29045  
Ph: (803) 788-3054

Original  
Ticket# 1061585

Customer Name MIDLANDSENVIRON MIDLANDS ENVI Carrier MIDLANDSENVIRON MIDLANDS ENVIRONMENT  
Ticket Date 10/22/2010 Vehicle# 2 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0000469  
State Waste Code Gen EPA ID  
Manifest 0  
Destination  
PO  
Profile VA2718 (SOIL FROM UST ASSESSMENT)  
Generator 126-MIDLANDSENVIRONMENTAL MIDLANDS ENVIRONMENTAL

	Time	Scale	ScaleMaster	Gross	
In	10/22/2010 13:27:22	Scale1	joyce	10760 lb	Tare 8860 lb
Out	10/22/2010 13:45:21	Scale2	joyce	Net 1900 lb	Tons 0.95

Comments

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 SOIL-Cont. Soil -	100	0.95	Tons				03-ALLENDA
2 FUEL-Fuel Surcharg	100		%				03-ALLENDA
3 EVF-P-Standard Env	100		%				03-ALLENDA


Total Fees  
Total Ticket

SIGNATURE

*Chris Jashy*

*Interstate Truck Stop*

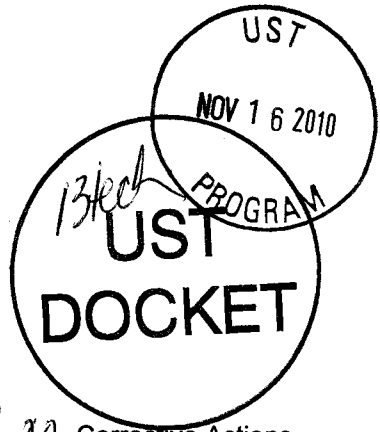
# SPECIAL WASTE MANIFEST

WASTE ID NUMBER VA2718	<i>Richland Landfill</i> 1047 Highway Church Road Elgin, SC 29045   Special Waste Phone: 803-744-3346 Fax: 866-904-7194
EXPIRATION DATE December 7, 2010	
Prepared by: Karen Truett/Carol Weldon	
GENERATOR OF WASTE: Midlands Env. Consultants, Inc. - Various	ACCOUNT NUMBER: 820-469
CUSTOMER Midlands Env. Consultants	
LOCATION OF WASTE: Site Address:	
CITY: <i>Ulmer</i>	COUNTY: <i>Allendale</i>
PHONE NUM 803-808-2043	CONTACT: Bryan Shane
FAX NUMBER:	
GENERATOR'S SIGNATURE <i>Chris Jashley</i>	DATE: <i>10/22/10</i>
TRANSPORTER OF WASTE: <i>MECI</i>	
DATE: <i>10/22/10</i>	TRUCK NUMBER: <i>82</i>
DRIVER'S SIGNATURE <i>Chris Jashley</i>	
**** TO BE COMPLETED BY RICHLAND LANDFILL*****	
DISPOSAL SITE: <u>RICHLAND LANDFILL ELGIN, SC</u>	Waste Class: Soil
DESCRIPTION OF WASTE: Soil from UST Assessment	
TICKET NUMBER: <i>1061585</i>	<i>095</i>
RECEIVED BY: <i>[Signature]</i>	



Justin Keen  
00332

**SC DHEC - UST Owner/Operator Lead Contractor Choice Form**



**Julius Moody**

As the UST Owner/Operator of Sites with DHEC Permit # :

**Interstate Truck Terminal Inc: Permit #: 332**

We would like to use the contractor listed below and request that they represent me for:

\_\_\_ Initial Groundwater Assessment XX JM All Future Assessment scopes XX JM Corrective Actions  
(Please Initial) (Please Initial)

Name of SC DHEC Certified Contractor  
Address  
Telephone Number

**TERRY Environmental Services, Inc. Contractor # 223**  
**P.O. Box 25, Summerville, South Carolina 29484**  
**(843) 873- 8200**

Note: Site rehabilitation activities must be performed by a SCDHEC Certified Site Rehabilitation Contractor in accordance with R.61-98. You may change this selection in the future should you so desire. To verify a certified Contractor, please call SCDHEC at 803-896-6240)

**1. FINANCIAL OR FAMILIAL RELATIONSHIP**

Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above? Please initial where applicable.

\_\_\_ Yes XX JM 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, daughter-in-law, step father, 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.

**2. PAYMENT**

You can pay the contractor and, upon submittal of the canceled check (or a notarized statement from the contractor), be compensated from the SUPERB Account, or have payment issued directly from us to the contractor. Note: All costs must receive prior financial approval from the Department regardless of payment option. Please initial by your choice.

I request that payment be made to me after I have paid the contractor. \_\_\_ Yes \_\_\_ No

I request that payment be made directly to the contractor. XX JM Yes \_\_\_ No  
(Please Initial)

UST Owner / Operator: Julius Moody  
Signature

Name: JULIUS MOODY Date: 11, 8, 10  
Print



C. Earl Hunter, Commissioner

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

**JULIUS MOODY**  
**1375 CAPERNAUM ROAD**  
**BAMBERG SC 29003**

**JAN 04 2011**



Re: **Report Review**  
Interstate Truck Terminal: Hwy 301 & Hwy 321, Ulmer, SC  
UST Permit # **00332; CA#39471**  
Release Reported June 21, 2002  
Monitoring Well Installation Report received on November 8, 2010  
Bamberg County

Dear Mr. Moody:

The Underground Storage Tank (UST) Management Division has reviewed the referenced reports. Two (2) additional monitoring wells were installed on October 22, 2010. A copy of the report is enclosed for your information. The next scope of work is to conduct a comprehensive groundwater sampling event to obtain current data.

The UST Division will continue to coordinate site rehabilitation activities on your behalf. Future reports will be forwarded to you once they have been reviewed.

If you have any questions concerning this correspondence, please contact me by phone at (803) 896-6649, by fax at (803) 896-6245, or by email at [koonjt@dhec.sc.gov](mailto:koonjt@dhec.sc.gov).

Sincerely,

Justin Koon, Engineer Associate  
Corrective Action Division  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Monitoring Well Installation Report

cc: Technical File (w/out enc)



C. Earl Hunter, Commissioner

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

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

**AUG 11 2011**



Re: **QAPP Contractor Addendum Request**  
Groundwater Sampling Contract  
Solicitation # IFB-5400002759, PO#4600088529

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400002759 and the UST Management Division Quality Assurance Program Plan (QAPP), it is requested that you submit a Contractor Addendum for each site listed below. The Addendums must be submitted within 15 business days in my attention. The project manager for each site will issue a notice to proceed once the Addendum has been reviewed and approved. Please note, site reconnaissance should be conducted during the Addendum review so that any issues that arise may be addressed prior to commencing work at the site.

UST Permit #	Site Name	County	# samples and requested analysis*	Project Manager
18662	Bay Creek Villas	Colleton	17-BTEXMN	R. Miner
00769	Anderson Patrol	Anderson	16-BTEXMN, DCA, EDB, & Oxygenates	R. Miner
06797	Santee State Park	Orangeburg	5-BTEXMN	R. Miner
15670	Colleton County	Colleton	9-BTEXMN	R. Miner
03421	Driggers Station	Florence	1-BTEXMN	M. Rivers
05751	Louie Brown	Lee	12-BTEXMN, DCA, & Oxygenates	D. Thoma
05410	Bucks Grocery	Kershaw	20-BTEXMN	D. Thoma
14902	Doziers Grocery	Georgetown	10-BTEXMN, EDB, & Oxygenates	D. Thoma
00332	Interstate Truck	Allendale	33-BTEXMN, DCA, EDB, & Oxygenates	C. Ridgley
15816	MJ Tadlock Grocery	Chester	32-BTEXMN, DCA, EDB, & Oxygenates	C. Ridgley

\* The number of samples does not include trip blanks, field blanks, or field duplicates.

Please contact me with the sampling schedule before commencing work at these facilities. In addition, a weekly update for each site is required to be submitted via e-mail to the site's project manager and myself. If you have any questions or need further assistance, please contact me at (803) 896-6397 or [thomadl@dhec.sc.gov](mailto:thomadl@dhec.sc.gov).

Sincerely,

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

Enc: Site Information Packets

cc: Technical Files

Midlands  
Environmental  
Consultants, Inc.

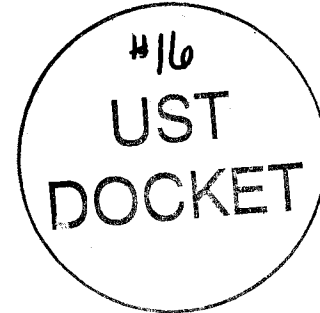


August 26, 2011

Ms. Debra Thoma, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: QAPP Contractor Addendum – Revision 0  
Interstate Truck Terminal, Inc.  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332, CA # 40581  
MECI Project Number 11-3526  
Certified Site Rehabilitation Contractor UCC-0009



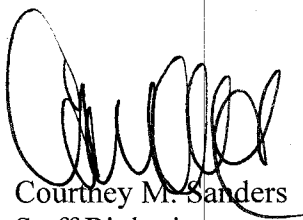
Dear Ms. Thoma,

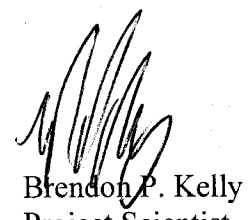
Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached QAPP Contractor Addendum for the referenced site.

On August 24, 2011, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

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

  
Courtney M. Sanders  
Staff Biologist

  
Brendon P. Kelly  
Project Scientist

Section A: Project Management

**A1 Title and Approval Page**

Quality Assurance Project Plan  
Addendum to the SC DHEC UST Programmatic QAPP  
For  
Interstate Truck Terminal, Inc., SCDHEC Site ID# 00332

---

U.S. Highway 301 & Cemetery Road, Ulmer, South Carolina

---

Prepared by:  
Courtney M. Sanders  
Staff Biologist  
Midlands Environmental Consultants, Inc.  
(Certified Site Rehabilitation Contractor UCC-0009)  
235-B Dooley Road  
Lexington, SC 29073  
(803)808-2043

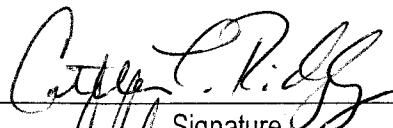
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Date: August 26, 2011

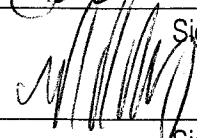
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Approvals

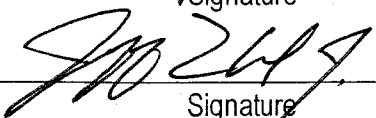
Cathleen Ridgley  
SC DHEC Project Manager

  
\_\_\_\_\_  
Signature Date 8/30/11

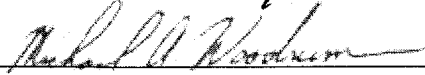
Brendon P. Kelly  
Contractor QA Manager

  
\_\_\_\_\_  
Signature Date 9/26/11

Jeff L. Coleman  
Site Rehabilitation Contractor

  
\_\_\_\_\_  
Signature Date 8/26/11

Michael Woodrum  
Laboratory Director

  
\_\_\_\_\_  
Signature Date 08/26/2011

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### A3 Distribution List

Name	Title	Organization/Address	Telephone Number	Fax Number	Email Address
Cathleen Ridley	SC DHEC Technical Project Manager	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6633	803-896-6245	ridglect@dhec.sc.gov
Jeff L. Coleman	Site Rehabilitation Contractor	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	jlc@meci.net
Brendon P. Kelly	Quality Assurance Officer	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	bpk@meci.net
Courtney M. Sanders	Field Manager	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	cms@meci.net
Michael Woodrum	Laboratory Director	Shealy Environmental Services, Inc. 106 Vantage Point Dr. West Columbia, SC 29172	803-791-9700	803-791-9111	mwoodrum@shealylab.com
	Well Services/Driller				

Table 1A Addendum Distribution List

### A4 Project Organization

Role from the UST Master QAPP	Person in this Role for Project	Organization/Address	Telephone Number	Fax Number	Email Address
Project Manager	Cathleen Ridgley	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6633	803-896-6245	ridglect@dhec.sc.gov
Site Rehabilitation Contractor	Jeff L. Coleman	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	jlc@meci.net
Quality Assurance Officer	Brendon P. Kelly	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	bpk@meci.net
Field Manager	Courtney M. Sanders	Midlands Environmental Consultants, Inc. 235-B Dooley Road	803-808-2043	803-808-2048	cms@meci.net

Role from the UST Master QAPP	Person in this Role for Project	Organization/Address	Telephone Number	Fax Number	Email Address
		Lexington, SC 29073			
Analytical Laboratory Director	Michael Woodrum	Shealy Environmental Services, Inc. 106 Vantage Point Dr. West Columbia, SC 29172	803-791-9700	803-791-9111	mwoodrum@shealylab.com
Soil Boring and Monitoring Well Driller					
Project Verifier	Courtney M. Sanders or Brendon P. Kelly	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	cms@meci.net

Table 2A Addendum Role Identification and Contact Information

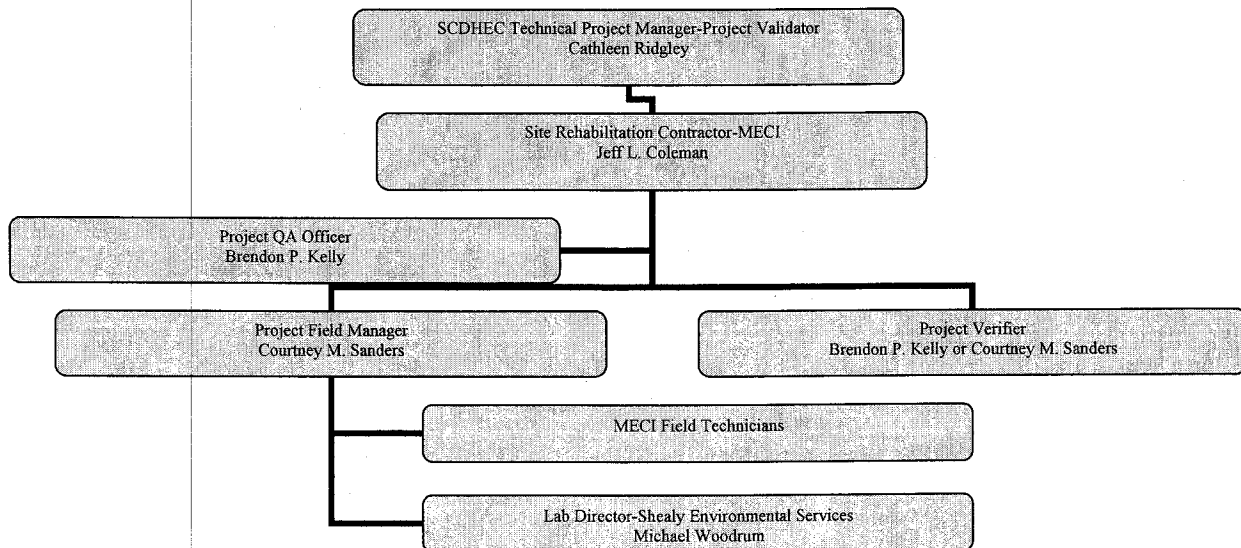


Figure 1A Organizational Chart

## A5 Problem Definition/Background

*Discuss the background (as much as is known) of the site and appropriate historical information, and why this site is being assessed.*



The subject site (Interstate Truck Stop) is located at the Intersection of U.S. Highway 301 & Cemetery Road, Ulmer, Allendale County, South Carolina. The subject site currently maintains three 4,000 gallon diesel underground storage tanks (UST's), two 6,000 gallon gasoline UST's, one 6,000 gallon diesel UST, and three 8,000 gallon diesel UST's. These UST's have been Rendered Non-Useable at an unknown date. The South Carolina Department of Health and Environmental Control (SCDHEC) reported a release of petroleum product from these UST's in June of 2002 and confirmed the release in October of 2002. The subject site is currently rated a Class 2BB.

The site is being sampled in conjunction with the SCDHEC Groundwater Sampling Contract (Solicitation # IFB-5400002759, PO# 4600088529).

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

Underground Storage Tank Division

### **A6 Project/Task Description**

- 1. Summarize what is known about the work to be done. This can be a short sentence indicating what the Scope of this project is (see Master QAPP Section A6).***

The subject site (Interstate Truck Terminal, Inc.) will be sampled in conjunction with the SCDHEC Groundwater Sampling Contract (Solicitation # IFB-5400002759, PO# 4600088529). During assessment activities monitoring wells will be sampled for petroleum constituents.

- 2. The work will begin within fourteen (14) days of receipt of approved QAPP contractors addendum after cost approval and sampling should be complete by twenty-one (21) days of receipt of approved QAPP contractors addendum.***
- 3. Are there are time or resource constraints? Include those factors that may interfere with the tentative schedule.***

Factors that may prevent schedule work will be, but not limited to, inclement weather, equipment malfunction, and machine failure.

### **A7 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs)**

The subject site (Interstate Truck Stop) is located at the Intersection of U.S. Highway 301 & Cemetery Road, Ulmer, Allendale County, South Carolina. The site is currently Interstate Truck Stop.

### **A8 Training and Certificates**

Required training and licenses:

Title/Job	Name	Training Required	Date training received	Type of License	License Number
-----------	------	-------------------	------------------------	-----------------	----------------

Title/Job	Name	Training Required	Date training received	Type of License	License Number
Principal Geologist	Bryan T. Shane, P.G.	Professional Geologist	10/30/1993	State of South Carolina	1102
Senior Scientist	Jeff Coleman	OSHA 40 hr HAZWOPER	7/27/2007	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	7/27/2011	N/A	N/A
Project Scientist	Brendon Kelly	OSHA 40 hr HAZWOPER	8/21/2009	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/14/2010	N/A	N/A
Staff Geologist	John Bryant	OSHA 40 hr HAZWOPER	4/17/2009	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/14/2010	N/A	N/A
Field Technician	Brian Owen	OSHA 40 hr HAZWOPER	8/21/2009	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/14/2010	N/A	N/A
Staff Biologist	Courtney Sanders	OSHA 40 hr HAZWOPER	12/10/2010	N/A	N/A
Staff Biologist	Kyle Pudney	OSHA 40 hr HAZWOPER	12/10/2010	N/A	N/A
Staff Biologist	Chris Lashley	OSHA 40 hr HAZWOPER	12/10/2010	N/A	N/A
Staff Biologist	Gavin Globensky	OSHA 40 hr HAZWOPER	7/29/2011	N/A	N/A
Lab Manager	Michael Woodrum	***	***	Lab Certification	SC 32010

Table 3A Required Training and Licenses

Brendon P. Kelly of Midlands Environmental Consultants, Inc. is responsible to ensuring that personnel participating in this project receive the proper training. All training records will be stored in the following location: 235-B Dooley Road, Lexington, SC 29073.

**It is understood that training records will be produced if requested by SC DHEC.**

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

**Commercial Lab(s)**

Full Name of the Laboratory Shealy Environmental Services, Inc.  
 Name of Lab Director Michael Woodrum

SC DHEC Certification Number 32010

Parameters this Lab will analyze for this project:

BTEX, Naph, MTBE, 1,2 DCA, 8-Oxygenates (EPA Method 8260-B), and EDB (EPA Method 8011).

Please note: SC DHEC may require that the contractor submit some or all of the Laboratory's SOPs as part of this QAPP.

## A9 Documents and Records

**Personnel will receive the most current version of the QAPP Addendum via:  
 (Check all that apply)**

US Mail     Courier     Hand delivered

Other (please specify): E-mailed electronic copies

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival
Instrument Raw Data	Target, Thermospec, or Iteva software	Hardcopy and Electronic	Hardcopy: Offsite storage for 7 yrs Electronic: Two external storage device backups – one offsite, one onsite storage for 10 yrs	Yes
Final Reports	LIMS	Electronic	Electronic: Two external storage device backups – one offsite, one onsite storage for 10 years	Yes
Field Work	Field Staff	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
Chain of Custody	Field Staff	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
QAPP Addendum	Brendon Kelly	Hardcopy & Electronic	MECI office: 235B Dooley Road / Min. 5 years	Yes
Internal QC record	Brendon Kelly	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
Sampling Report	Brendon Kelly	Hardcopy & Electronic	MECI office: 235B Dooley Road / Min. 5 years	Yes

Table 4A Record Identification, Storage, and Disposal

## Section B Measurement/Data Acquisition

### B1 Sampling Process/Experimental Design

Item	Start Date	End Date	Comments
Site Reconnaissance	8/24/11	8/24/11	Already Completed
QAPP preparation	8/26/11	8/26/11	In progress
QAPP approval	8/26/11	9/16/11	Assuming three week turnaround
Monitoring well Sampling	9/17/11	9/24/11	Sampled within 1 week of QAPP approval
Report Preparation	9/25/11	10/16/11	Three weeks to prepare/submit report

Table 5A Sampling Activities

## B2 Sampling Methods

Please note: The contractor must follow sampling protocols as given in the UST QAPP.

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

Soil	_____
Ground Water from monitoring wells	_____ 23 _____
From Drinking/Irrigation water wells	_____ 1 _____
Field Duplicate Collection	_____ 2 _____
Field Blank Collection	_____ 1 _____
Trip Blank	_____ 2 _____
From surface water features	_____ 0 _____
Total number of Water samples	_____ 29 _____

**Notes:**

During the August 24, 2011 site visit, twenty three (23) monitoring wells were located. Additionally, one water supply well (WSW-2) was located and determined to be operational. Monitoring wells MW-4R, MW-11, MW-14, MW-17, and DW-3 were not located during the site visit. MW-4R is believed to be located under standing water, MW-11 is believed to be located in overgrown woods surrounding the site, MW-17 is believed to be located in a grassy field and buried, and MW-14 and DW-3 are believed to be destroyed by the installation of a drainage ditch. During the sampling event, if the monitoring wells are located, they will be sampled accordingly.

During the site visit, it was noted that monitoring wells MW-1, MW-13, MW-19, and DW-4 need a combined five (5) bolts to secure the wells in place. Total Bolts Needed: 5 **Bolts**

Samples will be analyzed by Shealy Environmental Services, Inc. for BTEX, Naph, MTBE, 1,2 DCA, 8-Oxygenates (8260B), and EDB (8011).

**For the sample matrices indicated above, please describe how samples will be collected and the equipment needed.**

Please see MECI Monitoring Well Sampling SOP for sampling procedures and type of materials used for sampling

**Will Sampling Equipment have to be cleaned and decontaminated or is everything disposable?**

All equipment, excluding electronic water level indicators and field probes, is disposable.

**If sampling equipment must be cleaned please give a detailed description of how this is done and the disposal of by-products from the cleaning and decontamination.**

Please see MECI Monitoring Well Sampling SOP for decontamination procedures.

**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.**

All samples will be shipped to the lab via courier or overnight shipping company. Please see MECI Monitoring Well Sampling SOP for sample shipping procedures.

**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.**

Failure	Response	Documentation	Individual Responsible
Water level indicator not working properly	Attempt to clean probe, change battery, use back-up indicator if need be.	Record on field sheets, notify office staff. Take indicator out of rotation until problem identified and corrected.	Field Staff, Field Manager
Field meters not working	Attempt to clean probes, recalibrate in the field.	Record on field sheets, notify office staff. Take meters out of rotation until problem identified and corrected.	Field Staff, Field Manager
Wells not located	Use metal detector, measure from known points, contact project manager for additional information.	Record method used to attempt to locate the well on field sheets, and possibly reasoning for the well to be missing	Field Staff

Table 6A Field Corrective Action

### B3 Sample Handling and Custody

**1. How will the samples get from the Site to the Lab to ensure holding requirements are met?**

Following sample collection, the samples are immediately place in a laboratory provided cooler, pre-filled with wet ice obtained from the MECI office. Samples are transported to the MECI office once a sampling event is complete. A Chain of Custody (CoC) is filled out following the sampling event by the field staff. See attached CoC. If a lab provided courier is scheduled to visit the MECI offices the day following a sampling event, sampling coolers are repacked with wet ice, and left at the office for pick-up the following morning. If no courier is schedule to visit the MECI office the day following a sampling event, all sampling coolers are repacked with ice and are dropped off at a lab approved shipping company for overnight delivery to the lab.

**2. How will the contactors cool the samples and keep the samples cool?**

All samples are kept on wet ice, obtained from MECI office.

**3. How will the lab determine the temperature of the samples upon receipt? Will they be using a temperature blank?**

A calibrated thermometer and temperature blank will be used to document sample temperature. The temperature blank is immediately checked by the sample receiving technician upon arrival at the laboratory.

**4. Where will the samples be stored in the Lab once they are received?**

All samples are stored in clean refrigeration units monitored and maintained at 4 degrees C + or - 2 degrees. Volatile organic samples are stored separately form all other samples.

**5. Describe the chain of custody procedure and attach a copy of each chain of custody that will be used. If a Chain of Custody SOP exists from the Lab and the Contractor is willing to adhere to it, then this may be attached.**

A chain of custody (COC) will be filled out for each sampling event at each project site. COC to be signed by MECI and Shealy Environmental technician at time physical transfer of samples occurs to courier. Shealy uses the following COC procedures to protect sample integrity following pickup by their courier: A full time Sample Receiving Technician receives all samples and completes a Sample Receipt Checklist (SRC), which will identify any anomalies, if any exist the Sample Receiving Technician or Project Manager must resolve the deviation internally and/or notify the client to resolve the anomaly

**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:**

Parameter	SOP ID*	Method Referenced	Equipment	Comments
BTEX+Naph+MTBE+Oxygentaes	S-VO-002	8260B	GC/MS	

PAH's	S-SV-021	8270D	GC/MS
EDB	S-SV-012	8011	GC
Lead,T.	S-IM-022	6010C	ICP
Ferrous Iron	S-IN-009	SM 3500-FED	Spectrophotometer
Nitrate	S-IN-042	353.2	Auto-analyzer/Lachate
Sulfate	S-IN-010	300.0	Ion Chromatograph
Methane	S-VO-004	RSK-175	GC
TOC	S-IN-030	Walkley-Black	N/A
DRO - TPH	S-SV-001	8015C	GC
pH	MECI SOP 4.3.6	*	YSI 63
Conductivity	MECI SOP 4.3.6	*	YSI 63
Dissolved Oxygen	MECI SOP 4.3.6	*	YSI 550A
Temperature	MECI SOP 4.3.6	*	YSI 550A

**Table 7A Analytical SOPs and Referenced Methods**

- 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. See also Table 8A SOP Abbreviation Key.

Abbreviation	Lab Identification of this SOP	Full Name of the SOP
S-VO-002	S-VO-002	GC/MS VOLATILES ANALYSIS BASED ON EPA METHODS 8260B AND 624 PREPARED BY EPA METHODS 5030B, 5035 AND 3585
S-SV-021	S-SV-021	GC/MS ANALYSIS BASED ON EPA METHOD 8270D PREPARED BY EPA METHODS 3520C, 3550C AND 3580A
S-SV-012	S-SV-012	GC/ECD ANALYSIS OF EDB AND DBCP BASED ON METHOD 8011 & 504.1
S-IM-022	S-IM-022	INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROSCOPY-PECTROMETRIC METHOD for TRACE ELEMENT ANALYSES METHOD 6010C
S-IN-009	S-IN-009	FERROUS IRON (PHENANTHROLINE METHOD) STANDARD METHOD 3500-Fe D
S-IN-042	S-IN-042	NITRATE+NITRITE NITROGEN BY EPA METHOD 353.2, NITRATE NITROGEN BY 353.2 SUBTRACTION, AND NITRITE NITROGEN BY EPA METHOD 353.2
S-IN-010	S-IN-010	INORGANIC ANIONS BY ION CHROMATOGRAPHY EPA METHOD 300.0 and SW-846 9056 and 9056A
S-VO-004	S-VO-004	STANDARD OPERATING PROCEDURE GC ANALYSIS BASED ON METHOD RSKSOP-175
S-IN-030	S-IN-030	TOTAL ORGANIC CARBON (TOC) WALKLEY-BLACK PROCEDURE
S-SV-001	S-SV-001	GC/FID DIESEL RANGE ORGANICS ANALYSIS BASED ON METHOD 8015B and/or 8015C PREPARED BY EPA METHODS 3520C, 3550C and 3580A

MECI SOP 4.3.6	MECI SOP 4.3.6	Sampling Standard operating procedures
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**Table 8A SOP Abbreviation Key**

- Identify procedures to follow when failures occur, identify the individual responsible for corrective action and appropriate documentation:

Failure	Response	Documented Where?	Individual Responsible
Field meters not working	Attempt to clean probes, recalibrate in the field.	Record on field sheets, notify office staff. Take meters out of rotation until problem identified and corrected.	Field Staff, Field Manager
COC or Sample Receiving issues	Call Client	Sample Receiving Checklist (SRC)	PM – Kelly Maberry <a href="mailto:kmaberry@shealylab.com">kmaberry@shealylab.com</a>
Analytical errors	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director –Michael Woodrum <a href="mailto:mwoodrum@shealylab.com">mwoodrum@shealylab.com</a>
QA/QC Failure	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director –Michael Woodrum <a href="mailto:mwoodrum@shealylab.com">mwoodrum@shealylab.com</a> QA/QC Officer – Jami Savje <a href="mailto:Jsavje@shealylab.com">Jsavje@shealylab.com</a>
On time delivery	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director –Michael Woodrum <a href="mailto:mwoodrum@shealylab.com">mwoodrum@shealylab.com</a> QA/QC Officer – Jami Savje <a href="mailto:Jsavje@shealylab.com">Jsavje@shealylab.com</a>

**Table 9A Corrective Action Procedures**

- Identify sample disposal procedures.

Analysis	Matrix	Schedule for disposal	Method for disposal	Comments
BTEX+Naph+MTBE+Oxygenates	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
PAH's	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or	



				non-Hazardous waste.	
EDB		Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Lead		Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Ferrous Iron		Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Nitrate, Sulfate		Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Methane		Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
All		Water	On-Site	Portable Granulated Activated Carbon (GAC) Unit	All waste water produced from sampling and decontamination activities will be run through a GAC unit

**Table 10A Sample Disposal Procedures**

- 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 UST Programmatic QAPP.

## B6 Field Instrument and Equipment Testing, Inspection and Maintenance

1. Identify all field and laboratory equipment needing periodic maintenance, the schedule for this, and the person responsible. Note the availability and location of spare parts.

Instrument	Serial Number	Type of Maintenance	Frequency	Parts needed/Location	Person responsible
Volatiles Mass Spec	ALL	Change traps, clean ion source, replace filaments	Periodic	Laboratory	MSV Analyst
Semivolatile Mass Specc	ALL	Injection port maintenance, ion source maintenance, column replacement	Periodic	Laboratory	MSSV Analyst
ECD GC	ALL	Injection port maintenance, column replacement	Periodic	Laboratory	GC Analyst
Dionex IC	ALL	Replace auto sampler filter, tubing, line filter, sample Line and Waste Line, as needed. Check Reagent levels, flow rate, waste line.	Periodic	Laboratory	IC Analyst
ICP	ALL	Clean Sample introduction system , auto sampler, torch, Change spray chamber, torch tubing, tubing	Periodic	Laboratory	ICP Analyst
Leeman Mercury Analyzer	ALL	Clean GLS, Change Pump tubing, Nafion Dryer, Lamp	Periodic	Laboratory	Mercury Analyst
Flow Injection Analysis – Lachat 8000	ALL	Replace sample and reagent lines, replace light source, re-wrap heating coil, replace column	Periodic/As Needed	Laboratory	Nitrate Analyst
YSI 63	All	Replace probe tip	Yearly	Order from YSI	B. Kelly
YSI 63	All	Replace batteries	As Needed	In stock at office	Field Staff

YSI 63	All	General inspection for wear and tear on equipment	Daily	Major fixes will be done out of office	Field Staff
YSI 63	All	Check buffer solutions for expiration	Weekly	In stock at office	B. Kelly
YSI 550A	All	Replace membrane	4 to 8 weeks	In stock at office	Field Staff
YSI 550A	All	Replace batteries	As Needed	In stock at office	Field Staff
YSI 550A	All	General inspection for wear and tear on equipment	Daily	Major fixes will be done out of office	Field Staff

**Table 11A Instrument and Equipment Maintenance**

2. Identify the testing criteria for each lab or field instrument that is used to ensure the equipment is performing properly. Indicate how deficiencies, if found, will be resolved, re-inspections performed, and effectiveness of corrective action determined and documented. Give the person responsible for this

Instrument/Equipment & Serial Number	Type of Inspection	Requirement	Individual Responsible	Resolution of Deficiencies
Volatiles Mass Spec	Daily calibration check	Method Requirements	MSV Analyst	Recalibration or instrument maintenance
Semi-volatiles Mass Spec	Daily calibration check	Method Requirements	MSSV Analyst	Recalibration or instrument maintenance
ECD GC	Daily calibration check	Method Requirements	GC Analyst	Recalibration or instrument maintenance
Dionex IC	Daily calibration check	Method Requirements	Nitrate Analyst	Recalibration or instrument maintenance
ICP	Daily calibration check	Method Requirements	ICP Analyst	Recalibration or instrument maintenance
Leeman Mercury Analyzer	Daily calibration check	Method Requirements	Mercury Analyst	Recalibration or instrument maintenance
Flow Injection Analysis – Lachat 8000	Daily and continuing calibration check	See calibration criteria	INM Analyst	Recalibration or instrument maintenance
YSI 63	Daily calibration check	See calibration criteria	Field Staff	Recalibrate, general maintenance then recalibrate. Ship off for service by manufacturer
YSI 550A	Daily calibration check	See calibration criteria	Field Staff	Recalibrate, general maintenance then recalibrate. Ship off

					for service by manufacturer

Table 12A Instrument and Equipment Inspection

## 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.

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
Volatiles Mass Spec	Minimum of 5 calibration standards for all compounds	When indicated by continuous calibration verification standard	Method Criteria	Detailed in SOP	MSV Analyst	S-VO-002
Semi-volatile Mass Spec	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	MSSV Analyst	S-SV-021
GC ECD	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	GC Analyst	S-SV-012
Dionex IC	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	IC Analyst	S-IN-010
ICP	Minimum of 3 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	ICP Analyst	S-IM-022
Cetac Mercury Analyzer	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	Mercury Analyst	S-IM-006
Lacaht QuickChem 8000	Minimum of 5 calibration standards	Daily or when indicated by calibration verification standard	Method Criteria	Detailed in SOP	Nitrate Analyst	S-IN-042
YSI 63	pH Calibration	Daily	+/- 0.2 pH units	clean/replace	Field Staff	6a & 6b

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
				probe tip, recalibrate		
YSI 63	Conductivity Calibration	As directed by manufacturer	+/- 10 uS	clean/replace probe tip, recalibrate	Field Staff	6a & 6b
YSI 550A	DO calibration	Daily	+/- 0.25 mg/l	clean/replace probe tip, recalibrate	Field Staff	6a & 6b
YSI 550A	Temperature Calibration	Daily	+/- 1 °C	clean/replace probe tip, recalibrate	Field Staff	6a & 6b
Electronic Water Level Indicator	Checked vs. Standard	Monthly	+/- 0.01 foot per 10 foot length	Replace probe tape	Field Staff	***
Oil/Water Interface probe	Checked vs. Standard	Monthly	+/- 0.01 foot per 10 foot length	Replace probe tape	Field Staff	***

**Table 13A Instrument Calibration Criteria and Corrective Action**

\* 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. See also Table 8A SOP Abbreviation Key.

## B8 Inspection/Acceptance Requirements for Supplies and Consumables

1. Identify critical supplies and consumables for field and laboratory, noting supply source, acceptance criteria, and procedures for tracking, storing and retrieving these materials.
2. Identify the individual(s) responsible for this.

Item	Vendor	Acceptance criteria	Handling/Storage Conditions	Person responsible for inspection and tracking.
Laboratory Chemicals	Fisher, VWR	Certificates of analysis and laboratory testing	Laboratory storage	Receiving and laboratory personnel
Laboratory standards	O2Si, Restek, High Purity, VHG, Supelco	Certificates of analysis and laboratory verifications	Vendor specific storage conditions	Laboratory Analysts
Sample Containers	Daniels Scientific, QEC	Certificates of analysis and laboratory testing	Bottle storage area	Sample receiving personnel
Clear, Disposable polyethylene Bailers	Preferred Pump	Individual sleeves intact, ball valve operational	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
Nylon Rope	Preferred Pump	Covered with plastic	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
Nitrile Gloves	Preferred Pump	Unopened box, no holes	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
40 mL HCL preserved amber vials	Shealy Environmental Services	Custody seal intact	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff

250 mL HNO <sub>3</sub> preserved metals vials	Shealy Environmental Services	Custody seal intact	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
Coolers	Shealy Environmental Services	Intact	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
pH Buffer	TRS Environmental, Enviroequipment	Within expiration date	Stored in calibration room	B. Kelly, Field Staff
Conductivity Standard	TRS Environmental, Enviroequipment	Within expiration date	Stored in calibration room	B. Kelly, Field Staff
DO Membranes	YSI, Enviroequipment	Clean, in box	Stored in calibration room	B. Kelly, Field Staff
Batteries	Any Store	Not previously used	Stored in calibration room	B. Kelly, Field Staff

Table 14A List of Consumables and Acceptance Criteria

### 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., its relevance to project.
3. Indicate the acceptance criteria for these data sources and/or models.

Data Source	Used for	Justification for use in this project	Comments

Table 15A Non-Direct Measurements

4. Identify key resources/support facilities needed.

There are no non-direct measurements in this project

### B10 Data Management

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

Following sample collection and chain of custody production, samples are shipped to the lab. Field work from the field staff is reviewed by the MECI project manager, and converted into digital form. All data entry is subsequently checked to validate the data entry. The original copies of the field work are stored in MECI files for a minimum of 5 years. Digital copies of the work are stored on the MECI server, which is backed

up weekly, and stored for a minimum of 5 years. The digital copy of the field work is presented to SCDHEC with the final report.

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?

The laboratory maintains comprehensive Quality Control and Training Programs. All sample receipt data, sample log-in, and analytical data is peer reviewed, including review for inappropriate changes. Data management, review procedures and the Quality Systems Program are documented in the laboratory's Quality Manual and Standard Operating Procedures. The Quality Assurance Department oversees adherence to and review of these programs.

All MECI field work is produced using ink-pens. Any attempt to alter field data, after sampling is complete, can be readily identified. MECI keeps a carbon copy of the chain of custody after it is shipped to the lab. This copy is kept with the field work. If any change to the CoC are suspected, this original carbon copy can be used to identify potential changes.

3. How does the lab ensure that there are no errors in samples records including times when sample information is compiled, data calculated and/or transmitted?

Sample data acquisition software is reviewed periodically. The LIMS database is backed up daily and is able to be restored in the event of a system failure. These procedures are documented in laboratory SOP S-AD-003, LIMS. The IT Manager is responsible for these systems and procedures."

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).

Laboratory Hardcopy data stored off site is logged, maintained and archived by the Quality Assurance Department. Laboratory Electronic Data Reports are maintained through IT back up under the responsibility of the IT Systems Manager.

MECI keeps all field work and paper copies of reports in its in-house filing system. All paper copies are stored for a minimum of 5 years. Any file can be retrieved easily by going to the correct filing cabinet/box.

All electronic copies of reports generated are kept on the MECI server. This server is backed-up on a weekly basis. Any file stored on the MECI server can be retrieved instantly, by accessing the server. All electronic files are stored for a minimum of 5 years on the server.

## **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. Will this person have the authority to stop work if severe problems are seen?*

Field audits can be conducted on any field personnel at any time. MECI field audits can be conducted by the Field Manger, who will be responsible for ensuring that field personnel adhere to the QAPP. If during a random field audit, severe problems are found, work will be stopped by the field manager and the QA officer contacted to determine corrective action. All problems must be corrected prior to any additional work being performed. Should it be requested, an On-site Field Audit can be scheduled with the SCDHEC project manager.

- 2. The SCDHEC UST QAPP states that the Lab will receive an Offsite Technical System Audit. For this project, what assessments will be done on the Commercial Lab(s) that are being used—other than their certification audit? When or how often are these done? Who will the results be given to and who has the ability to stop work if problems are severe?*

The laboratory participates in annual Proficiency Testing through an approved vendor, Wibby Environmental. Proficiency Testing results are provided to the Office of Environmental Laboratory Certification.

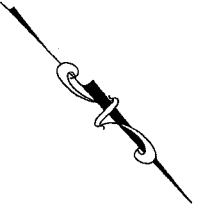
## **C2 Reports to Management**

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

## **Section D Data Validation and Usability**

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).





MW-11  
(<1.0)

WOODED

MW-12  
(<1.0)

MW-13  
(<1.0)  
DW-4  
(<1.0)

MW-20  
(<1.0)

WOODED

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

MW-19  
(<1.0)

MW-4R  
(45)

DW-1  
(<1.0)

MW-2  
(154)

MW-6  
(170)

MW-14  
(28)  
DW-3  
(<1.0)

MW-15  
(<1.0)

MW-18  
(<1.0)

MW-1  
(6.4)

MW-3  
(6.5)

MW-21

MW-5R  
(6.8)  
DW-6  
(<1.0)

MW-22

MW-9  
(63)

MW-16  
(32)

INTERSTATE TRUCK

MW-8  
(<1.0)

MW-17  
(<1.0)

WSW-2 (APPROX. 185)

GRASS

MW-7  
(<1.0)  
DW-5  
(<1.0)

WSW-1  
(INACTIVE)

**Explanation:**

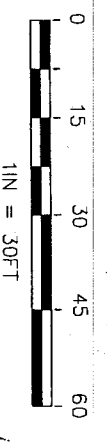
- (<1.0) SHALLOW MONITORING WELL CONTAMINANT CONCENTRATION (ppb)
- DW-2 DEEP MONITORING WELL CONTAMINANT CONCENTRATION (ppb)
- (<1.0) WATER SUPPLY WELL
- WSW-1
- FORMER UST PIT
- DISPENSER ISLAND

**Groundwater Elevation Data**

Well #	Depth to Water (feet)	Well Head Elevation	Groundwater Elevation
MW-21	28.68	103.77	75.09
MW-22	27.36	101.67	74.31

Notes: Depth to groundwater measured on October 25, 2010.

GRAPHIC SCALE



ALL LOCATIONS ARE APPROXIMATE

**Site Features**

Interstate Truck Stop  
Ulmer, South Carolina  
SCDHEC Site ID # 00332

**Midlands Environmental Consultants, Inc.**

JOB NO. 10-3038  
DATE October 26, 2010

Figure  
**2**

Drawing Based on MECI Field Notes and Map Generated by  
Consultech Environmental, LLC Dated 12/30/08.



Chain of Custody Record

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

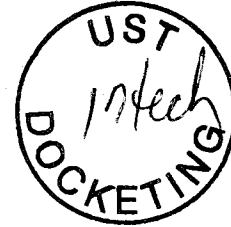
Number 12602

Form with sections for Client, Address, City, Project Name, Project Number, Sample ID / Description, Matrix, Analysis, Turn Around Time, Sample Disposal, QC Requirements, Possible Hazard Identification, and Relinquished by / Sampler.



C. Earl Hunter, Commissioner

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



SEP 14 2011

BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

Re: **Notice to Proceed-Groundwater Sampling/QAPP Contractor Addendum Approval**  
Groundwater Sampling Contract  
Solicitation # IFB-5400002759, PO#4600088529  
Interstate Truck Terminal, Hwy 301 & Hwy 321, Ulmer, SC  
UST Permit # 00332; CA# 40581  
Allendale County

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400002759 and the UST Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Contractor Addendum has been reviewed and approved. In accordance with the QAPP, a weekly status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. The Department grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs. **Please note, the final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.**

The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to Debra Thoma, the contract manager.

Page 2

If you have any site-specific questions, please contact me at (803) 896-6633 or via e-mail at [ridglect@dhec.sc.gov](mailto:ridglect@dhec.sc.gov). If you have any contract specific questions, please contact Debra Thoma at (803) 896-6397 or via e-mail at [thomadl@dhec.sc.gov](mailto:thomadl@dhec.sc.gov).

Sincerely,



Cathleen Ridgley, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved QAPP Contractor Addendum Signature Page  
Approved Cost Agreement

cc: Debra Thoma, Corrective Action Section, UST Management Division  
Kelly Maberry, Shealy Environmental, 106 Vantage Point Dr., West Columbia, SC, 29172 (w/ approved CA)  
Technical Files (w/ Finalized & Approved QAPP)

Section A: Project Management

**A1 Title and Approval Page**

Quality Assurance Project Plan  
Addendum to the SC DHEC UST Programmatic QAPP  
For  
Interstate Truck Terminal, Inc., SCDHEC Site ID# 00332

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U.S. Highway 301 & Cemetery Road, Ulmer, South Carolina

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Prepared by:  
Courtney M. Sanders  
Staff Biologist  
Midlands Environmental Consultants, Inc.  
(Certified Site Rehabilitation Contractor UCC-0009)  
235-B Dooley Road  
Lexington, SC 29073  
(803)808-2043

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Date: August 26, 2011

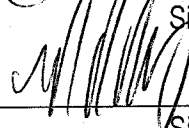
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Approvals

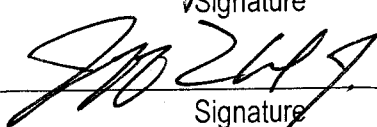
Cathleen Ridgley  
SC DHEC Project Manager

  
Signature \_\_\_\_\_ Date 8/30/11

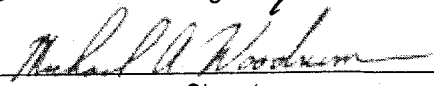
Brendon P. Kelly  
Contractor QA Manager

  
Signature \_\_\_\_\_ Date 9/26/11

Jeff L. Coleman  
Site Rehabilitation Contractor

  
Signature \_\_\_\_\_ Date 8/26/11

Michael Woodrum  
Laboratory Director

  
Signature \_\_\_\_\_ Date 08/26/2011

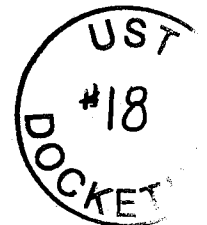


Midlands  
Environmental  
Consultants, Inc.

October 6, 2011

Ms. Debra Thoma, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling  
Interstate Truck Stop  
U.S. Highway 301 and Cemetery Road  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332, CA # 40581  
MECI Project Number 11-3526  
Certified Site Rehabilitation Contractor UCC-0009



Dear Ms. Thoma,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

#### PROJECT INFORMATION

The subject site (Interstate Truck Stop) is located at the Intersection of U.S. Highway 301 & Cemetery Road, Ulmer, Allendale County, South Carolina. The subject site currently maintains three 4,000 gallon diesel underground storage tanks (UST's), two 6,000 gallon gasoline UST's, one 6,000 gallon diesel UST, and three 8,000 gallon diesel UST's. These UST's have been Rendered Non-Useable at an unknown date. The South Carolina Department of Health and Environmental Control (SCDHEC) reported a release of petroleum product from these UST's in June of 2002 and confirmed the release in October of 2002. The subject site is currently rated a Class 2BB.

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

#### MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On October 05, 2011, MECI personnel collected groundwater samples from twenty four (24) monitoring wells and one water supply well (WSW-2) at the subject site. Monitoring wells MW-11, MW-14, MW-17, and DW-3 were located at the time of sampling. MECI personnel utilized an

electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Based on a request by SCDHEC personnel, not all of the wells were purged prior to sampling. Five (5) monitoring wells were purged prior to sampling. Purging was completed by bailing at least three well volumes of water from the well or until pH, conductivity, dissolved oxygen stabilized to within 10%, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized YSI550A meter for DO (mg/L) and temperature readings (°C) and YSI63 meters for pH and conductivity (uS) readings. The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP, Dated June 2011) and MECI's Standard Operating Procedures (MECI SOP, Dated August, 2011).

Groundwater samples obtained were sent to Shealy Environmental Services, Inc. of West Columbia, SC (SCDHEC Laboratory Certification #32010) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Monitoring Well	Purge	No Purge	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 335.2)	Methane (RSK Method)	PAH's (EPA Method 8270)	Ferrous Iron (Field Test)
	Analyte Sampled												
MW-1		X		X	X	X	X						
MW-2		X		X	X	X	X						
MW-3		X		X	X	X	X						
MW-4R		X		X	X	X	X						
MW-5R		X		X	X	X	X						
MW-6		X		X	X	X	X						
MW-8		X		X	X	X	X						
MW-9		X		X	X	X	X						
MW-10		X		X	X	X	X						
MW-12		X		X	X	X	X						
MW-13		X		X	X	X	X						
MW-15		X		X	X	X	X						
MW-16		X		X	X	X	X						
MW-18		X		X	X	X	X						
MW-19		X		X	X	X	X						
MW-20		X		X	X	X	X						
MW-21		X		X	X	X	X						
MW-22		X		X	X	X	X						
DW-1	X			X	X	X	X						

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

\* = Indicates Duplicate Sample

Monitoring Well	Purge	No Purge	Gauge Only	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 335.2)	Methane (RSK Method)	PAH's (EPA Method 8270)	Ferrous Iron (Field Test)
Analyte Sampled													
DW-2	X			X	X	X	X						
DW-4	X			X	X	X	X						
DW-5	X			X	X	X	X						
DW-6	X			X	X	X	X						
*MW-1 (2)		X		X	X	X	X						
*MW-3 (2)		X		X	X	X	X						
Trip Blank				X		X	X						
Field Blank				X		X	X						
Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dichloroethane PAH = polycyclic aromatic hydrocarbons													
* = Indicates Duplicate Sample													

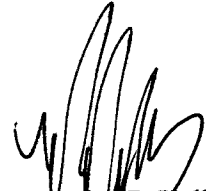
Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 35.0 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

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

Sincerely,  
Midlands Environmental Consultants, Inc.



Courtney M. Sanders  
Staff Biologist



Brandon P. Kelly  
Project Scientist

Attachments:



**Contractor Checklist**

Item#	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?			X
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

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

### Site Activity Summary

**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Stop  
**County:** Allendale  
**Field Personnel:** Brian Owen and Chris Lashley

  
 Midlands Environmental Consultants, Inc.  
 235-B Dooley Road, Lexington, SC 29073  
 (803) 808-2043 fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	# Gals. Purged	Comments
MW-1 (1)	Y	10/5/11	12:55	25-35	***	28.72	***	***	Odor; One Bolt Added
MW-2	Y	10/5/11	13:45	25-35	***	28.60	***	***	Odor
MW-3 (1)	Y	10/5/11	13:05	24-34	***	29.05	***	***	Odor
MW-4R	Y	10/5/11	13:30	25-35	***	27.31	***	***	Odor
MW-5R	Y	10/5/11	11:36	25-35	***	31.20	***	***	Odor
MW-6	Y	10/5/11	14:00	25-35	***	28.45	***	***	No Odor
MW-7	Y	10/5/11	12:13	25-35	***	31.10	***	***	No Odor
MW-8	Y	10/5/11	11:47	25-35	***	30.30	***	***	Dry
MW-9	Y	10/5/11	11:07	25-35	***	28.12	***	***	Odor; One Bolt Added
MW-10	Y	10/5/11	11:15	25-35	***	27.30	***	***	Odor
MW-11	N	***	***	25-35	***	***	***	***	Not Located; Utilized Metal Detector and Measured from known wells
MW-12	Y	10/5/11	10:40	25-35	***	25.59	***	***	No Odor
MW-13	Y	10/5/11	10:05	25-35	***	26.75	***	***	No Odor; One Bolt Added
MW-14	N	***	***	25-35	***	***	***	***	Not Located; Believed to be destroyed; A ditch has been created with new water lines and fire hydrant
MW-15	Y	10/5/11	10:55	15-35	***	27.74	***	***	No Odor
								0.0	<b>TOTAL GALLONS PURGED</b>

### Site Activity Summary

**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Stop  
**County:** Allendale  
**Field Personnel:** Brian Owen and Chris Lashley


**Midlands  
Environmental  
Consultants, Inc.**  
 235-B Dooley Road, Lexington, SC 29073  
 (803) 808-2043 Fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	# Gals. Purged	Comments
MW-16	Y	10/5/11	10:58	15-35	***	30.00	***	***	Odor
MW-17	N	***	***	15-35	***	***	***	***	Not Located; Utilized Metal Detector and Measured from known wells
MW-18	Y	10/5/11	13:10	15-35	***	24.97	***	***	No Odor
MW-19	Y	10/5/11	13:17	15-35	***	25.73	***	***	No Odor; One Bolt Added
MW-20	Y	10/5/11	9:50	15-35	***	26.75	***	***	No Odor
MW-21	Y	10/5/11	14:05	25-35	***	30.60	***	***	Odor
MW-22	Y	10/5/11	11:20	25-35	***	29.20	***	***	Odor
DW-1	Y	10/5/11	13:45	65-70	***	25.30	***	7.0	No Odor
DW-2	Y	10/5/11	13:33	65-70	***	29.20	***	5.0	No Odor
DW-3	N	***	***	65-70	***	***	***	***	Not Located; Believed to be destroyed; A ditch has been created with new water lines and fire hydrant
DW-4	Y	10/5/11	10:11	65-70	***	28.45	***	6.0	No Odor; Two Bolts Added
DW-5	Y	10/5/11	12:20	80-85	***	32.11	***	8.0	No Odor; One Bolt Added
DW-6	Y	10/5/11	11:42	80-85	***	31.76	***	9.0	No Odor
WSW-2	Y	10/5/11	12:25	***	***	***	***	***	No Odor
MW-1 Duplicate	Y	10/5/11	12:55	***	***	***	***	***	Duplicate
								35.0	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Stop  
**County:** Allendale  
**Field Personnel:** Brian Owen and Chris Lashley

  
**Midlands Environmental Consultants, Inc.**  
 235-B Dooley Road, Lexington, SC 29073  
 (803) 808-2043 fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	# Gals. Purged	Comments
MW-3 Duplicate	Y	10/5/11	13:05	***	***	***	***	***	Duplicate
Field Blank	Y	10/5/11	11:25	***	***	***	***	***	Field Blank
Trip Blank	Y	10/5/11	11:24	***	***	***	***	***	Trip Blank
36.0								<b>TOTAL GALLONS PURGED</b>	

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 10/5/2011

Field Personnel: Brian Owen and Chris Lashley

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	<u>02A0831</u>	serial no.	<u>02A0831</u>
pH=4.0	<u></u>	standard	<u>X</u>
pH=7.0	<u>X</u>	standard	<u></u>
pH=10.0	<u></u>	standard	<u></u>

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
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Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # DW-1

Water Supply Well      Public  Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

* Free Product Thickness:	<u></u>	feet
Depth to Free Product (DFP)	<u></u>	feet
Depth to Ground Water (DGW)	<u>25.30</u>	feet
Total Well Depth (TWD)	<u>70</u>	feet
Length of the water column (LWC=TWD-DGW)	<u>44.7</u>	feet
1 casing volume (CV=LWC X C)=	<u>X 0.163</u>	<u>7.29</u> gallons
3 casing volume (3 X CV)=	<u>3</u>	<u>21.86</u> gallons

Total Volume of Water Purged Before Sampling 7 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	13:35	13:45						
pH (s.u.)	6.64	6.42						
Specific Conductivity (µmhos/cm)	249.9	216.1						
Water Temperature (°C)	25.4	23.5						
Dissolved Oxygen	2.92	2.69						
PID readings, if required								

Remarks: Sample Time: 13:45 Dry at 7 Gallons

South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 10/5/2011

**Field Personnel:** Brian Owen and Chris Lashley

**General Weather Conditions:** Sunny

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

pH Meter YSI Model 550A	Conductivity Meter
serial no. <u>02A0831</u>	serial no. <u>02A0831</u>
pH=4.0 _____	standard <u>X</u>
pH=7.0 <u>X</u>	standard _____
pH=10.0 _____	standard _____

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** DW-2

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** \_\_\_\_\_ feet

**Depth to Free Product (DFP)** \_\_\_\_\_ feet

**Depth to Ground Water (DGW)** 29.20 feet

**Total Well Depth (TWD)** 70 feet

**Length of the water column (LWC=TWD-DGW)** 40.8 feet

1 casing volume (CV=LWC X C)= _____ X	<u>0.163</u>	<u>6.65</u>	gallons
3 casing volume (3 X CV)= _____	<u>3</u>	<u>19.95</u>	gallons

**Total Volume of Water Purged Before Sampling** 5 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:25	12:33						
pH (s.u.)	7.97	7.88						
Specific Conductivity (µmhos/cm)	231.0	206.8						
Water Temperature (°C)	22.1	21.8						
Dissolved Oxygen	3.74	4.11						
PID readings, if required								

**Remarks:** \_\_\_\_\_ **Sample Time:** 12:33 **Dry at 5 Gallons**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 10/5/2011

**Field Personnel:** Brian Owen and Chris Lashley

**General Weather Conditions:** Sunny

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	<u>02A0831</u>	serial no.	<u>02A0831</u>
pH=4.0	<u></u>	standard	<u>X</u>
pH=7.0	<u>X</u>	standard	<u></u>
pH=10.0	<u></u>	standard	<u></u>

Chain of Custody

<u></u>	<u></u>	<u></u>	<u></u>
Relinquished by	Date/Time	Received by	Date/Time

**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** DW-4

**Water Supply Well**      **Public**       **Private**

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:**  feet

**Depth to Free Product (DFP)**  feet

**Depth to Ground Water (DGW)** 28.48 feet

**Total Well Depth (TWD)** 70 feet

**Length of the water column (LWC=TWD-DGW)** 41.52 feet

1 casing volume (CV=LWC X C)=	<u>X</u>	<u>0.163</u>	<u>6.77</u>	gallons
3 casing volume (3 X CV)=		<u>3</u>	<u>20.30</u>	gallons

**Total Volume of Water Purged Before Sampling** 6 gals.

*\*If free product is present over 1/8 inch, sampling will not be required.*

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	10:01	10:11						
pH (s.u.)	10.98	11.15						
Specific Conductivity (µmhos/cm)	1,217.0	1,228.0						
Water Temperature (°C)	22.4	21.5						
Dissolved Oxygen	7.02	6.10						
PID readings, if required								

**Remarks:** Sample Time: 10:11      Dry at 6 Gallons



**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 10/5/2011

Field Personnel: Brian Owen and Chris Lashley

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	<u>02A0831</u>	serial no.	<u>02A0831</u>
pH=4.0	<u>                    </u>	standard	<u>X</u>
pH=7.0	<u>X</u>	standard	<u>                    </u>
pH=10.0	<u>                    </u>	standard	<u>                    </u>

Chain of Custody

<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # DW-5

Water Supply Well          Public                      Private                     

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness:                      feet  
Depth to Free Product (DFP)                      feet  
Depth to Ground Water (DGW) 32.11 feet  
Total Well Depth (TWD) 85 feet  
Length of the water column (LWC=TWD-DGW) 52.89 feet  
1 casing volume (CV=LWC X C)=        X 0.163 8.62 gallons  
3 casing volume (3 X CV)= 3 25.86 gallons

Total Volume of Water Purged Before Sampling 8 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	11:50	12:05					
pH (s.u.)	10.04	10.27					
Specific Conductivity (µmhos/cm)	629.0	652.0					
Water Temperature (°C)	21.2	20.8					
Dissolved Oxygen	4.88	4.89					
PID readings, if required							

Remarks:                      Sample Time: 12:05 Dry at 8 Gallons

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 10/5/2011

**Field Personnel:** Brian Owen and Chris Lashley

**General Weather Conditions:** Sunny

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

pH Meter	YSI Model 550A	Conductivity Meter	
serial no.	<u>02A0831</u>	serial no.	<u>02A0831</u>
pH=4.0	<u></u>	standard	<u>X</u>
pH=7.0	<u>X</u>	standard	<u></u>
pH=10.0	<u></u>	standard	<u></u>

Chain of Custody

<u></u>	<u></u>	<u></u>	<u></u>
Relinquished by	Date/Time	Received by	Date/Time

**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332 **Monitoring Well #** DW-6

**Water Supply Well** Public **Private**

**Monitoring Well Diameter (D):** 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness:  feet

Depth to Free Product (DFP)  feet

Depth to Ground Water (DGW) 31.76 feet

Total Well Depth (TWD) 85 feet

Length of the water column (LWC=TWD-DGW) 53.24 feet

1 casing volume (CV=LWC X C)= X 0.163 8.68 gallons

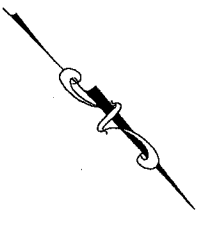
3 casing volume (3 X CV)= 3 26.03 gallons

Total Volume of Water Purged Before Sampling 9 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

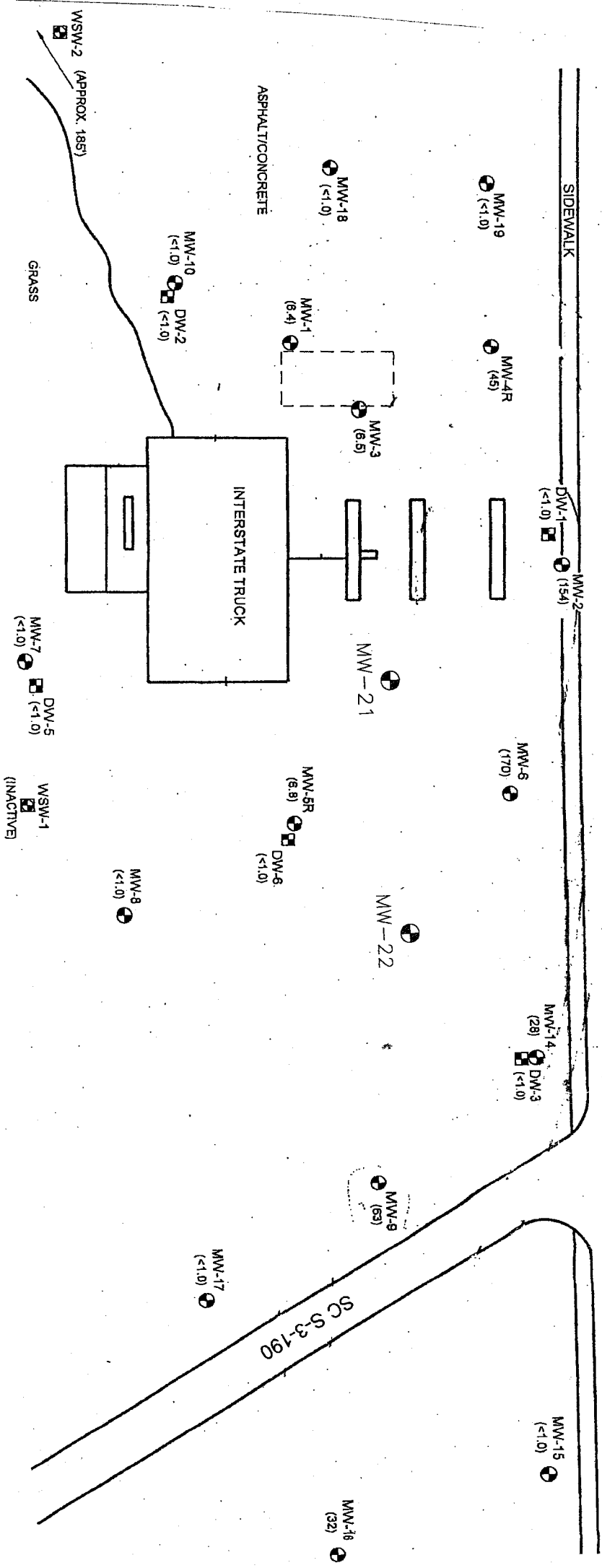
Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:26	11:42						
pH (s.u.)	8.42	5.21						
Specific Conductivity (µmhos/cm)	209.1	177.5						
Water Temperature (°C)	21.8	20.9						
Dissolved Oxygen	3.80	4.20						
PID readings, if required								

Remarks:  Sample Time: 11:42 Dry at 9 Gallons



MW-11 (1.0) WOODED  
 MW-12 (1.0)  
 MW-13 (1.0) DW-4 (1.0)  
 MW-20 (1.0) WOODED

HIGHWAY 301 / HIGHWAY 321

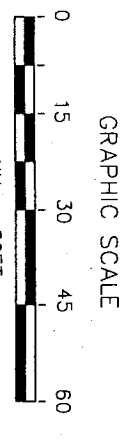


**Explanation:**

- MW-7 SHALLOW MONITORING WELL
- (1.0) CONTAMINANT CONCENTRATION (ppb)
- DW-2 DEEP MONITORING WELL
- (1.0) CONTAMINANT CONCENTRATION (ppb)
- WSW-1 WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND

Groundwater Elevation Data			
Well #	Depth to Water (feet)	Well Head Elevation	Groundwater Elevation
MW-21	28.68	103.77	75.09
MW-22	27.36	101.67	74.31

Notes: Depth to groundwater measured on October 25, 2010.



ALL LOCATIONS ARE APPROXIMATE

**Site Features**

Interstate Truck Stop  
 Ulmer, South Carolina  
 SCDHEC Site ID # 00332

**Midlands Environmental Consultants, Inc.**

JOB NO. 10-3038  
DATE October 26, 2010

Figure 2

Drawing Based on MECI Field Notes and Map Generated by Consultech Environmental, LLC Dated 12/30/08.



Chain of Custody Record

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

Number 04024

Client: SCDEMC-UST, Report to Contact: D Thoma, Sampler: CHRIS CASNEY, Quote No.
Address: 2664 Bull Street, Telephone: 803-796-7957, Waybill No.
City: Columbia, State: SC, Zip Code: 29201, Preservative: 1. Unpres., 4. HNO3, 7. NaOH, 2. NaOH/ZnA, 5. HCL, 3. H2SO4, 6. Na Thio.
Project Name: Interestek Trench Terminal, Project Number: 00332 / 70592, P.O Number: 4600288529
Matrix: GW, DW, WW, S, Other
Analysis: 3, 3, A, S, S
Remarks / Cooler ID: C DOR, C DOR, C DOR, C DOR, C DOR, C DOR, No note, No note
Turn Around Time Required (Prior lab approval required for expedited TAT)
Sample Disposal: Return to Client, Disposal by Lab
QC Requirements (Specify)
Possible Hazard Identification: Non-Hazard, Flammable, Skin Irritant, Poison, Unknown
1. Relinquished by / Sampler: Date 10-6-11, Time 11:17
2. Received by: Date 10-6-11, Time 11:47
3. Received by
4. Laboratory Received by
Note: All samples are retained for six weeks from receipt unless other arrangements are made.
LAB USE ONLY
Received on Ice (Check) Yes No Ice Pack Receipt Temp. °C Temp. Blank Y / N



# Chain of Custody Record

## Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

# Number 04025

Client <i>SCDHEC</i>		Report to Contact <i>D THOMA</i>				Sampler (Printed Name) <i>Chas LASHLEY</i>				Quote No.																								
Address <i>2600 Bull Street</i>		Telephone No. / Fax No. / Email <i>803-896-7957</i>				Waybill No.				Page <i>2 of 3</i>																								
City <i>Columbia</i>	State <i>SC</i>	Zip Code <i>29201</i>	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.				3		3		Number of Containers																							
Project Name <i>Industrial Truck Terminal</i>			Project Number <i>00332 / 40582</i>				P.O Number <i>4600089529</i>				Bottle (See Instructions on back)																							
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				Preservative																								
						Analysis <i>Five Metals</i>				Lot No.																								
<i>MW 9</i>			<i>10/5</i>	<i>1107</i>	<i>G</i>	<i>X</i>						<i>ODOR</i>																						
<i>MW 10</i>				<i>1115</i>								<i>ODOR</i>																						
<i>MW 12</i>				<i>1040</i>								<i>No odor</i>																						
<i>MW 13</i>				<i>1005</i>								<i>No odor</i>																						
<i>MW 15</i>				<i>1055</i>								<i>No odor</i>																						
<i>MW 16</i>				<i>1058</i>								<i>ODOR</i>																						
<i>MW 18</i>				<i>1310</i>								<i>No odor</i>																						
<i>MW 19</i>				<i>1317</i>								<i>No odor</i>																						
<i>MW 20</i>				<i>950</i>								<i>No odor</i>																						
<i>MW 21</i>			<i>10/5</i>	<i>1105</i>	<i>G</i>	<i>X</i>						<i>odor</i>																						
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)					Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab					QC Requirements (Specify)					Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown																			
1. Relinquished by Sampler <i>[Signature]</i>					Date <i>10-6-11</i>					Time <i>1147</i>					1. Received by <i>[Signature]</i>					Date <i>10-6-11</i>					Time <i>1047</i>									
2. Relinquished by					Date					Time					2. Received by					Date					Time									
3. Relinquished by					Date					Time					3. Received by					Date					Time									
4. Relinquished by					Date					Time					4. Laboratory Received by					Date					Time									
<b>Note: All samples are retained for six weeks from receipt unless other arrangements are made.</b>															<b>LAB USE ONLY</b> Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack										Receipt Temp. _____ °C					Temp. Blank <input type="checkbox"/> Y / <input type="checkbox"/> N				



Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 04022

Client SCDHEC		Report to Contact D THOMAS		Sampler (Printed Name) Chris Lesky		Quote No.			
Address 2600 Bull Street		Telephone No. / Fax No. / Email 803-796-7957		Waybill No.		Page 3 of 3			
City Columbia	State SC	Zip Code 29201	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.		Number of Containers		Bottle (See Instructions on back)		
Project Name Intensitat Trucl Trucl		Project Number 10332 / 40582		P.O Number 4600088529		Preservative			
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	Lot No.			
				Analysis BIOG, METALS MIBG 1.0 DEN 5.0 DEN	EDB	Remarks / Cooler ID			
MW 22		10/5	1120			X	X	X	adu
DW-1			1315						NE adu
DW 2			1333						N.O. adu
DW 4			1011						NE adu
DW 5			1220						NE adu
DW 6			1112				X		NE adu
WSW 2			1225			C		X	
Field Blank		10/5	1125						
Tap Blank									
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)		Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab		QC Requirements (Specify)		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown			
1. Relinquished by / Sampler <i>[Signature]</i>		Date 10/6/11	Time 1147	1. Received by <i>[Signature]</i>		Date 10/6/11	Time 1147		
2. Relinquished by		Date	Time	2. Received by		Date	Time		
3. Relinquished by		Date	Time	3. Received by		Date	Time		
4. Relinquished by		Date	Time	4. Laboratory Received by		Date	Time		
Note: All samples are retained for six weeks from receipt unless other arrangements are made.				LAB USE ONLY Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack		Receipt Temp. _____ °C Temp. Blank <input type="checkbox"/> Y / <input type="checkbox"/> N			



Midlands  
Environmental  
Consultants, Inc.

October 6, 2011

Re: Treatment of Purge Water  
Interstate Truck Stop  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 11-3526

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

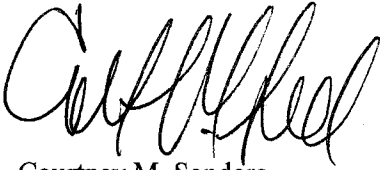
October 6, 2011

**A total of 35.0 gallons were treated on October 05, 2011, 2011 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.

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

Courtney M. Sanders  
Staff Biologist



# SHEALY ENVIRONMENTAL SERVICES, INC.

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## Report of Analysis

**SC DHEC - UST Management**  
2600 Bull Street  
Columbia, SC 29201  
Attention: Debra Thoma

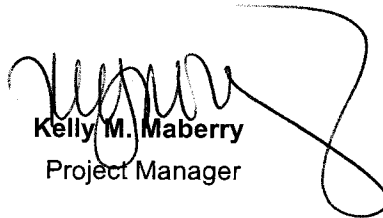


Project Name: **Interstate Truck Terminal**

Project Number: **UST Permit #00332/CA #40582**

Lot Number: **MJ06029**

Date Completed: **10/14/2011**

  
**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.



# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

## Case Narrative SC DHEC - UST Management Lot Number: MJ06029

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.

Shealy is not NELAC certified for Phosphorus by 365.1 but is certified in SC and NC.

Shealy is not NELAC certified for VPH, but is certified for VPH in NC.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

### Sample Receiving

Sample -025 for volatiles analysis contained two vials with air bubbles greater than ¼" or 6mm in diameter. The laboratory uses these vials for screening and the vials without bubbles for analysis whenever possible. Condition of samples is documented on the Sample Receipt Checklist (SRC).

### GC/MS Volatiles

The continuing calibration verification for batch 69464 had tert-Butyl formate recovered above the acceptance limits. There were no detections for this compound in the samples associated with this batch; therefore, data quality is not impacted.

The LCS/LCSD associated with batches 69321 and 69371 had tert-Butyl formate and ethanol recovered above the acceptance limits. This demonstrates a high bias on analytical results. There were no detections for this compound in the samples associated with these batches; therefore, data quality is not impacted.

The LCS associated with batch 69464 had tert-Butyl formate, 3,3-dimethyl-1-butanol and ethanol recovered above the acceptance limits. This demonstrates a high bias on analytical results. There were no detections for these compounds in the samples associated with this batch; therefore, data quality is not impacted.

The MS associated with sample -007 had naphthalene and xylenes recovered outside of the acceptance limits. This demonstrates a matrix effect and data quality is not impacted.

### EDB/DBCP

The sample results for -003, -006 and -018 have P qualifiers because the relative percent difference (RPD) between the two dissimilar phase GC columns exceeds 40%. Section 7.10.4 of SW-846 method 8000B states the higher of the two results is to be reported; however the lower results are reported for these samples. The higher result for sample -003 was 0.20 ug/L. The higher result for sample -006 was 0.22 ug/L. The higher result for sample -018 was 0.22 ug/L.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary SC DHEC - UST Management Lot Number: MJ06029

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	10/05/2011 1255	10/06/2011
002	MW-1 Duplicate	Aqueous	10/05/2011 1255	10/06/2011
003	MW-2	Aqueous	10/05/2011 1346	10/06/2011
004	MW-3	Aqueous	10/05/2011 1305	10/06/2011
005	MW-3 Duplicate	Aqueous	10/05/2011 1305	10/06/2011
006	MW-4R	Aqueous	10/05/2011 1330	10/06/2011
007	MW-5R	Aqueous	10/05/2011 1136	10/06/2011
008	MW-6	Aqueous	10/05/2011 1400	10/06/2011
009	MW-7	Aqueous	10/05/2011 1213	10/06/2011
010	MW-8	Aqueous	10/05/2011 1147	10/06/2011
011	MW-9	Aqueous	10/05/2011 1107	10/06/2011
012	MW-10	Aqueous	10/05/2011 1115	10/06/2011
013	MW-12	Aqueous	10/05/2011 1040	10/06/2011
014	MW-13	Aqueous	10/05/2011 1005	10/06/2011
015	MW-15	Aqueous	10/05/2011 1055	10/06/2011
016	MW-16	Aqueous	10/05/2011 1058	10/06/2011
017	MW-18	Aqueous	10/05/2011 1310	10/06/2011
018	MW-19	Aqueous	10/05/2011 1317	10/06/2011
019	MW-20	Aqueous	10/05/2011 0950	10/06/2011
020	MW-21	Aqueous	10/05/2011 1405	10/06/2011
021	MW-22	Aqueous	10/05/2011 1120	10/06/2011
022	DW-1	Aqueous	10/05/2011 1345	10/06/2011
023	DW-2	Aqueous	10/05/2011 1333	10/06/2011
024	DW-4	Aqueous	10/05/2011 1011	10/06/2011
025	DW-5	Aqueous	10/05/2011 1220	10/06/2011
026	DW-6	Aqueous	10/05/2011 1142	10/06/2011
027	WSW-2	Aqueous	10/05/2011 1225	10/06/2011
028	Field Blank	Aqueous	10/05/2011 1125	10/06/2011
029	Trip Blank	Aqueous	10/05/2011	10/06/2011

(29 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary SC DHEC - UST Management Lot Number: MJ06029

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
003	MW-2	Aqueous	Benzene	8260B	200		ug/L	10
003	MW-2	Aqueous	Ethylbenzene	8260B	2600		ug/L	10
003	MW-2	Aqueous	Toluene	8260B	6500		ug/L	10
003	MW-2	Aqueous	Xylenes (total)	8260B	9300		ug/L	10
003	MW-2	Aqueous	tert-Amyl alcohol (TAA)	8260B	1900	J	ug/L	10
003	MW-2	Aqueous	1,2-Dibromoethane (EDB)	8011	0.039	P	ug/L	11
004	MW-3	Aqueous	Benzene	8260B	2.3	J	ug/L	12
004	MW-3	Aqueous	Ethylbenzene	8260B	39		ug/L	12
004	MW-3	Aqueous	Naphthalene	8260B	40		ug/L	12
004	MW-3	Aqueous	Toluene	8260B	6.2		ug/L	12
004	MW-3	Aqueous	Xylenes (total)	8260B	110		ug/L	12
004	MW-3	Aqueous	tert-Amyl alcohol (TAA)	8260B	38	J	ug/L	12
005	MW-3 Duplicate	Aqueous	Benzene	8260B	1.9	J	ug/L	14
005	MW-3 Duplicate	Aqueous	Ethylbenzene	8260B	30		ug/L	14
005	MW-3 Duplicate	Aqueous	Naphthalene	8260B	36		ug/L	14
005	MW-3 Duplicate	Aqueous	Toluene	8260B	5.6		ug/L	14
005	MW-3 Duplicate	Aqueous	Xylenes (total)	8260B	93		ug/L	14
005	MW-3 Duplicate	Aqueous	tert-Amyl alcohol (TAA)	8260B	39	J	ug/L	14
006	MW-4R	Aqueous	Benzene	8260B	32	J	ug/L	16
006	MW-4R	Aqueous	Ethylbenzene	8260B	950		ug/L	16
006	MW-4R	Aqueous	Toluene	8260B	1400		ug/L	16
006	MW-4R	Aqueous	Xylenes (total)	8260B	3900		ug/L	16
006	MW-4R	Aqueous	tert-Amyl alcohol (TAA)	8260B	540	J	ug/L	16
006	MW-4R	Aqueous	1,2-Dibromoethane (EDB)	8011	0.064	P	ug/L	17
007	MW-5R	Aqueous	Benzene	8260B	9.6		ug/L	18
007	MW-5R	Aqueous	Ethylbenzene	8260B	420		ug/L	18
007	MW-5R	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.61	J	ug/L	18
007	MW-5R	Aqueous	Naphthalene	8260B	250		ug/L	18
007	MW-5R	Aqueous	Toluene	8260B	40		ug/L	18
007	MW-5R	Aqueous	Xylenes (total)	8260B	1300		ug/L	18
007	MW-5R	Aqueous	tert-Amyl alcohol (TAA)	8260B	95	J	ug/L	18
008	MW-6	Aqueous	Benzene	8260B	50		ug/L	20
008	MW-6	Aqueous	1,2-Dichloroethane	8260B	1.8	J	ug/L	20
008	MW-6	Aqueous	Ethylbenzene	8260B	230		ug/L	20
008	MW-6	Aqueous	Naphthalene	8260B	170		ug/L	20
008	MW-6	Aqueous	Toluene	8260B	390		ug/L	20
008	MW-6	Aqueous	Xylenes (total)	8260B	1300		ug/L	20
008	MW-6	Aqueous	tert-Amyl alcohol (TAA)	8260B	2000		ug/L	20
008	MW-6	Aqueous	tert-butyl alcohol (TBA)	8260B	190	J	ug/L	20
011	MW-9	Aqueous	Benzene	8260B	42	J	ug/L	26
011	MW-9	Aqueous	Ethylbenzene	8260B	180		ug/L	26
011	MW-9	Aqueous	Naphthalene	8260B	180		ug/L	26
011	MW-9	Aqueous	Toluene	8260B	430		ug/L	26
011	MW-9	Aqueous	Xylenes (total)	8260B	2200		ug/L	26
011	MW-9	Aqueous	tert-Amyl alcohol (TAA)	8260B	480	J	ug/L	26

## Executive Summary (Continued)

Lot Number: MJ06029

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
015	MW-15	Aqueous	Benzene	8260B	0.28	J	ug/L	34
016	MW-16	Aqueous	Benzene	8260B	50		ug/L	36
016	MW-16	Aqueous	Ethylbenzene	8260B	270		ug/L	36
016	MW-16	Aqueous	Naphthalene	8260B	490		ug/L	36
016	MW-16	Aqueous	Toluene	8260B	73		ug/L	36
016	MW-16	Aqueous	Xylenes (total)	8260B	2400		ug/L	36
016	MW-16	Aqueous	tert-Amyl alcohol (TAA)	8260B	230	J	ug/L	36
018	MW-19	Aqueous	Benzene	8260B	7.4		ug/L	40
018	MW-19	Aqueous	1,2-Dichloroethane	8260B	0.62	J	ug/L	40
018	MW-19	Aqueous	Ethylbenzene	8260B	180		ug/L	40
018	MW-19	Aqueous	Naphthalene	8260B	22		ug/L	40
018	MW-19	Aqueous	Toluene	8260B	130		ug/L	40
018	MW-19	Aqueous	Xylenes (total)	8260B	900		ug/L	40
018	MW-19	Aqueous	tert-Amyl alcohol (TAA)	8260B	630		ug/L	40
018	MW-19	Aqueous	1,2-Dibromoethane (EDB)	8011	0.10	P	ug/L	41
019	MW-20	Aqueous	Ethylbenzene	8260B	1.9	J	ug/L	42
019	MW-20	Aqueous	Naphthalene	8260B	21		ug/L	42
019	MW-20	Aqueous	Xylenes (total)	8260B	1.8	J	ug/L	42
020	MW-21	Aqueous	Benzene	8260B	11		ug/L	44
020	MW-21	Aqueous	Ethylbenzene	8260B	150		ug/L	44
020	MW-21	Aqueous	Naphthalene	8260B	53		ug/L	44
020	MW-21	Aqueous	Toluene	8260B	220		ug/L	44
020	MW-21	Aqueous	Xylenes (total)	8260B	710		ug/L	44
020	MW-21	Aqueous	tert-Amyl alcohol (TAA)	8260B	44	J	ug/L	44
020	MW-21	Aqueous	1,2-Dibromoethane (EDB)	8011	0.067		ug/L	45
021	MW-22	Aqueous	Benzene	8260B	67	J	ug/L	46
021	MW-22	Aqueous	Ethylbenzene	8260B	1200		ug/L	46
021	MW-22	Aqueous	Naphthalene	8260B	400		ug/L	46
021	MW-22	Aqueous	Toluene	8260B	1900		ug/L	46
021	MW-22	Aqueous	Xylenes (total)	8260B	5800		ug/L	46
021	MW-22	Aqueous	tert-Amyl alcohol (TAA)	8260B	320	J	ug/L	46
021	MW-22	Aqueous	1,2-Dibromoethane (EDB)	8011	0.022		ug/L	47
025	DW-5	Aqueous	Benzene	8260B	0.20	J	ug/L	54
025	DW-5	Aqueous	Xylenes (total)	8260B	2.8	J	ug/L	54

(79 detections)

Description: MW-1

Matrix: Aqueous

Date Sampled: 10/05/2011 1255

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 1442	JJG		69319			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1	
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		92	70-130							
Bromofluorobenzene		99	70-130							
Toluene-d8		96	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/11/2011 1551	BM		69464			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		95	70-130							
1,2-Dichloroethane-d4		112	70-130							
Toluene-d8		106	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0449	NCM	10/11/2011 1557	69468			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0449	NCM	10/11/2011 1557	69468			

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		99	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-1 Duplicate

Matrix: Aqueous

Date Sampled: 10/05/2011 1255

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 1505	JJG		69319			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1	
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		94	70-130							
Bromofluorobenzene		100	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	5030B	8260B	1	10/11/2011 1612	BM		69464			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		94	70-130							
1,2-Dichloroethane-d4		112	70-130							
Toluene-d8		105	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0555	NCM	10/11/2011 1557	69468			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time



Client: SC DHEC - UST Management

Laboratory ID: MJ06029-002

Description: MW-1 Duplicate

Matrix: Aqueous

Date Sampled: 10/05/2011 1255

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0555	NCM	10/11/2011 1557	69468			
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		86	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-2

Matrix: Aqueous

Date Sampled: 10/05/2011 1346

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	40	10/11/2011 0000	JJG		69391			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	200		200	8.0	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		200	12	ug/L	1	
Ethylbenzene		100-41-4	8260B	2600		200	68	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		200	16	ug/L	1	
Naphthalene		91-20-3	8260B	ND		200	68	ug/L	1	
Toluene		108-88-3	8260B	6500		200	68	ug/L	1	
Xylenes (total)		1330-20-7	8260B	9300		200	68	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		84	70-130							
Bromofluorobenzene		93	70-130							
Toluene-d8		99	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	40	10/11/2011 0000	JJG		69391			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		400	16	ug/L	1	
Ethanol		64-17-5	8260B	ND		40000	1300	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		4000	40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		4000	8.0	ug/L	1	
tert-Amyl alcohol (TAA)		75-85-4	8260B	1900	J	4000	270	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		400	8.0	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		4000	270	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		4000	40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		93	70-130							
1,2-Dichloroethane-d4		84	70-130							
Toluene-d8		99	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0617	NCM	10/11/2011 1557	69468			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Client: SC DHEC - UST Management

Laboratory ID: MJ06029-003

Description: MW-2

Matrix: Aqueous

Date Sampled: 10/05/2011 1346

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0617	NCM	10/11/2011 1557	69468			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)		106-93-4	8011	0.039	P	0.019	0.019	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		110	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-3

Matrix: Aqueous

Date Sampled: 10/05/2011 1305

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
2	5030B	8260B	1	10/11/2011 1817	BM		69463				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	2.3	J	5.0	0.20	ug/L	2			
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2			
Ethylbenzene	100-41-4	8260B	39		5.0	1.7	ug/L	2			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2			
Naphthalene	91-20-3	8260B	40		5.0	1.7	ug/L	2			
Toluene	108-88-3	8260B	6.2		5.0	1.7	ug/L	2			
Xylenes (total)	1330-20-7	8260B	110		5.0	1.7	ug/L	2			
Surrogate	Q	Run 2 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		103	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	5030B	8260B	1	10/10/2011 1732	BM		69371				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1			
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1			
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1			
tert-Amyl alcohol (TAA)	75-85-4	8260B	38	J	100	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
Bromofluorobenzene		104	70-130								
1,2-Dichloroethane-d4		95	70-130								
Toluene-d8		102	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0639	NCM	10/11/2011 1557	69468			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<p>PQL = Practical quantitation limit            ND = Not detected at or above the MDL            Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"</p> <p>B = Detected in the method blank            J = Estimated result &lt; PQL and ≥ MDL</p> <p>E = Quantitation of compound exceeded the calibration range            P = The RPD between two GC columns exceeds 40%            N = Recovery is out of criteria            H = Out of holding time</p>										

Description: MW-3

Matrix: Aqueous

Date Sampled: 10/05/2011 1305

Date Received: 10/06/2011

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 0639	NCM	10/11/2011 1557	69468

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		109	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

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

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-3 Duplicate

Matrix: Aqueous

Date Sampled: 10/05/2011 1305

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
2	5030B	8260B	1	10/11/2011 1849	BM		69463				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	1.9	J	5.0	0.20	ug/L	2			
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2			
Ethylbenzene	100-41-4	8260B	30		5.0	1.7	ug/L	2			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2			
Naphthalene	91-20-3	8260B	36		5.0	1.7	ug/L	2			
Toluene	108-88-3	8260B	5.6		5.0	1.7	ug/L	2			
Xylenes (total)	1330-20-7	8260B	93		5.0	1.7	ug/L	2			
Surrogate	Q	Run 2 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		99	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	5030B	8260B	1	10/10/2011 1753	BM		69371				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1			
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1			
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1			
tert-Amyl alcohol (TAA)	75-85-4	8260B	39	J	100	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
Bromofluorobenzene		104	70-130								
1,2-Dichloroethane-d4		97	70-130								
Toluene-d8		101	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0701	NCM	10/11/2011 1557	69468			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Client: SC DHEC - UST Management

Laboratory ID: MJ06029-005

Description: MW-3 Duplicate

Matrix: Aqueous

Date Sampled: 10/05/2011 1305

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0701	NCM	10/11/2011 1557	69468			
Parameter	CAS Number		Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4		8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		108	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-4R

Matrix: Aqueous

Date Sampled: 10/05/2011 1330

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	20	10/11/2011 0021	JJG		69391			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	32	J	100	4.0	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		100	6.0	ug/L	1		
Ethylbenzene	100-41-4	8260B	950		100	34	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	8.0	ug/L	1		
Naphthalene	91-20-3	8260B	ND		100	34	ug/L	1		
Toluene	108-88-3	8260B	1400		100	34	ug/L	1		
Xylenes (total)	1330-20-7	8260B	3900		100	34	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		83	70-130							
Bromofluorobenzene		92	70-130							
Toluene-d8		98	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	20	10/11/2011 0021	JJG		69391			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		200	8.0	ug/L	1		
Ethanol	64-17-5	8260B	ND		20000	660	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	20	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		2000	4.0	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	540	J	2000	130	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	4.0	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	130	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2000	20	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		92	70-130							
1,2-Dichloroethane-d4		83	70-130							
Toluene-d8		98	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0723	NCM	10/11/2011 1557	69468			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time



Client: SC DHEC - UST Management

Laboratory ID: MJ06029-006

Description: MW-4R

Matrix: Aqueous

Date Sampled: 10/05/2011 1330

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0723	NCM	10/11/2011 1557	69468			
Parameter	CAS Number		Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4		8011	0.064	P	0.019	0.019	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		112	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-5R

Matrix: Aqueous

Date Sampled: 10/05/2011 1136

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	10/11/2011 0042	JJG		69391
2	5030B	8260B	1	10/12/2011 0245	JJG		69491

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	9.6		5.0	0.20	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2
Ethylbenzene	100-41-4	8260B	420		25	8.5	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	0.61	J	5.0	0.40	ug/L	2
Naphthalene	91-20-3	8260B	250		5.0	1.7	ug/L	2
Toluene	108-88-3	8260B	40		5.0	1.7	ug/L	2
Xylenes (total)	1330-20-7	8260B	1300		5.0	1.7	ug/L	2

Surrogate	Q	Run 1	Acceptance	Q	Run 2	Acceptance
		% Recovery	Limits		% Recovery	Limits
1,2-Dichloroethane-d4		81	70-130		101	70-130
Bromofluorobenzene		92	70-130		105	70-130
Toluene-d8		98	70-130		104	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	10/12/2011 0245	JJG		69491

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2
tert-Amyl alcohol (TAA)	75-85-4	8260B	95	J	100	6.7	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2

Surrogate	Q	Run 2	Acceptance
		% Recovery	Limits
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		101	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

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-5R

Matrix: Aqueous

Date Sampled: 10/05/2011 1136

Date Received: 10/06/2011

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0745	NCM	10/11/2011 1557	69468			
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		114	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-6

Matrix: Aqueous

Date Sampled: 10/05/2011 1400

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/07/2011 1528	JJG		69319
2	5030B	8260B	20	10/12/2011 0943	BM		69546

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	50		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	1.8	J	5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	230		100	34	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	170		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	390		100	34	ug/L	2
Xylenes (total)	1330-20-7	8260B	1300		100	34	ug/L	2

Surrogate	Run 1		Acceptance Limits	Run 2		Acceptance Limits
	Q	% Recovery		Q	% Recovery	
1,2-Dichloroethane-d4		81	70-130		100	70-130
Bromofluorobenzene		104	70-130		100	70-130
Toluene-d8		94	70-130		99	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	10/12/2011 0943	BM		69546

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		200	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	660	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		2000	4.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	2000		2000	130	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	4.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	190	J	2000	130	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2000	20	ug/L	1

Surrogate	Run 1		Acceptance Limits
	Q	% Recovery	
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 0807	NCM	10/11/2011 1557	69468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	0.021	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		117	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-7

Matrix: Aqueous

Date Sampled: 10/05/2011 1213

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/07/2011 1650	LBS		69293

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		103	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	5030B	8260B	1	10/07/2011 1650	LBS		69293

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		101	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 0829	NCM	10/11/2011 1557	69468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
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PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Client: SC DHEC - UST Management

Laboratory ID: MJ06029-009

Description: MW-7

Matrix: Aqueous

Date Sampled: 10/05/2011 1213

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 0829	NCM	10/11/2011 1557	69468

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		107	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-8

Matrix: Aqueous

Date Sampled: 10/05/2011 1147

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 1711	LBS		69293			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		100	70-130							
Bromofluorobenzene		101	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	5030B	8260B	1	10/07/2011 1711	LBS		69293			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		101	70-130							
1,2-Dichloroethane-d4		100	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0851	NCM	10/11/2011 1557	69468			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time



Client: SC DHEC - UST Management

Laboratory ID: MJ06029-010

Description: MW-8

Matrix: Aqueous

Date Sampled: 10/05/2011 1147

Date Received: 10/06/2011

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 0851	NCM	10/11/2011 1557	69468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		104	57-137						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-9

Matrix: Aqueous

Date Sampled: 10/05/2011 1107

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	10/11/2011 0317	JJG		69400
2	5030B	8260B	10	10/12/2011 1547	BM		69543

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	42	J	50	2.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		50	3.0	ug/L	1
Ethylbenzene	100-41-4	8260B	180		50	17	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	1
Naphthalene	91-20-3	8260B	180		50	17	ug/L	1
Toluene	108-88-3	8260B	430		50	17	ug/L	2
Xylenes (total)	1330-20-7	8260B	2200		50	17	ug/L	2

Surrogate	Q	Run 1		Q	Run 2	
		% Recovery	Acceptance Limits		% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130		114	70-130
Bromofluorobenzene		100	70-130		98	70-130
Toluene-d8		102	70-130		112	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	10/11/2011 0317	JJG		69400

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		100	4.0	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	330	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	10	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	2.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	480	J	1000	67	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	2.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	67	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	10	ug/L	1

Surrogate	Q	Run 1	
		% Recovery	Acceptance Limits
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0913	NCM	10/11/2011 1557	69468			

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		109	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-10

Matrix: Aqueous

Date Sampled: 10/05/2011 1115

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 1732	LBS		69293			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		102	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	5030B	8260B	1	10/07/2011 1732	LBS		69293			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		102	70-130							
1,2-Dichloroethane-d4		102	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0935	NCM	10/11/2011 1557	69468			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Client: SC DHEC - UST Management

Laboratory ID: MJ06029-012

Description: MW-10

Matrix: Aqueous

Date Sampled: 10/05/2011 1115

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 0935	NCM	10/11/2011 1557	69468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		103	57-137						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-12

Matrix: Aqueous

Date Sampled: 10/05/2011 1040

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 1754	LBS		69293			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1	
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		102	70-130							
Bromofluorobenzene		101	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	5030B	8260B	1	10/07/2011 1754	LBS		69293			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		101	70-130							
1,2-Dichloroethane-d4		102	70-130							
Toluene-d8		102	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 0957	NCM	10/11/2011 1557	69468			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Client: SC DHEC - UST Management

Laboratory ID: MJ06029-013

Description: MW-12

Matrix: Aqueous

Date Sampled: 10/05/2011 1040

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 0957	NCM	10/11/2011 1557	69468

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		104	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-13

Matrix: Aqueous

Date Sampled: 10/05/2011 1005

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 2046	JJG		69321			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1	
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		102	70-130							
Bromofluorobenzene		97	70-130							
Toluene-d8		97	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 2046	JJG		69321			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		97	70-130							
1,2-Dichloroethane-d4		102	70-130							
Toluene-d8		97	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1019	NCM	10/11/2011 1557	69468			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time



Description: MW-13

Matrix: Aqueous

Date Sampled: 10/05/2011 1005

Date Received: 10/06/2011

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1019	NCM	10/11/2011 1557	69468			
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		102	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-15

Matrix: Aqueous

Date Sampled: 10/05/2011 1055

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 2107	JJG		69321			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	0.28	J	5.0	0.20	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1	
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		106	70-130							
Bromofluorobenzene		100	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	5030B	8260B	1	10/07/2011 2107	JJG		69321			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		100	70-130							
1,2-Dichloroethane-d4		106	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1041	NCM	10/11/2011 1557	69468			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 1041	NCM	10/11/2011 1557	69468

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		112	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-16

Matrix: Aqueous

Date Sampled: 10/05/2011 1058

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
2	5030B	8260B	10	10/12/2011 1608	BM		69543				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	50		50	2.0	ug/L	2			
1,2-Dichloroethane	107-06-2	8260B	ND		50	3.0	ug/L	2			
Ethylbenzene	100-41-4	8260B	270		50	17	ug/L	2			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	2			
Naphthalene	91-20-3	8260B	490		50	17	ug/L	2			
Toluene	108-88-3	8260B	73		50	17	ug/L	2			
Xylenes (total)	1330-20-7	8260B	2400		50	17	ug/L	2			
Surrogate	Q	Run 2 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		114	70-130								
Bromofluorobenzene		95	70-130								
Toluene-d8		110	70-130								

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	4	10/11/2011 0338	JJG		69400				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Diisopropyl ether (IPE)	108-20-3	8260B	ND		40	1.6	ug/L	1			
Ethanol	64-17-5	8260B	ND		4000	130	ug/L	1			
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		400	4.0	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		400	0.80	ug/L	1			
tert-Amyl alcohol (TAA)	75-85-4	8260B	230	J	400	27	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		40	0.80	ug/L	1			
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		400	27	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		400	4.0	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
Bromofluorobenzene		101	70-130								
1,2-Dichloroethane-d4		99	70-130								
Toluene-d8		102	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1104	NCM	10/11/2011 1557	69468			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 1104	NCM	10/11/2011 1557	69468

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		113	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-18

Matrix: Aqueous

Date Sampled: 10/05/2011 1310

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 2128	JJG		69321			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		106	70-130							
Bromofluorobenzene		99	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	5030B	8260B	1	10/07/2011 2128	JJG		69321			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		99	70-130							
1,2-Dichloroethane-d4		106	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1126	NCM	10/11/2011 1557	69468			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<p>PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range  ND = Not detected at or above the MDL      J = Estimated result &lt; PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%  Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      N = Recovery is out of criteria      H = Out of holding time</p>										

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1126	NCM	10/11/2011 1557	69468			

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		108	57-137

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

Description: MW-19

Matrix: Aqueous

Date Sampled: 10/05/2011 1317

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	4	10/12/2011 1629	BM		69543
3	5030B	8260B	1	10/14/2011 1549	BM		69690

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	7.4		5.0	0.20	ug/L	3
1,2-Dichloroethane	107-06-2	8260B	0.62	J	5.0	0.30	ug/L	3
Ethylbenzene	100-41-4	8260B	180		5.0	1.7	ug/L	3
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	3
Naphthalene	91-20-3	8260B	22		5.0	1.7	ug/L	3
Toluene	108-88-3	8260B	130		5.0	1.7	ug/L	3
Xylenes (total)	1330-20-7	8260B	900		20	6.8	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits	Q	Run 3 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	70-130		95	70-130
Bromofluorobenzene		96	70-130		101	70-130
Toluene-d8		109	70-130		100	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	10/14/2011 1549	BM		69690

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2
tert-Amyl alcohol (TAA)	75-85-4	8260B	630		100	6.7	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time



Client: SC DHEC - UST Management

Laboratory ID: MJ06029-018

Description: MW-19

Matrix: Aqueous

Date Sampled: 10/05/2011 1317

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 1148	NCM	10/11/2011 1557	69468

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.10	P	0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-20

Matrix: Aqueous

Date Sampled: 10/05/2011 0950

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 2150	JJG		69321			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	1.9	J	5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	21		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	1.8	J	5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		106	70-130							
Bromofluorobenzene		101	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	5030B	8260B	1	10/07/2011 2150	JJG		69321			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		101	70-130							
1,2-Dichloroethane-d4		106	70-130							
Toluene-d8		102	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1210	NCM	10/11/2011 1557	69468			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Client: SC DHEC - UST Management

Laboratory ID: MJ06029-019

Description: MW-20

Matrix: Aqueous

Date Sampled: 10/05/2011 0950

Date Received: 10/06/2011

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1210	NCM	10/11/2011 1557	69468			
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		111	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-21

Matrix: Aqueous

Date Sampled: 10/05/2011 1405

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	2	10/12/2011 1401	BM		69546			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	11		10	0.40	ug/L	2	
1,2-Dichloroethane		107-06-2	8260B	ND		10	0.60	ug/L	2	
Ethylbenzene		100-41-4	8260B	150		10	3.4	ug/L	2	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		10	0.80	ug/L	2	
Naphthalene		91-20-3	8260B	53		10	3.4	ug/L	2	
Toluene		108-88-3	8260B	220		10	3.4	ug/L	2	
Xylenes (total)		1330-20-7	8260B	710		10	3.4	ug/L	2	
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		95	70-130							
Bromofluorobenzene		102	70-130							
Toluene-d8		99	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	2	10/12/2011 1401	BM		69546			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		20	0.80	ug/L	2	
Ethanol		64-17-5	8260B	ND		2000	66	ug/L	2	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		200	2.0	ug/L	2	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		200	0.40	ug/L	2	
tert-Amyl alcohol (TAA)		75-85-4	8260B	44	J	200	13	ug/L	2	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		20	0.40	ug/L	2	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		200	13	ug/L	2	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		200	2.0	ug/L	2	
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
Bromofluorobenzene		102	70-130							
1,2-Dichloroethane-d4		95	70-130							
Toluene-d8		99	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1706	NCM	10/11/2011 1807	69476			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-21

Matrix: Aqueous

Date Sampled: 10/05/2011 1405

Date Received: 10/06/2011

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1706	NCM	10/11/2011 1807	69476			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)		106-93-4	8011	0.067		0.019	0.019	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		107	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: MW-22

Matrix: Aqueous

Date Sampled: 10/05/2011 1120

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	10/11/2011 0442	JJG		69400
2	5030B	8260B	20	10/12/2011 1651	BM		69543

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	67	J	100	4.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		100	6.0	ug/L	1
Ethylbenzene	100-41-4	8260B	1200		100	34	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	8.0	ug/L	1
Naphthalene	91-20-3	8260B	400		100	34	ug/L	1
Toluene	108-88-3	8260B	1900		100	34	ug/L	2
Xylenes (total)	1330-20-7	8260B	5800		100	34	ug/L	2

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130		114	70-130
Bromofluorobenzene		102	70-130		97	70-130
Toluene-d8		102	70-130		111	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	10/11/2011 0442	JJG		69400

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		200	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	660	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		2000	4.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	320	J	2000	130	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	4.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	130	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2000	20	ug/L	1

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

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 1813	NCM	10/11/2011 1807	69476

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	0.022		0.019	0.019	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		107	57-137						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: DW-1

Matrix: Aqueous

Date Sampled: 10/05/2011 1345

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 2211	JJG		69321			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1	
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		105	70-130							
Bromofluorobenzene		98	70-130							
Toluene-d8		100	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 2211	JJG		69321			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		98	70-130							
1,2-Dichloroethane-d4		105	70-130							
Toluene-d8		100	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1836	NCM	10/11/2011 1807	69476			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time



**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 1836	NCM	10/11/2011 1807	69476

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		105	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: DW-2

Matrix: Aqueous

Date Sampled: 10/05/2011 1333

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 2232	JJG		69321			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		104	70-130							
Bromofluorobenzene		99	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	5030B	8260B	1	10/07/2011 2232	JJG		69321			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		99	70-130							
1,2-Dichloroethane-d4		104	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1858	NCM	10/11/2011 1807	69476			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Client: SC DHEC - UST Management

Laboratory ID: MJ06029-023

Description: DW-2

Matrix: Aqueous

Date Sampled: 10/05/2011 1333

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 1858	NCM	10/11/2011 1807	69476

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		105	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: DW-4

Matrix: Aqueous

Date Sampled: 10/05/2011 1011

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 2253	JJG		69321			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		105	70-130							
Bromofluorobenzene		99	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	5030B	8260B	1	10/07/2011 2253	JJG		69321			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		99	70-130							
1,2-Dichloroethane-d4		105	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1920	NCM	10/11/2011 1807	69476			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit  
 ND = Not detected at or above the MDL  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank  
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range  
 P = The RPD between two GC columns exceeds 40%  
 N = Recovery is out of criteria  
 H = Out of holding time

Client: SC DHEC - UST Management

Laboratory ID: MJ06029-024

Description: DW-4

Matrix: Aqueous

Date Sampled: 10/05/2011 1011

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1920	NCM	10/11/2011 1807	69476			
Parameter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)			106-93-4	8011	ND		0.020	0.020	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		99	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: DW-5

Matrix: Aqueous

Date Sampled: 10/05/2011 1220

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	10/10/2011 1113	BM		69371

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	0.20	J	5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	2.8	J	5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		99	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	5030B	8260B	1	10/10/2011 1113	BM		69371

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		101	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 1942	NCM	10/11/2011 1807	69476

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
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PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 1942	NCM	10/11/2011 1807	69476			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)		106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		104	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: DW-6

Matrix: Aqueous

Date Sampled: 10/05/2011 1142

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/10/2011 1134	BM		69371			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1	
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		97	70-130							
Bromofluorobenzene		101	70-130							
Toluene-d8		99	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/10/2011 1134	BM		69371			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		101	70-130							
1,2-Dichloroethane-d4		97	70-130							
Toluene-d8		99	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 2005	NCM	10/11/2011 1807	69476			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time



Client: SC DHEC - UST Management

Laboratory ID: MJ06029-026

Description: DW-6

Matrix: Aqueous

Date Sampled: 10/05/2011 1142

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 2005	NCM	10/11/2011 1807	69476			
Parameter	CAS Number		Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4		8011	ND		0.025	0.025	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		92	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: WSW-2

Matrix: Aqueous

Date Sampled: 10/05/2011 1225

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/10/2011 1155	BM		69371			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1	
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		99	70-130							
Bromofluorobenzene		100	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	5030B	8260B	1	10/10/2011 1155	BM		69371			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		100	70-130							
1,2-Dichloroethane-d4		99	70-130							
Toluene-d8		101	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	10/12/2011 2027	NCM	10/11/2011 1807	69476			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Client: SC DHEC - UST Management

Laboratory ID: MJ06029-027

Description: WSW-2

Matrix: Aqueous

Date Sampled: 10/05/2011 1225

Date Received: 10/06/2011

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	10/12/2011 2027	NCM	10/11/2011 1807	69476

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		104	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: Field Blank

Matrix: Aqueous

Date Sampled: 10/05/2011 1125

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	10/07/2011 2004	JJG		69321				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1			
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1			
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1			
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1			
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		104	70-130								
Bromofluorobenzene		99	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	5030B	8260B	1	10/07/2011 2004	JJG		69321				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1			
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1			
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
Bromofluorobenzene		99	70-130								
1,2-Dichloroethane-d4		104	70-130								
Toluene-d8		101	70-130								

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

Description: Trip Blank

Matrix: Aqueous

Date Sampled: 10/05/2011

Date Received: 10/06/2011

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	10/07/2011 2025	JJG		69321			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		105	70-130							
Bromofluorobenzene		99	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	5030B	8260B	1	10/07/2011 2025	JJG		69321			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		99	70-130							
1,2-Dichloroethane-d4		105	70-130							
Toluene-d8		101	70-130							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

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

N = Recovery is out of criteria

H = Out of holding time

## QC Summary

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69293-001

Matrix: Aqueous

Batch: 69293

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	10/07/2011 0828
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	10/07/2011 0828
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	10/07/2011 0828
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	10/07/2011 0828
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	10/07/2011 0828
<b>Ethanol</b>	<b>70</b>	<b>J</b>	<b>1</b>	<b>1000</b>	<b>33</b>	<b>ug/L</b>	<b>10/07/2011 0828</b>
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	10/07/2011 0828
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	10/07/2011 0828

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		105	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		100	70-130

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69293-002

Matrix: Aqueous

Batch: 69293

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	400	480		1	120	70-130	10/07/2011 0659
tert-Amyl methyl ether (TAME)	20	17		1	87	70-130	10/07/2011 0659
tert-Butyl formate (TBF)	100	99		1	99	70-130	10/07/2011 0659
Diisopropyl ether (IPE)	20	17		1	87	70-130	10/07/2011 0659
3,3-Dimethyl-1-butanol	400	420		1	105	70-130	10/07/2011 0659
Ethanol	2000	2500		1	127	70-130	10/07/2011 0659
Ethyl-tert-butyl ether (ETBE)	20	16		1	82	70-130	10/07/2011 0659
tert-butyl alcohol (TBA)	400	490		1	124	70-130	10/07/2011 0659

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		100	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: MQ69293-001

Matrix: Aqueous

Batch: 69293

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	10/07/2011 0828
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/07/2011 0828
Ethylbenzene	ND		1	5.0	1.7	ug/L	10/07/2011 0828
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/07/2011 0828
Naphthalene	ND		1	5.0	1.7	ug/L	10/07/2011 0828
Toluene	ND		1	5.0	1.7	ug/L	10/07/2011 0828
Xylenes (total)	ND		1	5.0	1.7	ug/L	10/07/2011 0828
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		105	70-130				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		100	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69293-002

Matrix: Aqueous

Batch: 69293

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	20	17		1	87	70-130	10/07/2011 0659
1,2-Dichloroethane	20	16		1	80	70-130	10/07/2011 0659
Ethylbenzene	20	18		1	89	70-130	10/07/2011 0659
Methyl tertiary butyl ether (MTBE)	20	17		1	85	70-130	10/07/2011 0659
Naphthalene	20	20		1	98	70-130	10/07/2011 0659
Toluene	20	17		1	85	70-130	10/07/2011 0659
Xylenes (total)	40	36		1	91	70-130	10/07/2011 0659
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		104	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		100	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: MQ69319-001

Matrix: Aqueous

Batch: 69319

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	10/07/2011 1036
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/07/2011 1036
Ethylbenzene	ND		1	5.0	1.7	ug/L	10/07/2011 1036
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/07/2011 1036
Naphthalene	ND		1	5.0	1.7	ug/L	10/07/2011 1036
Toluene	ND		1	5.0	1.7	ug/L	10/07/2011 1036
Xylenes (total)	ND		1	5.0	1.7	ug/L	10/07/2011 1036
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		91	70-130				
Toluene-d8		99	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69319-002

Matrix: Aqueous

Batch: 69319

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	46		1	91	70-130	10/07/2011 0904
1,2-Dichloroethane	50	45		1	90	70-130	10/07/2011 0904
Ethylbenzene	50	48		1	97	70-130	10/07/2011 0904
Methyl tertiary butyl ether (MTBE)	50	52		1	104	70-130	10/07/2011 0904
Naphthalene	50	51		1	102	70-130	10/07/2011 0904
Toluene	50	47		1	95	70-130	10/07/2011 0904
Xylenes (total)	100	97		1	97	70-130	10/07/2011 0904
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		104	70-130				
1,2-Dichloroethane-d4		93	70-130				
Toluene-d8		97	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

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

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69319-003

Batch: 69319

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	47		1	94	2.3	70-130	20	10/07/2011 0927
1,2-Dichloroethane	50	46		1	92	1.3	70-130	20	10/07/2011 0927
Ethylbenzene	50	47		1	93	3.2	70-130	20	10/07/2011 0927
Methyl tertiary butyl ether (MTBE)	50	49		1	99	5.1	70-130	20	10/07/2011 0927
Naphthalene	50	51		1	102	0.26	70-130	20	10/07/2011 0927
Toluene	50	47		1	94	1.4	70-130	20	10/07/2011 0927
Xylenes (total)	100	93		1	93	3.6	70-130	20	10/07/2011 0927
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		101	70-130						
1,2-Dichloroethane-d4		89	70-130						
Toluene-d8		98	70-130						

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69321-001

Batch: 69321

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	10/07/2011 1631
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	10/07/2011 1631
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	10/07/2011 1631
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	10/07/2011 1631
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	10/07/2011 1631
Ethanol	ND		1	1000	33	ug/L	10/07/2011 1631
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	10/07/2011 1631
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	10/07/2011 1631
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		99	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: MQ69321-002

Matrix: Aqueous

Batch: 69321

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	104	70-130	10/07/2011 1506
tert-Amyl methyl ether (TAME)	50	43		1	86	70-130	10/07/2011 1506
tert-Butyl formate (TBF)	250	330	N	1	133	70-130	10/07/2011 1506
Diisopropyl ether (IPE)	50	49		1	98	70-130	10/07/2011 1506
3,3-Dimethyl-1-butanol	1000	1200		1	118	70-130	10/07/2011 1506
Ethanol	5000	6200		1	124	70-130	10/07/2011 1506
Ethyl-tert-butyl ether (ETBE)	50	51		1	102	70-130	10/07/2011 1506
tert-butyl alcohol (TBA)	1000	990		1	99	70-130	10/07/2011 1506
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		98	70-130				
1,2-Dichloroethane-d4		102	70-130				
Toluene-d8		100	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69321-003

Matrix: Aqueous

Batch: 69321

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	108	3.5	70-130	20	10/07/2011 1528
tert-Amyl methyl ether (TAME)	50	42		1	84	2.9	70-130	20	10/07/2011 1528
tert-Butyl formate (TBF)	250	320		1	127	4.3	70-130	20	10/07/2011 1528
Diisopropyl ether (IPE)	50	50		1	99	0.59	70-130	20	10/07/2011 1528
3,3-Dimethyl-1-butanol	1000	1200		1	120	1.7	70-130	20	10/07/2011 1528
Ethanol	5000	7300	N	1	146	16	70-130	20	10/07/2011 1528
Ethyl-tert-butyl ether (ETBE)	50	51		1	103	0.81	70-130	20	10/07/2011 1528
tert-butyl alcohol (TBA)	1000	1000		1	104	5.1	70-130	20	10/07/2011 1528
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		98	70-130						
1,2-Dichloroethane-d4		101	70-130						
Toluene-d8		100	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: MQ69321-001

Batch: 69321

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	10/07/2011 1631
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/07/2011 1631
Ethylbenzene	ND		1	5.0	1.7	ug/L	10/07/2011 1631
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/07/2011 1631
Naphthalene	ND		1	5.0	1.7	ug/L	10/07/2011 1631
Toluene	ND		1	5.0	1.7	ug/L	10/07/2011 1631
Xylenes (total)	ND		1	5.0	1.7	ug/L	10/07/2011 1631

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		99	70-130

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69321-002

Batch: 69321

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Benzene	50	50		1	100	70-130	10/07/2011 1506
1,2-Dichloroethane	50	48		1	96	70-130	10/07/2011 1506
Ethylbenzene	50	51		1	101	70-130	10/07/2011 1506
Methyl tertiary butyl ether (MTBE)	50	50		1	101	70-130	10/07/2011 1506
Naphthalene	50	56		1	111	70-130	10/07/2011 1506
Toluene	50	50		1	100	70-130	10/07/2011 1506
Xylenes (total)	100	100		1	105	70-130	10/07/2011 1506

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		100	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 - LCSD

Sample ID: MQ69321-003

Matrix: Aqueous

Batch: 69321

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	49		1	97	2.8	70-130	20	10/07/2011 1528
1,2-Dichloroethane	50	47		1	94	1.5	70-130	20	10/07/2011 1528
Ethylbenzene	50	50		1	99	2.4	70-130	20	10/07/2011 1528
Methyl tertiary butyl ether (MTBE)	50	50		1	100	0.70	70-130	20	10/07/2011 1528
Naphthalene	50	56		1	113	1.1	70-130	20	10/07/2011 1528
Toluene	50	48		1	97	2.9	70-130	20	10/07/2011 1528
Xylenes (total)	100	100		1	103	1.4	70-130	20	10/07/2011 1528
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		98	70-130						
1,2-Dichloroethane-d4		101	70-130						
Toluene-d8		100	70-130						

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69371-001

Matrix: Aqueous

Batch: 69371

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	10/10/2011 1030
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	10/10/2011 1030
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	10/10/2011 1030
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	10/10/2011 1030
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	10/10/2011 1030
Ethanol	57	J	1	1000	33	ug/L	10/10/2011 1030
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	10/10/2011 1030
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	10/10/2011 1030
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		102	70-130				
1,2-Dichloroethane-d4		97	70-130				
Toluene-d8		100	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: MQ69371-002

Batch: 69371

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1200		1	117	70-130	10/10/2011 0906
tert-Amyl methyl ether (TAME)	50	52		1	104	70-130	10/10/2011 0906
tert-Butyl formate (TBF)	250	340	N	1	138	70-130	10/10/2011 0906
Diisopropyl ether (IPE)	50	52		1	105	70-130	10/10/2011 0906
3,3-Dimethyl-1-butanol	1000	1200		1	116	70-130	10/10/2011 0906
Ethanol	5000	6500		1	130	70-130	10/10/2011 0906
Ethyl-tert-butyl ether (ETBE)	50	49		1	98	70-130	10/10/2011 0906
tert-butyl alcohol (TBA)	1000	1200		1	120	70-130	10/10/2011 0906
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		97	70-130				
Toluene-d8		100	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69371-003

Batch: 69371

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	111	5.4	70-130	20	10/10/2011 0927
tert-Amyl methyl ether (TAME)	50	54		1	109	4.0	70-130	20	10/10/2011 0927
tert-Butyl formate (TBF)	250	340	N	1	136	1.1	70-130	20	10/10/2011 0927
Diisopropyl ether (IPE)	50	56		1	112	6.6	70-130	20	10/10/2011 0927
3,3-Dimethyl-1-butanol	1000	1100		1	113	3.0	70-130	20	10/10/2011 0927
Ethanol	5000	6800	N	1	136	4.6	70-130	20	10/10/2011 0927
Ethyl-tert-butyl ether (ETBE)	50	50		1	100	2.1	70-130	20	10/10/2011 0927
tert-butyl alcohol (TBA)	1000	1100		1	111	8.4	70-130	20	10/10/2011 0927
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		101	70-130						
1,2-Dichloroethane-d4		95	70-130						
Toluene-d8		100	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: MQ69371-001

Batch: 69371

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	10/10/2011 1030
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/10/2011 1030
Ethylbenzene	ND		1	5.0	1.7	ug/L	10/10/2011 1030
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/10/2011 1030
Naphthalene	ND		1	5.0	1.7	ug/L	10/10/2011 1030
Toluene	ND		1	5.0	1.7	ug/L	10/10/2011 1030
Xylenes (total)	ND		1	5.0	1.7	ug/L	10/10/2011 1030

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		100	70-130

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69371-002

Batch: 69371

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	52		1	104	70-130	10/10/2011 0906
1,2-Dichloroethane	50	48		1	97	70-130	10/10/2011 0906
Ethylbenzene	50	54		1	109	70-130	10/10/2011 0906
Methyl tertiary butyl ether (MTBE)	50	54		1	108	70-130	10/10/2011 0906
Naphthalene	50	61		1	122	70-130	10/10/2011 0906
Toluene	50	51		1	102	70-130	10/10/2011 0906
Xylenes (total)	100	110		1	109	70-130	10/10/2011 0906

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		100	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 - LCSD

Sample ID: MQ69371-003

Matrix: Aqueous

Batch: 69371

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	53		1	107	3.0	70-130	20	10/10/2011 0927
1,2-Dichloroethane	50	49		1	98	2.0	70-130	20	10/10/2011 0927
Ethylbenzene	50	54		1	109	0.063	70-130	20	10/10/2011 0927
Methyl tertiary butyl ether (MTBE)	50	54		1	109	0.21	70-130	20	10/10/2011 0927
Naphthalene	50	61		1	121	0.62	70-130	20	10/10/2011 0927
Toluene	50	52		1	104	1.6	70-130	20	10/10/2011 0927
Xylenes (total)	100	110		1	110	0.36	70-130	20	10/10/2011 0927
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		101	70-130						
1,2-Dichloroethane-d4		95	70-130						
Toluene-d8		100	70-130						

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69391-001

Matrix: Aqueous

Batch: 69391

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	10/10/2011 1933
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	10/10/2011 1933
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	10/10/2011 1933
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	10/10/2011 1933
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	10/10/2011 1933
Ethanol	ND		1	1000	33	ug/L	10/10/2011 1933
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	10/10/2011 1933
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	10/10/2011 1933
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		87	70-130				
1,2-Dichloroethane-d4		85	70-130				
Toluene-d8		96	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

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

+ - RPD is out of criteria

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

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



## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69391-002

Matrix: Aqueous

Batch: 69391

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	105	70-130	10/10/2011 1811
tert-Amyl methyl ether (TAME)	50	50		1	99	70-130	10/10/2011 1811
tert-Butyl formate (TBF)	250	270		1	108	70-130	10/10/2011 1811
Diisopropyl ether (IPE)	50	53		1	105	70-130	10/10/2011 1811
3,3-Dimethyl-1-butanol	1000	930		1	93	70-130	10/10/2011 1811
Ethanol	5000	5200		1	104	70-130	10/10/2011 1811
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	70-130	10/10/2011 1811
tert-butyl alcohol (TBA)	1000	940		1	94	70-130	10/10/2011 1811

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		91	70-130
1,2-Dichloroethane-d4		82	70-130
Toluene-d8		98	70-130

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69391-001

Matrix: Aqueous

Batch: 69391

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	10/10/2011 1933
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/10/2011 1933
Ethylbenzene	ND		1	5.0	1.7	ug/L	10/10/2011 1933
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/10/2011 1933
Naphthalene	ND		1	5.0	1.7	ug/L	10/10/2011 1933
Toluene	ND		1	5.0	1.7	ug/L	10/10/2011 1933
Xylenes (total)	ND		1	5.0	1.7	ug/L	10/10/2011 1933

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		87	70-130
1,2-Dichloroethane-d4		85	70-130
Toluene-d8		96	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: MQ69391-002

Matrix: Aqueous

Batch: 69391

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	50		1	100	70-130	10/10/2011 1811
1,2-Dichloroethane	50	39		1	78	70-130	10/10/2011 1811
Ethylbenzene	50	48		1	96	70-130	10/10/2011 1811
Methyl tertiary butyl ether (MTBE)	50	51		1	102	70-130	10/10/2011 1811
Naphthalene	50	57		1	114	70-130	10/10/2011 1811
Toluene	50	48		1	95	70-130	10/10/2011 1811
Xylenes (total)	100	100		1	100	70-130	10/10/2011 1811
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		91	70-130				
1,2-Dichloroethane-d4		82	70-130				
Toluene-d8		98	70-130				

## Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: MJ06029-006DU

Matrix: Aqueous

Batch: 69391

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Benzene	32	35	J	20	9.7	20	10/11/2011 0117
1,2-Dichloroethane	ND	ND		20	0.00	20	10/11/2011 0117
Ethylbenzene	950	1000		20	5.7	20	10/11/2011 0117
Methyl tertiary butyl ether (MTBE)	ND	ND		20	0.00	20	10/11/2011 0117
Naphthalene	ND	ND		20	0.00	20	10/11/2011 0117
Toluene	1400	1500		20	4.3	20	10/11/2011 0117
Xylenes (total)	3900	4200		20	7.5	20	10/11/2011 0117
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		96	70-130				
1,2-Dichloroethane-d4		80	70-130				
Toluene-d8		102	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - MS

Sample ID: MJ06029-007MS

Matrix: Aqueous

Batch: 69391

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	9.6	250	260		5	101	70-130	10/11/2011 0138
1,2-Dichloroethane	ND	250	180		5	74	70-130	10/11/2011 0138
Ethylbenzene	420	250	630		5	83	70-130	10/11/2011 0138
Methyl tertiary butyl ether (MTBE)	0.61	250	230		5	91	70-130	10/11/2011 0138
Naphthalene	250	250	480		5	86	70-130	10/11/2011 0138
Toluene	40	250	280		5	96	70-130	10/11/2011 0138
Xylenes (total)	1300	500	2000		5	96	70-130	10/11/2011 0138
Surrogate	Q	% Rec	Acceptance Limit					
Bromofluorobenzene		90	70-130					
1,2-Dichloroethane-d4		73	70-130					
Toluene-d8		96	70-130					

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69400-001

Matrix: Aqueous

Batch: 69400

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	10/10/2011 2151
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	10/10/2011 2151
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	10/10/2011 2151
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	10/10/2011 2151
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	10/10/2011 2151
<b>Ethanol</b>	<b>92</b>	<b>J</b>	<b>1</b>	<b>1000</b>	<b>33</b>	<b>ug/L</b>	<b>10/10/2011 2151</b>
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	10/10/2011 2151
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	10/10/2011 2151
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		95	70-130				
Toluene-d8		100	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: MQ69400-002

Matrix: Aqueous

Batch: 69400

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	108	70-130	10/10/2011 2027
tert-Amyl methyl ether (TAME)	50	51		1	102	70-130	10/10/2011 2027
tert-Butyl formate (TBF)	250	290		1	116	70-130	10/10/2011 2027
Diisopropyl ether (IPE)	50	52		1	103	70-130	10/10/2011 2027
3,3-Dimethyl-1-butanol	1000	1100		1	114	70-130	10/10/2011 2027
Ethanol	5000	5800		1	117	70-130	10/10/2011 2027
Ethyl-tert-butyl ether (ETBE)	50	49		1	98	70-130	10/10/2011 2027
tert-butyl alcohol (TBA)	1000	1100		1	109	70-130	10/10/2011 2027
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		96	70-130				
Toluene-d8		101	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69400-003

Matrix: Aqueous

Batch: 69400

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	110	1.7	70-130	20	10/10/2011 2048
tert-Amyl methyl ether (TAME)	50	53		1	105	3.6	70-130	20	10/10/2011 2048
tert-Butyl formate (TBF)	250	300		1	121	4.3	70-130	20	10/10/2011 2048
Diisopropyl ether (IPE)	50	55		1	110	6.2	70-130	20	10/10/2011 2048
3,3-Dimethyl-1-butanol	1000	1200		1	117	2.7	70-130	20	10/10/2011 2048
Ethanol	5000	6100		1	122	4.8	70-130	20	10/10/2011 2048
Ethyl-tert-butyl ether (ETBE)	50	50		1	101	2.6	70-130	20	10/10/2011 2048
tert-butyl alcohol (TBA)	1000	1100		1	109	0.40	70-130	20	10/10/2011 2048
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		104	70-130						
1,2-Dichloroethane-d4		99	70-130						
Toluene-d8		107	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69400-001

Matrix: Aqueous

Batch: 69400

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/10/2011 2151
Ethylbenzene	ND		1	5.0	1.7	ug/L	10/10/2011 2151
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/10/2011 2151
Naphthalene	ND		1	5.0	1.7	ug/L	10/10/2011 2151
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		95	70-130				
Toluene-d8		100	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69400-002

Matrix: Aqueous

Batch: 69400

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dichloroethane	50	49		1	97	70-130	10/10/2011 2027
Ethylbenzene	50	53		1	105	70-130	10/10/2011 2027
Methyl tertiary butyl ether (MTBE)	50	53		1	105	70-130	10/10/2011 2027
Naphthalene	50	59		1	118	70-130	10/10/2011 2027
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		96	70-130				
Toluene-d8		101	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69400-003

Matrix: Aqueous

Batch: 69400

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dichloroethane	50	49		1	98	0.40	70-130	20	10/10/2011 2048
Ethylbenzene	50	54		1	107	2.0	70-130	20	10/10/2011 2048
Methyl tertiary butyl ether (MTBE)	50	53		1	107	1.3	70-130	20	10/10/2011 2048

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69400-003

Batch: 69400

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Naphthalene	50	59		1	119	0.97	70-130	20	10/10/2011 2048
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>						
Bromofluorobenzene		104					70-130		
1,2-Dichloroethane-d4		99					70-130		
Toluene-d8		107					70-130		

## Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: MJ06029-021DU

Batch: 69400

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,2-Dichloroethane	ND	ND		20	0.00	20	10/11/2011 0504
Ethylbenzene	1200	1200		20	3.0	20	10/11/2011 0504
Methyl tertiary butyl ether (MTBE)	ND	ND		20	0.00	20	10/11/2011 0504
Naphthalene	400	410		20	3.1	20	10/11/2011 0504
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>				
Bromofluorobenzene		101					70-130
1,2-Dichloroethane-d4		96					70-130
Toluene-d8		101					70-130

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69463-001

Batch: 69463

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	10/11/2011 1143
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/11/2011 1143
Ethylbenzene	ND		1	5.0	1.7	ug/L	10/11/2011 1143
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/11/2011 1143
Naphthalene	ND		1	5.0	1.7	ug/L	10/11/2011 1143
Toluene	ND		1	5.0	1.7	ug/L	10/11/2011 1143

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

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## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69463-001

Matrix: Aqueous

Batch: 69463

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Xylenes (total)	ND		1	5.0	1.7	ug/L	10/11/2011 1143
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		98	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		102	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69463-002

Matrix: Aqueous

Batch: 69463

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	52		1	104	70-130	10/11/2011 0947
1,2-Dichloroethane	50	55		1	110	70-130	10/11/2011 0947
Ethylbenzene	50	51		1	103	70-130	10/11/2011 0947
Methyl tertiary butyl ether (MTBE)	50	57		1	115	70-130	10/11/2011 0947
Naphthalene	50	56		1	112	70-130	10/11/2011 0947
Toluene	50	52		1	103	70-130	10/11/2011 0947
Xylenes (total)	100	99		1	99	70-130	10/11/2011 0947
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		102	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69463-003

Matrix: Aqueous

Batch: 69463

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	50		1	101	2.7	70-130	20	10/11/2011 1010
1,2-Dichloroethane	50	53		1	105	4.7	70-130	20	10/11/2011 1010
Ethylbenzene	50	51		1	101	1.2	70-130	20	10/11/2011 1010

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69463-003

Matrix: Aqueous

Batch: 69463

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Methyl tertiary butyl ether (MTBE)	50	54		1	109	5.4	70-130	20	10/11/2011 1010
Naphthalene	50	52		1	105	6.6	70-130	20	10/11/2011 1010
Toluene	50	50		1	100	3.0	70-130	20	10/11/2011 1010
Xylenes (total)	100	98		1	98	1.2	70-130	20	10/11/2011 1010
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		103	70-130						
1,2-Dichloroethane-d4		108	70-130						
Toluene-d8		101	70-130						

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69464-001

Matrix: Aqueous

Batch: 69464

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	10/11/2011 1237
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	10/11/2011 1237
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	10/11/2011 1237
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	10/11/2011 1237
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	10/11/2011 1237
Ethanol	ND		1	1000	33	ug/L	10/11/2011 1237
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	10/11/2011 1237
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	10/11/2011 1237
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		113	70-130				
Toluene-d8		109	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

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

+ - RPD is out of criteria

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

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



## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69464-002

Matrix: Aqueous

Batch: 69464

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1300		1	128	70-130	10/11/2011 1134
tert-Amyl methyl ether (TAME)	50	50		1	99	70-130	10/11/2011 1134
tert-Butyl formate (TBF)	250	390	N	1	156	70-130	10/11/2011 1134
Diisopropyl ether (IPE)	50	59		1	117	70-130	10/11/2011 1134
3,3-Dimethyl-1-butanol	1000	1400	N	1	141	70-130	10/11/2011 1134
Ethanol	5000	8400	N	1	167	70-130	10/11/2011 1134
Ethyl-tert-butyl ether (ETBE)	50	62		1	124	70-130	10/11/2011 1134
tert-butyl alcohol (TBA)	1000	1200		1	125	70-130	10/11/2011 1134
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		114	70-130				
Toluene-d8		109	70-130				

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69491-001

Matrix: Aqueous

Batch: 69491

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	10/11/2011 1919
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	10/11/2011 1919
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	10/11/2011 1919
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	10/11/2011 1919
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	10/11/2011 1919
Ethanol	56	J	1	1000	33	ug/L	10/11/2011 1919
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	10/11/2011 1919
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	10/11/2011 1919
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		102	70-130				
Toluene-d8		101	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ 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: MQ69491-002

Matrix: Aqueous

Batch: 69491

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	112	70-130	10/11/2011 1752
tert-Amyl methyl ether (TAME)	50	53		1	105	70-130	10/11/2011 1752
tert-Butyl formate (TBF)	250	250		1	100	70-130	10/11/2011 1752
Diisopropyl ether (IPE)	50	51		1	101	70-130	10/11/2011 1752
3,3-Dimethyl-1-butanol	1000	1200		1	121	70-130	10/11/2011 1752
Ethanol	5000	4900		1	99	70-130	10/11/2011 1752
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	70-130	10/11/2011 1752
tert-butyl alcohol (TBA)	1000	1000		1	104	70-130	10/11/2011 1752
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		101	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69491-003

Matrix: Aqueous

Batch: 69491

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1200		1	116	3.4	70-130	20	10/11/2011 1814
tert-Amyl methyl ether (TAME)	50	51		1	101	3.9	70-130	20	10/11/2011 1814
tert-Butyl formate (TBF)	250	240		1	97	3.1	70-130	20	10/11/2011 1814
Diisopropyl ether (IPE)	50	50		1	100	0.85	70-130	20	10/11/2011 1814
3,3-Dimethyl-1-butanol	1000	1200		1	119	1.9	70-130	20	10/11/2011 1814
Ethanol	5000	5900		1	118	17	70-130	20	10/11/2011 1814
Ethyl-tert-butyl ether (ETBE)	50	48		1	96	0.99	70-130	20	10/11/2011 1814
tert-butyl alcohol (TBA)	1000	1200		1	116	11	70-130	20	10/11/2011 1814
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		101	70-130						
1,2-Dichloroethane-d4		99	70-130						
Toluene-d8		102	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69491-001

Matrix: Aqueous

Batch: 69491

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	10/11/2011 1919
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/11/2011 1919
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/11/2011 1919
Naphthalene	ND		1	5.0	1.7	ug/L	10/11/2011 1919
Toluene	ND		1	5.0	1.7	ug/L	10/11/2011 1919
Xylenes (total)	ND		1	5.0	1.7	ug/L	10/11/2011 1919
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		102	70-130				
Toluene-d8		101	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69491-002

Matrix: Aqueous

Batch: 69491

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	52		1	104	70-130	10/11/2011 1752
1,2-Dichloroethane	50	49		1	97	70-130	10/11/2011 1752
Methyl tertiary butyl ether (MTBE)	50	53		1	107	70-130	10/11/2011 1752
Naphthalene	50	62		1	125	70-130	10/11/2011 1752
Toluene	50	50		1	100	70-130	10/11/2011 1752
Xylenes (total)	100	110		1	106	70-130	10/11/2011 1752
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		101	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69491-003

Matrix: Aqueous

Batch: 69491

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	52		1	105	0.20	70-130	20	10/11/2011 1814
1,2-Dichloroethane	50	48		1	97	0.68	70-130	20	10/11/2011 1814
Methyl tertiary butyl ether (MTBE)	50	52		1	103	3.4	70-130	20	10/11/2011 1814
Naphthalene	50	60		1	120	4.0	70-130	20	10/11/2011 1814
Toluene	50	51		1	103	2.5	70-130	20	10/11/2011 1814
Xylenes (total)	100	110		1	106	0.40	70-130	20	10/11/2011 1814
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		101	70-130						
1,2-Dichloroethane-d4		99	70-130						
Toluene-d8		102	70-130						

## Volatile Organic Compounds by GC/MS - MS

Sample ID: MJ06029-007MS

Matrix: Aqueous

Batch: 69491

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	9.6	250	290		5	111	70-130	10/12/2011 0327
1,2-Dichloroethane	ND	250	260		5	103	70-130	10/12/2011 0327
Methyl tertiary butyl ether (MTBE)	0.61	250	270		5	109	70-130	10/12/2011 0327
Naphthalene	250	250	590	N	5	136	70-130	10/12/2011 0327
Toluene	40	250	310		5	107	70-130	10/12/2011 0327
Xylenes (total)	1300	500	2200	N	5	177	70-130	10/12/2011 0327
Surrogate	Q	% Rec	Acceptance Limit					
Bromofluorobenzene		104	70-130					
1,2-Dichloroethane-d4		98	70-130					
Toluene-d8		102	70-130					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69543-001

Matrix: Aqueous

Batch: 69543

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	10/12/2011 0828
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/12/2011 0828
Ethylbenzene	ND		1	5.0	1.7	ug/L	10/12/2011 0828
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/12/2011 0828
Naphthalene	ND		1	5.0	1.7	ug/L	10/12/2011 0828
Toluene	ND		1	5.0	1.7	ug/L	10/12/2011 0828
Xylenes (total)	ND		1	5.0	1.7	ug/L	10/12/2011 0828
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		96	70-130				
1,2-Dichloroethane-d4		112	70-130				
Toluene-d8		109	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69543-002

Matrix: Aqueous

Batch: 69543

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	53		1	106	70-130	10/12/2011 0703
1,2-Dichloroethane	50	57		1	114	70-130	10/12/2011 0703
Ethylbenzene	50	47		1	93	70-130	10/12/2011 0703
Methyl tertiary butyl ether (MTBE)	50	60		1	120	70-130	10/12/2011 0703
Naphthalene	50	48		1	96	70-130	10/12/2011 0703
Toluene	50	52		1	104	70-130	10/12/2011 0703
Xylenes (total)	100	98		1	98	70-130	10/12/2011 0703
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		98	70-130				
1,2-Dichloroethane-d4		114	70-130				
Toluene-d8		111	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 - LCSD

Sample ID: MQ69543-003

Matrix: Aqueous

Batch: 69543

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	51		1	102	3.5	70-130	20	10/12/2011 0724
1,2-Dichloroethane	50	54		1	109	5.1	70-130	20	10/12/2011 0724
Ethylbenzene	50	45		1	90	3.7	70-130	20	10/12/2011 0724
Methyl tertiary butyl ether (MTBE)	50	58		1	115	4.5	70-130	20	10/12/2011 0724
Naphthalene	50	45		1	90	5.6	70-130	20	10/12/2011 0724
Toluene	50	50		1	100	4.2	70-130	20	10/12/2011 0724
Xylenes (total)	100	93		1	93	4.7	70-130	20	10/12/2011 0724

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		111	70-130
Toluene-d8		108	70-130

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69546-001

Matrix: Aqueous

Batch: 69546

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	10/12/2011 0819
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	10/12/2011 0819
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	10/12/2011 0819
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	10/12/2011 0819
<b>3,3-Dimethyl-1-butanol</b>	<b>1.0</b>	<b>J</b>	<b>1</b>	<b>100</b>	<b>1.0</b>	<b>ug/L</b>	<b>10/12/2011 0819</b>
<b>Ethanol</b>	<b>76</b>	<b>J</b>	<b>1</b>	<b>1000</b>	<b>33</b>	<b>ug/L</b>	<b>10/12/2011 0819</b>
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	10/12/2011 0819
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	10/12/2011 0819

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		99	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: MQ69546-002

Matrix: Aqueous

Batch: 69546

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	114	70-130	10/12/2011 0654
tert-Amyl methyl ether (TAME)	50	51		1	102	70-130	10/12/2011 0654
tert-Butyl formate (TBF)	250	260		1	102	70-130	10/12/2011 0654
Diisopropyl ether (IPE)	50	49		1	97	70-130	10/12/2011 0654
3,3-Dimethyl-1-butanol	1000	1100		1	109	70-130	10/12/2011 0654
Ethanol	5000	4200		1	84	70-130	10/12/2011 0654
Ethyl-tert-butyl ether (ETBE)	50	48		1	95	70-130	10/12/2011 0654
tert-butyl alcohol (TBA)	1000	1100		1	109	70-130	10/12/2011 0654
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		101	70-130				

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69546-001

Matrix: Aqueous

Batch: 69546

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	10/12/2011 0819
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/12/2011 0819
Ethylbenzene	ND		1	5.0	1.7	ug/L	10/12/2011 0819
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/12/2011 0819
Naphthalene	ND		1	5.0	1.7	ug/L	10/12/2011 0819
Toluene	ND		1	5.0	1.7	ug/L	10/12/2011 0819
Xylenes (total)	ND		1	5.0	1.7	ug/L	10/12/2011 0819
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		102	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		99	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

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

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69546-002

Matrix: Aqueous

Batch: 69546

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	48		1	97	70-130	10/12/2011 0654
1,2-Dichloroethane	50	46		1	91	70-130	10/12/2011 0654
Ethylbenzene	50	50		1	99	70-130	10/12/2011 0654
Methyl tertiary butyl ether (MTBE)	50	52		1	103	70-130	10/12/2011 0654
Naphthalene	50	57		1	114	70-130	10/12/2011 0654
Toluene	50	47		1	95	70-130	10/12/2011 0654
Xylenes (total)	100	100		1	102	70-130	10/12/2011 0654
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		101	70-130				

## Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ69690-001

Matrix: Aqueous

Batch: 69690

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	10/14/2011 1528
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	10/14/2011 1528
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	10/14/2011 1528
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	10/14/2011 1528
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	10/14/2011 1528
<b>Ethanol</b>	<b>39</b>	<b>J</b>	<b>1</b>	<b>1000</b>	<b>33</b>	<b>ug/L</b>	<b>10/14/2011 1528</b>
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	10/14/2011 1528
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	10/14/2011 1528
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		96	70-130				
1,2-Dichloroethane-d4		92	70-130				
Toluene-d8		99	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: MQ69690-002

Batch: 69690

Matrix: Aqueous  
Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	112	70-130	10/14/2011 1425
tert-Amyl methyl ether (TAME)	50	54		1	109	70-130	10/14/2011 1425
tert-Butyl formate (TBF)	250	270		1	109	70-130	10/14/2011 1425
Diisopropyl ether (IPE)	50	51		1	102	70-130	10/14/2011 1425
3,3-Dimethyl-1-butanol	1000	1100		1	112	70-130	10/14/2011 1425
Ethanol	5000	5400		1	108	70-130	10/14/2011 1425
Ethyl-tert-butyl ether (ETBE)	50	54		1	108	70-130	10/14/2011 1425
tert-butyl alcohol (TBA)	1000	1100		1	107	70-130	10/14/2011 1425
Surrogate	Q	% Rec			Acceptance Limit		
Bromofluorobenzene		95			70-130		
1,2-Dichloroethane-d4		93			70-130		
Toluene-d8		100			70-130		

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69690-003

Batch: 69690

Matrix: Aqueous  
Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	114	2.1	70-130	20	10/14/2011 1446
tert-Amyl methyl ether (TAME)	50	54		1	108	1.2	70-130	20	10/14/2011 1446
tert-Butyl formate (TBF)	250	260		1	104	5.5	70-130	20	10/14/2011 1446
Diisopropyl ether (IPE)	50	52		1	103	0.79	70-130	20	10/14/2011 1446
3,3-Dimethyl-1-butanol	1000	1200		1	120	6.8	70-130	20	10/14/2011 1446
Ethanol	5000	5600		1	112	4.1	70-130	20	10/14/2011 1446
Ethyl-tert-butyl ether (ETBE)	50	53		1	106	1.7	70-130	20	10/14/2011 1446
tert-butyl alcohol (TBA)	1000	1100		1	109	2.2	70-130	20	10/14/2011 1446
Surrogate	Q	% Rec			Acceptance Limit				
Bromofluorobenzene		98			70-130				
1,2-Dichloroethane-d4		92			70-130				
Toluene-d8		101			70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ 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: MQ69690-001

Matrix: Aqueous

Batch: 69690

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	10/14/2011 1528
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	10/14/2011 1528
Ethylbenzene	ND		1	5.0	1.7	ug/L	10/14/2011 1528
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	10/14/2011 1528
Naphthalene	ND		1	5.0	1.7	ug/L	10/14/2011 1528
Toluene	ND		1	5.0	1.7	ug/L	10/14/2011 1528
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		96	70-130				
1,2-Dichloroethane-d4		92	70-130				
Toluene-d8		99	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: MQ69690-002

Matrix: Aqueous

Batch: 69690

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	50		1	100	70-130	10/14/2011 1425
1,2-Dichloroethane	50	48		1	96	70-130	10/14/2011 1425
Ethylbenzene	50	50		1	101	70-130	10/14/2011 1425
Methyl tertiary butyl ether (MTBE)	50	51		1	102	70-130	10/14/2011 1425
Naphthalene	50	58		1	116	70-130	10/14/2011 1425
Toluene	50	51		1	101	70-130	10/14/2011 1425
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		95	70-130				
1,2-Dichloroethane-d4		93	70-130				
Toluene-d8		100	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

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

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: MQ69690-003

Matrix: Aqueous

Batch: 69690

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	50		1	100	0.84	70-130	20	10/14/2011 1446
1,2-Dichloroethane	50	48		1	95	0.22	70-130	20	10/14/2011 1446
Ethylbenzene	50	51		1	102	1.3	70-130	20	10/14/2011 1446
Methyl tertiary butyl ether (MTBE)	50	51		1	102	0.17	70-130	20	10/14/2011 1446
Naphthalene	50	60		1	119	2.8	70-130	20	10/14/2011 1446
Toluene	50	51		1	102	0.71	70-130	20	10/14/2011 1446
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		98	70-130						
1,2-Dichloroethane-d4		92	70-130						
Toluene-d8		101	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

### EDB & DBCP by Microextraction - MB

Sample ID: MQ69468-001  
 Batch: 69468  
 Analytical Method: 8011

Matrix: Aqueous  
 Prep Method: 8011  
 Prep Date: 10/11/2011 1557

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	10/12/2011 0343
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		101	57-137				

### EDB & DBCP by Microextraction - LCS

Sample ID: MQ69468-002  
 Batch: 69468  
 Analytical Method: 8011

Matrix: Aqueous  
 Prep Method: 8011  
 Prep Date: 10/11/2011 1557

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.29		1	116	60-140	10/12/2011 0405
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		106	57-137				

### EDB & DBCP by Microextraction - MS

Sample ID: MJ06029-001MS  
 Batch: 69468  
 Analytical Method: 8011

Matrix: Aqueous  
 Prep Method: 8011  
 Prep Date: 10/11/2011 1557

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	0.24		1	97	60-140	10/12/2011 0511
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		88	57-137					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

### EDB & DBCP by Microextraction - MSD

Sample ID: MJ06029-001MD

Matrix: Aqueous

Batch: 69468

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/11/2011 1557

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.27		1	106	12	60-140	20	10/12/2011 0533
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>							
1,1,1,2-Tetrachloroethane		100	57-137							

### EDB & DBCP by Microextraction - MB

Sample ID: MQ69476-001

Matrix: Aqueous

Batch: 69476

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/11/2011 1807

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	10/12/2011 1621
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>				
1,1,1,2-Tetrachloroethane		104	57-137				

### EDB & DBCP by Microextraction - LCS

Sample ID: MQ69476-002

Matrix: Aqueous

Batch: 69476

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/11/2011 1807

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.31		1	122	60-140	10/12/2011 1644
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>				
1,1,1,2-Tetrachloroethane		105	57-137				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## EDB & DBCP by Microextraction - MS

Sample ID: MJ06029-020MS

Matrix: Aqueous

Batch: 69476

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/11/2011 1807

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.067	0.25	0.33		1	108	60-140	10/12/2011 1728
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>					
1,1,1,2-Tetrachloroethane		107	57-137					

## EDB & DBCP by Microextraction - MSD

Sample ID: MJ06029-020MD

Matrix: Aqueous

Batch: 69476

Prep Method: 8011

Analytical Method: 8011

Prep Date: 10/11/2011 1807

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.067	0.25	0.36		1	121	8.5	60-140	20	10/12/2011 1751
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>							
1,1,1,2-Tetrachloroethane		106	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**

Shealy Environmental Services, Inc.

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

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Level 1 Report v2.1



Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 04024

Client <b>SCDHEC-UST</b>		Report to Contact <b>D. THOMA</b>			Sampler (Printed Name) <b>CHRIS LASHLEY</b>			Quote No.							
Address <b>2600 BULL STREET</b>		Telephone No. / Fax No. / Email <b>803-896-7957</b>			Waybill No.			Page <b>1 of 3</b>							
City <b>Columbia</b>	State <b>SC</b>	Zip Code <b>29201</b>	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.			Number of Containers			Bottle (See instructions on back)						
Project Name <b>Interstate TRUCK TERMINAL</b>		Project Number <b>00332 / 40582</b>		P.O Number <b>46 00088529</b>		Matrix			Preservative						
Sample ID / Description (Containers for each sample may be combined on one line)		Date	Time	G-Grab	C-Composite	GW	DW	WW	S	Other	Analysis <b>Blex, Naph, Mibc 1,2 DCA, P-Oxy EOB</b>	Lot No. <b>MJ06029</b>			
MW-1		10/5	1255	G	X								Remarks / Cooler ID <b>ODOR</b>		
MW-1 Duplicate			1255										<b>ODOR</b>		
MW-2			1346										<b>ODOR</b>		
MW-3			1305										<b>ODOR</b>		
MW-3 Duplicate			1305										<b>ODOR</b>		
MW-4R			1330										<b>ODOR</b>		
MW-5R			1136										<b>ODOR</b>		
MW-6			1400										<b>No odor</b>		
MW-7			1213										<b>No odor</b>		
MW-8		10/5	1147	G	X							<b>No odor</b>			
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)				Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab				QC Requirements (Specify)				Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown			
1. Relinquished by / Sampler		Date	Time	2. Relinquished by		Date	Time	3. Relinquished by		Date	Time	4. Laboratory Received by		Date	Time
		10-6-11	1147			10-6-11	1225			10-6-11	1147			10/6/11	1225
3. Relinquished by		Date	Time	3. Received by		Date	Time	3. Received by		Date	Time	3. Received by		Date	Time
4. Relinquished by		Date	Time	4. Received by		Date	Time	4. Received by		Date	Time	4. Received by		Date	Time
Note: All samples are retained for six weeks from receipt unless other arrangements are made.								LAB USE ONLY Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack				Receipt Temp <b>70</b> °C Temp. Blank <input type="checkbox"/> Y / <input type="checkbox"/> N			



Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 04025

Client <b>SCDHEC</b>			Report to Contact <b>D. THOMA</b>				Sampler (Printed Name) <b>Chris LASHLEY</b>				Quote No.				
Address <b>2600 Bull STREET</b>			Telephone No. / Fax No. / Email <b>803-896-7957</b>				Waybill No.				Page <b>2 of 3</b>				
City <b>Columbia</b>	State <b>SC</b>	Zip Code <b>29201</b>	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.								Number of Containers				
Project Name <b>Interstate Truck Terminal</b>											Bottle (See Instructions on back)				
Project Number <b>00332 / 46582</b>		P.O Number <b>4600088529</b>										Preservative			
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, N.P.H MTEB 1,2 DCA 8 CRYSENARD EDB					Lot No. <b>mJob029</b>		
mw-9		10/5	1107	G	X				X	X	X	Remarks / Cooler ID <b>odor</b>			
mw-10			1115									<b>odor</b>			
mw-12			1040									<b>No odor</b>			
mw-13			1005									<b>No odor</b>			
mw-15			1055									<b>No odor</b>			
mw-16			1058									<b>odor</b>			
mw-18			1310									<b>No odor</b>			
mw-19			1317									<b>No odor</b>			
mw-20			950									<b>No odor</b>			
mw-21		10/5	1405	G	X			X	X	X	<b>odor</b>				
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)			Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab			QC Requirements (Specify)			Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown						
1. Relinquished by			Date <b>10-6-11</b>	Time <b>1147</b>	2. Received by			Date <b>10-6-11</b>	Time <b>1047</b>						
2. Relinquished by			Date <b>10-6-11</b>	Time <b>1225</b>	3. Received by			Date	Time						
3. Relinquished by			Date	Time	4. Laboratory Received by			Date <b>10/6/11</b>	Time <b>1225</b>						
Note: All samples are retained for six weeks from receipt unless other arrangements are made.						LAB USE ONLY Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack			Receipt Temp <b>1.0</b> °C		Temp. Blank <input type="checkbox"/> Y / <input type="checkbox"/> N				





Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 04022

Client <b>SCDHEC</b>		Report to Contact <b>D. THOMA</b>			Sampler (Printed Name) <b>Chris Leshky</b>			Quote No.				
Address <b>2600 Bull Street</b>		Telephone No. / Fax No. / Email <b>803-896-7957</b>			Waybill No.			Page <b>3 of 3</b>				
City <b>Columbia</b>	State <b>SC</b>	Zip Code <b>29201</b>	Preservative						Number of Containers			
Project Name <b>Intenstak Truck Terminal</b>			1. Unpres. 4. HNO3 7. NaOH			3						
Project Number <b>00332 / 40582</b>			2. NaOH/ZnA 5. HCL			A			Bottle (See Instructions on back)			
P.O Number <b>4600088529</b>			3. H2SO4 6. Na Thio.			S			Preservative			
Sample ID / Description (Containers for each sample may be combined on one line)			Date	Time	G-Grab C=Composite	Matrix	Analysis			Lot No.		
							BTEX, D, o, p, h, mTBE, 1,2 DCA, 9 oxygenah, EDG			Remarks / Cooler ID		
MW-22			10/5	1120	G	X	X X X			odor		
DW-1				1345						NO odor		
DW-2				1333						NO odor		
DW-4				1011						NO odor		
DW-5				1220						NO odor		
DW-6				1142		X				NO odor		
WSW-2				1225	G		X   X					
Field Blank			10/5	1125			X X					
Trip Blank							X X					
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)			Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab			QC Requirements (Specify)			Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown			
1. Relinquished by / Sample 			Date 10/6/11	Time 1147	1. Received by 			Date 10/6/11	Time 1147			
2. Relinquished by 			Date 10-6-11	Time 1225	2. Received by			Date	Time			
3. Relinquished by			Date	Time	3. Received by			Date	Time			
4. Relinquished by			Date	Time	4. Laboratory Received by 			Date 10/6/11	Time 1225			
Note: All samples are retained for six weeks from receipt unless other arrangements are made.						LAB USE ONLY Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack			Receipt Temp / <b>10</b> °C			
									Temp. Blank <input type="checkbox"/> Y / <input type="checkbox"/> N			

### Sample Receipt Checklist (SRC)

Client: SC OHEC UST Cooler Inspected by/date: WU 10/22/11 Lot #: 12 J06029

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other			
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	1. Were custody seals present on the cooler?	
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	2. If custody seals were present, were they intact and unbroken?	
Cooler ID/temperature upon receipt <u>1-10</u> °C <u>    </u> / <u>    </u> °C <u>    </u> / <u>    </u> °C <u>    </u> / <u>    </u> °C <u>    </u> / <u>    </u> °C <u>    </u> / <u>    </u> °C <u>    </u> / <u>    </u> °C <u>    </u> / <u>    </u> °C			
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles			
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None			
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.			
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: <u>    </u> . (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	4. Is the commercial courier's packing slip attached to this form?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		5. Were proper custody procedures (relinquished/received) followed?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	5a Were samples relinquished by client to commercial courier?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		6. Were sample IDs listed?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		7. Was collection date & time listed?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		8. Were tests to be performed listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		9. Did all samples arrive in the proper containers for each test?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		10. Did all container label information (ID, date, time) agree with COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		12. Was adequate sample volume available?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		13. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		14. Were any samples containers missing?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		15. Were there any excess samples not listed on COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>	16. Were bubbles present >"pea-size" (1/4" or 6mm in diameter) in any VOA vials?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	20. Were collection temperatures documented on the COC for NC samples?
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)			
Sample(s) <u>    </u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>    </u> (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) with the SR # (number)			
Sample(s) <u>-029 (2)</u> were received with bubbles >6 mm in diameter.			
Sample(s) <u>    </u> were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.			

**Corrective Action taken, if necessary:**

Was client notified: Yes  No

Did client respond: Yes  No

SESI employee:     

Date of response:     

Comments:



C. Earl Hunter, Commissioner

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

MAR 12 2012



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

Re: QAPP Contractor Addendum Directive for Small Scope Contract  
Solicitation # 5400003229; PO# 4600117789

Dear Mr. Shane:

Based on the award of the referenced bid package, enclosed are the information packets to conduct assessments at several facilities. Please submit the Site-specific Quality Assurance Project Plan for an IGWA, Tier I or Assessment Plan, and Assessment Component Cost Agreement as necessary, to my attention **within fifteen (15) days from the date of this correspondence**. Plan implementation shall not commence prior to receipt of written technical and financial approval from the Department. The facilities will be assigned a Cost Agreement (CA) numbers once the QAPP Contractor Addendum has been approved by the project manager. Please reference the CA numbers and Purchase Order # 4600117789 on the appropriate invoices submitted for payment. As specified in the referenced bid, **the completed invoice forms and associated reports (include contractor certification number) are expected on or before the designated due date (see below) after the technical and cost approval from the project manager.**

UST Permit #	Facility	ARRA	County	Project Manager	Work Scope	Due Date*
00332	Interstate Truck Stop	No	Allendale	Cathleen Ridgley	Monitoring Well Installation	60 Days
09340	Westbrook's Grocery	No	York	Debra Thoma	Monitoring Well Installation	60 Days

\*From receipt of Notice to Proceed letter

Midland's Environmental Consultants, Inc. will perform services at the sites on behalf of the site's UST owners; however, payments will be made from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. The site's UST owners have no obligation for payment for this scope of work. **Please note, if there are any changes in the established cost agreement amounts (e.g., additional water supply wells sampled, additional well footage, etc.) contact the site's project manager for technical and/or financial approval. Failure to do so prior to submittal of invoice may result in delay of payment.**

IGWA, Tier I or Assessment Plan, Implementation and Report submittal shall be performed in accordance with the referenced contract. Per Section 3.4.2., a late fee of \$50.00/day (not to exceed 20% of the cost agreement total) may be levied for each report submitted after the deadline established in the Notice to Proceed.

Please provide this office with a schedule of drilling dates and coordinate all work with me before commencing work at the facility. In accordance with the bid specification, a bi-monthly status report of the project should be provided by the 5<sup>th</sup> and 20<sup>th</sup> of each month via e-mail to my attention. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. If you have any questions or need further assistance, please contact me at (803) 896-6585.

Sincerely,



Christopher S. Doll, P.G., Manager  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

Enc: Information Packets (00332 and 09340)

cc: Technical Files (00332 and 09340) with cover sheet & site maps.



**UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-896-6240**

**MEMORANDUM**

TO: Bryan Shane, Midlands Environmental Consultants, Inc.

FROM: Cathleen Ridgley

RE: Request for QAPPA

Facility Name: Interstate Truck Stop

Permit Number: 00332

County: Allendale

Work To Be Completed: Replace monitoring wells MW-14, MW-17, & DW-3; Conduct a comprehensive survey for an accurate map. Sample all monitoring wells and the water supply well for BTEX, naphthalene, MtBE, 1,2-DCA, the oxygenates, ethanol, and EDB.

CA# 43398

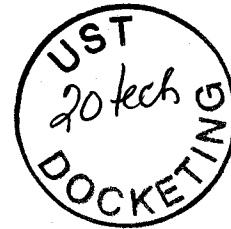
 **Midlands**  
**Environmental**  
**Consultants, Inc.**

March 27, 2012

Ms. Debra Thoma, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: QAPP Contractor Addendum – Revision 0  
Interstate Truck Stop  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 12-3888  
Certified Site Rehabilitation Contractor UCC-0009



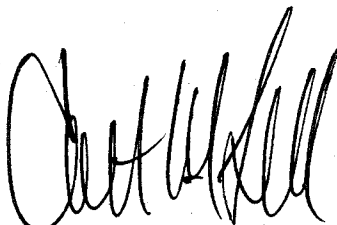
Dear Ms. Thoma,


Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached QAPP Contractor Addendum for the referenced site.

On March 27, 2012, MECI personnel performed a site visit to the subject site to evaluate site conditions, attempt to locate monitoring wells and identify potential problems for future assessment activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

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

  
Courtney M. Sanders  
Staff Biologist

  
Jeff L. Coleman  
Senior Scientist

March 27, 2012

Ms. Cathleen Ridgley, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: QAPP Contractor Addendum – Revision 0  
Interstate Truck Stop  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 12-3888  
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Ridgley,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached QAPP Contractor Addendum for the referenced site.

On March 27, 2012, MECI personnel performed a site visit to the subject site to evaluate site conditions, attempt to locate monitoring wells and identify potential problems for future assessment activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

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

Courtney M. Sanders  
Staff Biologist

Jeff L. Coleman  
Senior Scientist

**Section A: Project Management**

**A1 Title and Approval Page**

Quality Assurance Project Plan  
Addendum to the SC DHEC UST Programmatic QAPP  
For  
Interstate Truck Stop, SCDHEC Site ID# 00332

---

Socahatchee Cemetery Road & Highway 321, Ulmer, South Carolina

---

Prepared by:  
Courtney M. Sanders  
Staff Biologist  
Midlands Environmental Consultants, Inc.  
(Certified Site Rehabilitation Contractor UCC-0009)  
235-B Dooley Road  
Lexington, SC 29073  
(803)808-2043

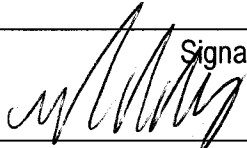
---

Date: March 27, 2012

---


Approvals

Cathleen Ridgley  
SC DHEC Project Manager

  
\_\_\_\_\_  
Signature

Date \_\_\_\_\_

Brendon P. Kelly  
Contractor QA Manager

  
\_\_\_\_\_  
Signature

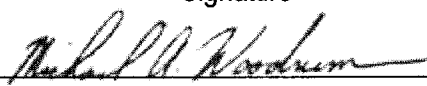
Date 3/27/12

Bryan T. Shane, P.G.  
Site Rehabilitation Contractor

  
\_\_\_\_\_  
Signature

Date 3-27-12

Michael Woodrum  
Laboratory Director

  
\_\_\_\_\_  
Signature

Date 03/27/2012



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### A3 Distribution List

Name	Title	Organization/Address	Telephone Number	Fax Number	Email Address
Cathleen Ridgley	SC DHEC Technical Project Manager	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6633	803-896-6245	ridglect@dhec.sc.gov
Bryan T. Shane, P.G.	Site Rehabilitation Contractor	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	bts@meci.net
Brendon P. Kelly	Quality Assurance Officer	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	bpk@meci.net
Jeff L. Coleman	Field Manager	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	jlc@meci.net
Michael Woodrum	Laboratory Director	Shealy Environmental Services, Inc. 106 Vantage Point Dr. West Columbia, SC 29172	803-791-9700	803-791-9111	mwoodrum@shealylab.com
Stephen Hahn	Schnabel Project Manager	Schnabel Engineering 104 Corporate Blvd, Suite 420 West Columbia, SC 29169	803-796-6240	803-796-6250	shahn@schnabel-eng.com
Mickey Edwards	Schnabel Soil Laboratory Manager	Schnabel Engineering 104 Corporate Blvd, Suite 420 West Columbia, SC 29169	803-796-6240	803-796-6250	medwards@schnabel-eng.com
Tommy Bolyard	Well Services/Driller	Environmental Probing and Drilling Services 17538 Greenhill Road Charlotte, NC 28278	704-607-7529	803-548-2233	EDPS@comprium.net

**Table 1A Addendum Distribution List**

### A4 Project Organization

Role from the UST Master QAPP	Person in this Role for Project	Organization/Address	Telephone Number	Fax Number	Email Address
Project Manager	Cathleen Ridgley	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6633	803-896-6245	ridglect@dhec.sc.gov
Site Rehabilitation Contractor	Bryan T. Shane, P.G.	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	bts@meci.net
Quality Assurance Officer	Brendon P. Kelly	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	bpk@meci.net
Field Manager	Jeff L. Coleman	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	jlc@meci.net
Analytical	Michael	Shealy Environmental	803-791-	803-791-	mwoodrum@shealylab.com

Role from the UST Master QAPP	Person in this Role for Project	Organization/Address	Telephone Number	Fax Number	Email Address
Laboratory Director	Woodrum	Services, Inc. 106 Vantage Point Dr. West Columbia, SC 29172	9700	9111	
Soil Laboratory Manager	Mickey Edwards	Schnabel Engineering 104 Corporate Blvd, Suite 420 West Columbia, SC 29169	803-796-6240	803-796-6250	medwards@schnabel-eng.com
Soil Boring and Monitoring Well Driller	Tommy Bolyard	Environmental Probing and Drilling Services 17538 Greenhill Road Charlotte, NC 28278	704-607-7529	803-548-2233	EDPS@comporium.net
Registered Land Surveyor	Jay S. Joshi	Construction Support Services, Inc. 1318 RL Coward Road Hopkins, SC 29061	803-776-9909	803-776-2688	jsjoshi@constructionssupportsc.com
Disposal Facility	Carol Weldon	Waste Management, Inc. Richland Landfill 1047 Highway Church Road Elgin, SC 29045	803-744-3346	866-904-7194	Not Available
Project Verifier	Courtney M. Sanders or Brendon P. Kelly	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	cms@meci.net

Table 2A Addendum Role Identification and Contact Information

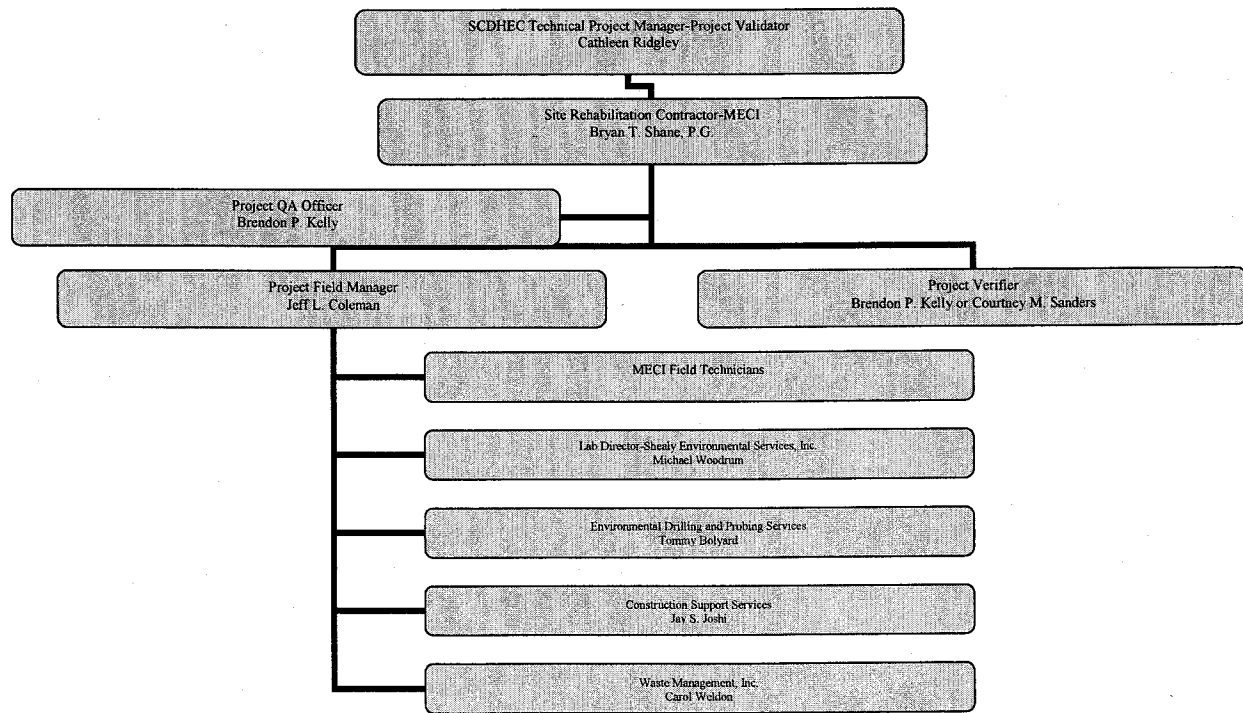


Figure 1A Organizational Chart

Project Manager (Cathleen Ridgley) – The project manager is responsible for direct oversight of contractors conducting assessment and site rehabilitation of releases at UST sites.

Site Rehabilitation Contractor (Bryan T. Shane, P.G.) – The Site Rehabilitation Contractor is an independent contractor responsible for managing and coordinating field and office activities needed for assessments or cleanup.

- Final Review of all work produced for a scope of work.
- Final say on technical interpretation of data.

Quality Assurance Officer (Brendon P. Kelly) – The Quality Assurance Officer is responsible for the oversight of all quality assurance activities associated with projects performed by the Site Rehabilitation Contractor.

- In charge of producing and maintaining the QAPPA for MECI.
- Reviews (and Audits, if necessary) all work produced in conjunction with a scope of work.
- Quality control of data entry and report preparation.

Field Manager (Jeff L. Coleman) –The field manager will oversee all work done on any given project.

- Assign, direct and oversee all field personnel working on each project.
- Responsible for coordinating with the SCDHEC project manager, should any problems or clarifications arise.
- Responsible for all reporting done in conjunction with field work.

Project Verifier (Courtney M. Sanders) – The project verifier is responsible for verifying the quality of data produced during a scope of work. This includes review of field work and laboratory reports for potential quality issues.

Well Driller (Tommy Bolyard) – The well driller is responsible for installing monitoring wells according to South Carolina Well Standards, R.61-71. The well driller is a subcontractor for MECI.

Field Technicians (various employees) – Responsible for all field activities for a given scope of work.

- Conduct all initial site visit, and record findings
- Conduct all field activities associated with a scope of work. All work will be conducted according to the MECI SOP. Will be responsible for reporting any potential problems are inconsistencies found during assessment activities.
- Completes the chain of custody upon completion of sampling event and delivers samples to lab or office for later lab pick-up

## **A5 Problem Definition/Background**

***Discuss the background (as much as is known) of the site and appropriate historical information, and why this site is being assessed.***

The subject site (Interstate Truck Terminal) is located at Socahatchee Cemetery Road & Highway 321, Ulmer, Allendale County, South Carolina. The subject site formally maintained two 8,000 gallon diesel underground storage tanks (UST's), one 8,000 gallon gasoline UST, one 6,000 gallon diesel UST, two

6,000 gallon gasoline UST's, and three 4,000 gallon gasoline USTs. These UST's are still in the ground, but the tank status is rendered unusable (RNU). A release of petroleum product from the subject UST's was reported in June of 2002 and confirmed in October of 2002. The subject site is currently rated a Class2BB.

The site is being assessed in conjunction with the SCDHEC Small Scope Assessment Contract (Solicitation # IFB-5400003229, PO# 4600117789).

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

Underground Storage Tank Division

## **A6 Project/Task Description**

- 1. Summarize what is known about the work to be done. This can be a short sentence indicating what the Scope of this project is (see Master QAPP Section A6).**

The scope of this work is to replace monitoring wells MW-14, MW-17, and DW-3, conduct a comprehensive survey and sample the entire monitoring well network (to include a water supply well sample). During the initial site visit, monitoring wells MW-14, MW-17 and DW-3 were located. These wells were buried by 4 to 6 inches of dirt and grass. These wells will not be replaced as part of this assessment.

A comprehensive survey will be conducted by Construction Support Services of Columbia, SC (Jay S. Joshi-PLS#14811) to locate the vertical and horizontal positions of the monitoring well network and relevant structures.

- 2. The work will begin within fourteen (14) days of receipt of approved QAPP contractors addendum after cost approval and the scope of work should be complete by sixty (60) days of receipt of approved QAPP contractors addendum.**
- 3. Are there are time or resource constraints? Include those factors that may interfere with the tentative schedule.**

Factors that may prevent schedule work will be, but not limited to, inclement weather, equipment malfunction, and machine failure.

## **A7 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs)**

The subject site is located at Socahatchee Cemetery Road & Highway 321, Ulmer, Allendale County, South Carolina. The site is currently occupied by an abandoned gasoline service station.

The proposed work will be conducted on the subject property (Allendale County Tax Map#: 131-00-00-014).

## A8 Training and Certificates

Required training and licenses:

Title/Job	Name	Training Required	Date training received	Type of License	License Number
Principal Geologist	Bryan T. Shane, P.G.	Professional Geologist	10/30/1993	State of South Carolina	1102
Senior Scientist	Jeff Coleman	OSHA 40 hr HAZWOPER	7/27/2007	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	7/27/2011	N/A	N/A
Project Scientist	Brendon Kelly	OSHA 40 hr HAZWOPER	8/21/2009	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/15/11	N/A	N/A
Staff Geologist	John Bryant	OSHA 40 hr HAZWOPER	4/17/2009	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	3/5/2012	N/A	N/A
Field Technician	Brian Owen	OSHA 40 hr HAZWOPER	8/21/2009	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/15/11	N/A	N/A
Staff Biologist	Courtney Sanders	OSHA 40 hr HAZWOPER	12/10/2010	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/15/11	N/A	N/A
Staff Biologist	Kyle Pudney	OSHA 40 hr HAZWOPER	12/10/2010	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/15/11	N/A	N/A
Staff Biologist	Chris Lashley	OSHA 40 hr HAZWOPER	12/10/2010	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/15/11	N/A	N/A
Staff Biologist	Gavin Globensky	OSHA 40 hr HAZWOPER	7/29/2011	N/A	N/A
Staff Biologist	Ryan Ariail	OSHA 40 hr HAZWOPER	9/23/2011	N/A	N/A
Lab Manager	Michael Woodrum	***	***	Lab Certification	SC 32010
Surveying Services	Jay S. Joshi	Tier A Land Surveyor	6/1/1992	PLS	14811

Title/Job	Name	Training Required	Date training received	Type of License	License Number
		Certification			
Drilling Services	Tommy Bolyard - EDPS	SC Drillers Certification	8/24/2004	B	01846

Table 3A Required Training and Licenses

Brendon P. Kelly of Midlands Environmental Consultants, Inc. is responsible to ensuring that personnel participating in this project receive the proper training. All training records will be stored in the following location: 235-B Dooley Road, Lexington, SC 29073.

**It is understood that training records will be produced if requested by SC DHEC.**

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

**Commercial Lab(s)**

Full Name of the Laboratory Shealy Environmental Services, Inc.

Name of Lab Director Michael Woodrum

SC DHEC Certification Number 32010

Parameters this Lab will analyze for this project:

Groundwater:

All monitoring wells and water supply well will be sampled for BTEX, Napth, MTBE, 1,2-DCA, 8-Oxygenates, Ethanol (EPA Method 8260-B), and EDB (EPA Method 8011).

Please note: SC DHEC may require that the contractor submit some or all of the Laboratory's SOPs as part of this QAPP.

**A9 Documents and Records**

**Personnel will receive the most current version of the QAPP Addendum via:  
 (Check all that apply)**

US Mail     Courier     Hand delivered

Other (please specify): E-mailed electronic copies

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival
Instrument Raw Data	Target, Thermospec, or Iteva software	Hardcopy and Electronic	Hardcopy: Offsite storage for 7 yrs Electronic: Two external storage device backups – one offsite, one onsite storage for 10 yrs	Yes

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival
Final Reports	LIMS	Electronic	Electronic: Two external storage device backups – one offsite, one onsite storage for 10 years	Yes
Field Work	Field Staff	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
Chain of Custody	Field Staff	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
QAPP Addendum	Brendon Kelly	Hardcopy & Electronic	MECI office: 235B Dooley Road / Min. 5 years	Yes
Internal QC record	Brendon Kelly	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
Sampling Report	Brendon Kelly	Hardcopy & Electronic	MECI office: 235B Dooley Road / Min. 5 years	Yes
1903 Water Well Record Form	EDPS	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes

Table 4A Record Identification, Storage, and Disposal

## Section B Measurement/Data Acquisition

### B1 Sampling Process/Experimental Design

Item	Start Date	End Date	Comments
Site Reconnaissance	3/26/12	3/26/12	Already Completed
QAPP preparation	3/27/12	3/27/12	In progress
QAPP approval	3/28/12	4/18/12	Assuming three week turnaround
Monitoring well Sampling	4/19/12	5/3/12	Sampled within 2 weeks of QAPP approval
Report Preparation	5/4/12	5/25/12	Three weeks to prepare/submit report

Table 5A Sampling Activities

### B2 Sampling Methods

Please note: The contractor must follow sampling protocols as given in the UST QAPP.

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

Soil \_\_\_\_\_

Ground Water from monitoring wells \_\_\_\_\_ 28 \_\_\_\_\_

From Drinking/Irrigation water wells \_\_\_\_\_ 1 \_\_\_\_\_



Field Duplicate Collection	___ 2 ___
Field Blank Collection	___ 1 ___
Trip Blank	___ 1 ___
From surface water features	___ 1 ___
Total number of samples	___ 34 ___

The samples will be (check as many as apply): \_\_\_ Homogenized \_\_\_ Split

Notes:

- Twenty-eight (28) monitoring wells will be sampled.
- One (1) water supply well (WSW-2) will be sampled during the monitoring well sampling event
- It is anticipated that two (2) field duplicates will be sampled.
- It is anticipated that one (1) field blank will be collected.
- It is anticipated that one (1) trip blanks will be analyzed.

Wells will be installed according to MECI Standard Operating Procedures (4.1.1, 4.1.5, 4.2.1, 4.2.2, & 4.2.4) and in accordance with South Carolina Well Standards, R.61-71.

Monitoring wells will be purged/sampled in accordance with MECI SOP # 4.3.1 through 4.3.5.

**For the sample matrices indicated above, please describe how samples will be collected and the equipment needed.**

Please see MECI SOP 4.1.1 (Soil Screening and Sampling), 4.2 (Monitoring Well Installation), 4.3 (Monitoring Well Sampling) for field procedures that we be utilized during the subject assessment.

**Will Sampling Equipment have to be cleaned and decontaminated or is everything disposable?**

All equipment, excluding electronic water level indicators, field probes and turbidity tubes, is disposable.

**If sampling equipment must be cleaned please give a detailed description of how this is done and the disposal of by-products from the cleaning and decontamination.**

Prior to usage of non-disposable equipment, it is decontaminated with isopropanol applied by a Teflon squeeze bottle and rinsed with analyte free water. This rinse water is collected and run through a portable GAC (granulated activated carbon) unit.

**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.**

Wells will be installed according to MECI Standard Operating Procedures (4.2., 4.2.2, 4.2.3 & 4.2.4) and in accordance with South Carolina Well Standards, R.61-71.

Drill cuttings will be disposed of by MECI personnel at Waste Management Richland County Landfill in Elgin, SC.

All samples (if needed) will be shipped to the lab via lab courier or delivered directly to the lab by MECI personnel.

Following monitoring well installation a subsequent survey will be conducted by MECI personnel.

**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.**

Failure	Response	Documentation	Individual Responsible
Unable to gain access to drilling location	Attempt to create path to well location through vegetation, Utilize plywood boards to cross soft ground, contact SCDHEC project manager to discuss a potential change to the well location.	Record on field sheets, notify SCDHEC and Office.	Field Staff, Field Manager
Hitting a Utility Line while Drilling	Contact PUPS (Palmetto Utilities Protection Service), contact appropriate utility (if gas line is hit, notify fire department)	Record in field sheets, on PUPS ticket in office. Contact SCDHEC project manager to inform them of problem.	Field Staff, Field Manager
Drilling rig breaks down	Attempt to correct problem. If the problem cannot be determined, or cannot be fixed, discontinue drilling for the day. Drilling can continue once drill rig has been fixed, or new drill rig is mobilized to the site	Record on field sheet, notify office staff.	Field Staff, Drill rig operator
Property Owner will not allow access onto property for drilling activities	Stop drilling. Attempt to discuss with property owner the need for the work. Inform SCDHEC project manager of the access issue. If no resolution can be made, discontinue drilling on the disputed property until access can be obtained or new well location is determined.	Document on field sheets (or QAPP, if access denied during QAPP site visit). Inform SCDHEC project manager immediately if any disputes arise.	Field Staff, Field Manager

Table 6A Field Corrective Action

### B3 Sample Handling and Custody

**1. How will the samples get from the Site to the Lab to ensure holding requirements are met?**

Following sample collection, the samples are immediately placed in a laboratory provided cooler, pre-filled with wet ice obtained from the MECI office. Samples are transported to the MECI office once a sampling event is complete. A Chain of Custody (CoC) is filled out following the sampling event by the field staff. See attached CoC. If a lab provided courier is scheduled to visit the MECI offices the day following a sampling event, sampling coolers are repacked with wet ice, and left at the office for pick-up the following morning. If no courier is scheduled to visit the MECI office the day following a sampling event, all sampling coolers are repacked with ice and are dropped off at a lab approved shipping company for overnight delivery to the lab.

**2. How will the contactors cool the samples and keep the samples cool?**

All samples are kept on wet ice, obtained from MECI office.

**3. How will the lab determine the temperature of the samples upon receipt? Will they be using a temperature blank?**

A calibrated thermometer and temperature blank will be used to document sample temperature. The temperature blank is immediately checked by the sample receiving technician upon arrival at the laboratory.

**4. Where will the samples be stored in the Lab once they are received?**

All samples are stored in clean refrigeration units monitored and maintained at 4 degrees C + or - 2 degrees. Volatile organic samples are stored separately from all other samples.

**5. Describe the chain of custody procedure and attach a copy of each chain of custody that will be used. If a Chain of Custody SOP exists from the Lab and the Contractor is willing to adhere to it, then this may be attached.**

A chain of custody (COC) will be filled out for each sampling event at each project site. COC to be signed by MECI and Shealy Environmental technician at time physical transfer of samples occurs to courier. Shealy uses the following COC procedures to protect sample integrity following pickup by their courier: A full time Sample Receiving Technician receives all samples and completes a Sample Receipt Checklist (SRC), which will identify any anomalies, if any exist the Sample Receiving Technician or Project Manager must resolve the deviation internally and/or notify the client to resolve the anomaly.

### 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:**

Parameter	SOP ID*	Method Referenced	Equipment	Comments
BTEX+Naph+MTBE+Oxygentaes	S-VO-002	8260B	GC/MS	
PAH's	S-SV-021	8270D	GC/MS	
EDB	S-SV-012	8011	GC	
Lead,T.	S-IM-022	6010C	ICP	
Ferrous Iron	S-IN-009	SM 3500-FED	Spectrophotometer	
Nitrate	S-IN-042	353.2	Auto-analyzer/Lachate	
Sulfate	S-IN-010	300.0	Ion Chromatograph	
Methane	S-VO-004	RSK-175	GC	
TOC	S-IN-030	Walkley-Black	N/A	
DRO - TPH	S-SV-001	8015C	GC	
pH	MECI SOP 4.3.6	*	YSI 63	Place probe in sample and allow to equilibrate before recording reading
Conductivity	MECI SOP 4.3.6	*	YSI 63	
Dissolved Oxygen	MECI SOP 4.3.6	*	YSI 550A	
Temperature	MECI SOP 4.3.6	*	YSI 550A	
Turbidity	MECI SOP 4.3.6	*	60 cm Turbidity Tube	
PID reading	MECI SOP 4.2.2			Use MiniRae PID to obtain reading. Place probe into soil sample bag and record the highest reading.

Table 7A Analytical SOPs and Referenced Methods

- 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. See also Table 8A SOP Abbreviation Key.

Abbreviation	Lab Identification of this SOP	Full Name of the SOP
S-VO-002	S-VO-002	GC/MS VOLATILES ANALYSIS BASED ON EPA METHODS 8260B AND 624 PREPARED BY EPA METHODS 5030B, 5035 AND 3585
S-SV-021	S-SV-021	GC/MS ANALYSIS BASED ON EPA METHOD 8270D PREPARED BY EPA METHODS 3520C, 3550C AND 3580A
S-SV-012	S-SV-012	GC/ECD ANALYSIS OF EDB AND DBCP BASED ON METHOD 8011 & 504.1
S-IM-022	S-IM-022	INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROSCOPY-PECTROMETRIC METHOD for TRACE ELEMENT ANALYSES METHOD 6010C
S-IN-009	S-IN-009	FERROUS IRON (PHENANTHROLINE METHOD) STANDARD METHOD 3500-Fe D
S-IN-042	S-IN-042	NITRATE+NITRITE NITROGEN BY EPA METHOD 353.2, NITRATE NITROGEN BY 353.2 SUBTRACTION, AND NITRITE NITROGEN BY EPA METHOD 353.2
S-IN-010	S-IN-010	INORGANIC ANIONS BY ION CHROMATOGRAPHY

		EPA METHOD 300.0 and SW-846 9056 and 9056A
S-VO-004	S-VO-004	STANDARD OPERATING PROCEDURE GC ANALYSIS BASED ON METHOD RSKSOP-175
S-IN-030	S-IN-030	TOTAL ORGANIC CARBON (TOC) WALKLEY-BLACK PROCEDURE
S-SV-001	S-SV-001	GC/FID DIESEL RANGE ORGANICS ANALYSIS BASED ON METHOD 8015B and/or 8015C PREPARED BY EPA METHODS 3520C, 3550C and 3580A
MECI SOP 4.2.2	MECI SOP 4.2.2	Drilling Standard operating procedures
MECI SOP 4.3.6	MECI SOP 4.3.6	Sampling Standard operating procedures

**Table 8A SOP Abbreviation Key**

- Identify procedures to follow when failures occur, identify the individual responsible for corrective action and appropriate documentation:

Failure	Response	Documented Where?	Individual Responsible
Field meters not working	Attempt to clean probes, recalibrate in the field.	Record on field sheets, notify office staff. Take meters out of rotation until problem identified and corrected.	Field Staff, Field Manager
COC or Sample Receiving issues	Call Client	Sample Receiving Checklist (SRC)	PM – Kelly Maberry <a href="mailto:kmaberry@shealylab.com">kmaberry@shealylab.com</a>
Analytical errors	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director –Michael Woodrum <a href="mailto:mwoodrum@shealylab.com">mwoodrum@shealylab.com</a>
QA/QC Failure	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director –Michael Woodrum <a href="mailto:mwoodrum@shealylab.com">mwoodrum@shealylab.com</a> QA/QC Officer – Jami Savje <a href="mailto:Jsavje@shealylab.com">Jsavje@shealylab.com</a>
On time delivery	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director –Michael Woodrum <a href="mailto:mwoodrum@shealylab.com">mwoodrum@shealylab.com</a> QA/QC Officer – Jami Savje <a href="mailto:Jsavje@shealylab.com">Jsavje@shealylab.com</a>
PID not functioning properly	Attempt to clean PID, recalibrate.	Record on field sheets, notify office staff. PID taken rotation until problem identified and corrected.	Field Staff, Field Manager

**Table 9A Corrective Action Procedures**

- Identify sample disposal procedures.

Analysis	Matrix	Schedule for	Method for	Comments
----------	--------	--------------	------------	----------

		disposal	disposal	
BTEX+Naph+MTBE+Oxygenates	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
PAH's	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
EDB	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Lead	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Ferrous Iron	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Nitrate,Sulfate	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Methane	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	

All	Water	On-Site	Portable Granulated Activated Carbon (GAC) Unit	All waste water produced from sampling and decontamination activities will be run through a GAC unit
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Table 10A Disposal Procedures

4. 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 UST Programmatic QAPP.

### B6 Field Instrument and Equipment Testing, Inspection and Maintenance

1. Identify all field and laboratory equipment needing periodic maintenance, the schedule for this, and the person responsible. Note the availability and location of spare parts.

Instrument	Serial Number	Type of Maintenance	Frequency	Parts needed/Location	Person responsible
Volatiles Mass Spec	Shealy SOP S-SV-021 Page 7	Change traps, clean ion source, replace filaments	Periodic	Laboratory	MSV Analyst
Semivolatiles Mass Specc	Shealy SOP S-SV-021 Page 7	Injection port maintenance, ion source maintenance, column replacement	Periodic	Laboratory	MSSV Analyst
ECD GC	Shealy SOP S-SV-012 Page 5	Injection port maintenance, column replacement	Periodic	Laboratory	GC Analyst
Dionex IC	Shealy SOP S-IN-010 Page 6	Replace auto sampler filter, tubing, line filter, sample Line and Waste Line, as needed. Check Reagent levels, flow rate, waste line.	Periodic	Laboratory	IC Analyst
ICP	Shealy SOP S-IM-005 Page 6 & 7	Clean Sample introduction system, auto sampler, torch, Change spray chamber,	Periodic	Laboratory	ICP Analyst

		torch tubing, tubing			
Leeman Mercury Analyzer	Shealy SOP S-IM-006 Page 5	Clean GLS, Change Pump tubing, Nafion Dryer, Lamp	Periodic	Laboratory	Mercury Analyst
Flow Injection Analysis – Lachat 8000	Shealy SOP S-IN-042 Page 5	Replace sample and reagent lines, replace light source, re-wrap heating coil, replace column	Periodic/As Needed	Laboratory	Nitrate Analyst
YSI 63	09C 101302, 10K 101895, 07M 100905	Replace probe tip	Yearly	Order from YSI	B. Kelly
YSI 63	09C 101302, 10K 101895, 07M 100905	Replace batteries	As Needed	In stock at office	Field Staff
YSI 63	09C 101302, 10K 101895, 07M 100905	General inspection for wear and tear on equipment	Daily	Major fixes will be done out of office	Field Staff
YSI 63	09C 101302, 10K 101895, 07M 100905	Check buffer solutions for expiration	Weekly	In stock at office	B. Kelly
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	Replace membrane	4 to 8 weeks	In stock at office	Field Staff
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	Replace batteries	As Needed	In stock at office	Field Staff
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	General inspection for wear and tear on equipment	Daily	Major fixes will be done out of office	Field Staff
Turbidity Tube	#1, #2, #3	General inspection for wear and tear on equipment, clarity of Secchi Disk	Daily	Tubes will be cleaned/fixd in office	Field Staff
Electronic Water Level Indicator	WLI-1, WLI-2, WLI-3	Inspection	Weekly	N/A	Field Staff
Oil/Water Interface probe	PLI-1, PLI-2, PLI-3, PLI-4	Inspection	Weely	N/A	Field Staff
MiniRae 3000	592-902491	Cleaning	Weekly	N/A	B. Kelly
MiniRae 3000	592-902491	Parts Inspection	As Needed	In stock at office	Field Staff

Table 11A Instrument and Equipment Maintenance

2. Identify the testing criteria for each lab or field instrument that is used to ensure the equipment is performing properly. Indicate how deficiencies, if found, will be resolved, re-inspections performed, and effectiveness of corrective action determined and documented. Give the person responsible for this

Instrument/Equipment & Serial Number	Type of Inspection	Requirement	Individual Responsible	Resolution of Deficiencies
Volatiles Mass Spec Shealy SOP S-SV-021 Page 7	Daily calibration check	Method Requirements	MSV Analyst	Recalibration or instrument maintenance



Semi-volatiles Mass Spec Shealy SOP S-SV-021 Page 7	Daily calibration check	Method Requirements	MSSV Analyst	Recalibration or instrument maintenance
ECD GC Shealy SOP S-SV-012 Page 5	Daily calibration check	Method Requirements	GC Analyst	Recalibration or instrument maintenance
Dionex IC Shealy SOP S-IN-010 Page 6	Daily calibration check	Method Requirements	IC Analyst	Recalibration or instrument maintenance
ICP Shealy SOP S-IM-005 Page 6 & 7	Daily calibration check	Method Requirements	ICP Analyst	Recalibration or instrument maintenance
Leeman Mercury Analyzer Shealy SOP S-IM-006 Page 5	Daily calibration check	Method Requirements	Mercury Analyst	Recalibration or instrument maintenance
Flow Injection Analysis – Lachat 8000 Shealy SOP S-IN-042 Page 5	Daily and continuing calibration check	See calibration criteria	Nitrate Analyst	Recalibration or instrument maintenance
YSI 63 - 09C 101302, 10K 101895, 07M 100905	Daily calibration check	See calibration criteria	Field Staff	Recalibrate, general maintenance then recalibrate. Ship off for service by manufacturer
YSI 550A - 04L 2026AK, 08B 101407, 04A 0912AI	Daily calibration check	See calibration criteria	Field Staff	Recalibrate, general maintenance then recalibrate. Ship off for service by manufacturer
Turbidity Tubes	Daily Wear/Cleanliness Check	Secchi disk and tube clean, clear of sediment	Field Staff	Clean Tube and Disk
MiniRae 3000 – 592-902491	Weekly calibration check	Within 5 ppm of 100 ppm standard. MiniRae 3000 does not need daily calibration according to Manufacturers guidelines	Field Staff	Recalibrate, general maintenance then recalibrate. Ship off for service by manufacturer
Electronic Water Level Indicator	Monthly	Checked vs. Standard - +/- 0.01 foot per 10 foot length	Field Staff	Ship off for service by manufacturer
Oil/Water Interface probe	Monthly	Checked vs. Standard - +/- 0.01 foot per 10 foot length	Field Staff	Ship off for service by manufacturer

Table 12A Instrument and Equipment Inspection

## 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.

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
Volatiles Mass Spec	Minimum of 5 calibration standards for all compounds	When indicated by continuous calibration verification standard	Method Criteria	Detailed in SOP	MSV Analyst	S-VO-002
Semi-volatile Mass Spec	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	MSSV Analyst	S-SV-021
GC ECD	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	GC Analyst	S-SV-012
Dionex IC	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	IC Analyst	S-IN-010
ICP	Minimum of 3 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	ICP Analyst	S-IM-022
Cetac Mercury Analyzer	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	Mercury Analyst	S-IM-006
Lacaht QuickChem 8000	Minimum of 5 calibration standards	Daily or when indicated by calibration verification standard	Method Criteria	Detailed in SOP	Nitrate Analyst	S-IN-042
YSI 63	pH Calibration	Daily	+/- 0.2 pH units	clean/replace probe tip, recalibrate	Field Staff	4.3.6
YSI 63	Conductivity Calibration	As directed by manufacturer	+/- 10 uS	clean/replace probe tip, recalibrate	Field Staff	4.3.6
YSI 550A	DO calibration	Daily	+/- 0.25 mg/l	clean/replace probe tip, recalibrate	Field Staff	4.3.6
YSI 550A	Temperature	Daily	+/- 1 °C	clean/replace	Field Staff	4.3.6

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
	Calibration			probe tip, recalibrate		
MiniRae 3000	PID Calibration	Weekly	+/- 5 ppm	clean, recalibrate	Field Staff	***
Electronic Water Level Indicator	Checked vs. Standard	Monthly	+/- 0.01 foot per 10 foot length	Replace probe tape	Field Staff	***
Oil/Water Interface probe	Checked vs. Standard	Monthly	+/- 0.01 foot per 10 foot length	Replace probe tape	Field Staff	***

Table 13A Instrument Calibration Criteria and Corrective Action

\* 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. See also Table 8A SOP Abbreviation Key.

### B8 Inspection/Acceptance Requirements for Supplies and Consumables

1. Identify critical supplies and consumables for field and laboratory, noting supply source, acceptance criteria, and procedures for tracking, storing and retrieving these materials.
2. Identify the individual(s) responsible for this.

Item	Vendor	Acceptance criteria	Handling/Storage Conditions	Person responsible for inspection and tracking.
Laboratory Chemicals	Fisher, VWR	Certificates of analysis and laboratory testing	Laboratory storage	Receiving and laboratory personnel
Laboratory standards	O2Si, Restek, High Purity, VHG, Supelco	Certificates of analysis and laboratory verifications	Vendor specific storage conditions	Laboratory Analysts
Sample Containers	Daniels Scientific, QEC	Certificates of analysis and laboratory testing	Bottle storage area	Sample receiving personnel
Clear, Disposable polyethylene Bailers	Preferred Pump	Individual sleeves intact, ball valve operational	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
Nylon Rope	Preferred Pump	Covered with plastic	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
Nitrile Gloves	Preferred Pump	Unopened box, no holes	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
40 mL HCL preserved amber vials	Shealy Environmental Services	Custody seal intact	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
250 mL HNO3 preserved metals vials	Shealy Environmental Services	Custody seal intact	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
Coolers	Shealy Environmental Services	Intact	Stored in Vehicle Bay, Off of the ground	B. Kelly, Field Staff
pH Buffer	TRS Environmental,	Within expiration date	Stored in calibration room	B. Kelly, Field Staff

	Enviroequipment			
Conductivity Standard	TRS Environmental, Enviroequipment	Within expiration date	Stored in calibration room	B. Kelly, Field Staff
DO Membranes	YSI, Enviroequipment	Clean, in box	Stored in calibration room	B. Kelly, Field Staff
Batteries	Any Store	Not previously used	Stored in calibration room	B. Kelly, Field Staff
PID Calibration Gas – Isobutylene	Enviroequipment	Not Depleted, within expiration date	Stored in calibration room	B. Kelly, Field Staff

Table 14A List of Consumables and Acceptance Criteria

### 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., its relevance to project.
3. Indicate the acceptance criteria for these data sources and/or models.

Data Source	Used for	Justification for use in this project	Comments
IGWA Report or information pertaining to nearby LUST Sites.	Historic groundwater and CoC concentration data. Lithology and well construction data from previous MWI's	Establish the type of drilling rig required, time for sampling and any other potential problems that may be encountered.	1903 forms from previous monitoring well installations will be used to estimate depth of the newly installed monitoring wells installed in conjunction with the Tier I Assessment.

Table 15A Non-Direct Measurements

4. Identify key resources/support facilities needed.

### B10 Data Management

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

Following sample collection and chain of custody production, samples are shipped to the lab. Field work from the field staff is reviewed by the MECI project manager, and converted into digital form. All data entry is subsequently checked to validate the data entry. The original copies of the field work are stored in MECI files for a minimum of 5 years. Digital copies of the work are stored on the MECI server, which is backed up weekly, and stored for a minimum of 5 years. The digital copy of the field work is presented to SCDHEC with the final report.

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?

The laboratory maintains comprehensive Quality Control and Training Programs. All sample receipt data, sample log-in, and analytical data is peer reviewed, including review for inappropriate changes. Data management, review procedures and the Quality Systems Program are documented in the laboratory's Quality Manual and Standard Operating Procedures. The Quality Assurance Department oversees adherence to and review of these programs.

All MECI field work is produced using ink-pens. Any attempt to alter field data, after sampling is complete, can be readily identified. MECI keeps a carbon copy of the chain of custody after it is shipped to the lab. This copy is kept with the field work. If any change to the CoC are suspected, this original carbon copy can be used to identify potential changes.

3. How does the lab ensure that there are no errors in samples records including times when sample information is compiled, data calculated and/or transmitted?

Sample data acquisition software is reviewed periodically. The LIMS database is backed up daily and is able to be restored in the event of a system failure. These procedures are documented in laboratory SOP S-AD-003, LIMS. The IT Manager is responsible for these systems and procedures."

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).

Laboratory Hardcopy data stored off site is logged, maintained and archived by the Quality Assurance Department. Laboratory Electronic Data Reports are maintained through IT back up under the responsibility of the IT Systems Manager.

MECI keeps all field work and paper copies of reports in its in-house filing system. All paper copies are stored for a minimum of 5 years. Any file can be retrieved easily by going to the correct filing cabinet/box.

All electronic copies of reports generated are kept on the MECI server. This server is backed-up on a weekly basis. Any file stored on the MECI server can be retrieved instantly, by accessing the server. All electronic files are stored for a minimum of 5 years on the server.

## **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. Will this person have the authority to stop work if severe problems are seen?*

Field audits can be conducted on any field personnel at any time. MECI field audits can be conducted by the Field Manger, who will be responsible for ensuring that field personnel adhere to the QAPP. If during a random field audit, severe problems are found, work will be stopped by the field manager and the QA officer contacted to determine corrective action. All problems must be corrected prior to any additional work being performed. Should it be requested, an On-site Field Audit can be scheduled with the SCDHEC project manager.

- 2. The SCDHEC UST QAPP states that the Lab will receive an Offsite Technical System Audit. For this project, what assessments will be done on the Commercial Lab(s) that are being used—other than their certification audit? When or how often are these done? Who will the results be given to and who has the ability to stop work if problems are severe?*

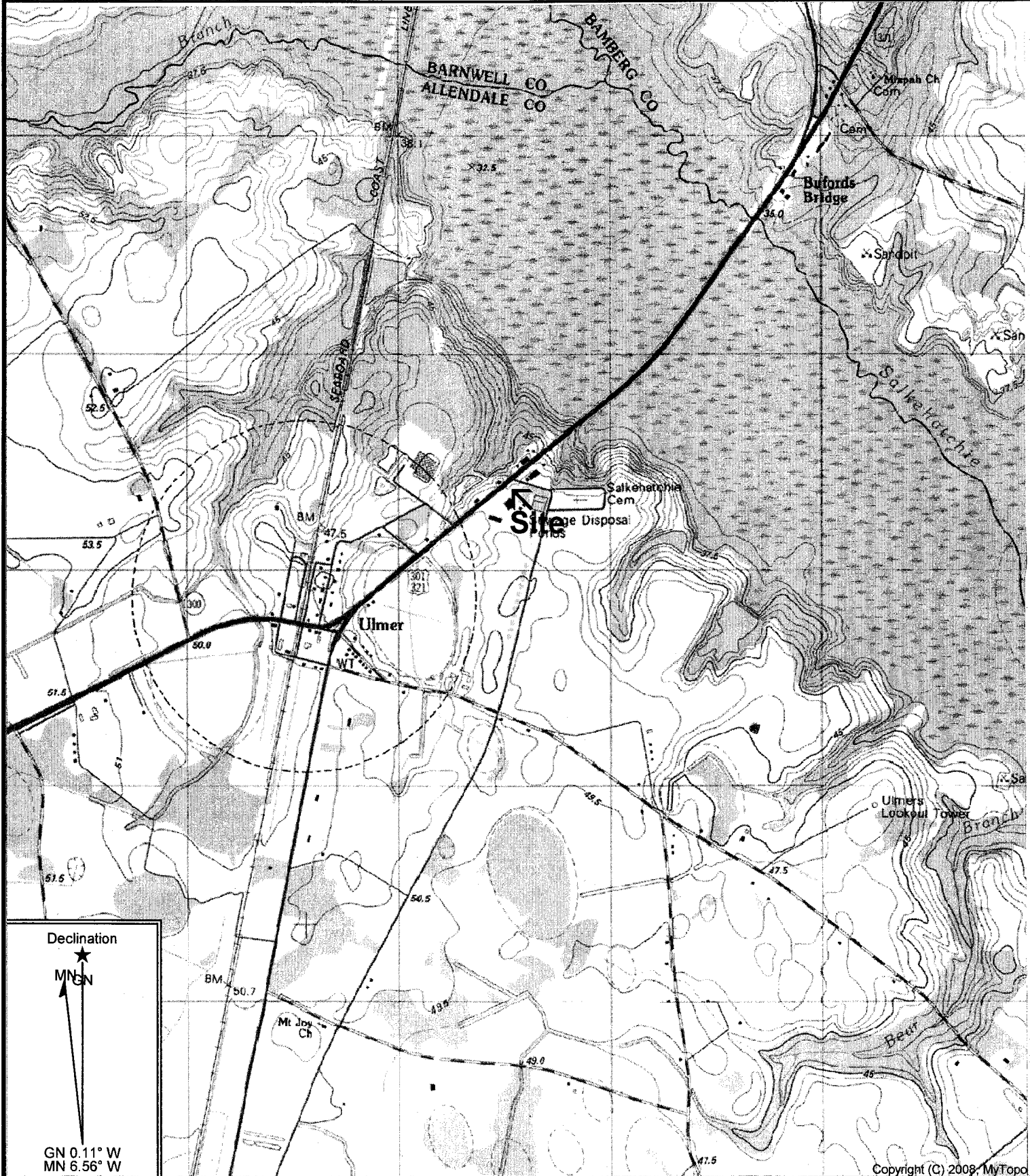
The laboratory participates in annual Proficiency Testing through an approved vendor, Wibby Environmental. Proficiency Testing results are provided to the Office of Environmental Laboratory Certification.

## **C2 Reports to Management**

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

## **Section D Data Validation and Usability**

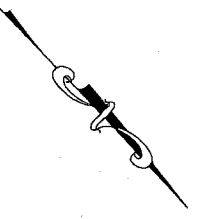
All field and laboratory data will be checked and verified by the project verifier (Brendon Kelly) prior to submission to SCDHEC.



Copyright (C) 2008, MyTopo

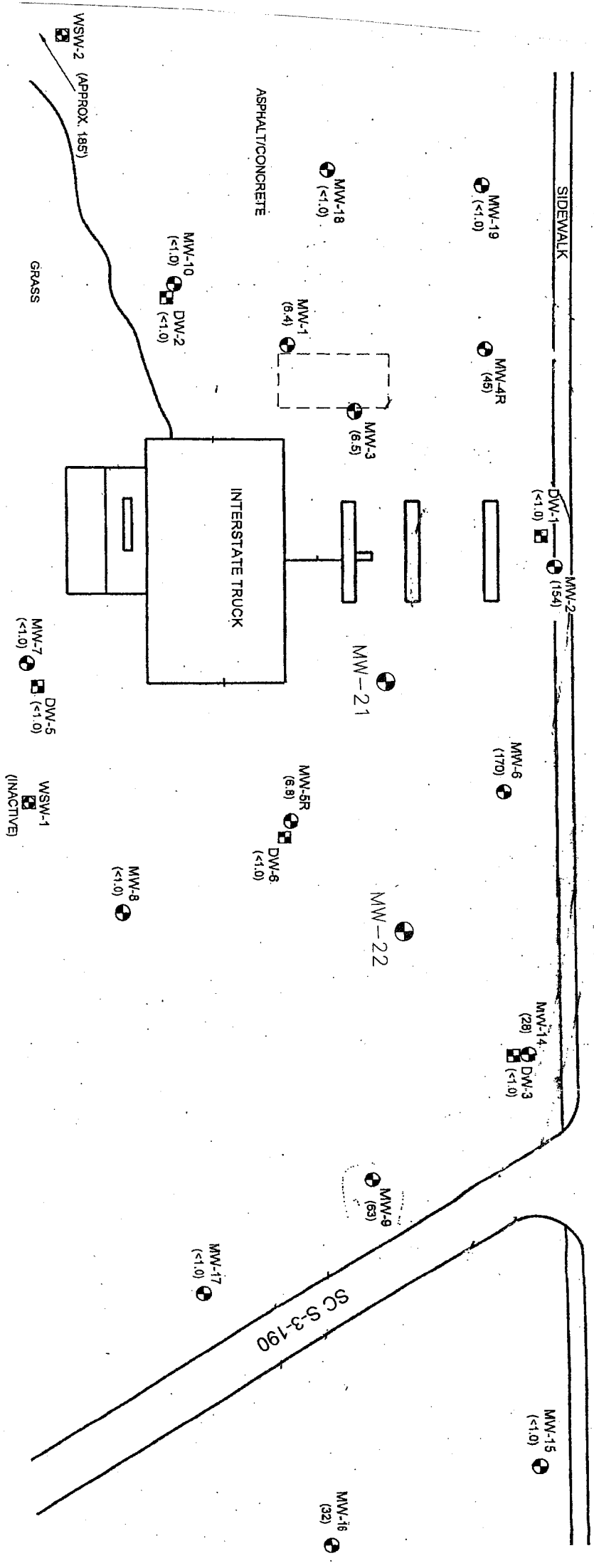
<p>Midlands Environmental Consultants, Inc.</p>	<p>Site Location</p>
<p>Interstate Truck Stop Socahatchee Cemetery Rd. &amp; Hwy. 321, Ulmer, SC SCDHEC Site ID# 00332</p>	
<p>Figure 1</p>	<p>MECI 12-3888</p>

Reference: Sycamore, South Carolina  
 Olar, South Carolina  
 USGS 7.5 Min. Quad  
 Countour Interval - 1.5 Meters



MW-11 (1.0)  
 MW-12 (1.0)  
 MW-13 (1.0)  
 DW-4 (1.0)  
 MW-20 (1.0)

HIGHWAY 301 / HIGHWAY 321



**Explanation:**

- MW-7 SHALLOW MONITORING WELL
- (1.0) CONTAMINANT CONCENTRATION (ppb)
- DW-2 DEEP MONITORING WELL
- (1.0) CONTAMINANT CONCENTRATION (ppb)
- WSW-1 WATER SUPPLY WELL
- FORMER UST PIT
- DISPENSER ISLAND

Groundwater Elevation Data			
Well #	Depth to Water (feet)	Well Head Elevation	Groundwater Elevation
MW-21	28.68	103.77	75.09
MW-22	27.36	101.67	74.31

Notes: Depth to groundwater measured on October 25, 2010.

**Site Features**

Interstate Truck Stop  
 Ulmer, South Carolina  
 ECDHEC Site ID # 00332



JOB NO. 10-3038  
 DATE October 26, 2010

Figure 2

Drawing Based on MECI Field Notes and Map Generated by Consultech Environmental, LLC Dated 12/30/08.





Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 12602

Client			Report to Contact										Sampler (Printed Name)										Quote No.						
Address			Telephone No. / Fax No. / Email										Waybill No.										Page						
City	State	Zip Code	Preservative																				of						
Project Name			1. Unpres. 4. HNO3 7. NaOH																				Number of Containers						
			2. NaOH/ZnA 5. HCL																				Bottle (See Instructions on back)						
			3. H2SO4 6. Na Thio.																				Preservative						
Project Number			P.O Number			G-Grab	C-Composite	Matrix																				Lot No.	
Sample ID / Description (Containers for each sample may be combined on one line)			Date		Time		GW	DW	WW	S	Other	Analysis											Remarks / Cooler ID						
Turn Around Time Required (Prior lab approval required for expedited TAT)			Sample Disposal					QC Requirements (Specify)					Possible Hazard Identification																
<input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)			<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab										<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown																
1. Relinquished by / Sampler			Date		Time		1. Received by					Date		Time															
2. Relinquished by			Date		Time		2. Received by					Date		Time															
3. Relinquished by			Date		Time		3. Received by					Date		Time															
4. Relinquished by			Date		Time		4. Laboratory Received by					Date		Time															
Note: All samples are retained for six weeks from receipt unless other arrangements are made.							LAB USE ONLY					Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack					Receipt Temp. _____ °C		Temp. Blank <input type="checkbox"/> Y / <input type="checkbox"/> N										

COPY



**CONSULTECH ENVIRONMENTAL, INC.**

October 31, 2006

*Received 11/6/06*

Ms. Minda Johnson, Hydrogeologist  
Assessment Section  
Assessment & Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land & Waste Management  
South Carolina DHEC  
2600 Bull Street  
Columbia, South Carolina 29201

RE: Tier II Assessment Report  
Interstate Truck Terminal  
Highway 301/ 321  
Ulmer, South Carolina  
SCDHEC Site ID #332, CA#26142

*26  
12  
38*

Dear Ms. Johnson,

Consultech is pleased to submit this copy of the Tier II Assessment Report, prepared for the above referenced facility in accordance with the Tier II Assessment Plan (Tier II) document dated March 15, 2000, and contract SB-26861-10/26/04-EMW dated November 15, 2004, as authorized by the South Carolina Department of Health and Environmental Control (SCDHEC).

If you should have any questions about this report, please do not hesitate to contact me at (919) 858-5350.

Sincerely,

**CONSULTECH ENVIRONMENTAL, INC.**

*Raj Shah*

Raj B. Shah, P.E.  
Technical Director

cc: File C-05-05-032

*need to  
define plume  
around  
mw-9 + mw-AR  
mw-14*

P.O. Box 5306 Cary, NC 27512  
(919) 858-5350 FAX (919) 858-5351

UST DOCKET 21

# **TIER II ASSESSMENT REPORT**

**Interstate Truck Terminal  
Highway 301/ 321  
Ulmer, South Carolina  
UST Permit #332, CA #26142**

**Prepared for:**

**South Carolina Department of Health  
And Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201**

**Prepared by:**

**Consultech Environmental, Inc.  
P.O. Box 5306  
Cary, North Carolina 27512**

**Consultech Project No. C-05-05-032**

**October 2006**

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# TIER II ASSESSMENT CERTIFICATION

## Tier II Assessment Report (Tier II) Certification

I hereby certify that the information contained in this plan and the associated attachments are true, accurate, and complete, and the plan satisfies all the criteria and requirements of the Tier II assessment guidelines dated March 15, 2000.

I hereby certify that I have directed the fieldwork and preparation of this plan in accordance with State Rules and Regulations. As a professional engineer, I certify that I am a qualified groundwater professional, as defined by the South Carolina Board of Registration for Engineers. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

  
Raj B. Shah, P.E. (Consultech Environmental, Inc.)  
Technical Director



11/3/06  
Date

## **1.0 PROJECT BACKGROUND INFORMATION**

This section presents the purpose of the Tier II Assessment Report (Tier II), a description of the site, and the site assessment history.

### **1.1 Purpose**

The purpose of this Tier II assessment is to provide the South Carolina Department of Health and Environmental Control (SCDHEC) with sufficient information to determine if the petroleum release reported in the previous Tier I Assessment conducted by Geological Resources, Inc. at the Interstate Truck Terminal site poses a potential risk to human health or to the environment. This Tier II specifically provides information outlined in the scope of work as defined in the SCDHEC Tier II Assessment Plan (Tier II) guidance document, dated March 15, 2000. Please reference Consultech's Standard Operating Procedures document, dated December 2004. This report presents the extent of petroleum hydrocarbons released to the environment and an evaluation of the risk of exposure to potential receptors.

### **1.2 Site Description**

The subject site, the Interstate Truck Terminal, is located on the east side of Highway 301/321 in Allendale County (Figures 1 and 2). It currently contains a vacant building and reportedly had nine (9) gasoline and diesel underground storage tanks (USTs) that were closed on September 13, 2002.

### **1.3 Site Assessment History**

Groundwater contaminated with petroleum was discovered in a previous assessment received by the South Carolina UST Assessment Section on October 9, 2002. A Tier I Assessment Report was completed by Geological Resources, Inc. that was dated April 27, 2005.

## **2.0 POTENTIAL RECEPTOR SURVEY**

The receptor survey included a private and public groundwater supply well search, a surface water body search in the area of the site, an underground utility survey, and a discussion of current and future uses of the site and down gradient properties.

### **2.1 Location of Drinking Water Supplies**

Three private water supply wells (Appendix 1) are located within 1000 feet of the site. One well is located at an abandoned motel/restaurant approximately 600 feet to the north



and is inactive. A second well (WSW-1) is located approximately 60 feet east of the on-site building and is not in use. A third well (WSW-2) is located approximately 500 feet south of the on-site building and supplies groundwater to three homes. This well was sampled by Consultech on September 6, 2006, but contaminants were not detected.

## **2.2 Location of Surface Water Bodies**

An area of marshland and a tributary of the Salkehatchie River are located approximately 250 feet northwest of the site. A drainage pond is located approximately 500 feet east of the site.

## **2.3 Underground Utility Survey**

Telephone and water lines run along Highway 301/321 adjacent to the site.

## **2.4 Current and Future Uses of the Site and Downgradient Properties**

The site is bordered by woods, an active gas station, and an inactive gas station across Highway 301/321 to the north and west. A former retail petroleum facility is located to the north. Properties to the south and east are residential and commercial. Future uses of the surrounding area are likely to remain the same.

# **3.0 HYDROGEOLOGY AND GEOLOGY**

## **3.1 Regional Geology and Hydrogeology**

The subject site occupies a portion of the Atlantic Coastal Plain Physiographic Province and consists of Lower Cretaceous to recent age sediments overlying older igneous and metamorphic crystalline rocks. These sediments form a wedge that dips seaward from the fall line, and thickens towards the coast. Surface sediments at the site are marine or fluvial deposits. Deeper sediments consist of a wedge of unconsolidated to poorly consolidated sand and clay. Sediments below the site consist of aquifers and confining units based on their relative permeability and lithology. The major aquifer systems are the Middendorf Aquifer System, the Black Creek Aquifer System, the Tertiary Aquifer System, and the Surficial Aquifer System. The Surficial Aquifer System is usually less than 50 feet in thickness and thickens towards the coast.

## **3.2 Site Hydrogeology**

For this site, a benchmark was established with an assumed elevation of 100.00 feet above the National Geodetic Vertical Datum (NGVD) at the site. The most recent groundwater elevations were measured on September 18, 2006, in monitoring wells MW-1 through MW-14 and DW-1 through DW-4, in order to determine static water levels, to

establish the groundwater gradient, and to check for liquid phase hydrocarbons (LPH). The groundwater elevations in the on-site shallow monitoring wells ranged from 71.20 feet (MW-14) to 75.32 feet (MW-3), with respect to a relative datum elevation of 100.00 feet. LPH were not detected in monitoring wells at the site. A summary of the measurement data collected from the monitoring wells is presented in Table 1.

### **3.3 Site Geology**

Soils from borings and the monitoring wells at the site consist predominantly of fine sandy silt from the surface to approximately 12 feet below the ground surface (bgs). A silty clay is present from 12 feet to approximately 17 feet bgs. Coarse to fine silty sand is present from 17 feet to 35 feet bgs. Soil types appear to be generally similar laterally across the site at each depth. Stratigraphic cross-sections A-A' and B-B' (locations shown on Figure 3) are presented on Figures 4 and 5, respectively.

### **3.4 Site Topography**

The elevation at the subject property, as evidenced by the U.S.G.S. 7.5-minute quadrangle topographic map for the area (Sycamore, South Carolina, Figure 1) appears to be approximately 48 feet above mean sea level. The general direction of surface water drainage in the site vicinity appears to be to the west. An area of marshland and a tributary of the Salkehatchie River are located approximately 250 feet northwest of the site.

## **4.0 INVESTIGATIVE METHODS AND SAMPLING**

### **4.1 Field Screening**

The soil was collected at five-foot intervals bgs from 31 soil borings (SB-1 through SB-31) and then scanned with a calibrated Flame Ionization Detector (FID). Field screening results are presented in Table 2, on boring logs in Appendix 2, and on a FID field-screening map provided as Figure 6. Six groundwater samples (GW-1 through GW-6) were collected from borings during the field screening and were analyzed for the presence of benzene, toluene, ethyl benzene, and total xylenes (BTEX).

### **4.2 Monitoring Well Installation**

Soil samples were described on the basis of lithology, color, and texture. Fifteen monitoring wells were installed for this investigation. The shallow monitoring wells, MW-4R through MW-14 are two-inch diameter PVC wells drilled to 35 ft bgs with 10 feet of screen. Four deep wells were also installed at the site. DW-1 through DW-4 were installed with a six-inch isolation casing cemented at 60 feet bgs. The wells were drilled to a total depth of 70 feet bgs and completed with two inch PVC casing screened from 65 to 70 feet bgs. Well construction diagrams are included with the soil boring logs in

Appendix 2. Existing monitoring wells (MW-1, MW-2, and MW-3) installed by previous contractors were also utilized for this investigation.

### **4.3 Soil Sampling**

Soil was not sampled for this investigation. The soil cuttings generated during Consultech's drilling activities were placed in 55-gallon drums. The soil cuttings were then disposed of in accordance with local, state and federal laws (Appendix 3).

### **4.4 Groundwater Sampling**

Prior to groundwater sampling, groundwater field parameters including dissolved oxygen, pH, temperature, and conductivity were collected from 18 groundwater monitoring wells at the site. The results are presented in Table 3.

On August 22, 2006 water samples were obtained from borings GW-1 through GW-6 and analyzed for BTEX. Analysis results for these samples are presented in Table 4.

Groundwater samples were collected on September 6, 7, 13, and 14, 2006 and October 2, 2006 from shallow monitoring wells MW-1 through MW-14, deep wells DW-1 through DW-4 and the adjacent water supply well (WSW-2), and sent to the lab for analysis. The monitoring wells and water supply wells were analyzed for BTEX, ethylene dibromide (EDB), methyl tertiary butyl ether (MTBE), 1,2-dichloroethane (1,2-DCA), naphthalene, lead, and 8 oxygenates. MW-1 through MW-14 and DW-1 through DW-4 were sampled for nitrate, dissolved iron, methane, and sulfate. The laboratory reports are included in Appendix 4 and summarized in Tables 4 and 5.

## **5.0 PHYSICAL AQUIFER CHARACTERISTICS**

### **5.1 Hydraulic Conductivity Tests**

Consultech conducted in-situ hydraulic conductivity tests in monitoring wells MW-3, MW-5R, and MW-7 (Appendix 5). The hydraulic conductivity tests were conducted by using a bailer or pump to bail out as much water as possible. Using an oil/water interface probe, the water levels were then recorded over time as the water levels in the wells returned to their static levels. The recovery data and completion details of the wells were used to determine the in-situ hydraulic conductivity using the Bouwer and Rice method for the case of a semi-confined aquifer, partially penetrated by a well. The hydraulic conductivities calculated by this method are considered estimated values based on several assumptions, most notably homogenous, isotropic aquifer flow with minimal sand pack recharge.

## 5.2 Direction and Rate of Groundwater Flow

On September 18, 2006, groundwater depths for monitoring wells MW-1 through MW-14 and DW-1 through DW-4 were measured and their corresponding elevations are presented in Table 1. All wells were gauged for the presence of LPH using an oil/water interface probe with LPH not indicated in any monitoring wells.

The groundwater elevations taken on September 18, 2006 are illustrated in the groundwater potentiometric map on Figure 7 and indicate that the shallow groundwater flow direction appears to be towards the northeast. Based on the groundwater elevations in monitoring wells MW-2 and MW-6, and the distances between these wells, the average hydraulic gradient (referenced as "i") is estimated to be 0.011 feet per foot (ft/ft).

The shallow groundwater flow velocity (V) was estimated for the site using the Darcy equation,  $V=(K \times i)/neff$ , with the average K (20.49 feet per day), the gradient i (0.011 ft/ft), and the estimated effective porosity (neff) of 0.30. This equation assumes a homogeneous, isotropic aquifer that is infinite in a real extent (i.e., no boundary conditions). Based on this calculation, the average groundwater velocity is estimated to be 0.75 ft/day or 274 ft/yr (Appendix 5).

## 6.0 HORIZONTAL AND VERTICAL EXTENT OF PETROLEUM HYDROCARBONS

### 6.1 Extent of Petroleum Contamination in Soil

The delineation of the soil contamination at the site was not a part of this investigation.

### 6.2 Extent of Petroleum Contamination in Groundwater

Groundwater samples were collected on September 6, 7, 13, and 14, 2006 and October 2, 2006 from shallow monitoring wells MW-1 through MW-14 and deep wells DW-1 through DW-4. Table 4 presents the analytical results for BTEX, MTBE, 1,2-DCA, and naphthalene in groundwater at the site. Figure 8 demonstrates that benzene was detected in groundwater above the risk based screening level (RBSL) of 5.0 micrograms per liter ( $\mu\text{g/l}$ ) in monitoring wells MW-2 (180  $\mu\text{g/l}$ ), MW-4R (68  $\mu\text{g/l}$ ), MW-5R (14  $\mu\text{g/l}$ ), MW-6 (160  $\mu\text{g/l}$ ), MW-9 (180  $\mu\text{g/l}$ ), and MW-14 (79  $\mu\text{g/l}$ ).

Toluene (Figure 9) was detected in the groundwater above the RBSL of 1,000  $\mu\text{g/l}$  in monitoring wells MW-2 (4,400  $\mu\text{g/l}$ ), MW-4R (1,300  $\mu\text{g/l}$ ), MW-6 (2,500  $\mu\text{g/l}$ ), MW-9 (2,900  $\mu\text{g/l}$ ), and MW-14 (4,800  $\mu\text{g/l}$ ). Ethylbenzene (Figure 10) was detected in groundwater above the RBSL of 700  $\mu\text{g/l}$  in monitoring wells MW-2 (2,200  $\mu\text{g/l}$ ), MW-

4R (1,200 ug/l), MW-9 (750 ug/l), and MW-14 (1,500 ug/l). Figure 11 indicates that total xylenes were detected above the RBSL of 10,000 ug/l in MW-2 (11,000 ug/l).

Naphthalene (Figure 12) was detected in groundwater above the RBSL of 25.0 µg/l in monitoring wells MW-2 (200 ug/l), MW-4R (130 ug/l), MW-5R (250 ug/l), MW-6 (150 ug/l), MW-9 (290 ug/l), and MW-14 (150 ug/l).

Deep monitoring wells DW-1, DW-2, and DW-3 contained contaminants at concentrations below their RBSL. Contaminants were not detected in groundwater in DW-4.

Table 5 presents natural attenuation parameters, and EDB and lead concentrations, that were measured during the September 6, 7, 13, and 14, 2006 and October 2, 2006 sampling events, in monitoring wells MW-1 through MW-14, DW-1 through DW-4, and in water supply well WSW-2. Lead was present above the RBSL of 0.015 milligrams per liter (mg/l) in monitoring wells MW-2 (0.109 mg/l), MW-4R (0.0726 mg/l), MW-5R (0.0273 mg/l), MW-6 (0.063 mg/l), MW-7 (0.0274 mg/l), MW-10 (0.016 mg/l), MW-11 (0.0364 mg/l), MW-14 (0.0427 mg/l), and DW-1 (0.0209 mg/l). EDB was present above the RBSL of 0.05 ug/l in monitoring wells MW-2 (0.24 µg/l), MW-4R (0.23 ug/l), and MW-14 (0.18 ug/l). The eight oxygenates were not detected in groundwater at the site. The total of the eight oxygenates (TO) for each monitoring well are presented in Table 5.

Natural attenuation will be discussed in section 8.2.

### **6.3 Extent of LPH Plume**

LPH were not detected in any monitoring wells.

## **7.0 GROUNDWATER MODELING**

### **7.1 Domenico's Model**

The Domenico's Model will be utilized by South Carolina DHEC to determine site-specific target levels (SSTLs) for the source area.

### **7.2 Fate and Transport Modeling**

South Carolina DHEC will conduct fate and Transport modeling.

## 8.0 TIER II SITE EVALUATION

### 8.1 Site Conceptual Model and Exposure Points

A site conceptual exposure model was completed for the site which identified exposure pathways using information obtained during this assessment, including facility operations, measured hydrogeologic conditions, potential receptors, type of source, and the identified release. The results of this model are included as Tables 6 and 7 for the source area.

A release from USTs has resulted in groundwater contamination with concentrations above the RBSLs. The site is down gradient from three homes that share a potable water supply well. There remains some potential for this well to become impacted in the future. Until the contaminant plume has been fully delineated, the threat to down gradient surface water remains unknown.

### 8.2 Site Specific Point of Compliance

The horizontal extent of groundwater contamination has not been fully delineated. Consultech does not recommend establishing points of compliance until additional assessment activities have been conducted.

### 8.3 Natural Attenuation Parameters Evaluation

Dissolved oxygen (DO) concentrations measured in each monitoring well ranged from 0.1 mg/l in monitoring well MW-11 to 5.4 mg/l in monitoring well MW-7. A comparison of Tables 3 and 4 shows that there is no apparent correlation between DO concentrations and dissolved concentrations of the petroleum fuel related compounds.

Tables 4 and 5 were compared to determine if a correlation can be shown between the concentrations of natural attenuation parameters within and outside of the contaminant plume. Nitrate was present in the groundwater at the site at concentrations ranging from <0.10 mg/l (MW-4R) to 16 mg/l (MW-6). MW-6 lies within the benzene plume and there is little evidence that areas of depleted nitrate correlate with the elevated BTEX concentrations in the groundwater. Petroleum hydrocarbons beneath the site are likely not being biodegraded through denitrification.

Ferrous iron (FI) concentrations ranged from <0.10 mg/l in several monitoring wells to 51.2 mg/l in MW-9. The monitoring wells with the highest concentrations of BTEX and naphthalene also had high levels of iron. With the exception of MW-7 that had a high concentration of dissolved iron outside the groundwater petroleum contamination plume, there does appear to be a relationship between high FI concentrations and contaminants. Ferric iron ( $\text{Fe}^{+3}$ ) oxides appear to be being reduced to ferrous iron ( $\text{Fe}^{+2}$ ) during biodegradation of petroleum hydrocarbons.

Sulfate concentrations ranged from 1.0 mg/l in monitoring well MW-4R to 84 mg/l in monitoring well DW-4. There appears to be a correlation between sulfate concentrations and the presence of hydrocarbons, with the lowest sulfate concentrations present in monitoring wells inside the contaminant plume. Therefore, anaerobic biodegradation of petroleum hydrocarbons may be occurring by sulfate reduction.

Methane concentrations ranged from <0.03 mg/l in several monitoring wells to 0.043 mg/l in monitoring well MW-2. With the exception of monitoring well MW-7, methane was not present outside the BTEX and naphthalene contaminant plumes. With the exception of MW-6, the highest concentrations of methane in the monitoring wells generally corresponded with the highest benzene concentrations. Therefore, anaerobic biodegradation of petroleum hydrocarbons may be occurring by methane reduction.

#### **8.4 Calculation of Site Specific Target Levels**

South Carolina DHEC will calculate SSTL's.

#### **8.5 RBCA Site Classification**

Based on the SCDHEC document "Risk Based Corrective Action for Petroleum Releases" dated May 15, 2001, Appendix A – RBCA Site Priority Classification System, Consultech classifies this release as a 2b because potable supply wells are located within 1,000 feet of the site.

### **9.0 RECOMMENDATIONS**

The groundwater contaminant plume has been mostly delineated but additional assessment is recommended. Consultech recommends continued monitoring of water supply well WSW-2. Continued monitoring of water supply well WSW-1 is recommended if the Site becomes active.

## 10.0 REFERENCES

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**Table 1**

**Well Construction Details, Groundwater Elevation Data  
Interstate Truck Terminal, Ulmer, SC - Facility # 00332  
Consultech Project C-05-05-032**

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
MW-1	09/18/06	25'-35'	103.24		28.88	74.36 ✓
MW-2	09/18/06	25'-35'	102.49		28.64	73.85 ✓
MW-3	09/18/06	24'-34'	103.46		28.14	75.32 ✓
MW-4R	09/18/06	25'-35'	101.87		27.35	74.52 ✓
MW-5R	09/18/06	25'-35'	103.94		31.16	72.78 ✓
MW-6	09/18/06	25'-35'	101.38		28.51	72.87 ✓
MW-7	09/18/06	25'-35'	104.36		31.10	73.26 ✓
MW-8	09/18/06	25'-35'	102.76		30.03	72.73
MW-9	09/18/06	25'-35'	99.67		28.12	71.55
MW-10	09/18/06	25'-35'	102.33		28.01	74.32
MW-11	09/18/06	25'-35'	100.40		25.31	75.09
MW-12	09/18/06	25'-35'	99.29		25.79	73.50
MW-13	09/18/06	25'-35'	99.71		26.82	72.89
MW-14	09/18/06	25'-35'	99.32		28.12	71.20
DW-1	09/18/06	65'-70'	102.22		23.92	78.30
DW-2	09/18/06	65'-70'	102.59		28.90	73.69
DW-3	09/18/06	65'-70'	99.53		28.41	71.12
DW-4	09/18/06	65'-70'	99.86		28.79	71.07

All measurements reported in feet

**Table 2**

**FID Field Readings**

**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**

**Consultech Project C-05-05-032**

Sample	Date	5'	10'	15'	20'	25'	30'	35'	40'	45'
SB-01	08/21/06	1.1	1.2	1.1	1.4	1.1	1.1			
SB-02	08/21/06	1.2	1.3	1.1	1.2	1.1	1.1			
SB-03	08/21/06	1.1	1.1	5.8	323	2469	2954			
SB-04	08/21/06	1.2	1.1	1.5	4.1	1.2	1.3			
SB-05	08/21/06	1.3	1.2	1.1	1.1	1.2	1.2			
SB-06	08/21/06	1.3	1.3	1.3	1.1	1.2	1.1	1.1	1.2	1.2
SB-07	08/21/06	1.1	1.1	2.1	96.2	589	725			
SB-08	08/21/06	1.2	1.1	1.3	1.6	2.7	9.9			
SB-09	08/21/06	1.2	1.1	1.2	1.2	1.1	1.1			
SB-10	08/22/06	1.1	1.1	1.2	94.9	1949	2759			
SB-11	08/22/06	1.1	1.1	1.2	10.3	573	791			
SB-12	08/22/06	0.9	1.1	1.1	1.4	10.6	24.5			
SB-13	08/22/06	0.9	1.1	1.1	1.4	1.2	1.1			
SB-14	08/22/06	1.5	1.3	79.9	68.3	3290	3200			
SB-15	08/22/06	1.3	1.2	75.8	71.3	3390	3310			
SB-16	08/22/06	1.3	1.2	65.8	48.7	3370	3350			
SB-17	08/22/06	1.1	1.2	35.7	37.7	1579	1829			
SB-18	08/22/06	1.2	1.1	1.3	1.1	23.1	32.9			
SB-19	08/22/06	1.3	1.3	90.6	41.4	3390	3390			
SB-20	08/22/06	1.1	1.3	1.2	1.1	1.1	1.2			
SB-21	08/22/06	1.1	1.1	1.2	1.2	7.9	14.2			
SB-22	08/22/06	1.2	1.1	1.2	4.6	29.9	74.2			
SB-23	08/22/06	1.1	1.1	1.1	1.2	1.3	1.1			
SB-24	08/26/06	1.2	1.1	1.1	1.2	1.5	2.1	1.8	1.4	1.4
SB-25	08/26/06	1.2	1.1	1.1	1.2	4.3	9.8			
SB-26	08/26/06	1.2	1.2	1.3	1.1	212	545			
SB-27	08/26/06	1.1	1.4	2.1	12.9	1845	2765			
SB-28	08/26/06	1.2	1.1	1.1	1.4	6.1	27.9			
SB-29	08/26/06	1.3	1.1	1.2	1.3	1.1	1.3			
SB-30	08/26/06	1.1	1.1	1.1	1.3	2.1	3.7			
SB-31	08/26/06	1.1	1.1	1.1	1.3	1.5	2.9			

FID reading in parts per million

**Table 3**

**Groundwater Field Parameter Results**

**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**

**Consultech Project C-05-05-032**

Well Number	Date	Dissolved Oxygen (parts per million)	pH	Temperature (°C)	Conductivity (us/cm <sup>*</sup> )
MW-1	09/13/06	1.8	5.9	23	90
MW-2	09/13/06	1.3	6.0	24	340
MW-3	09/13/06	3.2	6.5	24	110
MW-4R	09/13/06	0.5	6.5	23	190
MW-5R	09/13/06	0.0	6.4	22	220
MW-6	09/13/06	0.7	6.7	23	230
MW-7	09/13/06	5.4	6.4	21	120
MW-8	09/13/06	3.7	6.4	21	300
MW-9	09/13/06	3.8	6.5	21	240
MW-10	09/13/06	4.7	6.6	23	110
MW-11	09/13/06	0.1	6.5	22	170
MW-12	09/13/06	0.9	6.4	21	110
MW-13	09/13/06	1.9	6.4	21	130
MW-14	09/13/06	0.2	6.7	23	210
DW-1	09/13/06	2.3	5.8	23	150
DW-2	09/13/06	4.7	6.5	22	150
DW-3	09/13/06	4.5	6.2	23	240
DW-4	10/02/06	4.0	6.0	21	190

\*us/cm - microsiemens per centimeter

Table 4

**BTEX and PNA Groundwater Analytical Results (ug/l)**  
**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**  
**Consultech Project C-05-05-032**

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Napthalenes	1,2,DCA
<i>RBSL</i>		5.0	1,000.0	700.0	10,000.0	40.0	25.0	NA
MW-1	09/06/06	<1.0	1.2	1.4	2.9	<1.0	<5.0	<5.0
	04/06/05	<b>78.4</b>	<b>3,400</b>	<b>1,730</b>	7,880	<1.0	<b>153</b>	NS
MW-2	09/06/06	<b>180</b>	<b>4,400</b>	<b>2,200</b>	<b>11,000</b>	<20	<b>200</b>	<100
	04/06/05	2.4	4.7	17.8	35.5	<1.0	2.40	NS
MW-3	09/06/06	<20	29	130	650	<20	<100	<100
	04/06/05	<b>6.1</b>	132	532	2,590	<1.0	<b>171</b>	NS
MW-4R	09/07/06	<b>68</b>	<b>1,300</b>	<b>1,200</b>	6,200	<10	<b>130</b>	<50
MW-4*	04/06/05	5.7	79.0	352	702	<1.0	<b>55.0</b>	NS
MW-5R	09/07/06	<b>14</b>	35	430	1,900	<10	<b>250</b>	<50
MW-5*	04/06/05	4.6	17.7	248	999	<1.0	<b>123</b>	NS
MW-6	09/13/06	<b>160</b>	<b>2,500</b>	680	5,600	<10	<b>150</b>	<50
MW-7	09/07/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
MW-8	09/13/06	<1.0	2.0	<1.0	2.0	<1.0	<5.0	<5.0
MW-9	09/07/06	<b>180</b>	<b>2,900</b>	<b>750</b>	5,000	<10	<b>290</b>	<50
MW-10	09/07/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
MW-11	09/13/06	1.1	3.4	1.8	8.2	<1.0	<5.0	<5.0
MW-12	09/13/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
MW-13	09/13/06	<1.0	1.3	<1.0	1.1	<1.0	<5.0	<5.0
MW-14	09/07/06	<b>79</b>	<b>4,800</b>	<b>1,500</b>	8,100	<10	<b>150</b>	<50
DW-1	09/14/06	1.5	14	35	150	<1.0	<5.0	<5.0
DW-2	09/14/06	<1.0	2.9	2.0	14	<1.0	<5.0	<5.0
DW-3	09/14/06	1.2	17	5.5	29	<1.0	<5.0	<5.0
DW-4	10/02/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
WSW-2	09/06/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0

\*Previously constructed monitoring wells that lie adjacent to replacement monitoring wells constructed for this investigation. Only replacement well locations are shown on report maps.

**Analytical Groundwater Screening Results**

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes
<i>RBSL</i>		5.0	1,000.0	700.0	10,000.0
GW-1	08/22/06	1.4	14	2.1	11.0
GW-2	08/22/06	2.5	19	2.7	13
GW-3	08/22/06	1.8	16	2.5	13
GW-4	08/22/06	<b>150</b>	<b>2900</b>	340	1500
GW-5	08/22/06	<1.0	7.6	1.2	5.1
GW-6	08/22/06	<1.0	2.5	<1.0	<1.0

All concentrations in parts per billion  
 Concentrations in bold exceed Risk Based Screening Levels (RBSL)  
 NS- Monitoring well not sampled for analyte indicated

Table 5

Groundwater Natural Attenuation, EDB, Total Oxygenates, and Lead Results  
 Interstate Truck Terminal, Ulmer, SC - Facility # 00332  
 Consultech Project C-05-05-032

Well Number	Date	EDB (ug/l)	Total 8-Oxygenates	Total Lead (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Iron (mg/l)	Methane (mg/l)
RBSL		0.05	NA	0.015	NA	NA	NA	NA
MW-1	09/06/06	<0.020	<100	<0.0100	2.4	7.3	<0.100	<0.003
MW-2	09/06/06	0.24	<2000	0.1090	0.73	1.8	20.7	0.043
MW-3	09/06/06	<0.020	<2000	<0.0100	1.2	3.3	7.46	<0.003
	04/06/05	0.09	-	0.0420	1.70	2.69	30.4	<0.026
MW-4R	09/07/06	0.23	<1000	0.0726	<0.10	1.0	12.7	<0.003
MW-4*	04/06/05	<0.020	-	0.0310	1.04	4.14	12.3	<0.026
MW-5R	09/07/06	<0.019	<1000	0.0273	3.1	3.4	22.1	<0.003
MW-5*	04/06/05	<0.020	-	0.0230	1.40	2.51	33.7	<0.026
MW-6	09/13/06	<0.019	<1000	0.0630	16	1.8	11.2	0.003
MW-7	09/07/06	<0.019	<100	0.0274	3.0	24	14.5	0.007
MW-8	09/13/06	<0.019	<100	<0.0100	6.3	4.5	3.96	<0.003
MW-9	09/07/06	<0.021	<1000	0.0142	0.77	1.8	51.2	0.019
MW-10	09/07/06	<0.019	<100	0.0160	1.3	4.1	2.82	<0.003
MW-11	09/13/06	<0.019	<100	0.0364	0.92	3.1	21.9	0.005
MW-12	09/13/06	<0.019	<100	<0.0100	1.7	2.4	7.84	<0.003
MW-13	09/13/06	<0.020	<100	<0.0100	1.3	3.4	10.0	<0.003
MW-14	09/07/06	0.18	<1000	0.0427	2.6	1.8	16.3	0.012
DW-1	09/14/06	<0.019	<100	0.0209	1.3	5.0	<0.100	<0.003
DW-2	09/14/06	<0.020	<100	<0.0100	2.6	32	<0.100	<0.003
DW-3	09/14/06	<0.020	<100	0.0122	2.0	44	<0.100	<0.003
DW-4	10/02/06	<0.019	<100	<0.0100	0.78	84	<0.100	<0.003
WSW-2	09/06/06	<0.019	<100	<0.0100	NS	NS	NS	NS

Previously constructed monitoring wells that lie adjacent to replacement monitoring wells constructed for this investigation. Only replacement well locations are shown on report maps.

NS- Well not sampled for analyte indicated  
 ug/l- micrograms per liter  
 mg/l- milligrams per liter

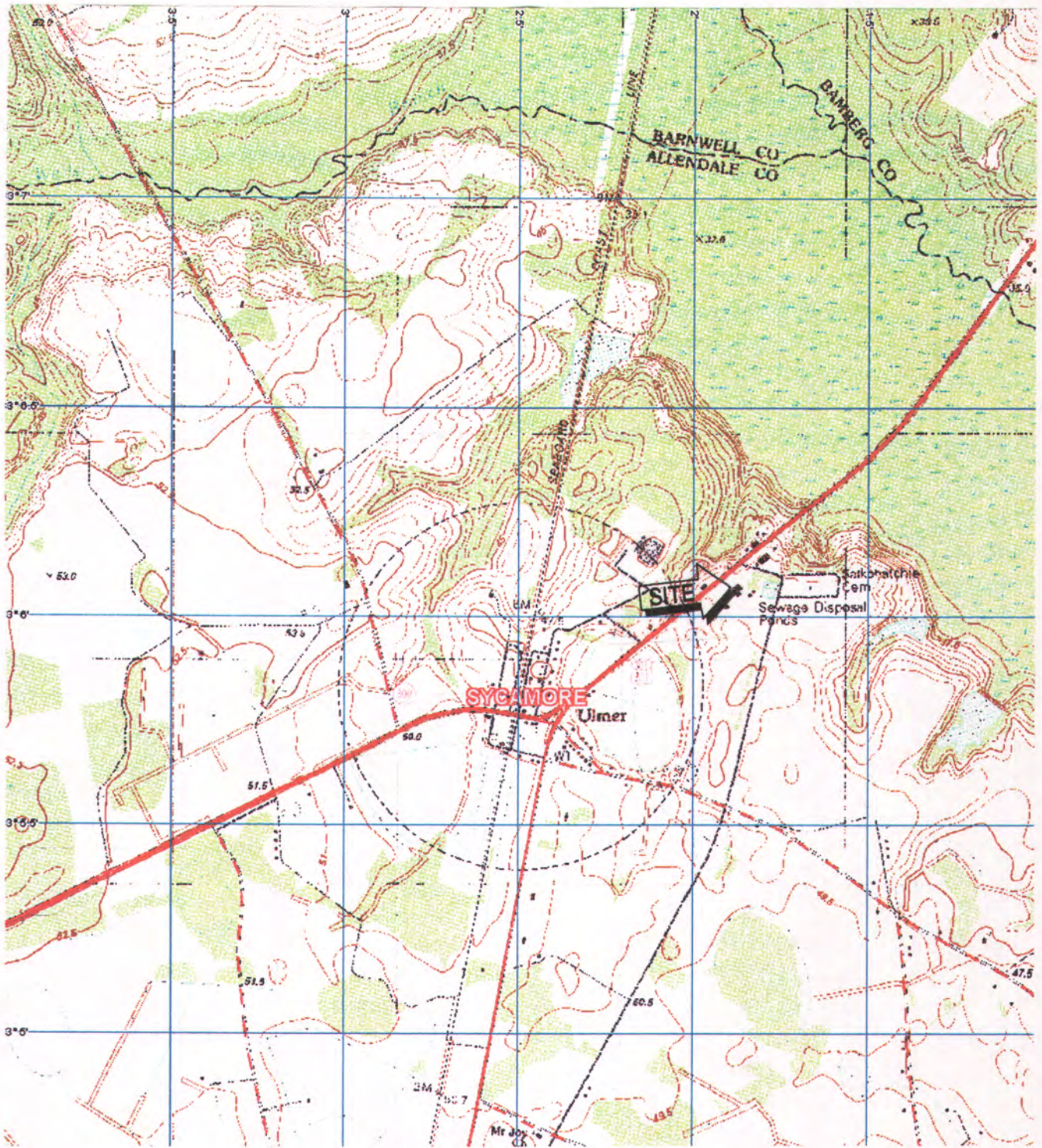
**Table 6**  
**Site Conceptual Exposure Model - Current Land Use**

Media (for exposure)	Exposure Route	Pathway Selected for Evaluation?	Exposure Point/ Reason for Non-Selection	Data Requirments (If Pathway Selected)
Air	Inhalation	NO	No in-use structures, basements, or sewer lines over contaminant plume.	
	Explosion Hazard	NO		
Groundwater	Ingestion	YES	Active up gradient water supply well.	Continued sampling of monitoring wells and water supply well.
	Dermal Contact	YES		
	Volatile Inhalation	YES		
Surface Water	Ingestion	YES	A drainage pond and marshland are located east and north of the site.	Additional delineation of contaminant plume.
	Dermal Contact	YES		
	Volatile Inhalation	YES		
Surficial Soil	Ingestion	NO	The Tier I Assessment detected relatively minor soil contamination at the site.	
	Dermal Contact	NO		
	Volatile Inhalation	NO		
	Leaching to Groundwater	NO		
Subsurface Soil	Ingestion	NO	Ingestion unlikely with subsurface soil. The Tier I Assessment detected relatively minor soil contamination at the site.	
	Dermal Contact	NO		
	Volatile Inhalation	NO		
	Leaching to Groundwater	NO		

**Table 7**  
**Site Conceptual Exposure Model - Future Land Use**

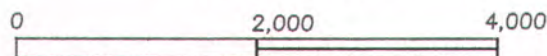
Media (for exposure)	Exposure Route	Pathway Selected for Evaluation?	Exposure Point / Reason for Non-Selection	Data Requirements (If Pathway Selected)
Air	Inhalation	NO	No in-use structures, basements, or sewer lines over contaminant plume.	
	Explosion Hazard	NO		
Groundwater	Ingestion	YES	Up gradient water supply well in-use	Continued sampling of monitoring wells and water supply well.
	Dermal Contact	YES	Side gradient well not in-use but status of well could change in the future.	
	Inhalation	YES		
Surface Water	Ingestion	YES	A drainage pond and marshland are located east and north of the site.	Additional delineation of contaminant plume.
	Dermal Contact	YES		
	Inhalation	YES		
Surficial Soil	Ingestion	NO	The Tier I Assessment detected relatively minor soil contamination at the site.	
	Dermal Contact	NO		
	Volatile Inhalation	NO		
	Leaching to Groundwater	NO		
Subsurface Soil	Ingestion	NO	Ingestion unlikely with subsurface soil. The Tier I Assessment detected relatively minor soil contamination at the site.	
	Dermal Contact	NO		
	Volatile Inhalation	NO		
	Leaching to Groundwater	NO		





REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP. 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY

SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 1  
SITE LOCATION MAP

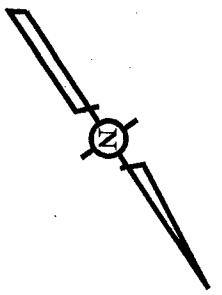
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WOODED  
MW-11

MW-12

MW-13  
DW-4

WOODED

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

DW-1 MW-2

MW-4R

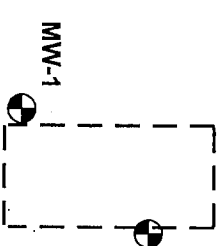
MW-6

MW-14  
DW-3

MW-9

SC-S-3-190

ASPHALT/CONCRETE



MW-1

MW-3

INTERSTATE TRUCK

MW-10  
DW-2

CONCRETE

MW-5R

GRASS

MW-7

WSW-1  
(INACTIVE)

MW-8

WSW-2 (APPROX. 165')

**LEGEND**

MW-7 SHALLOW MONITORING WELL

DW-2 DEEP MONITORING WELL

WSW-1 WATER SUPPLY WELL

FORMER UST PIT

DISPENSER ISLAND



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DRAWN: MAC DATE: 10/24/06

SITE ID # 00332

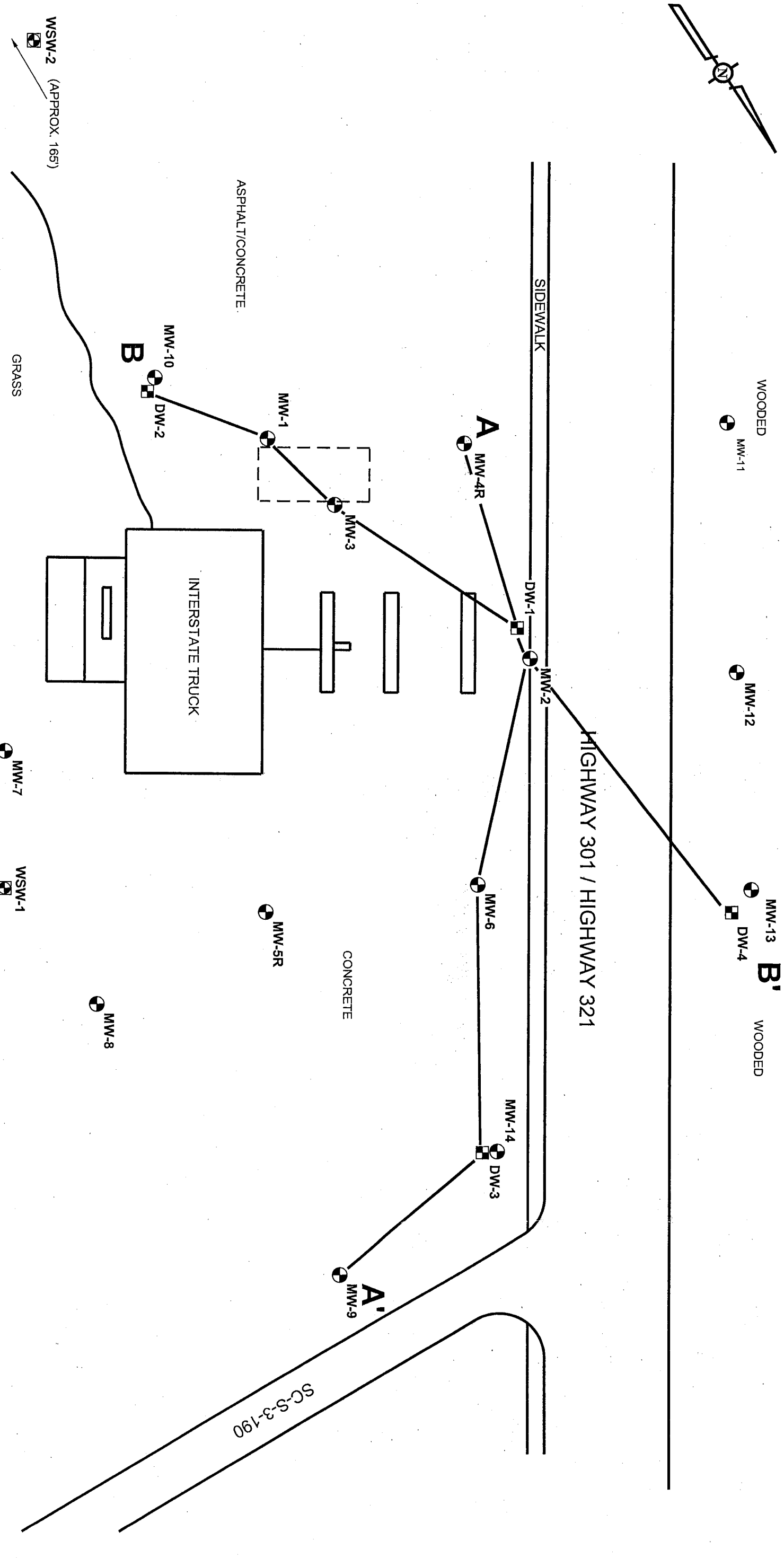
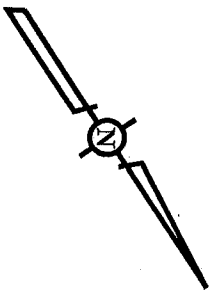
PROJECT: INTERSTATE TRUCK

PROJECT No.: C-05-05-032

LOCATION: ULMER, SOUTH CAROLINA

CAD FILE = C-05-05-032.dwg.

FIGURE 2  
SITE PLAN MAP



**LEGEND**

- MW-2 SHALLOW MONITORING WELL
- DW-2 DEEP MONITORING WELL
- FORMER UST PIT



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PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

**FIGURE 3**  
STRATAGRAPHIC CROSS SECTION  
LOCATION MAP

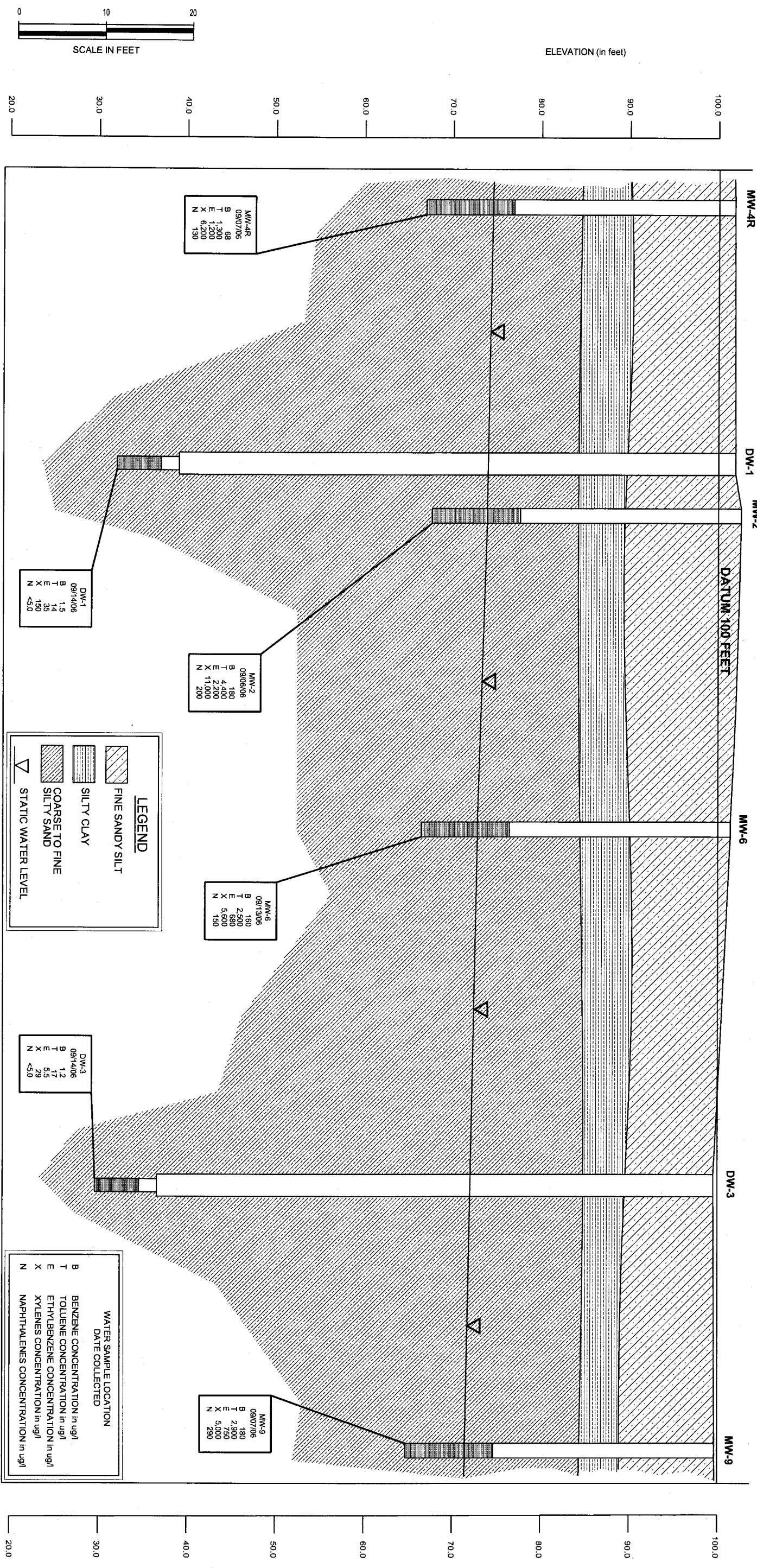
CAD FILE = C-05-05-032.dwg

(SOUTH WEST)

A

(NORTH EAST)

A'



CAD FILE = C-05-05-032.dwg.

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 REV: 0  
 PROJECT: INTERSTATE TRUCK  
 PROJECT No.: C-05-05-032  
 LOCATION: ULMER SOUTH CAROLINA

**FIGURE 4**  
**VERTICAL EXTENT OF BTEX/PNA**  
**COMPOUNDS IN GROUNDWATER**  
**(SECTION A-A')**

(SOUTH)

B

DW-2

MW-1

MW-3

DW-1

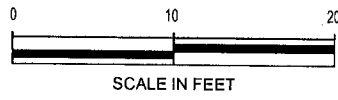
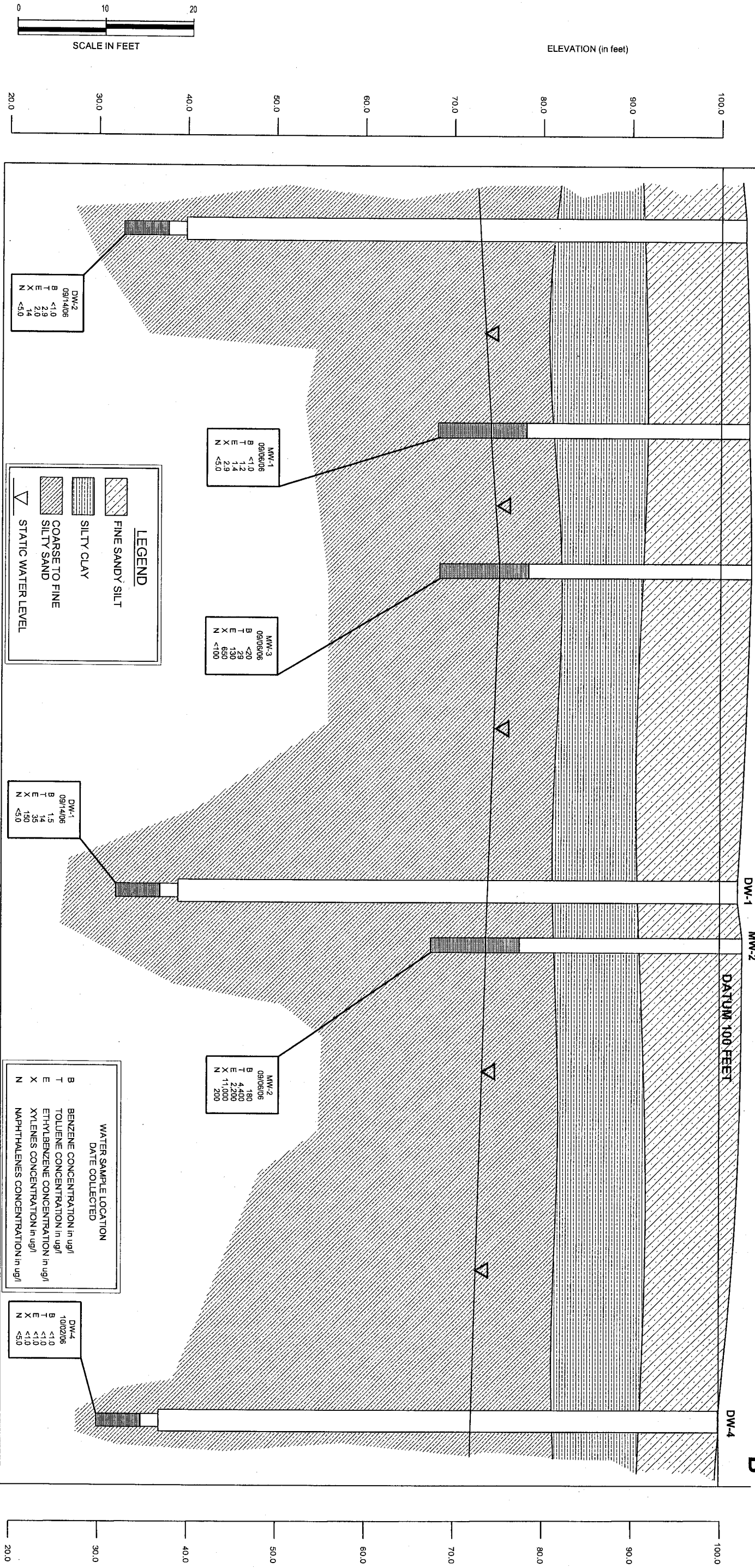
MW-2

DATUM 100 FEET

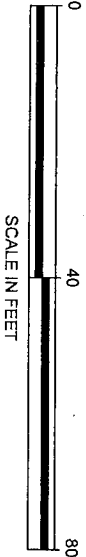
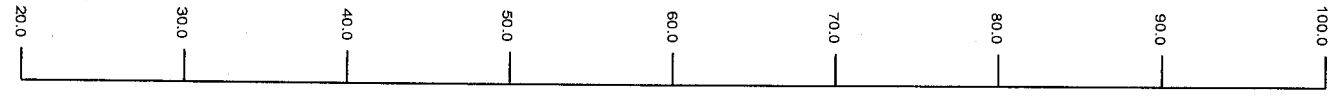
DW-4

B'

(NORTH)



ELEVATION (in feet)



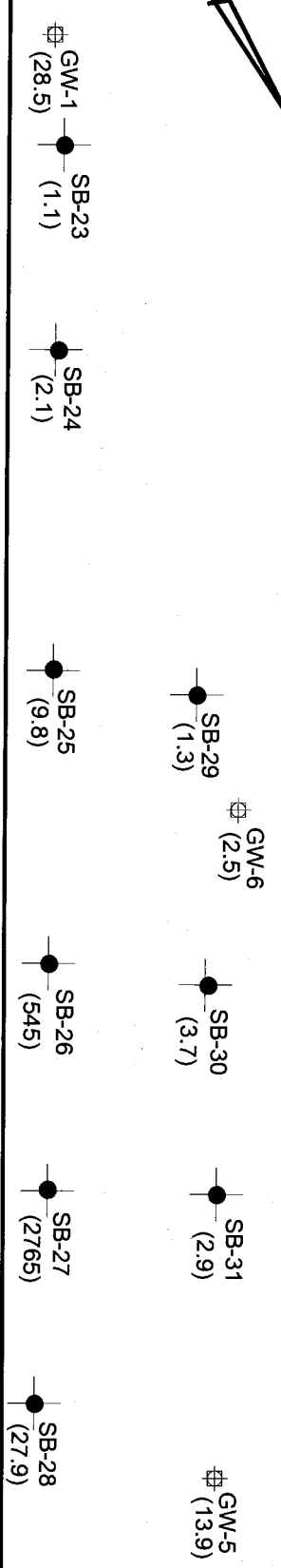
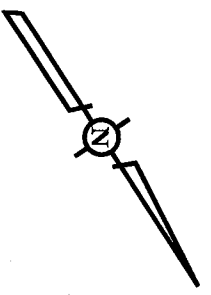
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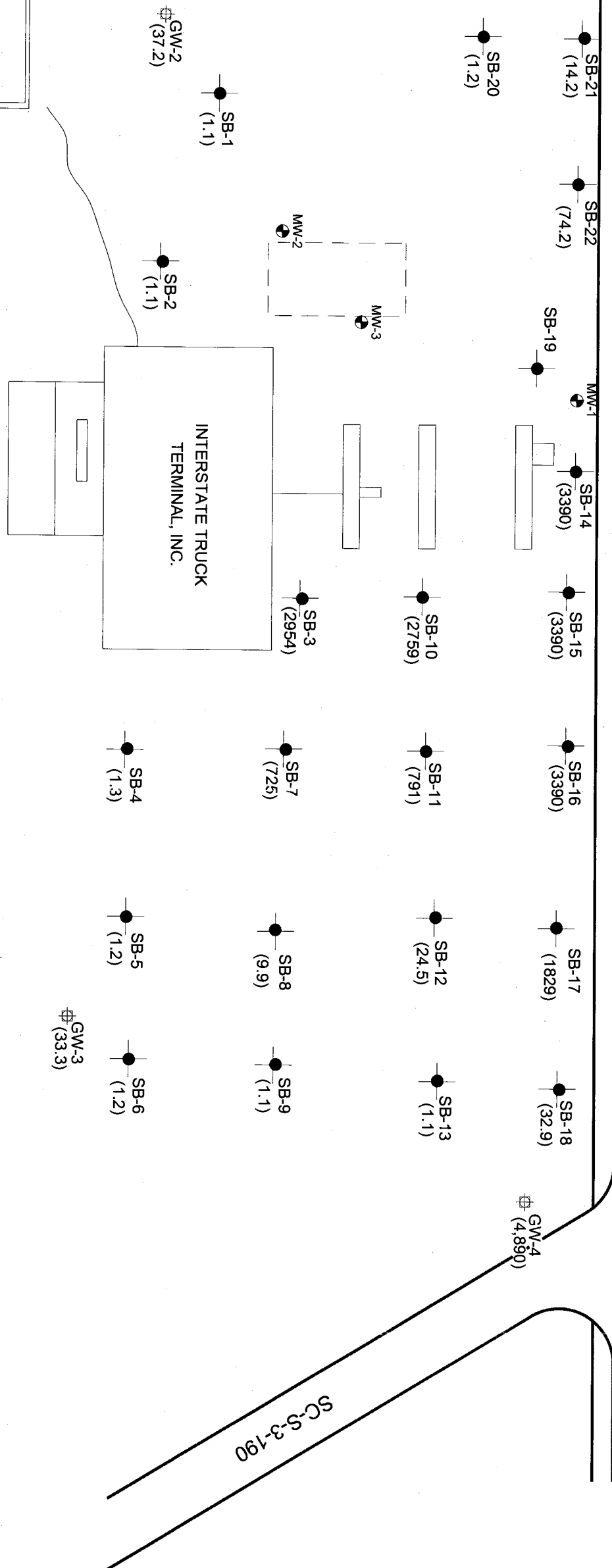
DRAWN: MAC DATE: 09/06/06-10/02/06  
 REV.: 0  
 PROJECT: INTERSTATE TRUCK  
 PROJECT No.: C-05-05-032  
 LOCATION: ULMER SOUTH CAROLINA

FIGURE 5  
 VERTICAL EXTENT OF BTEX/PNA  
 COMPOUNDS IN GROUNDWATER  
 (SECTION B-B')

CAD FILE = C-05-05-032.dwg.



HIGHWAY 301 / HIGHWAY 321



INTERSTATE TRUCK  
TERMINAL, INC.

SC-S-3-190

**LEGEND**

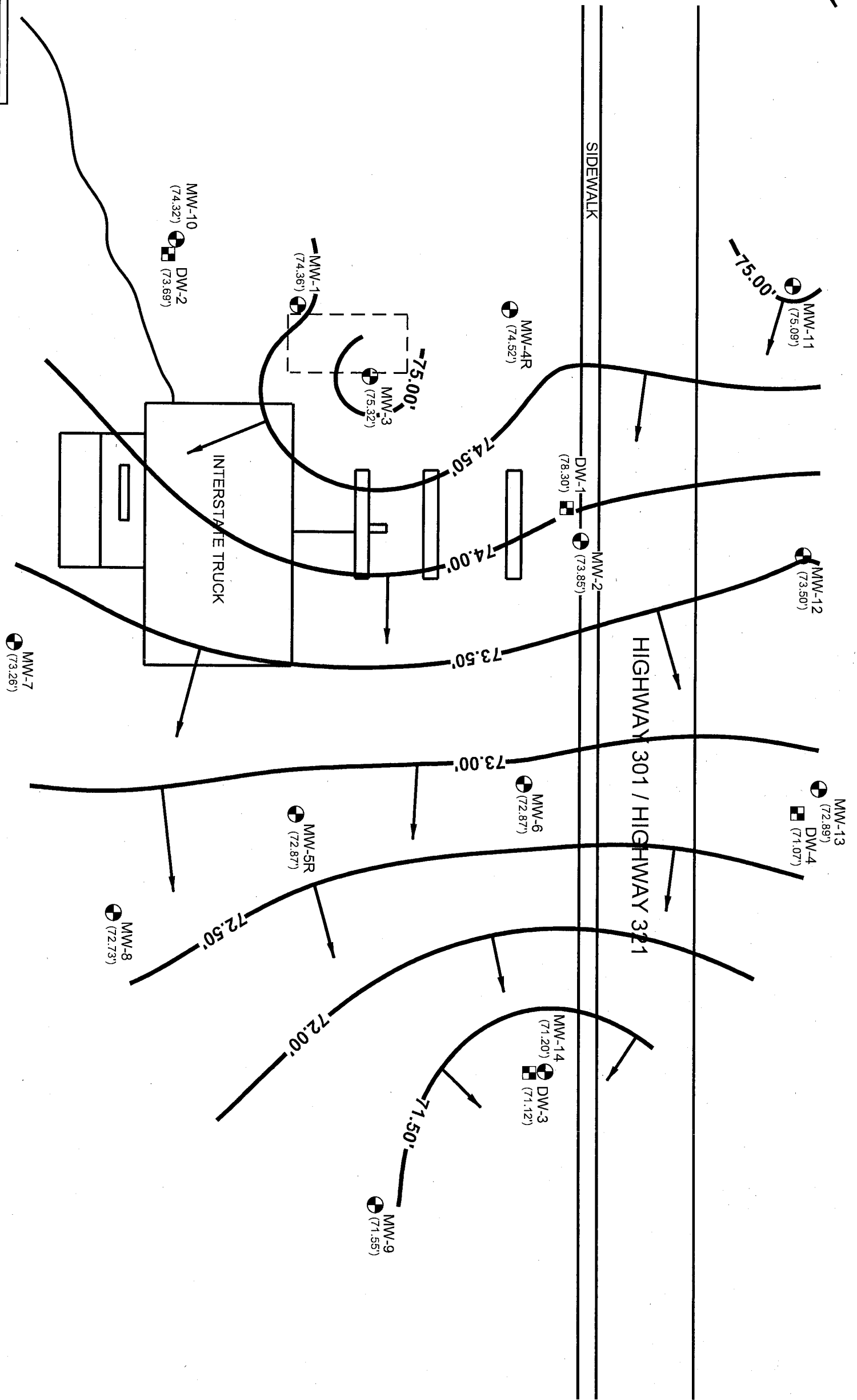
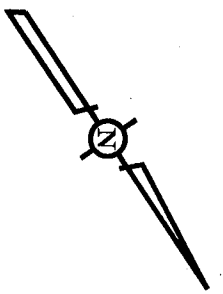
- SB-18 SOIL BORING LOCATION  
(32.9) FID READING (ppm)
- ⊕ GW-4 GROUNDWATER SAMPLE  
(4.890) TOTAL BTEX (ug/l)
- MW-1 MONITORING WELL
- FORMER UST PIT
- DISPENSER ISLAND



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DRAWN: MAC	DATE: 10/24/06
SITE ID # 00332	
PROJECT: INTERSTATE TRUCKING	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 6  
FIELD SCREENING RESULTS

CAD FILE: C-05-05-032SIE.dwg



**LEGEND**

● MW-2 SHALLOW MONITORING WELL  
(73.85) GROUNDWATER ELEVATION

■ DW-2 DEEP MONITORING WELL

□ FORMER UST PIT

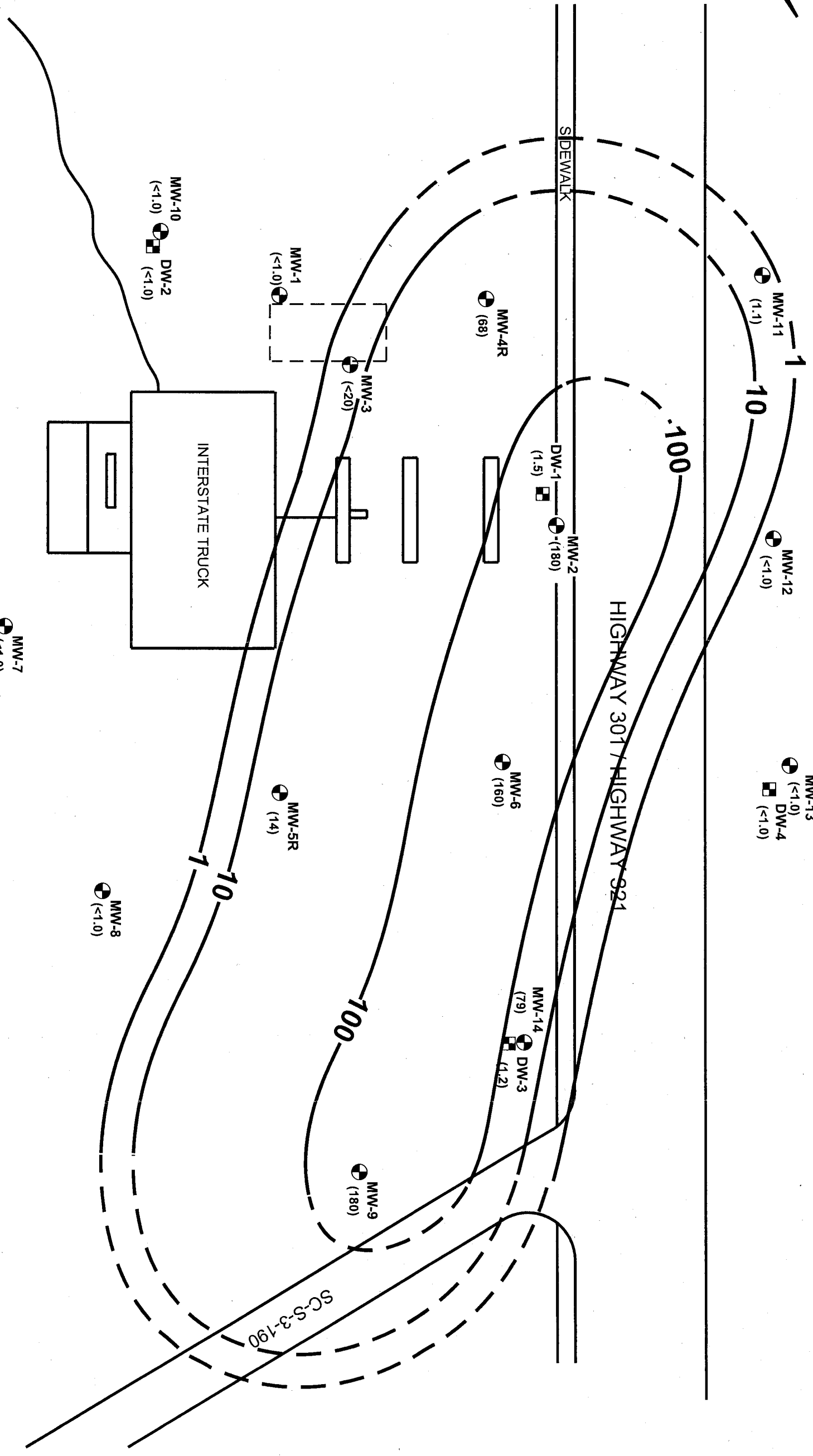
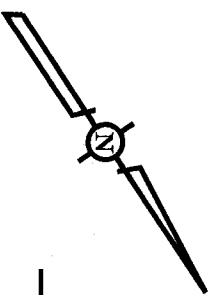


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 Project: INTERSTATE TRUCK  
 Project No.: C-05-05-032  
 Location: ULMER, SOUTH CAROLINA

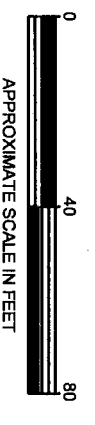
**FIGURE 7**  
**GROUNDWATER POTENTIOMETRIC SURFACE MAP**

CAD FILE = C-05-05-032.dwg



**LEGEND**

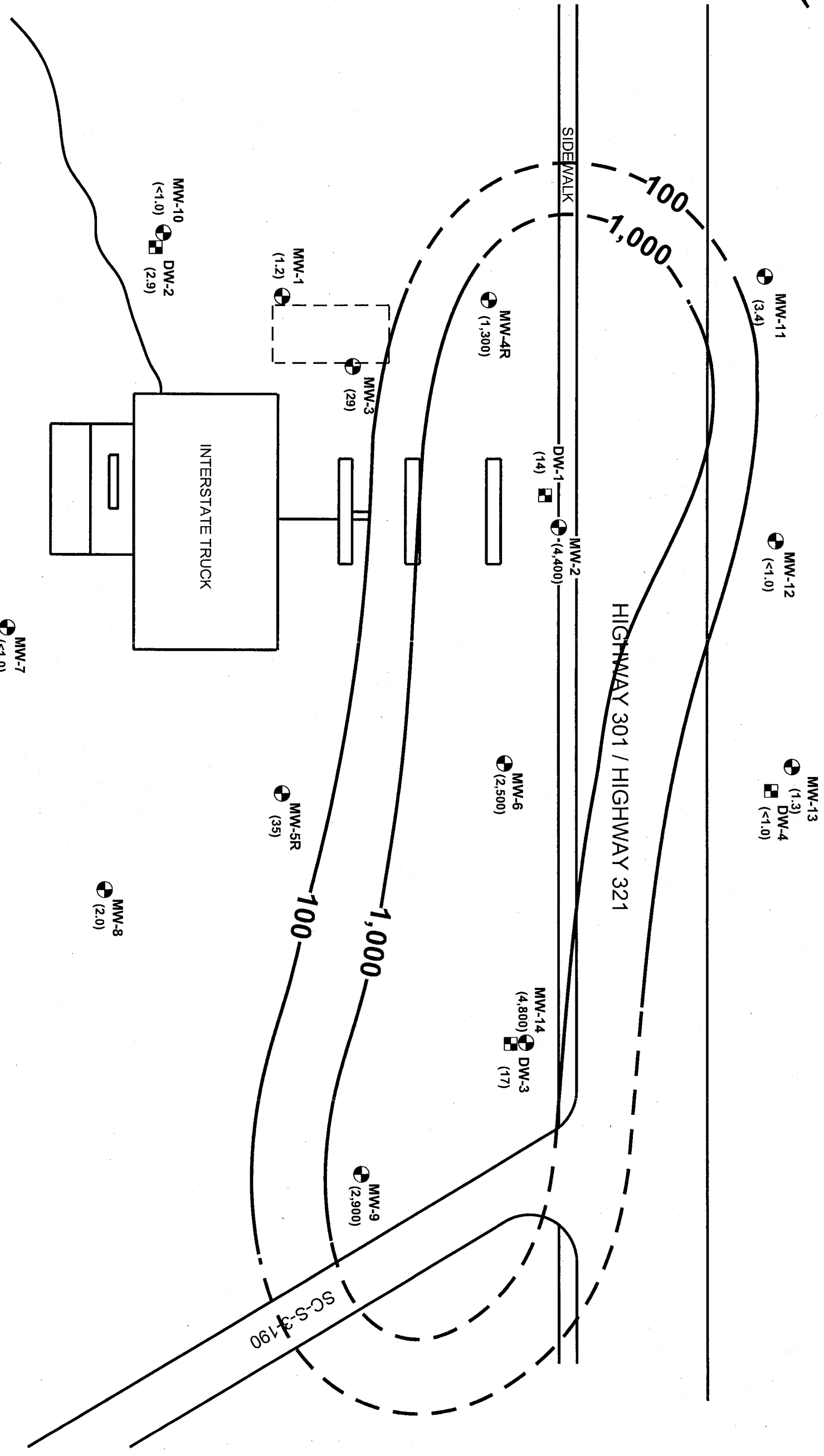
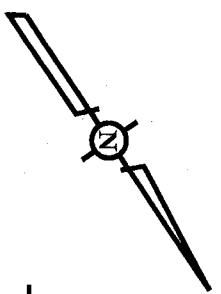
- SHALLOW MONITORING WELL  
(<1.0) CONTAMINANT CONCENTRATION (ug/l)
- DEEP MONITORING WELL  
(2.0) CONTAMINANT CONCENTRATION (ug/l)
- FORMER UST PIT



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SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

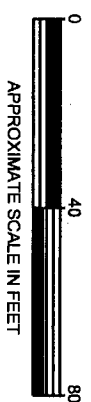
**FIGURE 8**  
DISSOLVED BENZENE  
ISOCONCENTRATION MAP

CAD FILE = C-05-05-032.dwg.



**LEGEND**

- MW-7 SHALLOW MONITORING WELL
- (<1.0) CONTAMINANT CONCENTRATION (ug/l)
- DW-2 DEEP MONITORING WELL
- (2.9) CONTAMINANT CONCENTRATION (ug/l)
- FORMER UST PIT



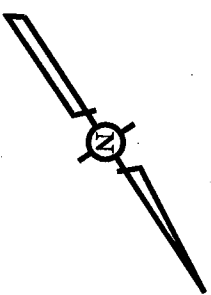
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PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

**FIGURE 9**  
 DISSOLVED TOLUENE  
 ISOCONCENTRATION MAP

CAD FILE = C-05-05-032.dwg.





MW-11  
(1.8)

MW-12  
(<1.0)

MW-13  
(<1.0)  
DW-4  
(<1.0)

SIDEWALK

HIGHWAY 301 / HIGHWAY 321

MW-2  
(2,200)

DW-1  
(35)

MW-4R  
(1,200)

MW-14  
(1,500)  
DW-3  
(5.5)

MW-6  
(680)

MW-9  
(750)

MW-5R  
(430)

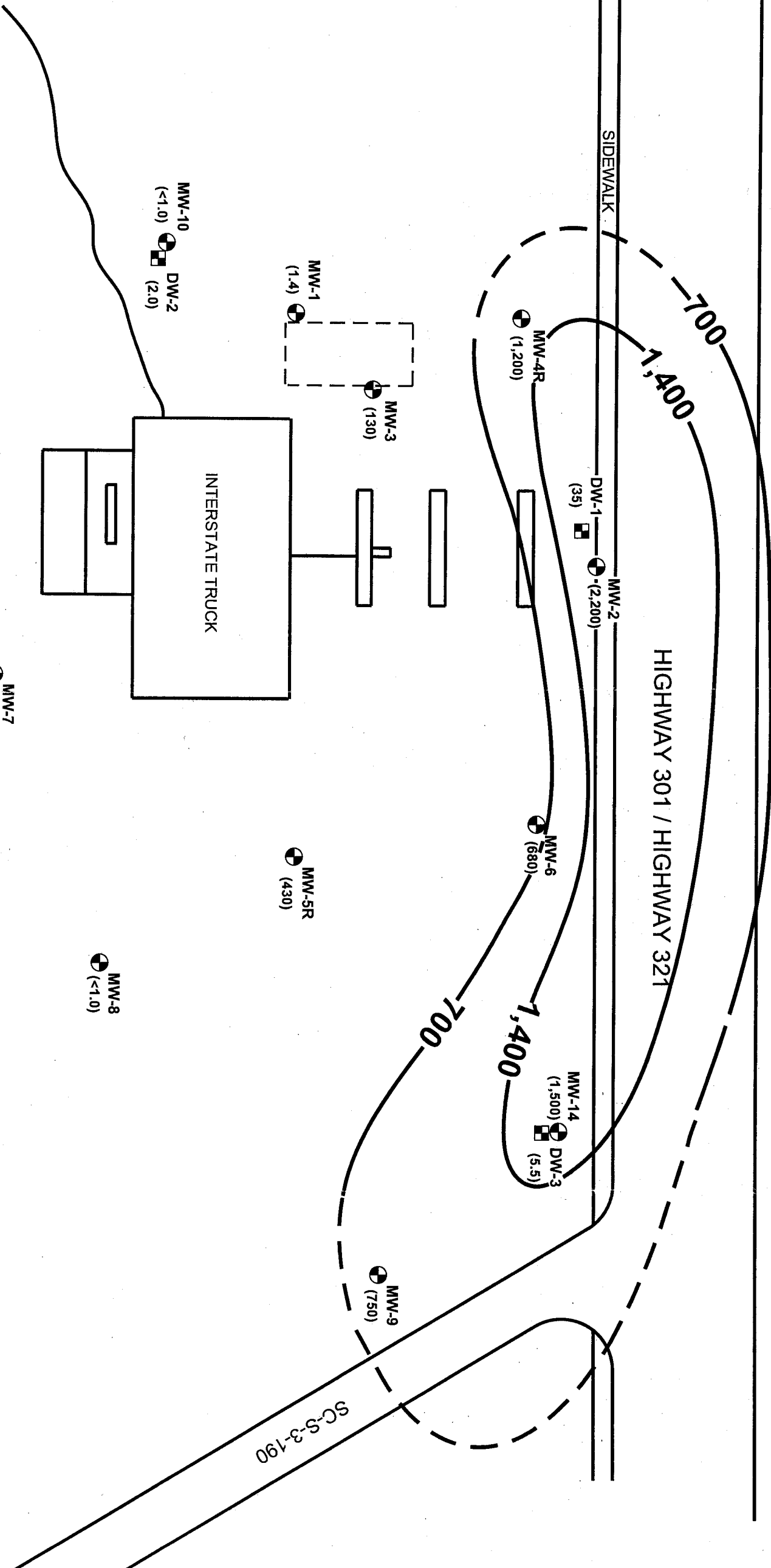
MW-1  
(1.4)

MW-3  
(130)

MW-10  
(<1.0)  
DW-2  
(2.0)

MW-8  
(<1.0)

MW-7  
(<1.0)



**LEGEND**

MW-7 SHALLOW MONITORING WELL  
(<1.0) CONTAMINANT CONCENTRATION (ug/l)

DW-2 DEEP MONITORING WELL  
(2.0) CONTAMINANT CONCENTRATION (ug/l)

FORMER UST PIT



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SITE ID # 00332

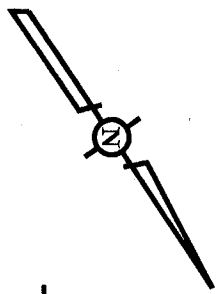
PROJECT: INTERSTATE TRUCK

PROJECT No.: C-05-05-032

LOCATION: ULMER, SOUTH CAROLINA

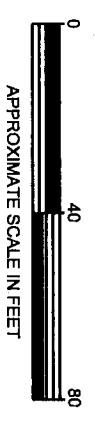
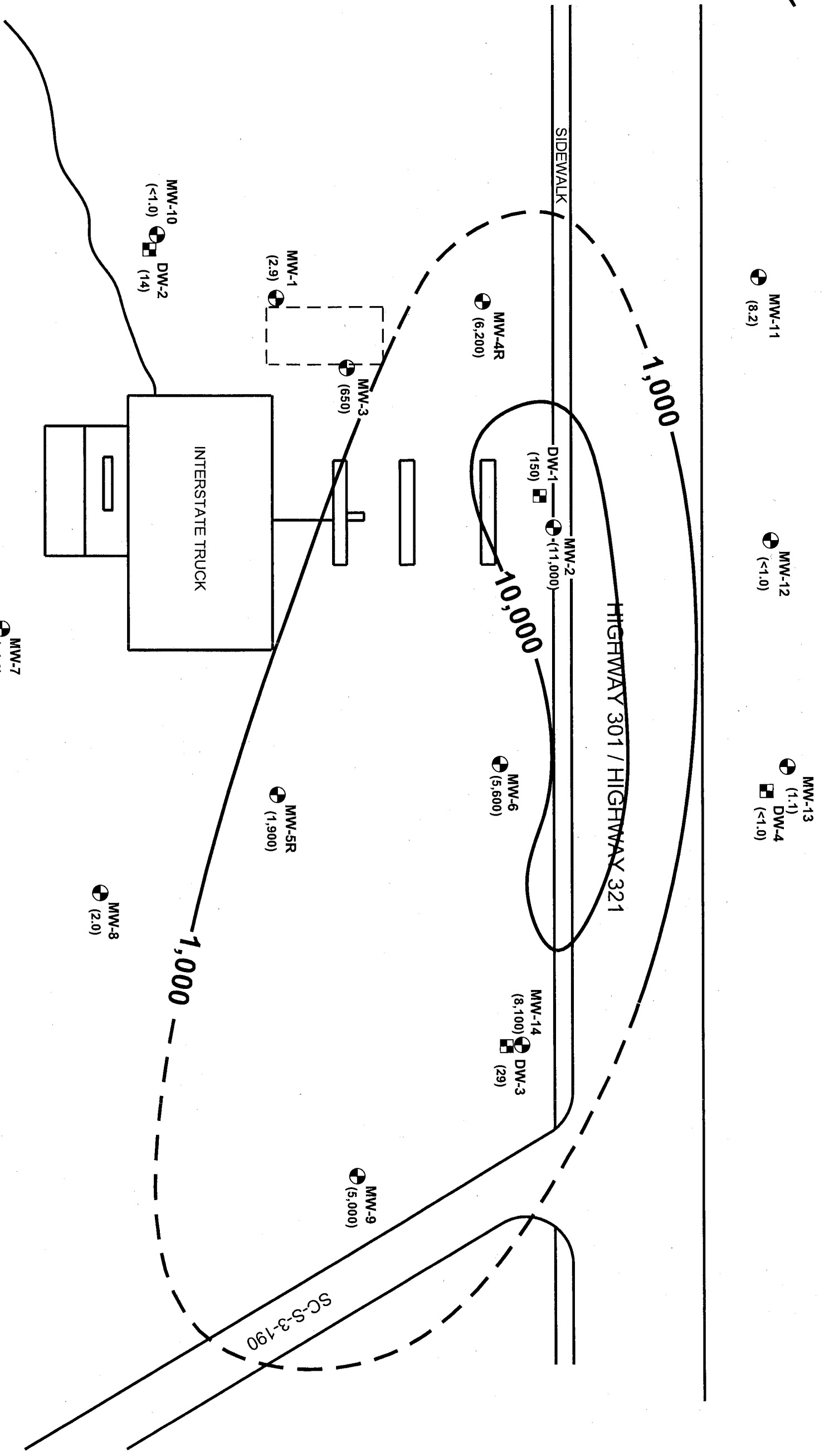
**FIGURE 10**  
**DISSOLVED ETHYLBENZENE**  
**ISOCONCENTRATION MAP**

CAD FILE = C-05-05-032.dwg



**LEGEND**

- MW-7 SHALLOW MONITORING WELL  
(<1.0) CONTAMINANT CONCENTRATION (ug/l)
- DW-2 DEEP MONITORING WELL  
(14) CONTAMINANT CONCENTRATION (ug/l)
- FORMER UST PIT

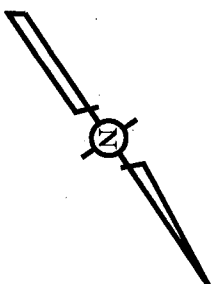


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 PROJECT NO.: C-05-05-032  
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**FIGURE 11**  
 DISSOLVED TOTAL XYLENES  
 ISOCONCENTRATION MAP

CAD FILE = C-05-05-032.dwg.



MW-11 (5.0)  
 MW-12 (5.0)  
 MW-13 (5.0)  
 DW-4 (5.0)

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

MW-2 (-200)  
 DW-1 (5.0)

MW-4R (130)

MW-6 (150)

MW-14 (150)  
 DW-3 (5.0)

250

MW-9 (290)

MW-1 (5.0)

MW-3 (<100)

MW-5R (250)

MW-10 (5.0)  
 DW-2 (5.0)

MW-8 (5.0)

MW-7 (5.0)

INTERSTATE TRUCK

SS-3-19P

25

250

**LEGEND**

MW-7 SHALLOW MONITORING WELL  
 (5.0) CONTAMINANT CONCENTRATION (ug/l)

DW-2 DEEP MONITORING WELL  
 (5.0) CONTAMINANT CONCENTRATION (ug/l)



FORMER UST PIT



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SITE ID # 00332

PROJECT: INTERSTATE TRUCK

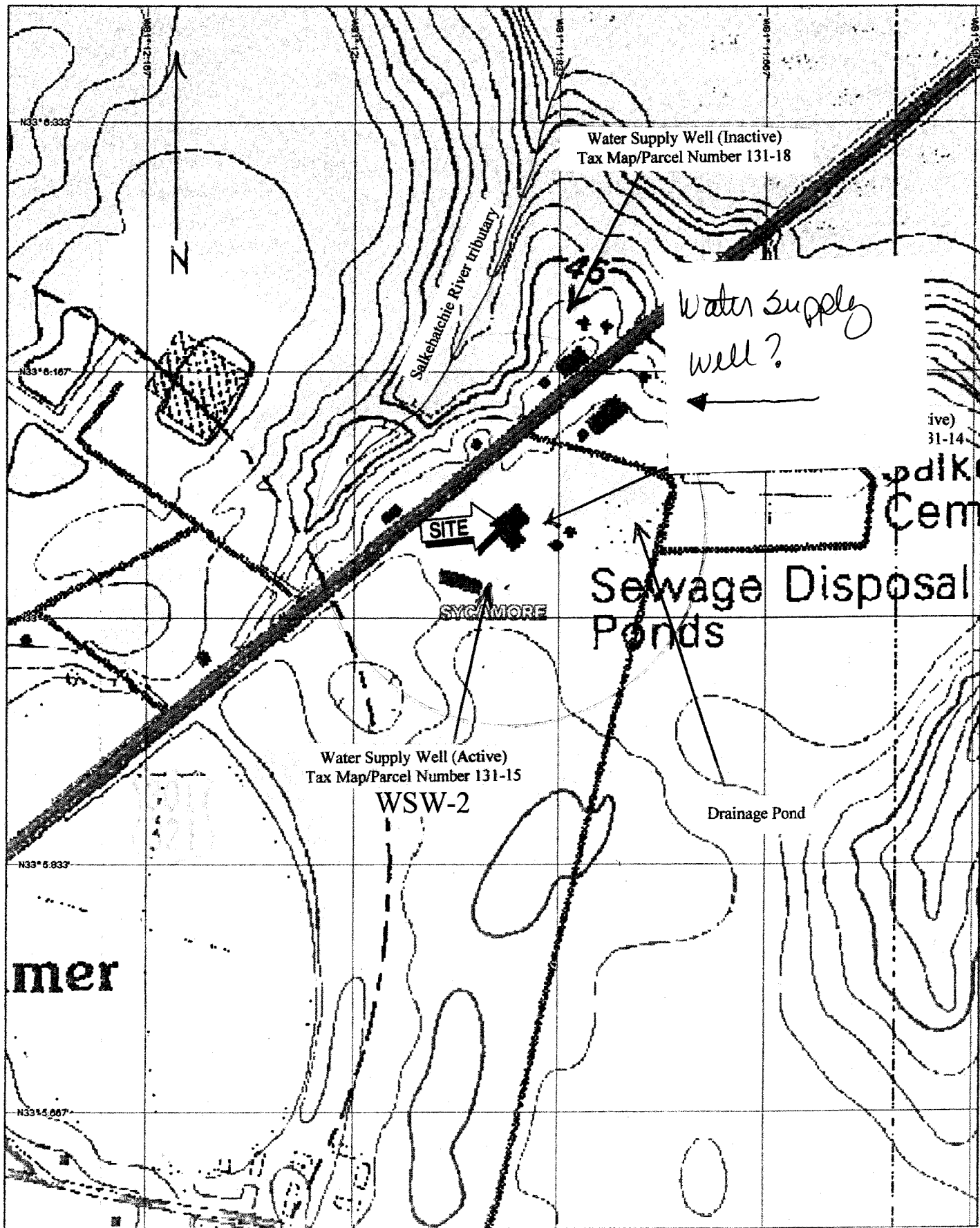
PROJECT NO.: C-05-05-032

LOCATION: ULMER, SOUTH CAROLINA

**FIGURE 12**  
 DISSOLVED NAPHTHALENE  
 ISOCONCENTRATION MAP

CAD FILE = C-05-05-032.dwg

**APPENDIX 1**  
**WATER SUPPLY WELL RECEPTORS**



APPENDIX 1

APPROXIMATE SCALE 1 INCH = 533 FEET

**APPENDIX 2**  
**SOIL BORING LOGS AND MONITORING**  
**WELL CONSTRUCTION DETAILS**



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

**WELL OWNER INFORMATION:**

Name: SCDHEC  
 Address: 2600 BULL STREET  
 City: COLUMBIA State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL:**

COUNTY: Allendale

Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33\* 06.114 Longitude: 081\* 11.903

**3. PUBLIC SYSTEM NAME**

**PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**

Yes  No

Grouted Depth: from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
tan sand	3	3
brown sand	6	9
tan clay/ brown sand	8	17
sand	16	33
tan white sand	9	42
gray sandy clay	6	48
tan sand	22	70

\*Indicate Water Bearing Zones

(Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**

DW-4

**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)**

Date Started (MM/DD/YYYY): 9-11-06

70 ft.

Date Completed (MM/DD/YYYY): 9-12-06

**10. CASING:**  Threaded  Welded

Diam: 2 & 6 inches Height Above/Below Surface \_\_\_\_\_ ft.  
 Type:  PVC  Galvanized Weight \_\_\_\_\_ lb./ft.  
 Steel  Other Drive Shoe?  Yes  No  
0 in. to 60 ft. depth  
0 in. to 65 ft. depth

**11. SCREEN:**

Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 5 ft.  
 Set Between: 65 ft. and 70 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 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 63 ft. to 70 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUDED?**

Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other  
 Depth: From 0 ft. to 63 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:**

\_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_

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:**

CERT. NO.: 01568  
 Name: Kelly Grant Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:**

This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Kelly Grant Date: 9-13-06  
 Well Driller (MM/DD/YYYY)



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

**WELL OWNER INFORMATION:**

Name: SCDHEC  
 Address: 2600 BULL STREET  
 City: COLUMBIA State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home:

**2. LOCATION OF WELL:**

**COUNTY: Allendale**

Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33\* 06.087 Longitude: 081\* 11.912

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**  Yes  No

Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
tan sand	2	2
red brown sand	6	8
brown sand	4	12
red brown sand	2	14
tan brown sandy clay	5	19
tan sand	17	36
white sand	13	49
gray sandy clay	3	52
tan sand	18	70

\*Indicate Water Bearing Zones

(Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
 DW-1

**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)**

Date Started (MM/DD/YYYY): 9-11-06

70 ft.

Date Completed (MM/DD/YYYY): 9-12-06

**10. CASING:**  Threaded  Welded

Diam: 2 & 6 inches

Height Above/Below

Type:  PVC  Galvanized

Surface \_\_\_\_\_ ft.

Steel  Other

Weight \_\_\_\_\_ lb./ft.

0 in. to 60 ft. depth

Drive Shoe?  Yes  No

0 in. to 65 ft. depth

**11. SCREEN:**

Type: PVC Diam.: 2 in.

Slot/Gauge: .010 Length: 5 ft.

Set Between: 65 ft. and 70 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 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 63 ft. to 70 ft.

Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUDED?**  Yes  No

Neat Cement  Bentonite  Bentonite/Cement  Other

Depth: From 0 ft. to 63 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction

Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_

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:**

CERT. NO.: 01568

Name: Kelly Grant

Level: A B C D

(check one)

Address: 324 Fields Drive, Suite C

City: Aberdeen

State: North Carolina

Zip: 28315

Telephone No.: 910-944-3140

Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under

my direction and this report is true to the best of my knowledge and belief.

Signed: Kelly Grant Date: 9-12-06  
 Well Driller (MM/DD/YYYY)





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

**WELL OWNER INFORMATION:**

Name: SCDHEC  
 (last) (first)  
 Address: 2600 BULL STREET  
 City: COLUMBIA State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL:**

COUNTY: Allendale

Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33\* 06.051 Longitude: 081\* 11.904

**3. PUBLIC SYSTEM NAME**

**PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**

Yes  No

Grouted Depth: from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
tan sand	1	1
red brown sand	10	11
tan red sandy clay	5	16
tan sand	18	34
brown sand	5	39
gray sandy clay	7	46
tan sand	24	70

\*Indicate Water Bearing Zones

(Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**

DW-2

**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)**

Date Started (MM/DD/YYYY): 9-11-06

70 ft.

Date Completed (MM/DD/YYYY): 9-12-06

**10. CASING:**  Threaded  Welded

Diam: 2 & 6 inches Height Above/Below \_\_\_\_\_ ft.  
 Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
0 in. to 60 ft. depth Drive Shoe?  Yes  No  
0 in. to 65 ft. depth

**11. SCREEN:**

Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 5 ft.  
 Set Between: 65 ft. and 70 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 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 63 ft. to 70 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUDED?**

Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other  
 Depth: From 0 ft. to 63 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:**

\_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_

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:**

CERT. NO.: 01568  
 Name: Kelly Grant Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Kelly Grant Date: 9-12-06  
 Well Driller (MM/DD/YYYY)



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

1. WELL OWNER INFORMATION:

Name: SCDHEC
Address: 2600 BULL STREET
City: COLUMBIA State: SC Zip: 29201
Telephone: Work: 803-898-4300 Home:

2. LOCATION OF WELL:

COUNTY: Allendale

Name: Interstate Trucking
Street Address: 1111 Hwy 301/321 N
City: Ulmer Zip: 29849
Latitude: 33\* 06.110 Longitude: 081\* 11.866

3. PUBLIC SYSTEM NAME

PUBLIC SYSTEM NUMBER

4. ABANDONMENT:

Yes No

Grouted Depth: from: ft. to ft.

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Rows include tan sand, brown sand, gray sandy clay, etc.

\*Indicate Water Bearing Zones

(Use a 2nd sheet if needed)

5. REMARKS:

DW-3

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)

70 ft. Date Started (MM/DD/YYYY): 9-11-06
Date Completed (MM/DD/YYYY): 9-12-06

10. CASING:

Type: Threaded, Welded, PVC, Galvanized, Steel, Other
Diam: 2 & 6 inches
Height Above/Below Surface
Weight lb./ft.
Drive Shoe? Yes No

11. SCREEN:

Type: PVC Diam.: 2 in. Slot/Gauge: .010 Length: 5 ft. Set Between: 65 ft. and 70 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 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)

Installed from 63 ft. to 70 ft. Effective size #3 Uniformity Coefficient

16. WELL GROUTED?

Neat Cement, Bentonite, Bentonite/Cement, Other
Depth: From 0 ft. to 63 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type: ft. direction Well Disinfected: Yes No Type: Amount

18. PUMP: Date installed (mm/dd/yyyy):

Mfr. Name: Model No. Not installed H.P. Volts Length of drop pipe ft. Capacity gpm Type: Submersible, Jet (shallow), Turbine, Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER:

Name: Kelly Grant CERT. NO.: 01568 Level: A B C D Address: 324 Fields Drive, Suite C City: Aberdeen State: North Carolina Zip: 28315 Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER DRILLER'S CERTIFICATION:

This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: Kelly Grant Date: 9-13-06 (MM/DD/YYYY)



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

WELL OWNER INFORMATION:

Name: SC DHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201
Telephone: Work: 803-898-4300 Home:

7. PERMIT NUMBER:

8. USE:

- Residential, Public Supply, Process, Irrigation, Air conditioning, Emergency, Test Well, Monitor Well, Replacement

9. Well Depth (completed) 35 ft. Date Started (MM/DD/YYYY): 9/6/06 Date Completed (MM/DD/YYYY): 9/6/06

2. LOCATION OF WELL: COUNTY: Allendale

Name: Interstate Trucking
Street Address: 1111 Hwy 301/321 N
City: Ulmer Zip: 29849
Latitude: 33\* 06.073 Longitude: 081\* 11.921

10. CASING: [X] Threaded [ ] Welded

Diam: 2 inches Height Above [ ] Below [ ] Surface
Type: [X] PVC [ ] Galvanized [ ] Steel [ ] Other Weight lb./ft.
2 in. to 25 ft. depth Drive Shoe? [ ] Yes [ ] No
in. to ft. depth

3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER

4. ABANDONMENT: [ ] Yes [X] No

Grouted Depth: from ft. to ft.

11. SCREEN:

Type: PVC Diam.: 2 in. Slot/Gauge: .010 Length: 10 ft. Set Between: 25 ft. and 35 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 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) [X] Yes [ ] No

Installed from 23 ft. to 35 ft. Effective size #3 Uniformity Coefficient

16. WELL GROUTED? [X] Yes [ ] No

[X] Neat Cement [X] Bentonite [ ] Bentonite/Cement [ ] Other Depth: From 0 ft. to 23 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction

Type: Well Disinfected: [ ] Yes [ ] No Type: Amount

18. PUMP: Date installed (mm/dd/yyyy): 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:

CERT. NO.: 01676 Name: Wesley W. Herman Level: A B C D [X] [ ] [ ] [ ] (check one) Address: 324 Fields Drive, Suite C City: Aberdeen State: North Carolina Zip: 28315 Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: [Signature] Date: (MM/DD/YYYY)

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Rows include Top soil, Yellowish sandy clay, Redish orange clay, Orange & Tan sandy clay, Tanish grey sandy clay.

5. REMARKS: MW-4R

- 6. TYPE: [ ] Mud Rotary [ ] Jetted [X] Bored [ ] Dug [ ] Air Rotary [ ] Driven [ ] Cable tool [ ] Other



Water Well Record
Bureau of Water

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

1. WELL OWNER INFORMATION:

Name: SC DHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201
Telephone: Work: 803-898-4300 Home:

2. LOCATION OF WELL:

COUNTY: Allendale

Name: Interstate Trucking
Street Address: 1111 Hwy 301/321 N
City: Ulmer Zip: 29849
Latitude: 33\* 06.088 Longitude: 081\* 11.873

3. PUBLIC SYSTEM NAME

PUBLIC SYSTEM NUMBER

4. ABANDONMENT:

Yes No

Grouted Depth: from ft. to ft.

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Rows include Brownish yellow top soil, Yellow sandy clay, Redish orange sandy clay, Orange & Tan sandy clay, Tanish grey sandy clay.

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Rows include empty cells for additional formation data.

\*Indicate Water Bearing Zones

(Use a 2nd sheet if needed)

5. REMARKS:

MW-5R

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)

Date Started (MM/DD/YYYY): 9/6/06

35 ft.

Date Completed (MM/DD/YYYY): 9/6/06

10. CASING: Thruaded, Welded

Diam: 2 inches, Height Above, Below, Type: PVC, Galvanized, Steel, Other, Surface, Weight, Drive Shoe? Yes, No

11. SCREEN:

Type: PVC, Diam.: 2 in., Slot/Gauge: .010, Length: 10 ft., Set Between: 25 ft. and 35 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 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 23 ft. to 35 ft., Effective size #3, Uniformity Coefficient

16. WELL GROUTED? Yes No

Neat Cement, Bentonite, Bentonite/Cement, Other, Depth: From 0 ft. to 23 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction

Type: Well Disinfected: Yes No Type: Amount

18. PUMP: Date installed (mm/dd/yyyy): 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:

CERT. NO.: 01676

Name: Wesley W. Herman, Level: A B C D, Address: 324 Fields Drive, Suite C, City: Aberdeen, State: North Carolina, Zip: 28315, Telephone No.: 910-944-3140, Fax: 910-944-3150

20. WATER DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: [Signature] Date: (MM/DD/YYYY)









### Water Well Record

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

**WELL OWNER INFORMATION:**  
 Name: SC DHEC  
 (last) (first)  
 Address: 2600 Bull Street  
 City: Columbia State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home:

**2. LOCATION OF WELL:** COUNTY: Allendale  
 Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33\* 06.109 Longitude: 081\* 11.848

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from: ft. to ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Ashphalt gravel/brown top soil	0	2
Yellow orange sandy clay	5	7
Redish orange sandy clay	10	17
Orange & Tan sandy clay	12	29
Tanish grey sandy clay	6	35
*Indicate Water Bearing Zones		
(Use a 2 <sup>nd</sup> sheet if needed)		
<b>5. REMARKS:</b> MW-9		

**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) Date Started (MM/DD/YYYY):** 9/6/06  
 35 ft. Date Completed (MM/DD/YYYY): 9/6/06

**10. CASING:**  Threaded  Welded  
 Diam: 2 inches Height Above  Below   
 Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
 2 in. to 25 ft. depth Drive Shoe?  Yes  No  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**  
 Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 10 ft.  
 Set Between: 25 ft. and 35 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 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 23 ft. to 35 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 23 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:** CERT. NO.: 01676  
 Name: Wesley W. Herman Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under  
 my direction and this report is true to the best of my knowledge and belief.  
 Signed: Wesley W. Herman Date: \_\_\_\_\_  
 Well Driller (MM/DD/YYYY)







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

**1. WELL OWNER INFORMATION:**  
 Name: SC DHEC  
 (last) (first)  
 Address: 2600 Bull Street  
 City: Columbia State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL:** COUNTY: Allendale  
 Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33\* 06.087 Longitude: 081\* 11.939

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Brown top soil	0	2
Yellow orange sandy clay	5	7
Reddish orange sandy clay	11	18
Orange & Tan sandy clay	11	29
Tanish grey sandy clay	6	35

\*Indicate Water Bearing Zones  
 (Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
 MW-11

**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)** Date Started (MM/DD/YYYY): 9/7/06  
35 ft. Date Completed (MM/DD/YYYY): 9/7/06

**10. CASING:**  Threaded  Welded  
 Diam: 2 inches Height Above  Below   
 Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
2 in. to 25 ft. depth Drive Shoe?  Yes  No  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**  
 Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 10 ft.  
 Set Between: 25 ft. and 35 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 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 23 ft. to 35 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 23 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:** CERT. NO.: 01676  
 Name: Wesley W. Herman Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under  
 my direction and this report is true to the best of my knowledge and belief.  
 Signed: Wesley W. Herman Date: \_\_\_\_\_  
 Well Driller (MM/DD/YYYY)



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

**1. WELL OWNER INFORMATION:**

Name: SC DHEC  
Address: 2600 Bull Street  
City: Columbia State: SC Zip: 29201  
Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL: COUNTY: Allendale**

Name: Interstate Trucking  
Street Address: 1111 Hwy 301/321 N  
City: Ulmer Zip: 29849  
Latitude: 33\* 06.100 Longitude: 081\* 11.920

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:  Yes  No**

Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Brown top soil w/grass roots	0	2
Yellow orange sandy clay	6	8
Tanish orange sandy clay	9	17
Orange & Tan sandy clay	11	28
Tanish grey sandy clay	7	35

\*Indicate Water Bearing Zones

(Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**

MW-12

- 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)**

Date Started (MM/DD/YYYY): 9/7/06

35 ft.

Date Completed (MM/DD/YYYY): 9/7/06

**10. CASING:**  Threaded  Welded

Diam: 2 inches

Height Above  Below  ft.

Type:  PVC  Galvanized

Surface \_\_\_\_\_ ft.

Steel  Other

Weight \_\_\_\_\_ lb./ft.

2 in. to 25 ft. depth

Drive Shoe?  Yes  No

\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**

Type: PVC Diam.: 2 in.

Slot/Gauge: .010 Length: 10 ft.

Set Between: 25 ft. and 35 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 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 23 ft. to 35 ft.

Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No

Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_

Depth: From 0 ft. to 23 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction

Type: \_\_\_\_\_

Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:**

CERT. NO.: 01676

Name: Wesley W. Herman

Level: A B C D

(check one)

Address: 324 Fields Drive, Suite C

City: Aberdeen

State: North Carolina

Zip: 28315

Telephone No.: 910-944-3140

Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Wesley W. Herman

Date: \_\_\_\_\_

Well Driller

(MM/DD/YYYY)



# Water Well Record

## Bureau of Water

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

**1. WELL OWNER INFORMATION:**  
 Name: SC DHEC  
 Address: \_\_\_\_\_ (last) \_\_\_\_\_ (first)  
 Address: 2600 Bull Street  
 City: Columbia State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL:** COUNTY: Allendale  
 Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33\*06.117 Longitude: 081\* 11.905

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Brown top soil	0	2
Yellow orange sandy clay	6	8
Brownish orange sandy clay	8	16
Orange & Tan sandy clay	12	28
Tanish grey sandy clay	7	35

\*Indicate Water Bearing Zones  
 (Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
MW-13

**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)** Date Started (MM/DD/YYYY): 9/7/06  
 35 ft. Date Completed (MM/DD/YYYY): 9/7/06

**10. CASING:**  Threaded  Welded  
 Diam: 2 inches Height Above  Below   
 Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
 2 in. to 25 ft. depth Drive Shoe?  Yes  No  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**  
 Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 10 ft.  
 Set Between: 25 ft. and 35 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 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 23 ft. to 35 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 23 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:** CERT. NO.: 01676  
 Name: Wesley W. Herman Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER 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: \_\_\_\_\_  
 Well Driller (MM/DD/YYYY)



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

WELL OWNER INFORMATION:
Name: SC DHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201
Telephone: Work: 803-898-4300 Home:

7. PERMIT NUMBER:
8. USE:
Residential Public Supply Process
Irrigation Air conditioning Emergency
Test Well Monitor Well Replacement

2. LOCATION OF WELL: COUNTY: Allendale
Name: Interstate Trucking
Street Address: 1111 Hwy 301/321 N
City: Ulmer Zip: 29849
Latitude: 33\* 06.111 Longitude: 081\* 11.866

9. Well Depth (completed) Date Started (MM/DD/YYYY): 9/6/06
35 ft. Date Completed (MM/DD/YYYY): 9/6/06
10. CASING: [X] Threaded [ ] Welded
Diam: 2 inches Height Above [ ] Below [ ]
Type: [X] PVC [ ] Galvanized Surface \_\_\_\_\_ ft.
[ ] Steel [ ] Other Weight \_\_\_\_\_ lb./ft.
2 in. to 25 ft. depth Drive Shoe? [ ] Yes [ ] No
\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER

11. SCREEN:
Type: PVC Diam.: 2 in.
Slot/Gauge: .010 Length: 10 ft.
Set Between: 25 ft. and 35 ft. NOTE: MULTIPLE SCREENS
\_\_\_\_\_ ft. and \_\_\_\_\_ ft. USE SECOND SHEET
Sieve Analysis [ ] Yes (please enclose) [ ] No

4. ABANDONMENT: [ ] Yes [X] No
Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

12. STATIC WATER LEVEL: \_\_\_\_\_ ft. below land surface after 24 hours

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Rows include Brownish top soil, Yellow sandy clay, Reddish orange sandy clay, Orange & Tan sandy clay, Tanish grey sandy clay.

13. PUMPING LEVEL: Below 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) [X] Yes [ ] No
Installed from 23 ft. to 35 ft.
Effective size #3 Uniformity Coefficient \_\_\_\_\_

16. WELL GROUTED? [X] Yes [ ] No
[X] Neat Cement [X] Bentonite [ ] Bentonite/Cement [ ] Other
Depth: From 0 ft. to 23 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. \_\_\_\_\_ direction
Type: \_\_\_\_\_
Well Disinfected: [ ] Yes [ ] No Type: \_\_\_\_\_ Amount \_\_\_\_\_

18. PUMP: Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:
Name: Wesley W. Herman CERT. NO.: 01676
Level: A B C D
[ ] [X] [ ] [ ] (check one)
Address: 324 Fields Drive, Suite C City: Aberdeen
State: North Carolina Zip: 28315
Telephone No.: 910-944-3140 Fax: 910-944-3150

6. TYPE: [ ] Mud Rotary [ ] Jetted [X] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable tool [ ] Other

20. WATER 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: \_\_\_\_\_
Well Driller (MM/DD/YYYY)

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. GW-01

PAGE 1 OF 1

PROJECT: Interstate Trucking 05-05-032

LOCATION:

DATE INSTALLED: 23-Aug-06

ELEVATION: TOC:

DRILLING METHOD: Direct Push

TOTAL DEPTH OF BORING: 35'

DRILLING COMPANY: Bear Environmental

BORING: GW-01

DRILLER: Kevin Van De Vusse

DEPTH TO WATER FROM TOC: 30'

SAMPLER TYPE: GW-15

LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
35						DPT groundwater sample collected - no soil samples collected

H2O 30'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. GW-02

PAGE 1 OF 1

PROJECT: Interstate Trucking 05-05-032	LOCATION:
DATE INSTALLED: 23-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-02
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: GW-15	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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35						DPT groundwater sample collected - no soil samples collected
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H2O 30'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. GW-03

PAGE 1 OF 1

PROJECT: Interstate Trucking 05-05-032

LOCATION:

DATE INSTALLED: 23-Aug-06

ELEVATION: TOC:

DRILLING METHOD: Direct Push

TOTAL DEPTH OF BORING: 35'

DRILLING COMPANY: Bear Environmental

BORING: GW-03

DRILLER: Kevin Van De Vusse

DEPTH TO WATER FROM TOC: 30'

SAMPLER TYPE: GW-15

LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)
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GEOLOGIC DESCRIPTION / COMMENTS

35

DPT groundwater sample collected - no soil samples collected

H2O 30'



Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. GW-04

PAGE 1 OF 1

PROJECT: Interstate Trucking 05-05-032	LOCATION:
DATE INSTALLED: 23-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-04
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: GW-15	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
35						DPT groundwater sample collected - no soil samples collected

H2O 30'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. GW-05

PAGE 1 OF 1

PROJECT: Interstate Trucking 05-05-032	LOCATION:
DATE INSTALLED: 23-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-05
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: GW-15	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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35						DPT groundwater sample collected - no soil samples collected
----	--	--	--	--	--	--

H2O 30'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. GW-06

PAGE 1 OF 1

PROJECT: Interstate Trucking 05-05-032	LOCATION:
DATE INSTALLED: 23-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-06
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: GW-15	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID  (ppm)	U S C S  (sym)
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GEOLOGIC DESCRIPTION / COMMENTS

35						DPT groundwater sample collected - no soil samples collected
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H2O 30'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-01

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-01
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.2		Red silty clay
15				1.1		Red clay
20				1.4		Beige / Orange silty sand
25				1.1		Orange sand
30				1.1		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-02

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-02
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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5				1.2		Tan silty sand
10				1.3		Red silty clay
15				1.1		Red clay
20				1.2		Red silty sand
25				1.1		Red sand
30				1.1		Red silty sand

H2O 29'



Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-04

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-04
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.5		Red clay
20				4.1		Red silty sand
25				1.2		Red silty sand
30				1.3		Beige / Orange sand

H2O 29'

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1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-05

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032

LOCATION:

DATE INSTALLED: 21-Aug-06

ELEVATION: TOC:

DRILLING METHOD: Direct Push

TOTAL DEPTH OF BORING: 30'

DRILLING COMPANY: Bear Environmental

BORING: SB-05

DRILLER: Kevin Van De Vusse

DEPTH TO WATER FROM TOC: 29'

SAMPLER TYPE: MacroCore

LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)
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GEOLOGIC DESCRIPTION / COMMENTS

5  
10  
15  
20  
25  
30

1.3  
1.2  
1.1  
1.1  
1.2  
1.2

Tan silty sand  
Red silty clay  
Red clay  
Red silty sand  
Red silty sand  
Red silty sand

H2O 29'



Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-06

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-06
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.3		Tan silty sand
10				1.3		Red silty clay
15				1.3		Red clay
20				1.1		Red silty sand
25				1.2		Red silty sand
30				1.1		Beige sand
35				1.1		Beige silty sand
40				1.2		Red silty clay
45				1.2		Orange/Beige sandy silt

H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-07

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-07
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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5				1.1		Tan silty sand
10				1.1		Red silty clay
15				2.1		Red clay
20				96.2		Pink silty sand
25				589		Pink sand
30				725		Pink sand

H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-08

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-08
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
------------------------------------	---------------------------------	----------------------------	---------------------------------------	------------------------------	-------------------------------	---------------------------------

5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.3		Red silty sand
20				1.6		Beige / Orange sand
25				2.7		Orange silty sand
30				9.9		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-09

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-09
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red silty sand
20				1.2		Beige / Orange sand
25				1.1		Orange silty sand
30				1.1		Red silty sand
						H2O 29'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-10

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-10
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O W S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
-------------------------------	---------------------------------	----------------------------	----------------------------------	--------------------------	---------------------------	---------------------------------

5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red silty sand
20				94.9		Red sand
25				1949		Red silty sand
30				2759		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-11

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-11
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID  (ppm)	U S C S  (sym)
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GEOLOGIC DESCRIPTION / COMMENTS

5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red silty sand
20				10.3		Red silty sand
25				573		Red silty sand
30				791		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-12

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-12
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N M M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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5				0.9		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty clay
20				1.4		Pink silty sand
25				10.6		Red silty sand
30				24.5		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-13

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-13
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				0.9		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty clay
20				1.4		Orange silty sand
25				1.2		Orange sand
30				1.1		Red silty sand
						H2O 29'



Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-14

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-14
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.5		Tan silty sand
10				1.3		Red silty clay
15				79.9		Red clay
20				68.3		Red silty sand
25				3290		White sand
30				3200		Beige sand

H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-15

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-15
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.3		Tan silty sand
10				1.2		Red silty clay
15				75.8		Red clay
20				71.3		Red silty sand
25				3390		White sand
30				3310		Beige / Green sand
						H2O 29'



Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-17	PAGE 1 OF 1
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PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-17
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.2		Red silty clay
15				35.7		Red clay
20				37.7		Red silty sand
25				1579		White sand
30				1829		Beige / Green sand

H2O 29'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-18

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-18
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID (ppm)	U S C S (sym)
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GEOLOGIC DESCRIPTION / COMMENTS

5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.3		Red clay
20				1.1		Red silty sand
25				23.1		Pink silty sand
30				32.9		Beige / Green sand
						H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-19

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-19
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.3		Tan silty sand
10				1.3		Red silty clay
15				90.6		Red clay
20				41.4		Red silty sand
25				3390		Pink silty sand
30				3390		Beige / Green sand

H2O 29'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-20

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-20
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O W S / 6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.3		Red silty clay
15				1.2		Red clay
20				1.1		Red sandy silt
25				1.1		Orange silty sand
30				1.2		Red silty sand
						H2O 29'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-21

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-21
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N O M E R S	B L O C K S /6"	P I D / F I D (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red clay
20				1.2		Red sandy silt
25				7.9		Orange silty sand
30				14.2		Red silty sand



Consultech Environmental, Inc.  
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 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-22

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-22
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red clay
20				4.6		Red sandy silt
25				29.9		Orange silty sand
30				74.2		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-23

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-23
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
-------------------------------	---------------------------------	----------------------------	-----------------------------------	------------------------------	-------------------------------	---------------------------------

5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty clay
20				1.2		Red sandy silt
25				1.3		Orange silty sand
30				1.1		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-24

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-24
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty clay
20				1.2		Red sandy silt
25				1.5		White sand
30				2.1		Red silty sand
35				1.8		Red silty clay
40				1.4		Red silty clay
45				1.4		Orange/Beige sandy silt

H2O 29'

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-25

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03

LOCATION:

DATE INSTALLED: 26-Aug-06

ELEVATION: TOC:

DRILLING METHOD: Direct Push

TOTAL DEPTH OF BORING: 30'

DRILLING COMPANY: Bear Environmental

BORING: SB-25

DRILLER: Kevin Van De Vusse

DEPTH TO WATER FROM TOC: 29'

SAMPLER TYPE: MacroCore

LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID  (ppm)	U S S  (sym)
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GEOLOGIC DESCRIPTION / COMMENTS

5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty clay
20				1.2		Red sandy silt
25				4.3		White sand
30				9.8		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-26

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-26
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H E (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.2		Red silty clay
15				1.3		Red silty clay
20				1.1		Red sandy silt
25				212		White sand
30				545		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-27

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-27
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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5				1.1		Tan silty sand
10				1.4		Red silty clay
15				2.1		Red silty clay
20				12.9		Red sandy silt
25				1845		Orange silty sand
30				2765		Red silty sand
						H2O 29'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-28	PAGE 1 OF 1
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PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-28
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.2		Red silty clay
15				1.1		Red silty sand
20				1.4		Red sandy silt
25				6.1		Orange silty sand
30				27.9		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-29

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-29
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H E (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID  (ppm)	U S C S  (sym)
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GEOLOGIC DESCRIPTION / COMMENTS

5				1.3		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red silty sand
20				1.3		Red sandy silt
25				1.1		Orange silty sand
30				1.3		Red silty sand
						H2O 29'



Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-30

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-30
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID  (ppm)	U S C S  (sym)
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GEOLOGIC DESCRIPTION / COMMENTS

5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty sand
20				1.3		Red sandy silt
25				2.1		Orange silty sand
30				3.7		Red silty sand
						H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-31

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-31
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty sand
20				1.3		Red sandy silt
25				1.5		Orange silty sand
30				2.9		Red silty sand
35				2.1		Red silty clay
40				1.4		Red silty clay
45				1.1		Orange/Beige sandy silt

H2O 29'

**APPENDIX 3**  
**WASTE DISPOSAL MANIFEST**



# CONSULTECH ENVIRONMENTAL, INC.

October 31, 2006

Ms. Minda Johnson, Hydrogeologist  
Assessment Section  
Assessment & Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land & Waste Management  
South Carolina DHEC  
2600 Bull Street  
Columbia, South Carolina 29201

RE: Tier II Assessment Report  
Interstate Truck Terminal  
Highway 301/ 321  
Ulmer, South Carolina  
SCDHEC Site ID #332, CA#26142

Dear Ms. Johnson,

This letter serves as certification that all water and soil encountered during our Tier II work was handled in a manner that complies with all conditions established by DHEC for treatment of small amounts of petroleum hydrocarbon contaminated soils and groundwater.

**Source:**

Soil and groundwater obtained as a result of soil sampling, well development and groundwater sampling.

**Conditions:**


- No free product was disposed of separately from the drums of water.
- Analytical results show an average concentration of less than 5 ppb Benzene and less than 250 ppb total BTEX.
- The water obtained was containerized on site, for a period of less than 30 days, prior to treatment by the activated carbon canisters.
- Records of carbon canister usage are maintained by Consultech.
- The carbon canisters have an expected life of 5,000 gallons before replacement is required.
- Recommendations and conditions issued by the canister manufacturer and SCDHEC have been followed.
- All water obtained was treated on site using an up-flow treatment drum consisting of 90 lbs. of activated carbon. Manufacturer's suggested treatment life is 5,000 gallons of water.

**Specific site conditions of referenced site:**

- Seven 55-gallon drums of soil were removed from the referenced site and disposed of at the Oakridge Landfill in Dorchester, SC. See attached manifest.

Should you have any questions, please contact me at 919-858-5350.

Sincerely,  
**Consultech Environmental, Inc.**

  
\_\_\_\_\_  
Raj B. Shah P.E.  
Technical Director



OAKRIDGE LANDFILL  
A WASTE MANAGEMENT COMPANY

SPECIAL WASTE MANIFEST

Approval # CK 867456

Expiration: 05/31/2007

Generator: INTERSTATE TRUCKING

Account Number: 490 -

Location/Address: ~~2201 CANNON RD~~ Ulmer, SC  
~~HUGER SC (08)~~

Tele Number: 919-622-1164 Contact: JOHN KLEIN

Generator Signature: John W Klein AS AGENT FOR

\*\*\*\*\* TO BE COMPLETED BY TRANSPORTER \*\*\*\*\*

Transporter of Waste: THREE R

Truck: 618

Drums: 7

Date: 9-27-06

Driver's Signature: [Signature]

\*\*\*\*\* TO BE COMPLETED BY OAKRIDGE LANDFILL \*\*\*\*\*

Disposal Site: Oakridge Landfill DWP 130

Description of Waste: SOL/SOIL CUTTINGS FROM UST SITE

Ticket Number: 17588

Tonnage: 5.63

Received By: [Signature]

Date: 9-27-06

1

# Interstate Trucking

No. 17588



**EDGE LANDFILL, INC.**  
A Waste Management Company  
2183 Highway 78  
Dorchester, SC 29437  
(843) 563-2607

Customer # \_\_\_\_\_ Date 9-27-06

Customer Name Consultech

Truck # 617 (3R) 7 drums

Material Type SOIL Approval # CK 867456

Description SOIL CUTTINGS from UST Site

Gross Weight 28360

Truck Weight \_\_\_\_\_

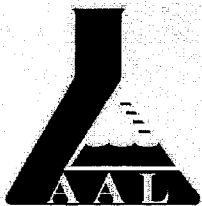
Net Weight \_\_\_\_\_

Tons \_\_\_\_\_ Gals. \_\_\_\_\_

Driver Basler

**APPENDIX 4**  
**LABORATORY ANALYTICAL RESULTS**





10-OCT-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10985  
Project Name :Interstate Trucking Ulmer, SC  
Project Number: C-05-05-032

Dear Joe Ghiold :

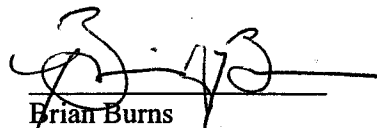
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46204 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46204 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
\_\_\_\_\_  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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*AAL Work Order # 10985*

**Client Project: Interstate Trucking Ulmer, SC / C-05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, 4 analytical results pages, and 2 Surrogate recovery pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. The sample was filtered upon receipt at the laboratory, and its filtrate preserved to pH less than 2 with Nitric Acid, for the Dissolved Iron by SW6010B analysis.

Michael F. Broome

Receiving

October 03, 2006

Date

**Anions by SW9056 Notations:**

1. The Matrix spike Duplicate recovery was outside the method specified limits for Sulfate.

Lisandra Betancourt

Wet Chemistry Analyst

October 05, 2006

Date

**VOCs by SW8260B Notations:**

1. The pH of the water samples for work order # 10985 was <2.0 prior to the VOC analysis.

Mei Liang

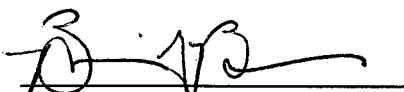
Senior Analyst

October 09, 2006

Date

**Project Manager's Notations:**

These Case Narrative Notations have been generated, reviewed, and edited by:

  
Brian Burns  
Project Manager

October 09, 2006

Date



Company Name: Consultech Env. Billing address: \_\_\_\_\_  
 Address: Cary NC P.O.# (if required): \_\_\_\_\_  
 Results Sent to: (Client Contact): Joe E should  
 Email address: \_\_\_\_\_  
 Contact Phone #: 919.261.4314 Fax#: 4317  
 Project (Site) Name: Fatestate Tracting Ulmer, SC  
 Project Number: COS-05-032 Preservation Code: (See below)

Line No.	Sampler(s): (signature)		Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	Analysis Requested				Field Comments:		
	1) Van T Chisholm	2) Van T Chisholm							1	2	3	4			
1	Dwr 4	10/20/1200	x				Ulmer's SC	8	EDS	Lead	1	2	3	4	4:10 PM / 5:10 PM
2															
3															
4															
5															
6															
7															
8															
9															
10															

1) Relinquished By: Van T Chisholm Date / Time: 10/20/1200 2) Received By: [Signature] Date / Time: 100306 1025  
 3) Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_ (4) Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 Turnaround Time Requested: STD

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (SD=Soil) (S=Soil) (SD=Sludge) (A=Air) (C=Air Cartridge)  
 Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH



# Certificate of Analytical Results 10985

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, SC

Sample Id: DW-4	Matrix: WATER	% Moisture:
Lab Sample Id: 10985-001	Date Collected: Oct-02-06 12:00	Date Received: Oct-03-06 10:25
Sample Depth:		

<b>Analytical Method:</b> Dissolved Iron by SW6010B	<b>Prep Method:</b> SW3005A		
Date Analyzed: Oct-04-06 12:30	Analyst: FAR01	Date Prep: Oct-03-06 11:00	Tech: MSN01
Seq Number: 33719			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> EXT_SW8011		
Date Analyzed: Oct-06-06 02:31	Analyst: BDW01	Date Prep: Oct-04-06 08:00	Tech: BPR01
Seq Number: 33741			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0048	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A		
Date Analyzed: Oct-05-06 13:03	Analyst: FAR01	Date Prep: Oct-04-06 09:00	Tech: MSN01
Seq Number: 33733			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Methane by Mod. RSK 175	<b>Prep Method:</b> SW5030B		
Date Analyzed: Oct-05-06 10:47	Analyst: MDS01	Date Prep: Oct-05-06 10:15	Tech: MDS01
Seq Number: 33730			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>		
Date Analyzed: Oct-04-06 10:35	Analyst: LJB01	Date Prep:	Tech: LJB01
Seq Number: 33725			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	0.78	0.10	0.027	mg/L		1
Sulfate	14808-79-8	84	1.0	0.062	mg/L		1



# Certificate of Analytical Results 10985

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, SC

Sample Id: DW-4	Matrix: WATER	% Moisture:
Lab Sample Id: 10985-001	Date Collected: Oct-02-06 12:00	Date Received: Oct-03-06 10:25
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Oct-06-06 13:55	Analyst: MJL01	Date Prep: Oct-06-06 07:20	Tech: MJL01
Seq Number: 33755			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30990 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30990 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Oct-04-06 11:32	Analyst: FAR01	Date Prep: Oct-03-06 11:00	Tech: MSN01
Seq Number: 33719			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

Sample Id: 31002 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 31002 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Oct-05-06 12:17	Analyst: FAR01	Date Prep: Oct-04-06 09:00	Tech: MSN01
Seq Number: 33733			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1



# Certificate of Analytical Results 10985

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, SC

Sample Id: 31008 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 31008 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Oct-05-06 10:27	Analyst: MDS01	Date Prep: Oct-05-06 10:15	Tech: MDS01
Seq Number: 33730			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Sample Id: 31009 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 31009 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: EDB by SW8011		Prep Method: EXT_SW8011	
Date Analyzed: Oct-06-06 01:38	Analyst: BDW01	Date Prep: Oct-04-06 08:00	Tech: BPR01
Seq Number: 33741			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

Sample Id: 31025 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 31025 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Oct-06-06 08:59	Analyst: MJL01	Date Prep: Oct-06-06 07:20	Tech: MJL01
Seq Number: 33755			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1



## Certificate of Analytical Results 10985

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, SC

Sample Id: 33725 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33725 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Oct-04-06 10:02	Analyst: LJB01	Date Prep:	Tech: LJB01
Seq Number: 33725			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, SC

Report Date: 10/10/06 09:57

Project ID: C-05-05-032

Work Order #: 10985

Lab Batch #: 33741

Sample: 10985-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.0	4.9	102	60-140	

Lab Batch #: 33741

Sample: 10985-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.3	4.9	88	60-140	

Lab Batch #: 33741

Sample: 31009 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.5	5.0	90	60-140	

Lab Batch #: 33741

Sample: 31009 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.8	5.0	76	60-140	

Lab Batch #: 33755

Sample: 10985-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	44.21	50.00	88	53-159	
Bromofluorobenzene	48.81	50.00	98	30-186	
Toluene-d8	49.61	50.00	99	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits





## Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, SC

Report Date: 10/10/06 09:57

Project ID: C-05-05-032

Work Order #: 10985

Lab Batch #: 33755

Sample: 31025 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	42.72	50.00	85	65-125	
Bromofluorobenzene	47.91	50.00	96	66-148	
Toluene-d8	49.80	50.00	100	86-127	

\* Surrogate outside of Laboratory QC limits

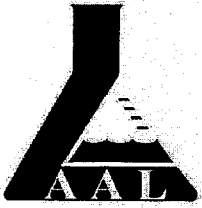
\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



09-OCT-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10966  
Project Name :Interstate Trucking Terminal  
Project Number: C-05-05-032

Dear Joe Ghiold :

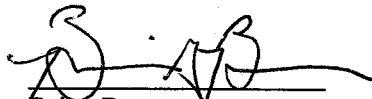
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46248 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

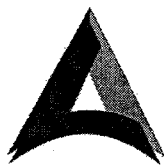
The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46248 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

***Case Narrative***

---

***AAL Work Order # 10966***

**Client Project: Interstate Trucking Terminal / C-05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, and 4 analytical results pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. The samples were filtered upon receipt at the laboratory, and their filtrates preserved to pH less than 2 with Nitric Acid, for the Dissolved Iron by SW6010B analyses.

Michael F. Broome

Receiving

September 29, 2006

Date

**Anions by SW9056 Notations:**

1. Recoveries of the Sulfate spike standard in the Matrix Spike and its Duplicate were outside laboratory control limits due to possible matrix interferences. The relative percent difference between these recoveries was also outside laboratory control limits.
2. The relative percent difference between concentrations of Sulfate detected in the Method Duplicate and its parent sample was outside laboratory control limits. Except as noted in Statement #1 above, all other related QC was within acceptable limits; therefore the data was accepted.

Lisandra Betancourt

Wet Chemistry Analyst

October 5, 2006

Date

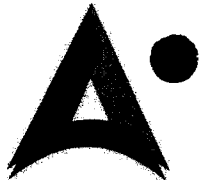
This Case Narrative & Notations have been generated, reviewed, and edited by:

Brian Burns

***Project Manager***

October 9, 2006

Date



# ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071  
Phone # (770) 449-8800 Fax # (770) 449-5477

## CHAIN OF CUSTODY

Company Name: Consultech Env. Inc  
 Address: P.O. Box 5611 Carey NC 27512  
 Results Sent to: (Client Contact): Joe Ghiold  
 Email address: \_\_\_\_\_  
 Contact Phone #: 1919 861 4316 Fax#: 1919 861-4316  
 Project (Site) Name: Interstate trucking terminal  
 Project Number: C-05-03-032 Ulmer, SC Preservation Code: (See below)

Billing address: \_\_\_\_\_  
 P.O.# (if required): \_\_\_\_\_  
 For Laboratory Use Only:  
 AAL LIMS System ID: 14639  
 OC Level: 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10  
 Receiver's Initials/Temp: \_\_\_\_\_  
 Custody Seal(s): 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10  
 AAL Work Order #: 1076

Analysis Requested: \_\_\_\_\_  
 Field Comments: \_\_\_\_\_

Sampler(s): (signature) B of MS  
 Sampler(s): (printed) Bobby McAllister

Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	Analysis Requested										Field Comments:  AAL Lab ID: <u>10966</u> <u>001</u> <u>002</u> <u>003</u>				
1	MW-1	9/28/06 10:30					3															
2	MW-2	↓ 11:00					3															
3	MW-3	↓ 11:30					3															
4																						
5																						
6																						
7																						
8																						
9																						
10																						

1) Relinquished By: B of MS Date / Time: 9/28/06 16:00  
 2) Received By: Bobby McAllister Date / Time: 9/29/06 09:50  
 3) Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 4) Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 Delivered by: (Circle One) Fed Ex (UPS) DHL / AAL Pickup / Hand / Other  
 Turnaround Time Requested: Standard

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)  
 Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH



# Certificate of Analytical Results 10966

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Terminal

Sample Id: MW-1	Matrix: WATER	% Moisture:
Lab Sample Id: 10966-001	Date Collected: Sep-28-06 10:30	Date Received: Sep-29-06 09:50
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Oct-04-06 11:53	Analyst: FAR01	Date Prep: Oct-03-06 11:00	Tech: MSN01
	Seq Number: 33719		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Oct-02-06 11:17	Analyst: MDS01	Date Prep: Oct-02-06 10:45	Tech: MDS01
	Seq Number: 33682		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-29-06 11:42	Analyst: LJB01	Date Prep:	Tech: LJB01
	Seq Number: 33724		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	2.4	0.10	0.027	mg/L		1
Sulfate	14808-79-8	7.3	1.0	0.062	mg/L		1

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# Certificate of Analytical Results 10966

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Terminal

Sample Id: MW-2	Matrix: WATER	% Moisture:			
Lab Sample Id: 10966-002	Date Collected: Sep-28-06 11:00	Date Received: Sep-29-06 09:50			
Sample Depth:					
<b>Analytical Method: Dissolved Iron by SW6010B</b>					
Prep Method: SW3005A					
Date Analyzed: Oct-04-06 12:19	Analyst: FAR01	Date Prep: Oct-03-06 11:00			
	Seq Number: 33719	Tech: MSN01			
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Iron (Dissolved)	7439-89-6	20.7 0.100 0.0167	mg/L		1
<b>Analytical Method: Methane by Mod. RSK 175</b>					
Prep Method: SW5030B					
Date Analyzed: Oct-02-06 11:19	Analyst: MDS01	Date Prep: Oct-02-06 10:45			
	Seq Number: 33682	Tech: MDS01			
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Methane	74-82-8	0.043 0.003 0.002	mg/L		1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b>					
Prep Method:					
Date Analyzed: Sep-29-06 12:47	Analyst: LJB01	Date Prep:			
	Seq Number: 33724	Tech: LJB01			
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Nitrate	14797-55-8	0.73 0.10 0.027	mg/L		1
Sulfate	14808-79-8	1.8 1.0 0.062	mg/L		1

\*



# Certificate of Analytical Results 10966

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Terminal

Sample Id: MW-3	Matrix: WATER	% Moisture:
Lab Sample Id: 10966-003	Date Collected: Sep-28-06 11:30	Date Received: Sep-29-06 09:50
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Oct-04-06 12:24	Analyst: FAR01	Date Prep: Oct-03-06 11:00	Tech: MSN01
	Seq Number: 33719		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	7.46	0.100	0.0167	mg/L		1

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Oct-02-06 11:25	Analyst: MDS01	Date Prep: Oct-02-06 10:45	Tech: MDS01
	Seq Number: 33682		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-29-06 13:04	Analyst: LJB01	Date Prep:	Tech: LJB01
	Seq Number: 33724		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	1.2	0.10	0.027	mg/L		1
Sulfate	14808-79-8	3.3	1.0	0.062	mg/L		1

Sample Id: 30976 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30976 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Oct-02-06 10:56	Analyst: MDS01	Date Prep: Oct-02-06 10:45	Tech: MDS01
	Seq Number: 33682		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Sample Id: 30990 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30990 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Oct-04-06 11:32	Analyst: FAR01	Date Prep: Oct-03-06 11:00	Tech: MSN01
	Seq Number: 33719		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

\*



# Certificate of Analytical Results 10966

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Terminal

Sample Id: 33724 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33724 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056			Prep Method:		
Date Analyzed: Sep-29-06 11:09	Analyst: LJB01	Date Prep:	Tech: LJB01		
	Seq Number: 33724				

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1





27-SEP-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10896  
Project Name :Interstate Trucking Ulmer, SC  
Project Number: C-05-05-032

Dear Joe Ghiold :

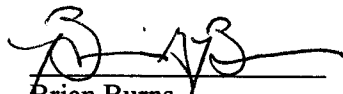
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46035 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46035 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
\_\_\_\_\_  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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**AAL Work Order # 10896**

**Client Project: Interstate Trucking Ulmer, SC / C-05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 2 page case narrative, 1 Chain of Custody page, a 2 page copy of the Sample Receipt Checklist, 1 email printout, 8 analytical results pages, and 3 QC surrogate recovery pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. The samples were filtered, and their filtrates preserved to pH less than 2 with Nitric Acid, upon receipt at the laboratory for the Dissolved Iron by SW6010B analyses.

Michael F. Broome

Receiving

September 15, 2006

Date

**Nitrate and Sulfate by SW 9056 Notations:**

1. Recovery of the Sulfate spike standard in the Matrix Spike was outside laboratory control limits due to possible matrix interferences. Recovery in the Matrix Spike Duplicate was within acceptable limits; therefore the data was accepted.
2. The Relative Percent Difference between concentrations of Nitrate detected in the Method Duplicate and its parent sample was outside laboratory control limits.
3. Recovery of the Nitrate spike standard in the Matrix Spike was outside laboratory control limits due to possible matrix interferences. Recovery in the Matrix Spike Duplicate and, except as noted in Statement #2 above, all other related QC for the batch was within acceptable limits; therefore the data was accepted.

Deepa Pendafwar

IC Analyst

September 25, 2006

Date

**Select VOCs by SW8260B Notations:**

1. The pH of each sample was <2.0 prior to analysis.

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NELAP Accredited Certificate #-E87429 - Effective 7/01/06, Expires 6/30/07

Page 1 of 2

WO 10896CN



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

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USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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2. Xylenes (Total) were detected in the Method Blank. Xylenes (Total) were also detected in the samples but at concentrations greater than 10 times that in the Blank; therefore the results are unaffected.

Tamara Young

VOC Analyst

September 18, 2006

Date

These Case Narrative Notations have been generated, reviewed, and edited by:

  
Brian Burns  
Client Services

September 27, 2006

Date



# ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

## CHAIN OF CUSTODY

Page 7 of 1

6017 Financial Drive, Norcross, GA 30071  
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Consultah  
 Address: Cary, NC  
 Results Sent to: (Client Contact): Joe Ghould  
 Email address: \_\_\_\_\_  
 Contact Phone #: 919-861-4313 Fax#: 4317  
 Project (Site) Name: Interstate Trucking Ulmer, SC  
 Project Number: C.O.S. 05-032 Preservation Code: (See below)

Billing address: \_\_\_\_\_  
 P.O.# (if required): \_\_\_\_\_

Sampler(s): (signature)		Sampler(s): (printed)		Analysis Requested										Field Comments:							
<u>Van &amp; Chisholm</u>		<u>Van Chisholm</u>																			
Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	BTEX, NAPX, MTSE	12 deca 8-oxygens	EDB	Methuene	Lead	Nitrate/sulfate	Fe / Mn							
1	DW. 1	9.14/1000	X	GW		Ulmer, S.C.	9	3	2	2	1	1									
2	DW. 2	9.14/200	X	GW			9	3	2	2	1	1									
3	DW. 3	9.14/1300	X	GW			9	3	2	2	1	1									
4	DW. 4	9.14/1400	X	GW			9	3	2	2	1	1									
5																					
6																					
7																					
8																					
9																					
10																					

1) Relinquished By: Van & Chisholm Date / Time: 9.14.06/1600  
 2) Received By: [Signature] Date / Time: 9/15/06 1025  
 3) Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 4) Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 Delivered by: (Circle One) Fed Ex UPS / DHL / AAL Pickup / Hand / Other  
 Turnaround Time Requested: STD

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)  
 Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH

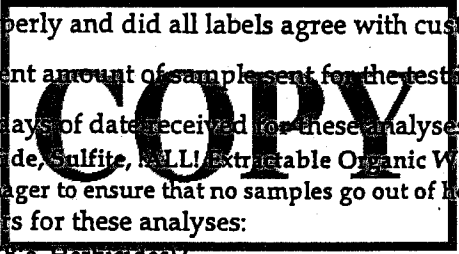
Client Project Name: Interstate Trucking ACCURA Work Order#: 10896

Are there EnCores, tests with < 48Hr hold times, or RUSH TAT's requested? YES NO
YES, you must communicate RUSH analyses to the appropriate analyst(s) immediately!!! / or preserve EnCores (see #16 below)!!!
Preliminary Examination: Initials: JSm Date received: 9/15/06 Date cooler was opened: 9/15/06

- 1. Did cooler/package come with a shipping slip (airbill, Etc.)? YES NO
If YES, enter carrier name and airbill number here: UPS - 51692844988
Describe type of packing in cooler:
\*\*\*\*If cooler was hand delivered, CIRCLE HERE, skip to item #5\*\*\*\*
2. Were custody seals on outside of cooler? YES NO
If YES, how many: seal dated: seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? YES N/A NO
4. Were custody papers sealed in a plastic bag to prevent damage to chain of custody? YES NO
5. If required, was enough ice used? (Internal cooler temperature, 28) YES N/A NO
6. Did you sign custody papers in the appropriate place? YES NO
7. Was project identifiable from custody papers? YES NO
If YES, enter project name at the top.

Complete project file with green sheet, proper file tag, and shipping documentation. Line up samples following chain. Complete Container Receipt Verification form (include extra containers for dissolved metals filtrates). Complete login in XENCO and generate AAL ID Labels.

- 8. Did all containers arrive unbroken and were labels in good condition? YES NO
9. Were custody papers filled out properly and did all labels agree with custody papers? YES JSm 9/15/06 NO
10. Were correct containers and sufficient amount of sample sent for the test indicated? YES NO
11. All samples collected within three days of date received for these analyses (Reactive Cn & S, Solids in H2O, Sulfide, Sulfite, ALL! Extractable Organic Waters)? YES N/A NO
If NO, coordinate with the project manager to ensure that no samples go out of hold!!!
12. No residual chlorine found in waters for these analyses: (Cyanide, PAH, SVOC, Pesticides, PCB's, Herbicides)? YES N/A NO



Checked by: (Initials)

- 13. Were samples properly chemically preserved, if required, upon receipt? YES N/A NO
(For example: pH checked for waters for all Metals, Wet Chemistry, Pesticides, PCB's, Herbicides, and VOC/BTEX samples submitted with HCL for waters and in either Encore samplers or NaHSO4 labeled vials for soils)
Preservation checked by: JSm (Initials)
14. Were air bubbles (>1/4 inch) absent in VOC/BTEX samples? YES N/A NO
If NO, list ID # on back and label vials with: Do Not Use Until Notified By Management.
15. If there are samples for dissolved metals, were they field filtered? YES N/A NO
If NO, list date and time samples were filtered and preserved in lab: 9/15/06 11am By metals Dept.

- 16. Were Encore samplers included? YES NO
If YES, date and time preserved with NaHSO4: By whom:
17. Does this submittal contain soil NaHSO4 vials for BTEX/GRO/VOC'S? YES NO
If YES, vials weighed by and entered into vial database by:
18. Initials of laboratory personnel responsible for labeling laboratory I.D. numbers on containers: JSm

Keep samples and chain out. Before moving samples to their appropriate location, another person must review the entire project ensuring that information on the AAL ID Barcode label matches the container label, and that all information is consistent with the chain. Final check and samples logged to locations by: (Initials)

- 19. Was it necessary to call the assigned project manager in order to proceed with login? YES NO
If YES, give details on the back of this form.
20. Who was called? JSm By whom? JSm Date/Time: 09/15/06 see email JSm

Project Mgr. Review: JSm (Initials) 09/15/06 (Date) Page 1 of 2

ACCURA ANALYTICAL LABORATORY, INC.  
SAMPLE RECEIPT VARIANCE FORM

Item # 9-1 Discrepancies Noted:  
COC states there are (3) containers each for BTEX analysis Rec'd only (2) containers each for BTEX+NAP+MTBE analysis. MB, Coc also states that there are (4) samples, only (3) samples Rec'd no DW-4 sample Rec'd.

1,2W (see "DW-4" above)

**COPY**

Item # 1-1 Actions Taken:  
CONTAINERS RECD ARE SUFFICIENT (see #19,20 below RE: "DW-4")

1W See email attached - cross of coc  
Project Mgr. Review: SP (Initials) 09/30/06 (Date)



# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, SC

Sample Id: DW-1		Matrix: WATER		% Moisture:			
Lab Sample Id: 10896-001		Date Collected: Sep-14-06 11:00		Date Received: Sep-15-06 10:28			
Sample Depth:							
<b>Analytical Method: Dissolved Iron by SW6010B</b>				<b>Prep Method: SW3005A</b>			
Date Analyzed: Sep-15-06 13:55		Analyst: OKC01	Date Prep: Sep-15-06 09:55		Tech: FAR01		
		Seq Number: 33495					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1
<b>Analytical Method: EDB by SW8011</b>				<b>Prep Method: SW8011</b>			
Date Analyzed: Sep-18-06 19:00		Analyst: BDW01	Date Prep: Sep-18-06 09:00		Tech: BDW01		
		Seq Number: 33529					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1
<b>Analytical Method: Lead by SW6010B</b>				<b>Prep Method: SW3010A</b>			
Date Analyzed: Sep-21-06 18:29		Analyst: OKC01	Date Prep: Sep-18-06 09:45		Tech: MSN01		
		Seq Number: 33595					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Lead	7439-92-1	0.0209	0.0100	0.00390	mg/L		1
<b>Analytical Method: Methane by Mod. RSK 175</b>				<b>Prep Method: SW5030B</b>			
Date Analyzed: Sep-19-06 10:18		Analyst: MDS01	Date Prep: Sep-19-06 09:30		Tech: MDS01		
		Seq Number: 33533					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Methane	74-82-8	BRL	0.003	0.002	mg/L		1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b>				<b>Prep Method:</b>			
Date Analyzed: Sep-15-06 22:11		Analyst: DP01	Date Prep:		Tech: DP01		
		Seq Number: 33565					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Nitrate	14797-55-8	1.3	0.10	0.027	mg/L		1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b>				<b>Prep Method:</b>			
Date Analyzed: Sep-19-06 20:23		Analyst: DP01	Date Prep:		Tech: DP01		
		Seq Number: 33564					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Sulfate	14808-79-8	5.0	1.0	0.062	mg/L		1



# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: DW-1	Matrix: WATER	% Moisture:
Lab Sample Id: 10896-001	Date Collected: Sep-14-06 11:00	Date Received: Sep-15-06 10:28
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-15-06 18:54	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.5	1.0	0.67	ug/L		1
Toluene	108-88-3	14	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	35	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	150	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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# Certificate of Analytical Results 10896

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, SC

Sample Id: DW-2	Matrix: WATER	% Moisture:
Lab Sample Id: 10896-002	Date Collected: Sep-14-06 12:00	Date Received: Sep-15-06 10:28
Sample Depth:		
<b>Analytical Method: Dissolved Iron by SW6010B</b>		<b>Prep Method: SW3005A</b>
Date Analyzed: Sep-15-06 13:44	Analyst: OKC01	Date Prep: Sep-15-06 09:55
	Seq Number: 33495	Tech: FAR01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Iron (Dissolved)	7439-89-6	BRL 0.100 0.0167
		<b>Units Flag Dil</b>
		mg/L 1
<b>Analytical Method: EDB by SW8011</b>		<b>Prep Method: SW8011</b>
Date Analyzed: Sep-18-06 19:18	Analyst: BDW01	Date Prep: Sep-18-06 09:00
	Seq Number: 33529	Tech: BDW01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL 0.020 0.0049
		<b>Units Flag Dil</b>
		ug/L 1
<b>Analytical Method: Lead by SW6010B</b>		<b>Prep Method: SW3010A</b>
Date Analyzed: Sep-21-06 18:35	Analyst: OKC01	Date Prep: Sep-18-06 09:45
	Seq Number: 33595	Tech: MSN01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Lead	7439-92-1	BRL 0.0100 0.00390
		<b>Units Flag Dil</b>
		mg/L 1
<b>Analytical Method: Methane by Mod. RSK 175</b>		<b>Prep Method: SW5030B</b>
Date Analyzed: Sep-19-06 10:19	Analyst: MDS01	Date Prep: Sep-19-06 09:30
	Seq Number: 33533	Tech: MDS01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Methane	74-82-8	BRL 0.003 0.002
		<b>Units Flag Dil</b>
		mg/L 1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b>		<b>Prep Method:</b>
Date Analyzed: Sep-15-06 22:27	Analyst: DP01	Date Prep:
	Seq Number: 33565	Tech: DP01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Nitrate	14797-55-8	2.6 0.10 0.027
		<b>Units Flag Dil</b>
		mg/L 1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b>		<b>Prep Method:</b>
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:
	Seq Number: 33564	Tech: DP01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Sulfate	14808-79-8	32 1.0 0.062
		<b>Units Flag Dil</b>
		mg/L 1

\*



# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: DW-2	Matrix: WATER	% Moisture:
Lab Sample Id: 10896-002	Date Collected: Sep-14-06 12:00	Date Received: Sep-15-06 10:28
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-15-06 16:41	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	2.9	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	2.0	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	14	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

\*



# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: DW-3	Matrix: WATER	% Moisture:
Lab Sample Id: 10896-003	Date Collected: Sep-14-06 13:00	Date Received: Sep-15-06 10:28
Sample Depth:		

<b>Analytical Method:</b> Dissolved Iron by SW6010B	<b>Prep Method:</b> SW3005A	
Date Analyzed: Sep-15-06 13:49	Analyst: OKC01	Date Prep: Sep-15-06 09:55
	Seq Number: 33495	Tech: FAR01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> SW8011	
Date Analyzed: Sep-18-06 19:36	Analyst: BDW01	Date Prep: Sep-18-06 09:00
	Seq Number: 33529	Tech: BDW01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0048	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A	
Date Analyzed: Sep-21-06 18:41	Analyst: OKC01	Date Prep: Sep-18-06 09:45
	Seq Number: 33595	Tech: MSN01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0122	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Methane by Mod. RSK 175	<b>Prep Method:</b> SW5030B	
Date Analyzed: Sep-19-06 10:22	Analyst: MDS01	Date Prep: Sep-19-06 09:30
	Seq Number: 33533	Tech: MDS01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>	
Date Analyzed: Sep-15-06 22:44	Analyst: DP01	Date Prep:
	Seq Number: 33565	Tech: DP01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	2.0	0.10	0.027	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>	
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:
	Seq Number: 33564	Tech: DP01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	44	1.0	0.062	mg/L		1



# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: DW-3	Matrix: WATER	% Moisture:
Lab Sample Id: 10896-003	Date Collected: Sep-14-06 13:00	Date Received: Sep-15-06 10:28
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-15-06 17:08	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.2	1.0	0.67	ug/L		1
Toluene	108-88-3	17	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	5.5	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	29	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30847 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30847 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Sep-15-06 11:32	Analyst: OKC01	Date Prep: Sep-15-06 09:55	Tech: FAR01
Seq Number: 33495			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

Sample Id: 30862 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30862 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: EDB by SW8011		Prep Method: SW8011	
Date Analyzed: Sep-18-06 13:39	Analyst: BDW01	Date Prep: Sep-18-06 09:00	Tech: BDW01
Seq Number: 33529			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

\*



# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: 30863 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30863 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-15-06 11:29	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	1.1	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30869 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30869 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Sep-21-06 16:37	Analyst: OKC01	Date Prep: Sep-18-06 09:45	Tech: MSN01
Seq Number: 33595			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Sample Id: 30874 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30874 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Sep-19-06 09:41	Analyst: MDS01	Date Prep: Sep-19-06 09:30	Tech: MDS01
Seq Number: 33533			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1



## Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, SC

Sample Id: 33564 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33564 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056			Prep Method:		
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:	Tech: DP01		
Seq Number: 33564					

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1

Sample Id: 33565 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33565 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056			Prep Method:		
Date Analyzed: Sep-15-06 18:54	Analyst: DP01	Date Prep:	Tech: DP01		
Seq Number: 33565					

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, SC

Report Date: 09/27/06 14:19

Project ID: C-05-05-032

Work Order #: 10896

Lab Batch #: 33529

Sample: 10896-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	6.4	4.7	136	60-140	

Lab Batch #: 33529

Sample: 10896-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	6.1	4.7	130	60-140	

Lab Batch #: 33529

Sample: 10896-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.5	5.0	90	60-140	

Lab Batch #: 33529

Sample: 10896-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.7	5.0	74	60-140	

Lab Batch #: 33529

Sample: 10896-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.1	4.9	104	60-140	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, SC

Report Date: 09/27/06 14:19

Work Order #: 10896

Project ID: C-05-05-032

Lab Batch #: 33529

Sample: 10896-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.3	4.9	108	60-140	

Lab Batch #: 33529

Sample: 30862 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.4	5.0	108	60-140	

Lab Batch #: 33529

Sample: 30862 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.8	5.0	116	60-140	

Lab Batch #: 33521

Sample: 10896-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	48.93	50.00	98	53-159	
Bromofluorobenzene	48.41	50.00	97	30-186	
Toluene-d8	50.39	50.00	101	83-136	

Lab Batch #: 33521

Sample: 10896-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	47.18	50.00	94	53-159	
Bromofluorobenzene	46.90	50.00	94	30-186	
Toluene-d8	48.59	50.00	97	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits





# Form 2 - Surrogate Recoveries

**Project Name: Interstate Trucking Ulmer, SC**

**Report Date: 09/27/06 14:19**

**Project ID: C-05-05-032**

**Work Order #: 10896**

**Lab Batch #: 33521**

**Sample: 10896-003 / SMP**

**Batch: 1 Matrix: W**

**Units: ug/L**

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	46.64	50.00	93	53-159	
Bromofluorobenzene	47.53	50.00	95	30-186	
Toluene-d8	49.34	50.00	99	83-136	

**Lab Batch #: 33521**

**Sample: 30863 BLK / BLK**

**Batch: 1 Matrix: W**

**Units: ug/L**

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	51.63	50.00	103	65-125	
Bromofluorobenzene	50.13	50.00	100	66-148	
Toluene-d8	51.27	50.00	103	86-127	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



25-SEP-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10885  
Project Name :Interstate Trucking Ulmer, S.C.  
Project Number: C-05-05-032

Dear Joe Ghiold :

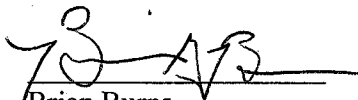
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46036 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46036 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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**AAL Work Order # 10885**

**Client Project: Interstate Trucking Ulmer, S.C. / C-05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 2 page case narrative, 1 Chain of Custody page, 13 analytical results pages, and 5 QC surrogate recovery pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. The samples were filtered, and their filtrates preserved to pH less than 2 with Nitric Acid, upon receipt at the laboratory for the Dissolved Iron by SW6010B analyses.

Michael F. Broome

Receiving

September 14, 2006

Date

**Nitrate and Sulfate by SW 9056 Notations:**

1. Recoveries of the Nitrate Spike standard in the Matrix Spike and its Duplicate for Lab Batch ID/Seq Number: 33563 were outside laboratory control limits due to spike concentrations being significantly less than that in the parent sample. All other related QC for the batch was within acceptable limits; therefore the data was accepted.
2. Recoveries of the Nitrate and Sulfate spike standards in the Matrix Spike for Lab Batch ID/Seq Number: 33564 were outside laboratory control limits due to possible matrix interferences. Recoveries in the Matrix Spike Duplicate were within acceptable limits; therefore the data was accepted.
3. The Relative Percent Difference between concentrations of Nitrate detected in the Method Duplicate for Lab Batch ID/Seq Number: 33564 and its parent sample was outside laboratory control limits. Except as noted in Statement #2 above, all other related QC for the batch was within acceptable limits; therefore the data was accepted.

Deepa Pendalwar

IC Analyst

September 25, 2006

Date

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NELAP Accredited Certificate #-E87429 - Effective 7/01/06, Expires 6/30/07

Page 1 of 1

WO 10885CN



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SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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**Select VOCs by SW8260B Notations:**

1. The pH of each sample was <2.0 prior to analysis.
2. MW-6 required dilution due to high analyte concentrations. As a result some other analytes are reported as "Below Reporting Limit" but at elevated detection limits.
3. Xylenes (Total) were detected in the Method Blanks. Xylenes (Total) were also detected in MW-8, MW-11, and MW-13 at concentrations less than 10 times that in their associated Method Blanks; therefore results for Xylenes (Total) in these samples should be considered estimated due to possible blank contamination. Xylenes (Total) in the other samples was either not detected, or was detected at concentrations greater than 10 times those in the Blanks; therefore these results are unaffected.

Tamara Young

VOC Analyst

September 18, 2006

Date

These Case Narrative Notations have been generated, reviewed, and edited by:

  
\_\_\_\_\_  
Brian Burns  
Client Services

September 25, 2006

Date



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: # Consultech
Address: Cary, NC
Results Sent to: (Client Contact): Joe Ghould
Email address:
Contact Phone #: 919.861.4313 Fax#: 4317
Project (Site) Name: Interstate Trucking Ulmer, S.C.
Project Number: C.O.S.05.032 Preservation Code: (See below)

Billing address:
P.O.# (if required):
For Laboratory Use Only:
QC Level:
Chain of Custody Seal(s):
Analysis Requested:
Field Comments:

Table with columns: Line No., Sample ID#, Sample Date/Time, Composite, Grab, Matrix, Sample Location, No. of Containers, and analysis results for BTEX, EDB, methanol, lead, nitrate, and ferric iron.

1) Relinquished By: Van & Chisholm Date/Time: 9.13.06/1600
2) Received By: [Signature] Date/Time: 9/14/06 1026
Delivered by: (Circle One) Fed Ex / UPS / DHL / AAL Pickup / Hand / Other
3) Relinquished By: Date/Time:
4) Received By: Date/Time:
Turnaround Time Requested: STD

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)
Preservation Codes: 1=HCL / 2=HNO3 / 3=H2SO4 / 4=NaOH+NaAsO2 / 5=NaOH+ZnAc / 6=Na2S2O3 / 7=NaHSO4 / 8=MeOH



# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-6	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-001	Date Collected: Sep-13-06 10:30	Date Received: Sep-14-06 10:26
Sample Depth:		

<b>Analytical Method: Dissolved Iron by SW6010B</b>		<b>Prep Method: SW3005A</b>		
Date Analyzed: Sep-15-06 11:38	Analyst: OKC01	Date Prep: Sep-15-06 09:55	Tech: FAR01	
	Seq Number: 33495			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	11.2	0.100	0.0167	mg/L		1

<b>Analytical Method: EDB by SW8011</b>		<b>Prep Method: SW8011</b>		
Date Analyzed: Sep-18-06 17:31	Analyst: BDW01	Date Prep: Sep-18-06 09:00	Tech: BDW01	
	Seq Number: 33529			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1

<b>Analytical Method: Lead by SW6010B</b>		<b>Prep Method: SW3010A</b>		
Date Analyzed: Sep-21-06 17:35	Analyst: OKC01	Date Prep: Sep-18-06 09:45	Tech: MSN01	
	Seq Number: 33595			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0630	0.0100	0.00390	mg/L		1

<b>Analytical Method: Methane by Mod. RSK 175</b>		<b>Prep Method: SW5030B</b>		
Date Analyzed: Sep-19-06 09:58	Analyst: MDS01	Date Prep: Sep-19-06 09:30	Tech: MDS01	
	Seq Number: 33533			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	0.005	0.003	0.002	mg/L		1

<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b>		<b>Prep Method:</b>		
Date Analyzed: Sep-15-06 23:33	Analyst: DP01	Date Prep:	Tech: DP01	
	Seq Number: 33565			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	16	1.0	0.27	mg/L		10

<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b>		<b>Prep Method:</b>		
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:	Tech: DP01	
	Seq Number: 33564			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	1.8	1.0	0.062	mg/L		1

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# Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-6	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-001	Date Collected: Sep-13-06 10:30	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-14-06 17:55	Analyst: TBY01	Date Prep: Sep-14-06 10:30	Tech: TBY01
Seq Number: 33518			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	160	10	6.7	ug/L		10
Toluene	108-88-3	2500	50	34	ug/L		50
Ethylbenzene	100-41-4	680	10	6.6	ug/L		10
Xylenes, Total	1330-20-7	5600	50	90	ug/L		50
Methyl tert-butyl ether	1634-04-4	BRL	10	6.2	ug/L		10
Naphthalene	91-20-3	150	50	40	ug/L		10
1,2-Dichloroethane	107-06-2	BRL	50	8.2	ug/L		10
Diisopropyl ether	108-20-3	BRL	50	8.9	ug/L		10
Ethanol	64-17-5	BRL	1000	550	ug/L		10
Ethyl tert-butyl alcohol	590-36-3	BRL	250	170	ug/L		10
Ethyl tert-butyl ether	637-92-3	BRL	50	11	ug/L		10
Tert-Amyl alcohol	75-85-4	BRL	250	150	ug/L		10
tert-Amyl methyl ether	994-05-8	BRL	50	11	ug/L		10
tert-Butyl alcohol	75-65-0	BRL	250	11	ug/L		10
tert-Butyl formate	762-75-4	BRL	250	180	ug/L		10

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# Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-8	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-002	Date Collected: Sep-13-06 11:00	Date Received: Sep-14-06 10:26
Sample Depth:		

<b>Analytical Method:</b> Dissolved Iron by SW6010B	<b>Prep Method:</b> SW3005A	
Date Analyzed: Sep-15-06 12:07	Analyst: OKC01	Date Prep: Sep-15-06 09:55
	Seq Number: 33495	Tech: FAR01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	3.96	0.100	0.0167	mg/L		1

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> SW8011	
Date Analyzed: Sep-18-06 17:49	Analyst: BDW01	Date Prep: Sep-18-06 09:00
	Seq Number: 33529	Tech: BDW01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A	
Date Analyzed: Sep-21-06 18:07	Analyst: OKC01	Date Prep: Sep-18-06 09:45
	Seq Number: 33595	Tech: MSN01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Methane by Mod. RSK 175	<b>Prep Method:</b> SW5030B	
Date Analyzed: Sep-19-06 10:31	Analyst: MDS01	Date Prep: Sep-19-06 09:30
	Seq Number: 33533	Tech: MDS01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>	
Date Analyzed: Sep-15-06 23:49	Analyst: DP01	Date Prep:
	Seq Number: 33565	Tech: DP01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	6.3	1.0	0.27	mg/L		10

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>	
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:
	Seq Number: 33564	Tech: DP01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	4.5	1.0	0.062	mg/L		1

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# Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-8	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-002	Date Collected: Sep-13-06 11:00	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-14-06 16:34	Analyst: TBY01	Date Prep: Sep-14-06 10:30	Tech: TBY01
Seq Number: 33518			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	2.0	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	2.0	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1



# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-11	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-003	Date Collected: Sep-13-06 11:30	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B	Prep Method: SW3005A
Date Analyzed: Sep-15-06 12:13      Analyst: OKC01	Date Prep: Sep-15-06 09:55      Tech: FAR01
Seq Number: 33495	

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	21.9	0.100	0.0167	mg/L		1

Analytical Method: EDB by SW8011	Prep Method: SW8011
Date Analyzed: Sep-18-06 18:07      Analyst: BDW01	Date Prep: Sep-18-06 09:00      Tech: BDW01
Seq Number: 33529	

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1

Analytical Method: Lead by SW6010B	Prep Method: SW3010A
Date Analyzed: Sep-21-06 18:12      Analyst: OKC01	Date Prep: Sep-18-06 09:45      Tech: MSN01
Seq Number: 33595	

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0364	0.0100	0.00390	mg/L		1

Analytical Method: Methane by Mod. RSK 175	Prep Method: SW5030B
Date Analyzed: Sep-19-06 10:03      Analyst: MDS01	Date Prep: Sep-19-06 09:30      Tech: MDS01
Seq Number: 33533	

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	0.005	0.003	0.002	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056	Prep Method:
Date Analyzed: Sep-14-06 20:41      Analyst: DP01	Date Prep:      Tech: DP01
Seq Number: 33563	

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	0.92	0.10	0.027	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056	Prep Method:
Date Analyzed: Sep-19-06 20:23      Analyst: DP01	Date Prep:      Tech: DP01
Seq Number: 33564	

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	3.1	1.0	0.062	mg/L		1



# Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, S.C.

Sample Id: MW-11	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-003	Date Collected: Sep-13-06 11:30	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-15-06 12:31	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.1	1.0	0.67	ug/L		1
Toluene	108-88-3	3.4	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	1.8	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	8.2	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1



# Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-12	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-004	Date Collected: Sep-13-06 12:00	Date Received: Sep-14-06 10:26
Sample Depth:		
Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A
Date Analyzed: Sep-15-06 12:19	Analyst: OKC01	Date Prep: Sep-15-06 09:55
	Seq Number: 33495	Tech: FAR01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Iron (Dissolved)	7439-89-6	7.84 0.100 0.0167
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: EDB by SW8011		Prep Method: SW8011
Date Analyzed: Sep-18-06 18:25	Analyst: BDW01	Date Prep: Sep-18-06 09:00
	Seq Number: 33529	Tech: BDW01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL 0.019 0.0046
		<b>Units Flag Dil</b>
		ug/L 1
Analytical Method: Lead by SW6010B		Prep Method: SW3010A
Date Analyzed: Sep-21-06 18:18	Analyst: OKC01	Date Prep: Sep-18-06 09:45
	Seq Number: 33595	Tech: MSN01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Lead	7439-92-1	BRL 0.0100 0.00390
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B
Date Analyzed: Sep-19-06 10:33	Analyst: MDS01	Date Prep: Sep-19-06 09:30
	Seq Number: 33533	Tech: MDS01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Methane	74-82-8	BRL 0.003 0.002
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:
Date Analyzed: Sep-14-06 20:57	Analyst: DP01	Date Prep:
	Seq Number: 33563	Tech: DP01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Nitrate	14797-55-8	1.7 0.10 0.027
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:
	Seq Number: 33564	Tech: DP01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Sulfate	14808-79-8	2.4 1.0 0.062
		<b>Units Flag Dil</b>
		mg/L 1



# Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, S.C.

Sample Id: MW-12	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-004	Date Collected: Sep-13-06 12:00	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-14-06 17:01	Analyst: TBY01	Date Prep: Sep-14-06 10:30	Tech: TBY01
Seq Number: 33518			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1



# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-13	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-005	Date Collected: Sep-13-06 12:30	Date Received: Sep-14-06 10:26
Sample Depth:		
Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A
Date Analyzed: Sep-15-06 12:24	Analyst: OKC01	Date Prep: Sep-15-06 09:55
	Seq Number: 33495	Tech: FAR01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Iron (Dissolved)	7439-89-6	10.0 0.100 0.0167
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: EDB by SW8011		Prep Method: SW8011
Date Analyzed: Sep-18-06 18:43	Analyst: BDW01	Date Prep: Sep-18-06 09:00
	Seq Number: 33529	Tech: BDW01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL 0.020 0.0048
		<b>Units Flag Dil</b>
		ug/L 1
Analytical Method: Lead by SW6010B		Prep Method: SW3010A
Date Analyzed: Sep-21-06 18:24	Analyst: OKC01	Date Prep: Sep-18-06 09:45
	Seq Number: 33595	Tech: MSN01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Lead	7439-92-1	BRL 0.0100 0.00390
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B
Date Analyzed: Sep-19-06 10:16	Analyst: MDS01	Date Prep: Sep-19-06 09:30
	Seq Number: 33533	Tech: MDS01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Methane	74-82-8	BRL 0.003 0.002
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:
Date Analyzed: Sep-14-06 21:14	Analyst: DP01	Date Prep:
	Seq Number: 33563	Tech: DP01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Nitrate	14797-55-8	1.3 0.10 0.027
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:
	Seq Number: 33564	Tech: DP01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Sulfate	14808-79-8	3.4 1.0 0.062
		<b>Units Flag Dil</b>
		mg/L 1



# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: <b>MW-13</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10885-005</b>	Date Collected: <b>Sep-13-06 12:30</b>	Date Received: <b>Sep-14-06 10:26</b>
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>	Prep Method: <b>SW5030B</b>
Date Analyzed: <b>Sep-14-06 17:28</b>	Analyst: <b>TBY01</b>
	Date Prep: <b>Sep-14-06 10:30</b>
	Tech: <b>TBY01</b>
	Seq Number: <b>33518</b>

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	1.3	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	1.1	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: <b>30847 BLK</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>30847 BLK</b>	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: <b>Dissolved Iron by SW6010B</b>	Prep Method: <b>SW3005A</b>
Date Analyzed: <b>Sep-15-06 11:32</b>	Analyst: <b>OKC01</b>
	Date Prep: <b>Sep-15-06 09:55</b>
	Tech: <b>FAR01</b>
	Seq Number: <b>33495</b>

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1



# Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: 30860 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30860 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-14-06 12:55	Analyst: TBY01	Date Prep: Sep-14-06 10:30	Tech: TBY01
Seq Number: 33518			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	1.4	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30862 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30862 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: EDB by SW8011		Prep Method: SW8011	
Date Analyzed: Sep-18-06 13:39	Analyst: BDW01	Date Prep: Sep-18-06 09:00	Tech: BDW01
Seq Number: 33529			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

\*





# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: <b>30863 BLK</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>30863 BLK</b>	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>	Prep Method: <b>SW5030B</b>
Date Analyzed: <b>Sep-15-06 11:29</b>	Analyst: <b>TBY01</b>
Seq Number: <b>33521</b>	Date Prep: <b>Sep-15-06 09:30</b>
	Tech: <b>TBY01</b>

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	1.1	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: <b>30869 BLK</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>30869 BLK</b>	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: <b>Lead by SW6010B</b>	Prep Method: <b>SW3010A</b>
Date Analyzed: <b>Sep-21-06 16:37</b>	Analyst: <b>OKC01</b>
Seq Number: <b>33595</b>	Date Prep: <b>Sep-18-06 09:45</b>
	Tech: <b>MSN01</b>

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Sample Id: <b>30874 BLK</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>30874 BLK</b>	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: <b>Methane by Mod. RSK 175</b>	Prep Method: <b>SW5030B</b>
Date Analyzed: <b>Sep-19-06 09:41</b>	Analyst: <b>MDS01</b>
Seq Number: <b>33533</b>	Date Prep: <b>Sep-19-06 09:30</b>
	Tech: <b>MDS01</b>

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Version: 1.012



# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: 33563 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33563 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-14-06 18:46	Analyst: DP01	Date Prep:	Tech: DP01
	Seq Number: 33563		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1

Sample Id: 33564 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33564 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:	Tech: DP01
	Seq Number: 33564		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1

Sample Id: 33565 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33565 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-15-06 18:54	Analyst: DP01	Date Prep:	Tech: DP01
	Seq Number: 33565		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, S.C.

Report Date: 09/25/06 16:53

Project ID: C-05-05-032

Work Order #: 10885

Lab Batch #: 33529

Sample: 10885-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.8	4.7	102	60-140	

Lab Batch #: 33529

Sample: 10885-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.4	4.7	94	60-140	

Lab Batch #: 33529

Sample: 10885-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.5	4.7	96	60-140	

Lab Batch #: 33529

Sample: 10885-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.8	4.7	81	60-140	

Lab Batch #: 33529

Sample: 10885-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.9	4.7	104	60-140	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits

# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, S.C.

Report Date: 09/25/06 16:53

Project ID: C-05-05-032

Work Order #: 10885

Lab Batch #: 33529

Sample: 10885-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.8	4.7	81	60-140	

Lab Batch #: 33529

Sample: 10885-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.5	4.7	96	60-140	

Lab Batch #: 33529

Sample: 10885-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.7	4.7	79	60-140	

Lab Batch #: 33529

Sample: 10885-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.4	4.9	90	60-140	

Lab Batch #: 33529

Sample: 10885-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.8	4.9	78	60-140	

- \* Surrogate outside of Laboratory QC limits
  - \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis
  - \*\*\* Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, S.C.

Report Date: 09/25/06 16:53

Project ID: C-05-05-032

Work Order #: 10885

Lab Batch #: 33529

Sample: 30862 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.4	5.0	108	60-140	

Lab Batch #: 33529

Sample: 30862 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.8	5.0	116	60-140	

Lab Batch #: 33518

Sample: 10885-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	66.76	50.00	134	53-159	
Bromofluorobenzene	47.61	50.00	95	30-186	
Toluene-d8	46.95	50.00	94	83-136	

Lab Batch #: 33518

Sample: 10885-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	52.61	50.00	105	53-159	
Bromofluorobenzene	50.09	50.00	100	30-186	
Toluene-d8	53.81	50.00	108	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, S.C.

Report Date: 09/25/06 16:53

Project ID: C-05-05-032

Work Order #: 10885

Lab Batch #: 33518

Sample: 10885-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	57.23	50.00	114	53-159	
Bromofluorobenzene	51.09	50.00	102	30-186	
Toluene-d8	53.74	50.00	107	83-136	

Lab Batch #: 33518

Sample: 10885-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	58.68	50.00	117	53-159	
Bromofluorobenzene	52.67	50.00	105	30-186	
Toluene-d8	54.78	50.00	110	83-136	

Lab Batch #: 33518

Sample: 30860 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	51.26	50.00	103	65-125	
Bromofluorobenzene	50.04	50.00	100	66-148	
Toluene-d8	53.49	50.00	107	86-127	

Lab Batch #: 33521

Sample: 10885-001 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	52.54	50.00	105	53-159	
Bromofluorobenzene	48.85	50.00	98	30-186	
Toluene-d8	50.98	50.00	102	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, S.C.

Report Date: 09/25/06 16:53

Work Order #: 10885

Project ID: C-05-05-032

Lab Batch #: 33521

Sample: 10885-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	53.26	50.00	107	53-159	
Bromofluorobenzene	49.40	50.00	99	30-186	
Toluene-d8	52.41	50.00	105	83-136	

Lab Batch #: 33521

Sample: 30863 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	51.63	50.00	103	65-125	
Bromofluorobenzene	50.13	50.00	100	66-148	
Toluene-d8	51.27	50.00	103	86-127	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



19-SEP-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10860  
Project Name :Interstate Trucking  
Project Number: 05-05-032

Dear Joe Ghiold :


We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46037 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46037 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

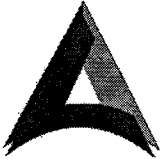
Sincerely,



Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477





**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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*AAL Work Order # 10860*

**Client Project: Interstate Trucking / 05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, 14 analytical results pages, and 6 QC surrogate recovery pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. The samples for Dissolved Metals analysis were filtered and preserved with Nitric Acid upon receipt at the laboratory.

Dawn Sengsourichanh

Receiving

September 08, 2006

Date

**Select VOCs by SW8260B Notations:**

1. The pH of the water samples was <2.0 prior to the VOC analysis.
2. The following samples required dilution due to high analyte concentrations: MW-4r, MW-5r, MW-9, and MW-14. As a result some other analytes are reported as "Below Reporting Limit" but at elevated detection limits.


Tamara Young

VOC Analyst

September 12, 2006

Date

This Case Narrative & Notations have been generated, reviewed, and edited by:

  
\_\_\_\_\_  
Brian Burns  
Client Services

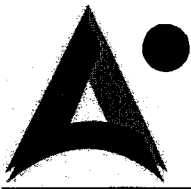
September 19, 2006

Date

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NELAP Accredited Certificate #E87429 - Effective 7/01/06, Expires 6/30/07



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Consultech Environmental Billing address:
Address: Cary NC P.O.# (if required):

Results Sent to: (Client Contact): Joe Ghould
Email address:
Contact Phone #: 919-861-4813 Fax#: 4317

Project (Site) Name: Interstate Trucking Ulmer, S.C.
Project Number: 05-05-032 Preservation Code: (See below)

For Laboratory Use Only
AAL LIMS System ID
QC Level
Receiver LIMS Stamp
Analysis Requested

Table with columns: Line No., Sample ID #, Sample Date / Time, Composite, Grab, Matrix, Sample Location, No. of Containers, and analysis columns (EDP, meth, lead, nitrate/sulfate, Fe, iron). Rows 1-7 contain data for Ulmer, SC samples.

1) Relinquished By: Van T. Chisholm Date / Time: 9/7/06 1600
2) Received By: UPS Date / Time:
Delivered by: (Circle One) Fed Ex / UPS / DHL / AAL Pickup / Hand / Other
3) Relinquished By: UPS Date / Time: 9/8/06 1335
4) Received By: Dawn Sengler Date / Time: 9/8/06 1335
Turnaround Time Requested:

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)
Preservation Codes: 1=HCL / 2=HNO3 / 3=H2SO4 / 4=NaOH+NaAsO2 / 5=NaOH+ZnAc / 6=Na2S2O3 / 7=NaHSO4 / 8=MeOH



# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-4r	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-001	Date Collected: Sep-07-06 10:30	Date Received: Sep-08-06 13:35
Sample Depth:		

<b>Analytical Method: Dissolved Iron by SW6010B</b>		<b>Prep Method: SW3005A</b>					
Date Analyzed: Sep-13-06 16:47	Analyst: OKC01	Date Prep: Sep-13-06 10:33			Tech: OKC01		
Seq Number: 33463							
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	12.7	0.100	0.0167	mg/L		1
<b>Analytical Method: EDB by SW8011</b>		<b>Prep Method: EXT_SW8011</b>					
Date Analyzed: Sep-15-06 11:58	Analyst: BDW01	Date Prep: Sep-15-06 07:56			Tech: BPR01		
Seq Number: 33513							
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.23	0.019	0.0047	ug/L		1
<b>Analytical Method: Lead by SW6010B</b>		<b>Prep Method: SW3010A</b>					
Date Analyzed: Sep-13-06 12:27	Analyst: OKC01	Date Prep: Sep-12-06 10:00			Tech: MSN01		
Seq Number: 33460							
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0726	0.0100	0.00390	mg/L		1
<b>Analytical Method: Methane by Mod. RSK 175</b>		<b>Prep Method: SW5030B</b>					
Date Analyzed: Sep-11-06 13:55	Analyst: MDS01	Date Prep: Sep-11-06 13:20			Tech: MDS01		
Seq Number: 33412							
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b>		<b>Prep Method:</b>					
Date Analyzed: Sep-08-06 17:50	Analyst: LJB01	Date Prep:			Tech: LJB01		
Seq Number: 33417							
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1



# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-4r	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-001	Date Collected: Sep-07-06 10:30	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B

Prep Method: SW5030B

Date Analyzed: Sep-12-06 14:23

Analyst: TBY01

Date Prep: Sep-12-06 08:30

Tech: TBY01

Seq Number: 33455

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	68	10	6.7	ug/L		10
Toluene	108-88-3	1300	10	6.8	ug/L		10
Ethylbenzene	100-41-4	1200	10	6.6	ug/L		10
Xylenes, Total	1330-20-7	6200	50	90	ug/L		50
Methyl tert-butyl ether	1634-04-4	BRL	10	6.2	ug/L		10
Naphthalene	91-20-3	130	50	40	ug/L		10
1,2-Dichloroethane	107-06-2	BRL	50	8.2	ug/L		10
Diisopropyl ether	108-20-3	BRL	50	8.9	ug/L		10
Ethanol	64-17-5	BRL	1000	550	ug/L		10
Ethyl tert-butyl alcohol	590-36-3	BRL	250	170	ug/L		10
Ethyl tert-butyl ether	637-92-3	BRL	50	11	ug/L		10
Tert-Amyl alcohol	75-85-4	BRL	250	150	ug/L		10
tert-Amyl methyl ether	994-05-8	BRL	50	11	ug/L		10
tert-Butyl alcohol	75-65-0	BRL	250	11	ug/L		10
tert-Butyl formate	762-75-4	BRL	250	180	ug/L		10

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-5r	Matrix: WATER	% Moisture:					
Lab Sample Id: 10860-002	Date Collected: Sep-07-06 10:50	Date Received: Sep-08-06 13:35					
Sample Depth:							
<b>Analytical Method: Dissolved Iron by SW6010B</b>		Prep Method: SW3005A					
Date Analyzed: Sep-13-06 17:13	Analyst: OKC01	Date Prep: Sep-13-06 10:33					
	Seq Number: 33463	Tech: OKC01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Iron (Dissolved)	7439-89-6	22.1	0.100	0.0167	mg/L		1
<b>Analytical Method: EDB by SW8011</b>		Prep Method: EXT_SW8011					
Date Analyzed: Sep-15-06 12:16	Analyst: BDW01	Date Prep: Sep-15-06 07:56	Tech: BPR01				
	Seq Number: 33513						
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0048	ug/L		1
<b>Analytical Method: Lead by SW6010B</b>		Prep Method: SW3010A					
Date Analyzed: Sep-13-06 12:32	Analyst: OKC01	Date Prep: Sep-12-06 10:00	Tech: MSN01				
	Seq Number: 33460						
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Lead	7439-92-1	0.0273	0.0100	0.00390	mg/L		1
<b>Analytical Method: Methane by Mod. RSK 175</b>		Prep Method: SW5030B					
Date Analyzed: Sep-11-06 14:19	Analyst: MDS01	Date Prep: Sep-11-06 13:20	Tech: MDS01				
	Seq Number: 33412						
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Methane	74-82-8	BRL	0.003	0.002	mg/L		1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b>		Prep Method:					
Date Analyzed: Sep-08-06 18:56	Analyst: LJB01	Date Prep:	Tech: LJB01				
	Seq Number: 33417						
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Nitrate	14797-55-8	3.1	0.10	0.027	mg/L		1
Sulfate	14808-79-8	3.4	1.0	0.062	mg/L		1



# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-5r	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-002	Date Collected: Sep-07-06 10:50	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-12-06 15:44	Analyst: TBY01	Date Prep: Sep-12-06 08:30	Tech: TBY01
Seq Number: 33455			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	14	10	6.7	ug/L		10
Toluene	108-88-3	35	10	6.8	ug/L		10
Ethylbenzene	100-41-4	430	10	6.6	ug/L		10
Xylenes, Total	1330-20-7	1900	10	18	ug/L		10
Methyl tert-butyl ether	1634-04-4	BRL	10	6.2	ug/L		10
Naphthalene	91-20-3	250	50	40	ug/L		10
1,2-Dichloroethane	107-06-2	BRL	50	8.2	ug/L		10
Diisopropyl ether	108-20-3	BRL	50	8.9	ug/L		10
Ethanol	64-17-5	BRL	1000	550	ug/L		10
Ethyl tert-butyl alcohol	590-36-3	BRL	250	170	ug/L		10
Ethyl tert-butyl ether	637-92-3	BRL	50	11	ug/L		10
Tert-Amyl alcohol	75-85-4	BRL	250	150	ug/L		10
tert-Amyl methyl ether	994-05-8	BRL	50	11	ug/L		10
tert-Butyl alcohol	75-65-0	BRL	250	11	ug/L		10
tert-Butyl formate	762-75-4	BRL	250	180	ug/L		10



# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-7	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-003	Date Collected: Sep-07-06 11:10	Date Received: Sep-08-06 13:35
Sample Depth:		

<b>Analytical Method:</b> Dissolved Iron by SW6010B	<b>Prep Method:</b> SW3005A		
Date Analyzed: Sep-13-06 17:19	Analyst: OKC01	Date Prep: Sep-13-06 10:33	Tech: OKC01
	Seq Number: 33463		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	14.5	0.100	0.0167	mg/L		1

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> EXT_SW8011		
Date Analyzed: Sep-15-06 12:33	Analyst: BDW01	Date Prep: Sep-15-06 07:56	Tech: BPR01
	Seq Number: 33513		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0047	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A		
Date Analyzed: Sep-13-06 12:38	Analyst: OKC01	Date Prep: Sep-12-06 10:00	Tech: MSN01
	Seq Number: 33460		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0274	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Methane by Mod. RSK 175	<b>Prep Method:</b> SW5030B		
Date Analyzed: Sep-11-06 14:46	Analyst: MDS01	Date Prep: Sep-11-06 13:20	Tech: MDS01
	Seq Number: 33412		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	0.007	0.003	0.002	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>		
Date Analyzed: Sep-08-06 19:12	Analyst: LJB01	Date Prep:	Tech: LJB01
	Seq Number: 33417		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	3.0	0.10	0.027	mg/L		1
Sulfate	14808-79-8	24	1.0	0.062	mg/L		1



# Certificate of Analytical Results 10860

**Consultech Environmental, Inc., Cary, NC**

Interstate Trucking

Sample Id: <b>MW-7</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10860-003</b>	Date Collected: <b>Sep-07-06 11:10</b>	Date Received: <b>Sep-08-06 13:35</b>
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>		Prep Method: <b>SW5030B</b>	
Date Analyzed: <b>Sep-12-06 13:30</b>	Analyst: <b>TBY01</b>	Date Prep: <b>Sep-12-06 08:30</b>	Tech: <b>TBY01</b>
Seq Number: <b>33455</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-9	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-004	Date Collected: Sep-07-06 11:30	Date Received: Sep-08-06 13:35
Sample Depth:		
Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A
Date Analyzed: Sep-13-06 17:24	Analyst: OKC01	Date Prep: Sep-13-06 10:33
	Seq Number: 33463	Tech: OKC01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Iron (Dissolved)	7439-89-6	51.2 0.100 0.0167
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: EDB by SW8011		Prep Method: EXT_SW8011
Date Analyzed: Sep-15-06 12:51	Analyst: BDW01	Date Prep: Sep-15-06 07:56
	Seq Number: 33513	Tech: BPR01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL 0.021 0.0051
		<b>Units Flag Dil</b>
		ug/L 1
Analytical Method: Lead by SW6010B		Prep Method: SW3010A
Date Analyzed: Sep-13-06 12:01	Analyst: OKC01	Date Prep: Sep-12-06 10:00
	Seq Number: 33460	Tech: MSN01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Lead	7439-92-1	0.0142 0.0100 0.00390
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B
Date Analyzed: Sep-11-06 14:01	Analyst: MDS01	Date Prep: Sep-11-06 13:20
	Seq Number: 33412	Tech: MDS01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Methane	74-82-8	0.019 0.003 0.002
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:
Date Analyzed: Sep-08-06 19:29	Analyst: LJB01	Date Prep:
	Seq Number: 33417	Tech: LJB01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Nitrate	14797-55-8	0.77 0.10 0.027
Sulfate	14808-79-8	1.8 1.0 0.062
		<b>Units Flag Dil</b>
		mg/L 1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-9	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-004	Date Collected: Sep-07-06 11:30	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B

Prep Method: SW5030B

Date Analyzed: Sep-12-06 14:50

Analyst: TBY01

Date Prep: Sep-12-06 08:30

Tech: TBY01

Seq Number: 33455

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	180	10	6.7	ug/L		10
Toluene	108-88-3	2900	50	34	ug/L		50
Ethylbenzene	100-41-4	750	10	6.6	ug/L		10
Xylenes, Total	1330-20-7	5000	50	90	ug/L		50
Methyl tert-butyl ether	1634-04-4	BRL	10	6.2	ug/L		10
Naphthalene	91-20-3	290	50	40	ug/L		10
1,2-Dichloroethane	107-06-2	BRL	50	8.2	ug/L		10
Diisopropyl ether	108-20-3	BRL	50	8.9	ug/L		10
Ethanol	64-17-5	BRL	1000	550	ug/L		10
Ethyl tert-butyl alcohol	590-36-3	BRL	250	170	ug/L		10
Ethyl tert-butyl ether	637-92-3	BRL	50	11	ug/L		10
Tert-Amyl alcohol	75-85-4	BRL	250	150	ug/L		10
tert-Amyl methyl ether	994-05-8	BRL	50	11	ug/L		10
tert-Butyl alcohol	75-65-0	BRL	250	11	ug/L		10
tert-Butyl formate	762-75-4	BRL	250	180	ug/L		10

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-10	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-005	Date Collected: Sep-07-06 11:50	Date Received: Sep-08-06 13:35
Sample Depth:		

<b>Analytical Method:</b> Dissolved Iron by SW6010B	<b>Prep Method:</b> SW3005A		
Date Analyzed: Sep-13-06 17:30	Analyst: OKC01	Date Prep: Sep-13-06 10:33	Tech: OKC01
	Seq Number: 33463		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	2.82	0.100	0.0167	mg/L		1

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> EXT_SW8011		
Date Analyzed: Sep-15-06 13:27	Analyst: BDW01	Date Prep: Sep-15-06 07:56	Tech: BPR01
	Seq Number: 33513		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0047	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A		
Date Analyzed: Sep-13-06 13:43	Analyst: OKC01	Date Prep: Sep-12-06 10:00	Tech: MSN01
	Seq Number: 33460		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0160	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Methane by Mod. RSK 175	<b>Prep Method:</b> SW5030B		
Date Analyzed: Sep-11-06 14:22	Analyst: MDS01	Date Prep: Sep-11-06 13:20	Tech: MDS01
	Seq Number: 33412		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>		
Date Analyzed: Sep-08-06 19:45	Analyst: LJB01	Date Prep:	Tech: LJB01
	Seq Number: 33417		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	1.3	0.10	0.027	mg/L		1
Sulfate	14808-79-8	4.1	1.0	0.062	mg/L		1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-10	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-005	Date Collected: Sep-07-06 11:50	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-12-06 13:57	Analyst: TBY01	Date Prep: Sep-12-06 08:30	Tech: TBY01
Seq Number: 33455			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-14	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-006	Date Collected: Sep-07-06 12:10	Date Received: Sep-08-06 13:35
Sample Depth:		

<b>Analytical Method:</b> Dissolved Iron by SW6010B	<b>Prep Method:</b> SW3005A
Date Analyzed: Sep-13-06 17:36	Analyst: OKC01
Seq Number: 33463	Date Prep: Sep-13-06 10:33
	Tech: OKC01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	16.3	0.100	0.0167	mg/L		1

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> EXT_SW8011
Date Analyzed: Sep-15-06 13:45	Analyst: BDW01
Seq Number: 33513	Date Prep: Sep-15-06 07:56
	Tech: BPR01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.18	0.019	0.0047	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A
Date Analyzed: Sep-13-06 13:48	Analyst: OKC01
Seq Number: 33460	Date Prep: Sep-12-06 10:00
	Tech: MSN01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0427	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Methane by Mod. RSK 175	<b>Prep Method:</b> SW5030B
Date Analyzed: Sep-11-06 14:24	Analyst: MDS01
Seq Number: 33412	Date Prep: Sep-11-06 13:20
	Tech: MDS01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	0.012	0.003	0.002	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>
Date Analyzed: Sep-08-06 20:34	Analyst: LJB01
Seq Number: 33417	Date Prep:
	Tech: LJB01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	2.6	0.10	0.027	mg/L		1
Sulfate	14808-79-8	1.8	1.0	0.062	mg/L		1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-14	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-006	Date Collected: Sep-07-06 12:10	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-12-06 15:17	Analyst: TBY01	Date Prep: Sep-12-06 08:30	Tech: TBY01
Seq Number: 33455			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	79	10	6.7	ug/L		10
Toluene	108-88-3	4800	100	68	ug/L		100
Ethylbenzene	100-41-4	1500	10	6.6	ug/L		10
Xylenes, Total	1330-20-7	8100	100	180	ug/L		100
Methyl tert-butyl ether	1634-04-4	BRL	10	6.2	ug/L		10
Naphthalene	91-20-3	150	50	40	ug/L		10
1,2-Dichloroethane	107-06-2	BRL	50	8.2	ug/L		10
Diisopropyl ether	108-20-3	BRL	50	8.9	ug/L		10
Ethanol	64-17-5	BRL	1000	550	ug/L		10
Ethyl tert-butyl alcohol	590-36-3	BRL	250	170	ug/L		10
Ethyl tert-butyl ether	637-92-3	BRL	50	11	ug/L		10
Tert-Amyl alcohol	75-85-4	BRL	250	150	ug/L		10
tert-Amyl methyl ether	994-05-8	BRL	50	11	ug/L		10
tert-Butyl alcohol	75-65-0	BRL	250	11	ug/L		10
tert-Butyl formate	762-75-4	BRL	250	180	ug/L		10

Sample Id: 30785 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30785 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Sep-11-06 13:43	Analyst: MDS01	Date Prep: Sep-11-06 13:20	Tech: MDS01
Seq Number: 33412			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Sample Id: 30803 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30803 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Sep-13-06 11:40	Analyst: OKC01	Date Prep: Sep-12-06 10:00	Tech: MSN01
Seq Number: 33460			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

\*



# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: 30809 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30809 BLK	Date Collected:	Date Received:
Sample Depth:		

<b>Analytical Method:</b> Dissolved Iron by SW6010B	<b>Prep Method:</b> SW3005A
Date Analyzed: Sep-13-06 15:55	Analyst: OKC01
Seq Number: 33463	Date Prep: Sep-13-06 10:33
	Tech: OKC01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

Sample Id: 30813 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30813 BLK	Date Collected:	Date Received:
Sample Depth:		

<b>Analytical Method:</b> Select VOCs by SW8260B	<b>Prep Method:</b> SW5030B
Date Analyzed: Sep-12-06 12:54	Analyst: TBY01
Seq Number: 33454	Date Prep: Sep-12-06 08:30
	Tech: TBY01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30837 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30837 BLK	Date Collected:	Date Received:
Sample Depth:		

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> EXT_SW8011
Date Analyzed: Sep-15-06 11:05	Analyst: BDW01
Seq Number: 33513	Date Prep: Sep-15-06 07:56
	Tech: BPR01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

\*



# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: 33417 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33417 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056	Prep Method:		
Date Analyzed: Sep-08-06 17:17	Analyst: LJB01	Date Prep:	Tech: LJB01
	Seq Number: 33417		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1

\*





# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Work Order #: 10860

Project ID: 05-05-032

Lab Batch #: 33513

Sample: 10860-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.5	4.8	94	60-140	

Lab Batch #: 33513

Sample: 10860-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.8	4.8	79	60-140	

Lab Batch #: 33513

Sample: 10860-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.5	4.9	92	60-140	

Lab Batch #: 33513

Sample: 10860-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.3	4.9	88	60-140	

Lab Batch #: 33513

Sample: 10860-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.2	4.8	108	60-140	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Project ID: 05-05-032

Work Order #: 10860

Lab Batch #: 33513

Sample: 10860-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.2	4.8	108	60-140	

Lab Batch #: 33513

Sample: 10860-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.8	5.2	92	60-140	

Lab Batch #: 33513

Sample: 10860-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.4	5.2	85	60-140	

Lab Batch #: 33513

Sample: 10860-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.7	4.8	98	60-140	

Lab Batch #: 33513

Sample: 10860-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.2	4.8	88	60-140	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Work Order #: 10860

Project ID: 05-05-032

Lab Batch #: 33513

Sample: 10860-006 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.9	4.8	102	60-140	

Lab Batch #: 33513

Sample: 10860-006 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.3	4.8	90	60-140	

Lab Batch #: 33513

Sample: 30837 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.6	5.0	92	60-140	

Lab Batch #: 33513

Sample: 30837 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.0	5.0	80	60-140	

Lab Batch #: 33454

Sample: 30813 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	52.13	50.00	104	65-125	
Bromofluorobenzene	48.28	50.00	97	66-148	
Toluene-d8	50.64	50.00	101	86-127	

- \* Surrogate outside of Laboratory QC limits
  - \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis
  - \*\*\* Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Work Order #: 10860

Project ID: 05-05-032

Lab Batch #: 33454

Sample: 30813 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	52.13	50.00	104	65-125	
Bromofluorobenzene	48.28	50.00	97	66-148	
Toluene-d8	50.64	50.00	101	86-127	

Lab Batch #: 33455

Sample: 10860-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	67.06	50.00	134	53-159	
Bromofluorobenzene	48.89	50.00	98	30-186	
Toluene-d8	50.11	50.00	100	83-136	

Lab Batch #: 33455

Sample: 10860-001 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	53.77	50.00	108	53-159	
Bromofluorobenzene	49.89	50.00	100	30-186	
Toluene-d8	51.80	50.00	104	83-136	

Lab Batch #: 33455

Sample: 10860-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	63.50	50.00	127	53-159	
Bromofluorobenzene	49.48	50.00	99	30-186	
Toluene-d8	52.41	50.00	105	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Project ID: 05-05-032

Work Order #: 10860

Lab Batch #: 33455

Sample: 10860-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	55.34	50.00	111	53-159	
Bromofluorobenzene	50.29	50.00	101	30-186	
Toluene-d8	53.06	50.00	106	83-136	

Lab Batch #: 33455

Sample: 10860-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	62.12	50.00	124	53-159	
Bromofluorobenzene	48.39	50.00	97	30-186	
Toluene-d8	49.51	50.00	99	83-136	

Lab Batch #: 33455

Sample: 10860-004 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	58.55	50.00	117	53-159	
Bromofluorobenzene	49.80	50.00	100	30-186	
Toluene-d8	51.78	50.00	104	83-136	

Lab Batch #: 33455

Sample: 10860-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	53.76	50.00	108	53-159	
Bromofluorobenzene	50.06	50.00	100	30-186	
Toluene-d8	54.45	50.00	109	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Work Order #: 10860

Project ID: 05-05-032

Lab Batch #: 33455

Sample: 10860-006 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	62.88	50.00	126	53-159	
Bromofluorobenzene	47.20	50.00	94	30-186	
Toluene-d8	46.94	50.00	94	83-136	

Lab Batch #: 33455

Sample: 10860-006 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	54.74	50.00	109	53-159	
Bromofluorobenzene	51.01	50.00	102	30-186	
Toluene-d8	53.87	50.00	108	83-136	

\* Surrogate outside of Laboratory QC limits

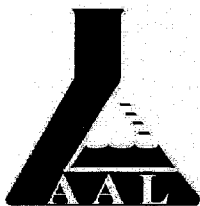
\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



14-SEP-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10855  
Project Name :Interstate Trucking / Ulmer, SC  
Project Number: C-05-05-032

Dear Joe Ghiold :

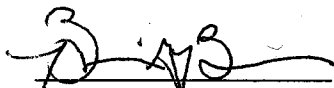
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46038 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

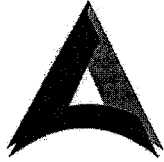
The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46038 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
\_\_\_\_\_  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 ▪ NC Certification #483

SC Certification #98015 ▪ Utah Certification #AALI1

USACE Approved ▪ Navy Certification Code NFESC 413

*Case Narrative*

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*AAL Work Order # 10855*

**Client Project: Interstate Trucking / Ulmer, SC / C-05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, 5 analytical results pages, and 4 QC surrogate recovery pages.

The following items were noted concerning this work order:

**Select VOCs by SW8260B Notations:**

1. The pH of each sample was <2.0 prior to analysis.
2. MW-2 and MW-3 required dilution due to high analyte concentrations. As a result some other analytes are reported as "Below Reporting Limit" but at elevated detection limits.

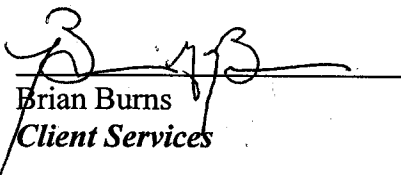
Tamara Young

VOC Analyst

September 8, 2006

Date

These Case Narrative Notations have been generated, reviewed, and edited by:

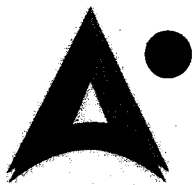
  
Brian Burns

Client Services

September 14, 2006

Date





ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Consultech Environmental

Billing address:

Address: PO Box 5611 Cary NC

P.O.# (if required):

Results Sent to: (Client Contact): Joe Gould

Email address:

Contact Phone #: 919.861.4313 Fax#: 4317

Project (Site) Name: Interstate Trucking Ulmer, S.C.

Project Number: C.05.05.1032 Preservation Code: (See below)

For Laboratory Use Only: AAL-ELMS System ID, QC Level, Receiver's Initials/Temp, Analytical Method, N-Type, AAL Work Order #

Analysis Requested

Field Comments:

Table with columns: Line No., Sample ID #, Sample Date / Time, Composite, Grab, Matrix (See below), Sample Location, No. of Containers, and Analysis Requested. Includes handwritten entries for samples 1-4 and signatures.

Handover section with fields: 1) Relinquished By, Date / Time, 2) Received By, Date / Time, Delivered by: (Circle One) Fed Ex / UPS / DHL / AAL Pickup / Hand / Other, 3) Relinquished By, Date / Time, 4) Received By, Date / Time, Turnaround Time Requested.

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)
Preservation Codes: 1=HCL / 2=HNO3 / 3=H2SO4 / 4=NaOH+NaAsO2 / 5=NaOH+ZnAc / 6=Na2S2O3 / 7=NaHSO4 / 8=MeOH



# Certificate of Analytical Results 10855

Consultech Environmental, Inc., Cary, NC

Interstate Trucking / Ulmer, SC

Sample Id: MW-1	Matrix: WATER	% Moisture:
Lab Sample Id: 10855-001	Date Collected: Sep-06-06 12:00	Date Received: Sep-07-06 10:15
Sample Depth:		

Analytical Method: EDB by SW8011	Prep Method: EXT_SW8011
Date Analyzed: Sep-08-06 23:45	Analyst: BDW01
Seq Number: 33424	Date Prep: Sep-08-06 09:00
	Tech: BDW01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

Analytical Method: Lead by SW6010B	Prep Method: SW3010A
Date Analyzed: Sep-11-06 13:33	Analyst: OKC01
Seq Number: 33418	Date Prep: Sep-08-06 10:00
	Tech: MSN01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B
Date Analyzed: Sep-07-06 14:45	Analyst: 9999
Seq Number: 33389	Date Prep: Sep-07-06 10:00
	Tech: TBY01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3		1.2	1.0	ug/L		1
Ethylbenzene	100-41-4		1.4	1.0	ug/L		1
Xylenes, Total	1330-20-7		2.9	1.0	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1



# Certificate of Analytical Results 10855

Consultech Environmental, Inc., Cary, NC

Interstate Trucking / Ulmer, SC

Sample Id: MW-2	Matrix: WATER	% Moisture:
Lab Sample Id: 10855-002	Date Collected: Sep-06-06 12:20	Date Received: Sep-07-06 10:15
Sample Depth:		

Analytical Method: EDB by SW8011	Prep Method: EXT_SW8011
Date Analyzed: Sep-09-06 00:03	Analyst: BDW01
Seq Number: 33424	Date Prep: Sep-08-06 09:00
	Tech: BDW01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.24	0.020	0.0048	ug/L		1

Analytical Method: Lead by SW6010B	Prep Method: SW3010A
Date Analyzed: Sep-11-06 14:07	Analyst: OKC01
Seq Number: 33418	Date Prep: Sep-08-06 10:00
	Tech: MSN01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.109	0.0100	0.00390	mg/L		1

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B
Date Analyzed: Sep-07-06 15:39	Analyst: 9999
Seq Number: 33389	Date Prep: Sep-07-06 10:00
	Tech: TBY01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	180	20	13	ug/L		20
Toluene	108-88-3	4400	100	68	ug/L		100
Ethylbenzene	100-41-4	2200	20	13	ug/L		20
Xylenes, Total	1330-20-7	11000	100	180	ug/L		100
Methyl tert-butyl ether	1634-04-4	BRL	20	12	ug/L		20
Naphthalene	91-20-3	200	100	80	ug/L		20
1,2-Dichloroethane	107-06-2	BRL	100	16	ug/L		20
Diisopropyl ether	108-20-3	BRL	100	18	ug/L		20
Ethanol	64-17-5	BRL	2000	1100	ug/L		20
Ethyl tert-butyl alcohol	590-36-3	BRL	500	340	ug/L		20
Ethyl tert-butyl ether	637-92-3	BRL	100	22	ug/L		20
Tert-Amyl alcohol	75-85-4	BRL	500	300	ug/L		20
tert-Amyl methyl ether	994-05-8	BRL	100	22	ug/L		20
tert-Butyl alcohol	75-65-0	BRL	500	22	ug/L		20
tert-Butyl formate	762-75-4	BRL	500	360	ug/L		20



# Certificate of Analytical Results 10855

Consultech Environmental, Inc., Cary, NC

Interstate Trucking / Ulmer, SC

Sample Id: MW-3	Matrix: WATER	% Moisture:
Lab Sample Id: 10855-003	Date Collected: Sep-06-06 12:40	Date Received: Sep-07-06 10:15
Sample Depth:		

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> EXT_SW8011		
Date Analyzed: Sep-09-06 00:21	Analyst: BDW01	Date Prep: Sep-08-06 09:00	Tech: BDW01
	Seq Number: 33424		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0050	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A		
Date Analyzed: Sep-11-06 14:13	Analyst: OKC01	Date Prep: Sep-08-06 10:00	Tech: MSN01
	Seq Number: 33418		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Select VOCs by SW8260B	<b>Prep Method:</b> SW5030B		
Date Analyzed: Sep-07-06 16:32	Analyst: 9999	Date Prep: Sep-07-06 10:00	Tech: TBY01
	Seq Number: 33389		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	20	13	ug/L		20
Toluene	108-88-3	29	20	14	ug/L		20
Ethylbenzene	100-41-4	130	20	13	ug/L		20
Xylenes, Total	1330-20-7	650	20	36	ug/L		20
Methyl tert-butyl ether	1634-04-4	BRL	20	12	ug/L		20
Naphthalene	91-20-3	BRL	100	80	ug/L		20
1,2-Dichloroethane	107-06-2	BRL	100	16	ug/L		20
Diisopropyl ether	108-20-3	BRL	100	18	ug/L		20
Ethanol	64-17-5	BRL	2000	1100	ug/L		20
Ethyl tert-butyl alcohol	590-36-3	BRL	500	340	ug/L		20
Ethyl tert-butyl ether	637-92-3	BRL	100	22	ug/L		20
Tert-Amyl alcohol	75-85-4	BRL	500	300	ug/L		20
tert-Amyl methyl ether	994-05-8	BRL	100	22	ug/L		20
tert-Butyl alcohol	75-65-0	BRL	500	22	ug/L		20
tert-Butyl formate	762-75-4	BRL	500	360	ug/L		20



# Certificate of Analytical Results 10855

Consultech Environmental, Inc., Cary, NC

Interstate Trucking / Ulmer, SC

Sample Id: WSW-2	Matrix: WATER	% Moisture:
Lab Sample Id: 10855-004	Date Collected: Sep-06-06 13:00	Date Received: Sep-07-06 10:15
Sample Depth:		

<b>Analytical Method:</b> EDB by SW8011				<b>Prep Method:</b> EXT_SW8011
Date Analyzed: Sep-09-06 00:38	Analyst: BDW01	Date Prep: Sep-08-06 09:00	Tech: BDW01	
	Seq Number: 33424			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0047	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B				<b>Prep Method:</b> SW3010A
Date Analyzed: Sep-11-06 14:18	Analyst: OKC01	Date Prep: Sep-08-06 10:00	Tech: MSN01	
	Seq Number: 33418			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Select VOCs by SW8260B				<b>Prep Method:</b> SW5030B
Date Analyzed: Sep-07-06 15:12	Analyst: 9999	Date Prep: Sep-07-06 10:00	Tech: TBY01	
	Seq Number: 33389			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1



# Certificate of Analytical Results 10855

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking / Ulmer, SC

Sample Id: 30772 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30772 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-07-06 12:30	Analyst: 9999	Date Prep: Sep-07-06 10:00	Tech: TBY01
Seq Number: 33389			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30779 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30779 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Sep-11-06 11:13	Analyst: OKC01	Date Prep: Sep-08-06 10:00	Tech: MSN01
Seq Number: 33418			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Sample Id: 30784 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30784 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: EDB by SW8011		Prep Method: EXT_SW8011	
Date Analyzed: Sep-08-06 17:15	Analyst: BDW01	Date Prep: Sep-08-06 09:00	Tech: BDW01
Seq Number: 33424			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking / Ulmer, SC

Report Date: 09/14/06 15:47

Work Order #: 10855

Project ID: C-05-05-032

Lab Batch #: 33424

Sample: 10855-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.5	5.0	90	60-140	

Lab Batch #: 33424

Sample: 10855-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.3	5.0	86	60-140	

Lab Batch #: 33424

Sample: 10855-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.7	4.9	96	60-140	

Lab Batch #: 33424

Sample: 10855-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.5	4.9	92	60-140	

Lab Batch #: 33424

Sample: 10855-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.8	5.1	94	60-140	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking / Ulmer, SC

Report Date: 09/14/06 15:47

Work Order #: 10855

Project ID: C-05-05-032

Lab Batch #: 33424

Sample: 10855-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.4	5.1	106	60-140	

Lab Batch #: 33424

Sample: 10855-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.2	4.8	88	60-140	

Lab Batch #: 33424

Sample: 10855-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.0	4.8	83	60-140	

Lab Batch #: 33424

Sample: 30784 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.1	5.0	82	60-140	

Lab Batch #: 33424

Sample: 30784 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.8	5.0	76	60-140	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits





# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking / Ulmer, SC

Report Date: 09/14/06 15:47

Work Order #: 10855

Project ID: C-05-05-032

Lab Batch #: 33389

Sample: 10855-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	61.46	50.00	123	53-159	
Bromofluorobenzene	50.96	50.00	102	30-186	
Toluene-d8	54.48	50.00	109	83-136	

Lab Batch #: 33389

Sample: 10855-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	67.29	50.00	135	53-159	
Bromofluorobenzene	48.57	50.00	97	30-186	
Toluene-d8	50.40	50.00	101	83-136	

Lab Batch #: 33389

Sample: 10855-002 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	59.10	50.00	118	53-159	
Bromofluorobenzene	52.75	50.00	106	30-186	
Toluene-d8	56.61	50.00	113	83-136	

Lab Batch #: 33389

Sample: 10855-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	74.44	50.00	149	53-159	
Bromofluorobenzene	54.23	50.00	108	30-186	
Toluene-d8	55.46	50.00	111	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking / Ulmer, SC

Report Date: 09/14/06 15:47

Project ID: C-05-05-032

Work Order #: 10855

Lab Batch #: 33389

Sample: 10855-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	64.36	50.00	129	53-159	
Bromofluorobenzene	52.93	50.00	106	30-186	
Toluene-d8	55.66	50.00	111	83-136	

Lab Batch #: 33389

Sample: 30772 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	58.56	50.00	117	65-125	
Bromofluorobenzene	51.95	50.00	104	66-148	
Toluene-d8	54.51	50.00	109	86-127	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



07-SEP-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiould

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10807  
Project Name :Interstate Trucking  
Project Number: 05-05-032

Dear Joe Ghiould :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46011 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

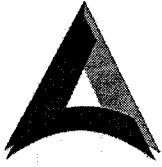
The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46011 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

David Fuller  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

***Case Narrative***

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***AAL Work Order # 10807***

**Client Project: Interstate Trucking / 05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, 1 analytical results page, and 1 QC surrogate recovery page.

The following items were noted concerning this work order:

**Select VOCs by SW8260B Notations:**

1. The Matrix Spike Duplicate recoveries for Benzene and Toluene and The Relative Percent Differences (RPDs) between the Matrix Spike and Matrix Spike Duplicate (MS/MSD) for all analytes in this submittal were outside the laboratory control limits possibly due to sample heterogeneity. The Laboratory Blank Spike sample recoveries were within the acceptable limits; therefore the data satisfies the method requirements. (Note: the sample used for MS/MSD was not from this submittal.)

Gary Blackmon

VOC Analyst

August 31, 2006

Date

**Project Manager's Notations:**

1. The soil sample results are reported on a wet weight basis. (No moisture correction applied)

This Case Narrative & Notations have been generated, reviewed, and edited by:

David C. Fuller

***VP - Client Services***

September 08, 2006

Date



# ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

## CHAIN OF CUSTODY

Page 46011 of 1

6017 Financial Drive, Norcross, GA 30071  
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Consultech Billing address: \_\_\_\_\_

Address: \_\_\_\_\_ P.O.# (if required): \_\_\_\_\_

Results Sent to: (Client Contact): Joe Ghield For Laboratory Use Only: \_\_\_\_\_ AAL LIMS System ID: M637

Email address: \_\_\_\_\_ QC Level: 2 2 3 4 CLP Like Receiver's Initials/Temp: \_\_\_\_\_

Contact Phone #: \_\_\_\_\_ Fax#: \_\_\_\_\_ Custody Seal(s): Y N Tape AAL Work Order #: 10807

Project (Site) Name: Interstate Trucking Analysis Requested: \_\_\_\_\_

Project Number: 05-05-032 Preservation Code: (See below) \_\_\_\_\_ Field Comments: 10807

Sampler(s): (signature)				Sampler(s): (printed)				Analysis Requested				Field Comments:	
Line No.	Sample ID #	Sample Date / Time	Composite Grab	Matrix (See below)	Sample Location	No. of Containers							
1	GW-01	8/23/06 1015	✓			2							AAL Lab ID: <u>10807-001</u>
2	GW-02	8/23/06 1115	✓			2							
3	GW-03	8/23/06 1200	✓			2							
4	GW-04	8/23/06 1240	✓			2							
5	GW-05	8/23/06 1310	✓			2							
6	GW-06	8/23/06 1320	✓			2							
7													
8	05-05-032	8/23/06				3							Standard turn <u>10807-001</u>
9													
10													

1) Relinquished By: [Signature] Date / Time: 8/23/06 2) Received By: [Signature] Date / Time: 8/23/06 1140 Delivered by: (Circle One) Fed Ex / UPS / DHL / AAL Pickup / Hand / Other

3) Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_ 4) Received By: [Signature] Date / Time: 8/23/06 1140 Turnaround Time Requested: 100%

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)  
Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH



# Certificate of Analytical Results 10807

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: 05-05-032	Matrix: SOIL	% Moisture:
Lab Sample Id: 10807-001	Date Collected: Aug-23-06 10:30	Date Received: Aug-25-06 11:40
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5035	
Date Analyzed: Aug-30-06 14:56	Analyst: GB01	Date Prep: Aug-30-06 09:34	Tech: GB01
Seq Number: 33318			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.3	1.0	0.71	ug/kg		1
Toluene	108-88-3	1.7	1.0	0.87	ug/kg		1
Ethylbenzene	100-41-4	BRL	1.0	0.87	ug/kg		1
Xylenes, Total	1330-20-7	BRL	2.0	1.9	ug/kg		1
Naphthalene	91-20-3	BRL	5.0	0.85	ug/kg		1

Sample Id: 30719 BLK	Matrix: SOIL	% Moisture:
Lab Sample Id: 30719 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5035MOD	
Date Analyzed: Aug-30-06 12:13	Analyst: GB01	Date Prep: Aug-30-06 09:34	Tech: GB01
Seq Number: 33318			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.71	ug/kg		1
Toluene	108-88-3	BRL	1.0	0.87	ug/kg		1
Ethylbenzene	100-41-4	BRL	1.0	0.87	ug/kg		1
Xylenes, Total	1330-20-7	BRL	2.0	1.9	ug/kg		1
Naphthalene	91-20-3	BRL	5.0	0.85	ug/kg		1



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/07/06 15:27

Work Order #: 10807

Project ID: 05-05-032

Lab Batch #: 33318

Sample: 10807-001 / SMP

Batch: 1 Matrix: S

Units: ug/kg

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	49.25	50.00	99	83-136	
4-Bromofluorobenzene	55.17	50.00	110	76-161	
Toluene-d8	46.86	50.00	94	80-127	

Lab Batch #: 33318

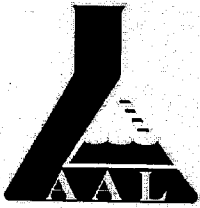
Sample: 30719 BLK / BLK

Batch: 1 Matrix: S

Units: ug/kg

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	45.89	50.00	92	63-135	
4-Bromofluorobenzene	56.10	50.00	112	79-122	
Toluene-d8	45.55	50.00	91	86-112	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



28-AUG-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiould

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10803  
Project Name :Interstate Trucking  
Project Number: 05-05-032

Dear Joe Ghiould :

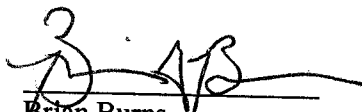
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46011 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46011 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
\_\_\_\_\_  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477





# ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

## CHAIN OF CUSTODY

Page 46011 of 1

6017 Financial Drive, Norcross, GA 30071  
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Consultech

Address: \_\_\_\_\_

Billing address: \_\_\_\_\_

Results Sent to: (Client Contact): Joe Ghield

P.O.# (if required): \_\_\_\_\_

Email address: \_\_\_\_\_

Contact Phone #: \_\_\_\_\_

Fax#: \_\_\_\_\_

Project (Site) Name: Interstate Trucking

Project Number: 05-05-032

Preservation Code: (See below)

Analysis Requested

Field Comments: 1080

Line No.	Sample ID #	Sample Date / Time	Composite		Matrix (See below)	Sample Location	No. of Containers	Analysis Requested		Field Comments
			Grab	Matrix						
1	GW-01	8/23/06 1015	✓				2	✓		
2	GW-02	8/23/06 1115	✓				2	✓		
3	GW-03	8/23/06 1200	✓				2	✓		
4	GW-04	8/23/06 1240	✓				2	✓		
5	GW-05	8/23/06 1310	✓				2	✓		
6	GW-06	8/23/06 1330	✓				2	✓		
7										
8	05-05-032	8/23/06					3			
9										Standard turn
10										

Relinquished By: [Signature] Date / Time: 8/23/06

2) Received By: [Signature] Date / Time: 8/25/06 1140

Delivered by: (Circle One)  
Fed Ex / UPS / DHL / AAL Pickup / Hand / Other

Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_

4) Received By: [Signature] Date / Time: 8/25/06 1140

Turnaround Time Requested:  
100% RUSH

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)  
Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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*AAL Work Order # 10803*

**Client Project: Interstate Trucking / 05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, 3 analytical results pages, and 3 QC surrogate recovery pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. Upon receipt, air bubbles greater than ¼ inch were noted in all vials submitted for GW-01.

Dawn Sengsourichanh

Receiving

August 25, 2006

Date

**Select VOCs by SW8260B Notations:**

1. The pH of each sample was <2.0 prior to analysis.


Mei Liang

Mei Liang

August 28, 2006

Date

These Case Narrative Notations have been generated, reviewed, and edited by:

  
Brian Burns  
Client Services

August 28, 2006

Date



# Certificate of Analytical Results 10803

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking

Sample Id: <b>GW-01</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-001</b>	Date Collected: <b>Aug-22-06 10:15</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

<b>Analytical Method: Select VOCs by SW8260B</b>	<b>Prep Method: SW5030B</b>		
Date Analyzed: <b>Aug-25-06 13:02</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Aug-25-06 08:30</b>	Tech: <b>MJL01</b>
Seq Number: <b>33255</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.4	1.0	0.30	ug/L		1
Toluene	108-88-3	14	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	2.1	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	11	1.0	0.74	ug/L		1

Sample Id: <b>GW-02</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-002</b>	Date Collected: <b>Aug-22-06 11:15</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

<b>Analytical Method: Select VOCs by SW8260B</b>	<b>Prep Method: SW5030B</b>		
Date Analyzed: <b>Aug-25-06 13:29</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Aug-25-06 08:30</b>	Tech: <b>MJL01</b>
Seq Number: <b>33255</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	2.5	1.0	0.30	ug/L		1
Toluene	108-88-3	19	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	2.7	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	13	1.0	0.74	ug/L		1

Sample Id: <b>GW-03</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-003</b>	Date Collected: <b>Aug-22-06 12:00</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

<b>Analytical Method: Select VOCs by SW8260B</b>	<b>Prep Method: SW5030B</b>		
Date Analyzed: <b>Aug-25-06 13:55</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Aug-25-06 08:30</b>	Tech: <b>MJL01</b>
Seq Number: <b>33255</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.8	1.0	0.30	ug/L		1
Toluene	108-88-3	16	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	2.5	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	13	1.0	0.74	ug/L		1

\*



# Certificate of Analytical Results 10803

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: <b>GW-04</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-004</b>	Date Collected: <b>Aug-22-06 12:40</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

<b>Analytical Method: Select VOCs by SW8260B</b>	<b>Prep Method: SW5030B</b>
Date Analyzed: <b>Aug-25-06 14:22</b>	Analyst: <b>MJL01</b>
Seq Number: <b>33255</b>	Date Prep: <b>Aug-25-06 08:30</b>
	Tech: <b>MJL01</b>

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	150	10	3.0	ug/L		10
Toluene	108-88-3	2900	100	25	ug/L		100
Ethylbenzene	100-41-4	340	10	1.9	ug/L		10
Xylenes, Total	1330-20-7	1500	10	7.4	ug/L		10

Sample Id: <b>GW-05</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-005</b>	Date Collected: <b>Aug-22-06 13:10</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

<b>Analytical Method: Select VOCs by SW8260B</b>	<b>Prep Method: SW5030B</b>
Date Analyzed: <b>Aug-28-06 09:53</b>	Analyst: <b>MJL01</b>
Seq Number: <b>33264</b>	Date Prep: <b>Aug-28-06 07:00</b>
	Tech: <b>MJL01</b>

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.30	ug/L		1
Toluene	108-88-3	7.6	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	1.2	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	5.1	1.0	0.74	ug/L		1

Sample Id: <b>GW-06</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-006</b>	Date Collected: <b>Aug-22-06 13:30</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

<b>Analytical Method: Select VOCs by SW8260B</b>	<b>Prep Method: SW5030B</b>
Date Analyzed: <b>Aug-25-06 15:15</b>	Analyst: <b>MJL01</b>
Seq Number: <b>33255</b>	Date Prep: <b>Aug-25-06 08:30</b>
	Tech: <b>MJL01</b>

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.30	ug/L		1
Toluene	108-88-3	2.5	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	0.74	ug/L		1

\*



# Certificate of Analytical Results 10803

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: 30677 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30677 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Aug-25-06 10:59	Analyst: MJL01	Date Prep: Aug-25-06 08:30	Tech: MJL01
Seq Number: 33255			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.30	ug/L		1
Toluene	108-88-3	BRL	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	0.74	ug/L		1

Sample Id: 30682 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30682 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Aug-28-06 09:16	Analyst: MJL01	Date Prep: Aug-28-06 07:00	Tech: MJL01
Seq Number: 33264			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.30	ug/L		1
Toluene	108-88-3	BRL	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	0.74	ug/L		1

\*

# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 08/28/06 17:26

Project ID: 05-05-032

Work Order #: 10803

Lab Batch #: 33255

Sample: 10803-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	54.7	50.0	109	53-159	
Bromofluorobenzene	51.5	50.0	103	30-186	
Toluene-d8	58.9	50.0	118	53-152	

Lab Batch #: 33255

Sample: 10803-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	57.0	50.0	114	53-159	
Bromofluorobenzene	51.8	50.0	104	30-186	
Toluene-d8	58.1	50.0	116	53-152	

Lab Batch #: 33255

Sample: 10803-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	62.3	50.0	125	53-159	
Bromofluorobenzene	55.4	50.0	111	30-186	
Toluene-d8	59.0	50.0	118	53-152	

Lab Batch #: 33255

Sample: 10803-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	65.1	50.0	130	53-159	
Bromofluorobenzene	52.2	50.0	104	30-186	
Toluene-d8	55.3	50.0	111	53-152	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 08/28/06 17:26

Project ID: 05-05-032

Work Order #: 10803

Lab Batch #: 33255

Sample: 10803-006 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	56.5	50.0	113	53-159	
Bromofluorobenzene	51.5	50.0	103	30-186	
Toluene-d8	56.8	50.0	114	53-152	

Lab Batch #: 33255

Sample: 30677 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	54.4	50.0	109	49-146	
Bromofluorobenzene	50.9	50.0	102	77-117	
Toluene-d8	58.4	50.0	117	71-133	

Lab Batch #: 33264

Sample: 10803-004 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	56.7	50.0	113	53-159	
Bromofluorobenzene	51.9	50.0	104	30-186	
Toluene-d8	55.9	50.0	112	53-152	

Lab Batch #: 33264

Sample: 10803-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	54.5	50.0	109	53-159	
Bromofluorobenzene	51.0	50.0	102	30-186	
Toluene-d8	56.2	50.0	112	53-152	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 08/28/06 17:26

Project ID: 05-05-032

Work Order #: 10803

Lab Batch #: 33264

Sample: 30682 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	53.7	50.0	107	49-146	
Bromofluorobenzene	48.6	50.0	97	77-117	
Toluene-d8	53.5	50.0	107	71-133	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

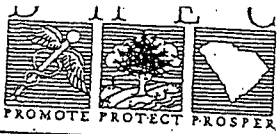
Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



**APPENDIX 5**  
**FIELD DATA**



Summary of Slug Test  
Division of Underground Storage Tank Management

Site Data

UST Permit #: 332 County: ALLENDALE  
Facility Name: INTERSTATE TRUCK RENTAL

Slug Data

See Appendix 7 Table \_\_\_\_\_ Figure \_\_\_\_\_ for a list of all data measurements. [water level logs, etc. (complete as appropriate)].

Water Level Recovery Data was measured by WATER LEVEL INDICATOR  
[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	MW-2	MW-3	MW-5R
Initial Rise/Drawdown in Well (feet)	1.31	.06	.61
Radius of Well Casing (feet)	.083		
Effective Radius of Well (feet)	.1666		
Static Saturated Aquifer Thickness (feet)	3.91	5.86	3.81
Length of Well Screen (feet)	10	10	10
Static Height of Water Column in Well (ft)	3.91	5.86	3.81

Calculations

See Appendix 7 Table \_\_\_\_\_ Figure \_\_\_\_\_ for calculations (complete as appropriate).

The method for aquifer calculations was BOWSER-RICE (i.e. Bouwer-Rice, Cooper, etc.).

Calculated values by well were as follows:

Slug Test Conducted in Well(s) Number	MW-2	MW-3	MW-5R
Hydraulic Conductivity <u>FT/DAY</u>	14.66	21.76	25.06

Thickness of the aquifer used to calculate hydraulic conductivity was \_\_\_\_\_ feet.

The aquifer is \_\_\_\_\_ confined  semi-confined \_\_\_\_\_ water table (check as appropriate).

The estimated seepage velocity is 274 feet per year based on

a hydraulic conductivity of 20.49'/d., a hydraulic gradient of .011'/ft, and

a porosity of .30 percent for SANDY soil (list type i.e., silty sand, clay, etc).

14.66ft/day MW-2  
21.76ft/day MW-3  
25.06ft/day MW-5R

---

$$61.48 \text{ ft/day} / 3 = 20.49 \text{ ft/day}$$

---

$$73.85 \text{ ft} - 72.87 \text{ ft} / 90 \text{ ft} = .98 / 90 = .011 \text{ ft/ft}$$

---

$$20.49 \text{ ft/day} \times .011 \text{ ft/ft} / .30 =$$

.75 ft/day or 274 ft/year

MW-3

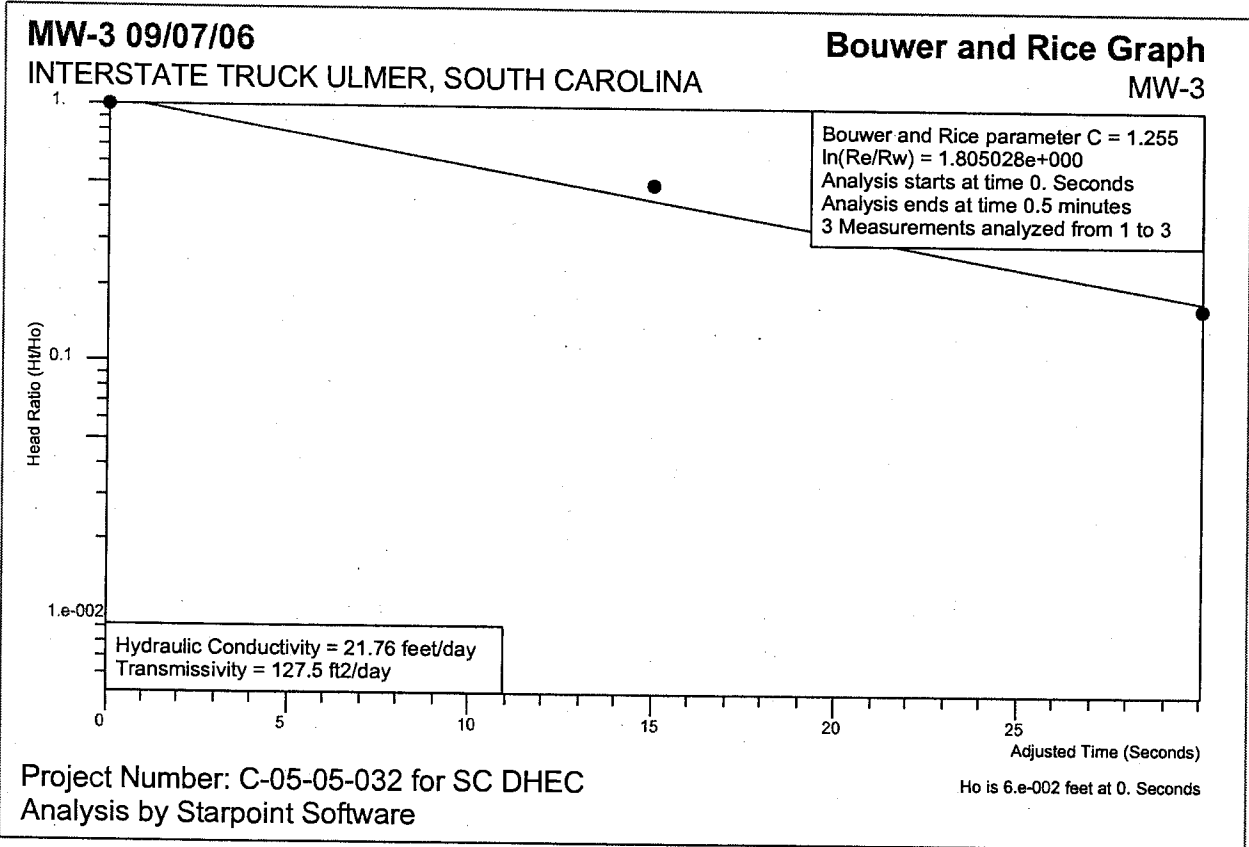
29.14  
.25 29.20  
.5 29.17  
.75 29.15  
1.0 29.14

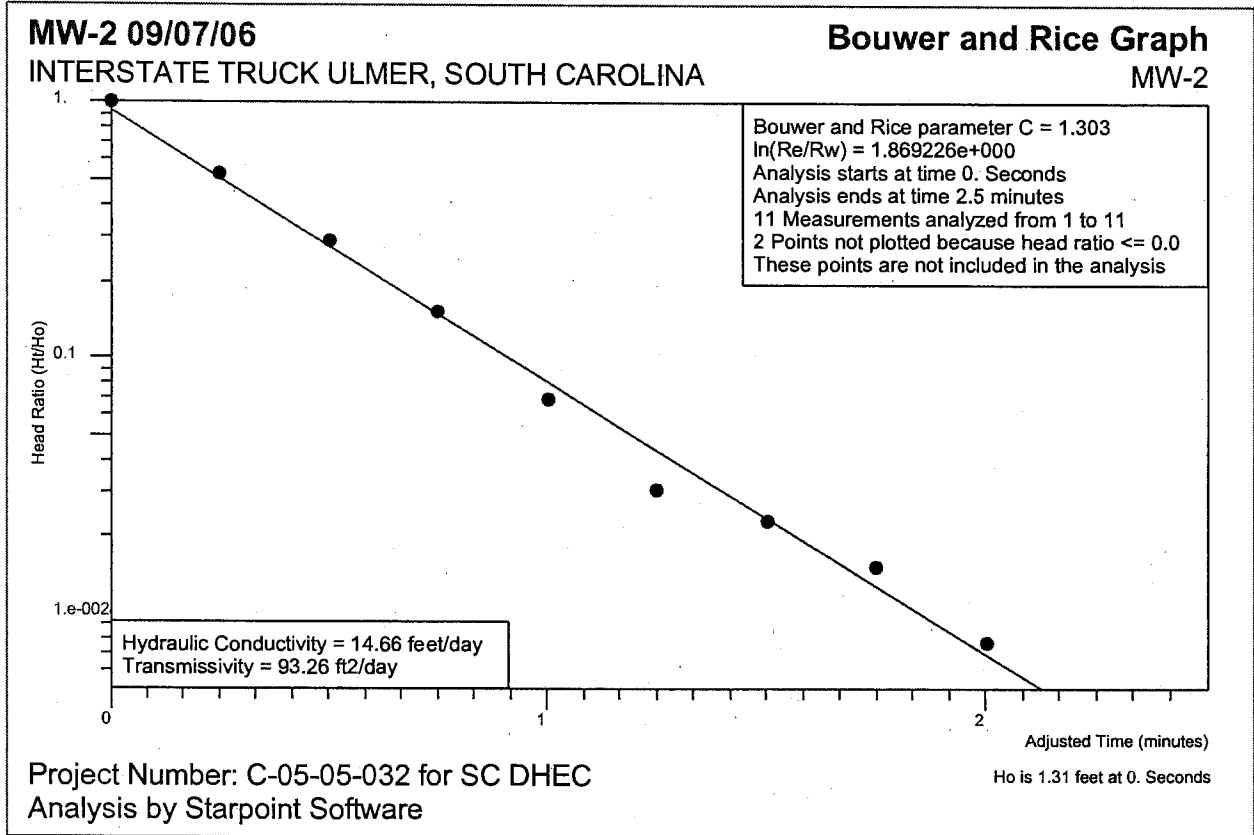
MW-5R

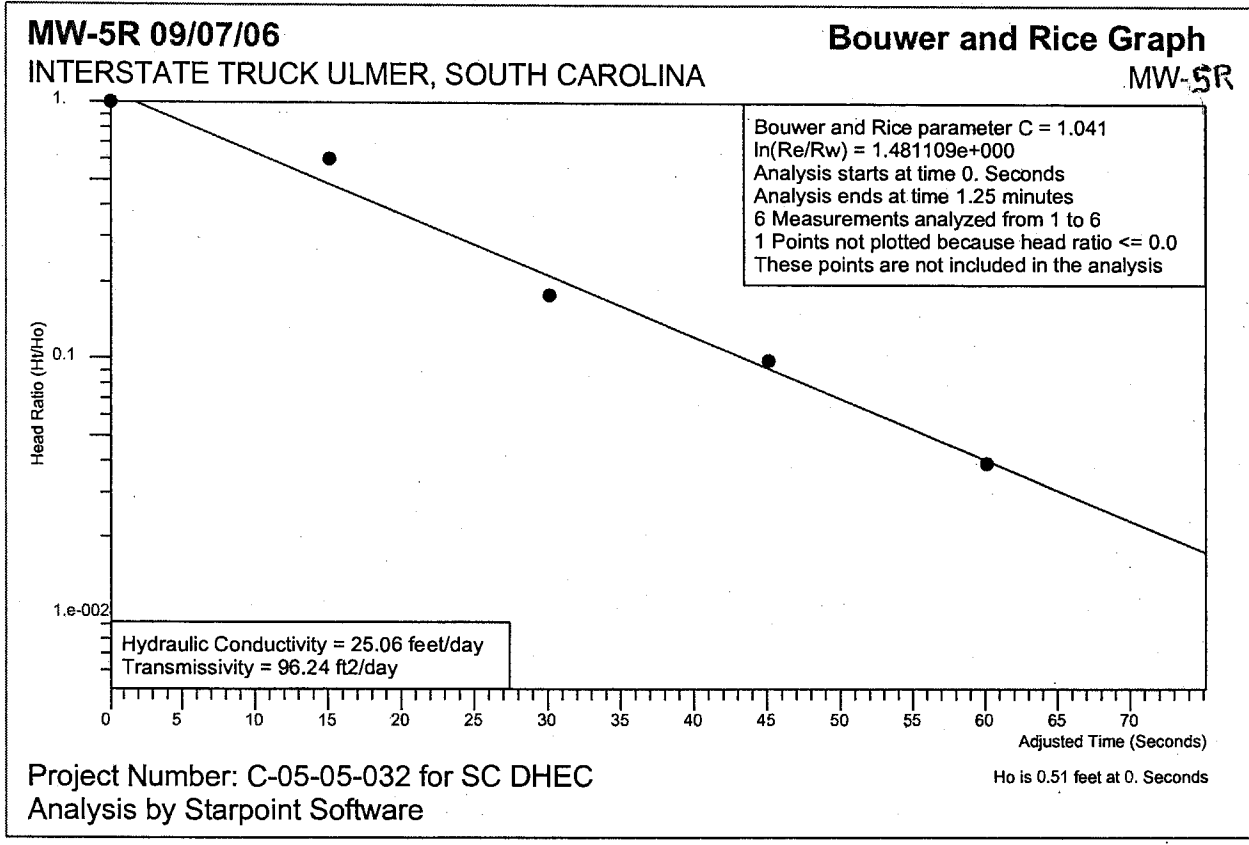
31.19  
.25 31.7  
.5 31.5  
.75 31.28  
1.0 31.24  
1.25 31.21  
1.5 31.19

MW-2

31.09  
.25 32.40  
.5 31.78  
.75 31.47  
1.0 31.29  
1.25 31.18  
1.5 31.31  
1.75 31.12  
2.0 31.11  
2.25 31.1







**APPENDIX 6**  
**SURVEY PLAT**



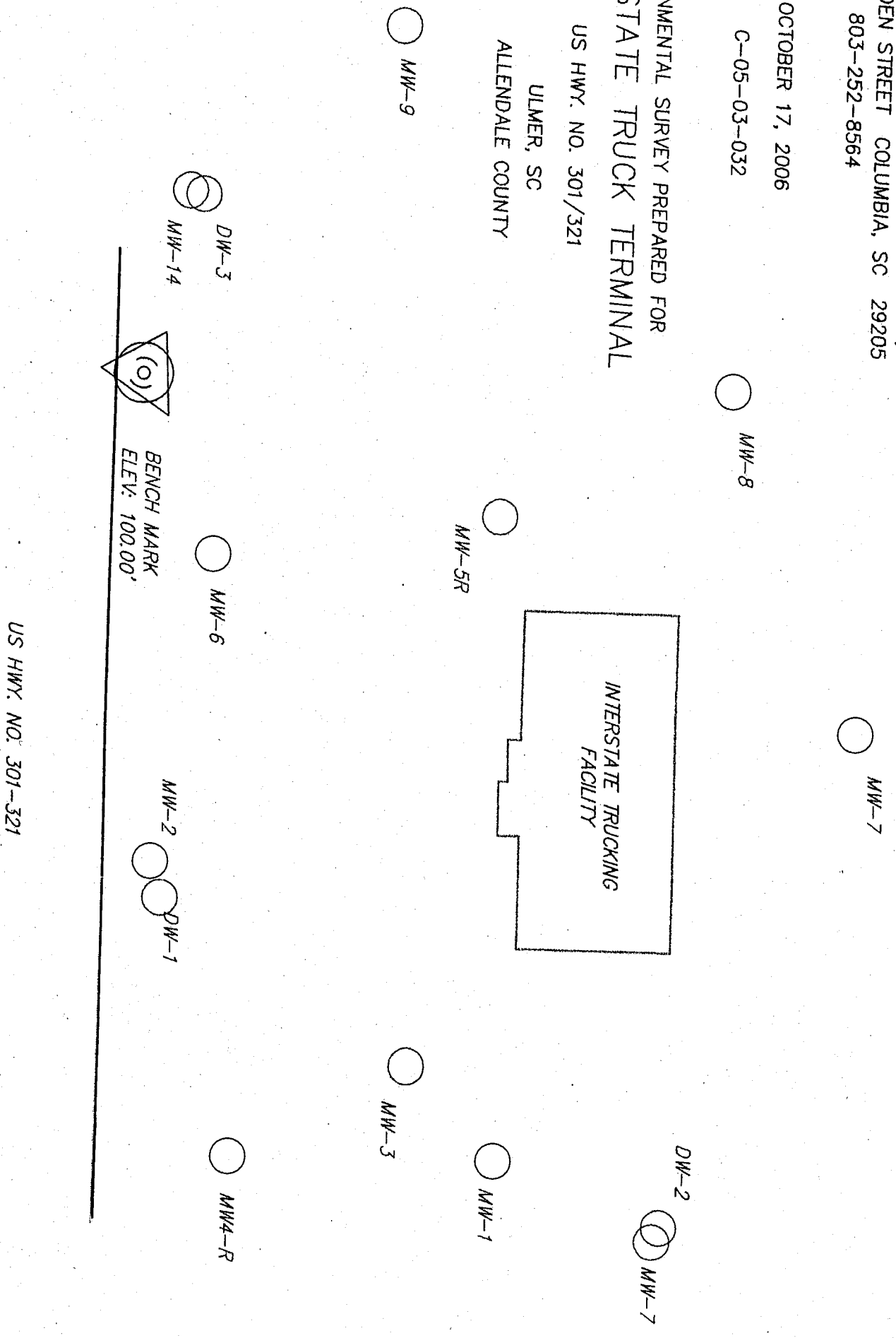
BAXTER LAND SURVEYING CO., INC.  
 533 HARDEN STREET COLUMBIA, SC 29205  
 803-252-8564

OCTOBER 17, 2006

C-05-03-032

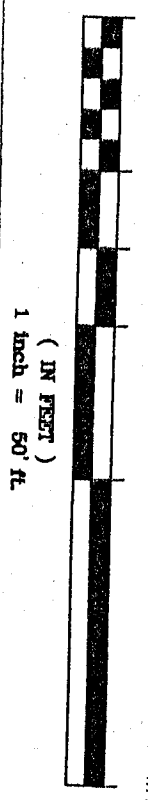
ENVIRONMENTAL SURVEY PREPARED FOR  
 INTERSTATE TRUCK TERMINAL

US HWY. NO. 301/321  
 ULMER, SC  
 ALLENDALE COUNTY



MW #	TOP OF CASING
DW 1	102.22'
DW 2	102.59'
DW 3	99.53'
DW 4	99.86'
MW 1	103.24'
MW 2	102.49'
MW 3	103.46'
MW 4R	101.87'
MW 5R	103.94'
MW 6	101.38'
MW 7	104.36'
MW 8	102.76'
MW 9	99.67'
MW 10	102.33'
MW 11	100.40'
MW 12	99.29'
MW 13	99.71'
MW 14	99.32'

GRAPHIC SCALE



US HWY. NO. 301-321

BENCH MARK  
 ELEV: 100.00'

*Ross W. Baxter Jr.*  
 ROSSER W. BAXTER JR. SCPLS NO. 7613



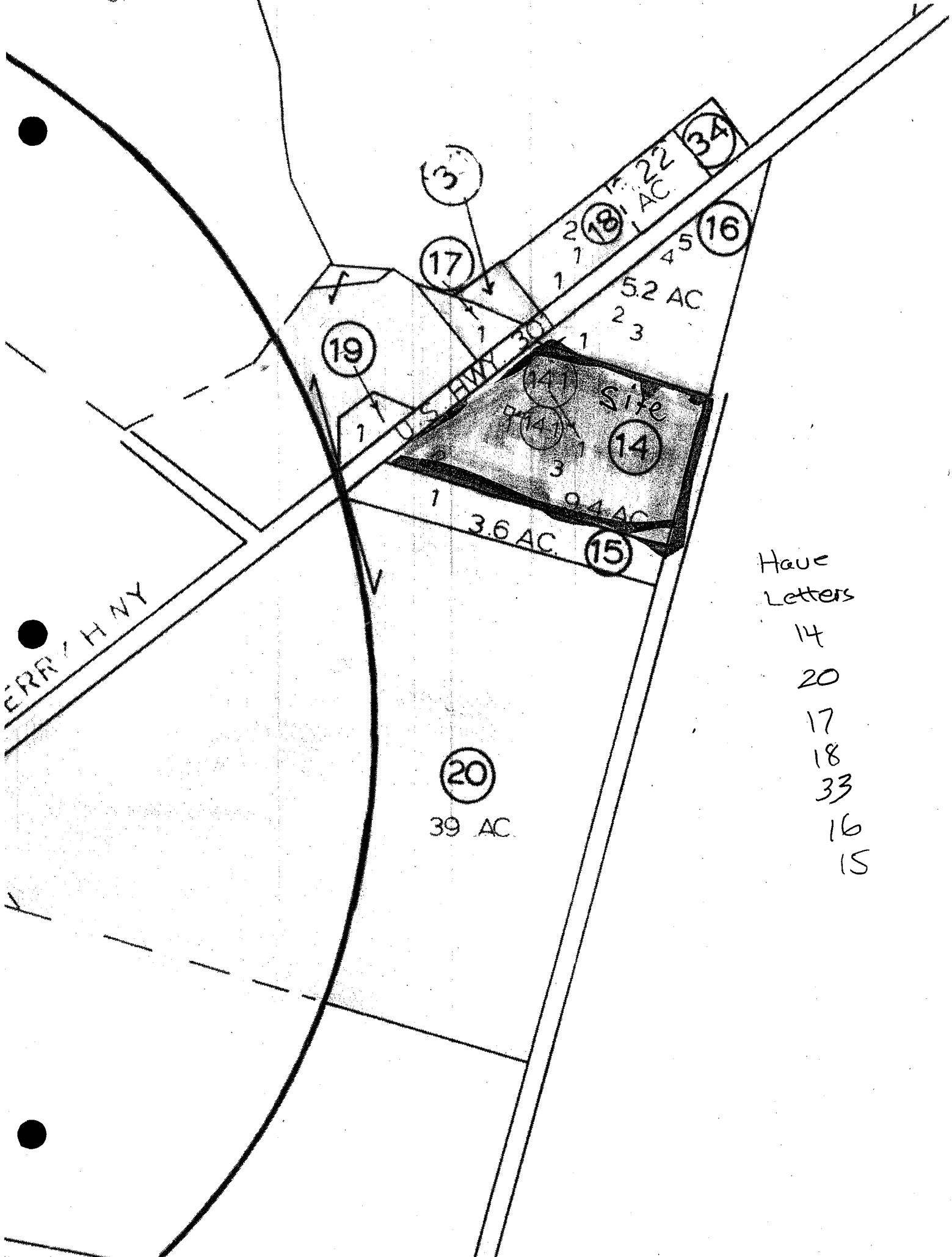
**APPENDIX 7**  
**TAX MAP AND SURROUNDING**  
**PROPERTY OWNERS**

**Adjacent Property Owners**  
**Interstate truck Terminal UST #332**  
**Allendale County**

Tax map and parcel #  
**SITE**

Owner name and address

131-14	Mr. Julius Moody Rte. 3 Box 192B, Bamberg, 29003
131-15	803-245-4470
131-17	Carlyle Moody 1375 Capernaum Rd. Bamberg
131-33	Francessa Maracle PO Box 6 Ulmer 29849
131-19	Mary Anne Johnson 155 Bird Dog Rd. Ehrardt
131-20	Town of Ulmer PO Box 128 Ulmer 29849
	Same as above
	Hector F. Avelar PO Box 1907 Hardeeville 29927
	Wilma M. McCain 101 Lake Margaret Dr. Denmark, SC 29042



Have  
Letters  
14  
20  
17  
18  
33  
16  
15



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, Frances Maracle, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-015 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans  
Company Representative

8-23-05  
Date

Consultech Environmental, Inc.  
Telephone Number (678) 377-0400  
Fax Number (678) 377-0051  
C-32

Agreed and Consented to giving access:

Frances Maracle  
Property Owner's Signature

Frances Maracle  
Printed Name

Access Denied:

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, Carlyle Moody, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-014 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Casey Evans  
 Company Representative  
8-23-05  
 Date

**Consultech Environmental, Inc.**  
 Telephone Number (678) 377-0400  
 Fax Number (678) 377-0051  
 C-033

**Agreed and Consented to giving access:**  
W.E. Myrick Jr. Esq.  
 Property Owner's Signature  
 William E. Myrick, Jr. Agent for  
 Carlyle Moody

Printed Name

**Access Denied:**

\_\_\_\_\_  
 Property Owner's Signature

\_\_\_\_\_  
 Printed Name

**RIGHT OF ENTRY AND PERMISSION FORM  
UNDERGROUND STORAGE TANK AND PROPERTY OWNER**

Interstate Truck Terminal, Highways 301 & 321, Ulmer, SC, Allendale County, UST Permit # 00332

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, JULIUS MOODY, certify that I am the legal owner of the underground storage tanks and property located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (SCDHEC) or its contractors to enter this property at reasonable times only to accomplish site assessment and liquid removal activities. I understand that SCDHEC will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of the results of each activity.

Name of Facility INTERSTATE TRUCK TERMINAL Phone # N/A

Street Address of Facility HIGHWAYS 301 and 321

Town, City, District, Suburb ULMER, SOUTH CAROLINA

Name of nearest intersecting street, road, highway, alley  
301 North

Is this facility within the city limits? (yes or no) YES

Does a public water or sewer utility service this facility? (yes or no) \_\_\_\_\_ If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines.  
phone number \_\_\_\_\_

Were underground storage tanks previously removed from the ground at this facility? (yes or no) NO  
If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation  
Phone number \_\_\_\_\_

Is the property currently leased or rented to someone? (yes or no) no If yes, please provide their name \_\_\_\_\_ and phone number \_\_\_\_\_ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before assessment activities begin.

NAME of UST/property owner (Please Print): JULIUS MOODY

Contact Person: William E. Myrick, Jr.

Phone Number (home) (803)584-4333 (work) NOT WORKING

Signature of UST/property Owner: Julius Moody

Witness: W E Myrick Jr. Esq.

Date: May Month 15th Day 2002 Year



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consulatech Environmental, Inc. (Consulatech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-017, 131-00-00-018, 131-00-00-033 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consulatech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consulatech making reasonable restoration to the property resulting from Consulatech's activities on the property.

Carey Evans  
Company Representative

8-23-05  
Date

**Consulatech Environmental, Inc.**  
Telephone Number (678) 377-0400  
Fax Number (678) 377-0051  
C-033

**Agreed and Consented to giving access:**

[Signature]  
Property Owner's Signature

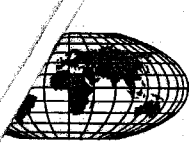
J. Fleetwood Stokes, Jr.  
Printed Name

**Access Denied:**

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name





# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, Mary A. Brown Jones, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-016 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans  
 Company Representative  
8-23-05  
 Date

**Consultech Environmental, Inc.**  
 Telephone Number (678) 377-0400  
 Fax Number (678) 377-0051  
 C-033

**Agreed and Consented to giving access:**  
Mary A. Brown Jones  
 Property Owner's Signature  
Mary A. Brown Jones  
 Printed Name

**Access Denied:**  
 \_\_\_\_\_  
 Property Owner's Signature  
 \_\_\_\_\_  
 Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I Sandra A. McElveen hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assign the right to enter upon the property located 6972 Salem Rd. for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- > Drilling of soil test boring(s);
- > Installation of groundwater monitoring well(s);
- > Measuring depth to groundwater, about once every three months;
- > Collection of groundwater samples, about once every three months; or
- > Maintenance of the monitoring well(s).

Access to the monitoring well(s) will be needed for a time period not likely to exceed three to five years after well installation is completed. The property owner will be notified at least 48 hour in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Company Representative

8/11/06  
Date

Consultech Environmental, Inc.  
Telephone Number (919) 861-4319  
Fax Number (919) 858-5351

Agreed and Consented to giving access:

Sandra A. McElveen  
Property Owner's Signature

Sandra A. McElveen  
Printed Name

843-659-4806  
Jennifer M. Johnson  
Post Office  
843-659-4616

Access Denied:

Property Owner's Signature

Printed Name

Property directly in front of site across Salem Rd.

530 Pylon Drive • Raleigh, North Carolina 27606  
(919) 861-4319 • FAX (919) 858-5351



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_ hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assign the right to enter upon the property located \_\_\_\_\_ for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well(s) will be needed for a time period not likely to exceed three to five years after well installation is completed. The property owner will be notified at least 48 hour in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.  
This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

\_\_\_\_\_  
Company Representative  
  
\_\_\_\_\_  
Date

Agreed and Consented to giving access:  
  
\*Charlotte McGee  
Property Owner's Signature  
  
\*Charlotte McGee  
Printed Name

*talked to store owner gave yong k. permission sign for*

Consultech Environmental, Inc.  
Telephone Number (919) 861-4319  
Fax Number (919) 858-5351

Access Denied:

*C.  
across old Manning Rd*

\_\_\_\_\_  
Property Owner's Signature



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_ hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assign the right to enter upon the property located: \_\_\_\_\_ for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well(s) will be needed for a time period not likely to exceed three to five years after well installation is completed. The property owner will be notified at least 48 hour in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Company Representative

8/18/06  
Date

Consultech Environmental, Inc.  
Telephone Number (919) 861-4319  
Fax Number (919) 858-5351

C-

site  
owner

Agreed and Consented to giving access:

John E. Johnson Jr  
Property Owner's Signature

John E. Johnson Jr  
Printed Name

Access Denied:

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name

530 Pylon Drive \* Raleigh, North Carolina 27606  
(919) 861-4319 \* FAX (919) 858-5351



# CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

## PERMISSION TO ENTER PROPERTY

I, CRAIG FLOYD, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located VACANT LOTS ON HWY 301, for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- > Drilling of soil test boring(s);
- > Installation of groundwater monitoring well(s);
- > Measuring depth to groundwater, about once every three months;
- > Collection of groundwater samples, about once every three months; or
- > Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Kurtz Curtis  
Company Representative

2-18-05  
Date

Consultech Environmental, Inc.  
Telephone Number (678) 377-0400  
Fax Number (678) 377-0051

Agreed and Consented to giving access:

[Signature]  
Property Owner's Signature

Craig Floyd  
Printed Name

Access Denied:

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-020 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans  
Company Representative

8-23-05  
Date

**Consultech Environmental, Inc.**  
Telephone Number (678) 377-0400  
Fax Number (678) 377-0051  
C-033

**Agreed and Consented to giving access:**

Wilma M. McCain  
Property Owner's Signature

Wilma M. McCain  
Printed Name

**Access Denied:**

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name

March 27, 2012

Ms. Cathleen Ridgley, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: QAPP Contractor Addendum – Revision 0  
Interstate Truck Stop  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 12-3888  
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Ridgley,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached QAPP Contractor Addendum for the referenced site.

On March 27, 2012, MECI personnel performed a site visit to the subject site to evaluate site conditions, attempt to locate monitoring wells and identify potential problems for future assessment activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

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

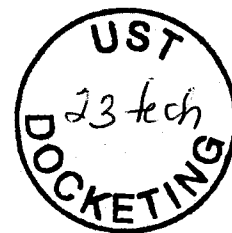
Courtney M. Sanders  
Staff Biologist

Jeff L. Coleman  
Senior Scientist



Catherine B. Templeton, Director

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



APR 23 2012

BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071-0854

Re: Notice to Proceed for MW Installation/QAPP Contractor Addendum Approval  
Solicitation # 5400003229, PO# 4600117789  
Interstate Truck Stop, Hwy 301 & 321, Ulmer, SC  
UST Permit #00332; CA#43398  
QAPP Contractor Addendum received March 28, 2012  
Allendale County

Dear Mr. Shane:

In accordance with the referenced bid solicitation # IFB-5400003229 the UST Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Contractor Addendum has been reviewed and approved. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken and the results must be included in the final report submitted to the UST Management Division.

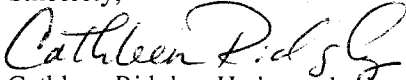
**A report, contractor verification checklist and invoice are due sixty (60) days from the date of this letter.** Please note that all applicable South Carolina certification requirements regarding laboratory analyses, well installation, and report preparation must be met in accordance with the referenced solicitation. The final report should contain the requirements of Section 3.10 (IGWA), 3.11 (Tier I) or 3.12 (Well Installation) of the bid solicitation. The final report should be submitted to Chris Doll, the contract manager.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. The Department grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.



If you have any site-specific questions, please contact me at (803) 896-6633 or via e-mail at [ridglect@dhec.sc.gov](mailto:ridglect@dhec.sc.gov). If you have any contract specific questions, please contact Minda Hornosky at (803) 896-6395 or via e-mail at [hornosmj@dhec.sc.gov](mailto:hornosmj@dhec.sc.gov).

Sincerely,



Cathleen Ridgley, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved QAPP Contractor Addendum Signature Page  
Approved Cost Agreement

cc: Minda Johnson, Assessment Section, UST Management Division (without enc)  
Technical File (with enc)



**UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-896-6240**

**MEMORANDUM**

TO: Bryan Shane, Midlands Environmental Consultants, Inc.

FROM: Cathleen Ridgley

RE: Notice to Proceed

Facility Name: Interstate Truck Stop

Permit Number: 00332

County: Allendale

Work To Be Completed: Conduct a comprehensive survey for an accurate map. Sample all monitoring wells and the water supply well for BTEX, naphthalene, MtBE, 1,2-DCA, the oxygenates, ethanol, and EDB.

CA# 43398

**Section A: Project Management**

**A1 Title and Approval Page**

Quality Assurance Project Plan  
Addendum to the SC DHEC UST Programmatic QAPP  
For  
Interstate Truck Stop, SCDHEC Site ID# 00332

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Socahatchee Cemetery Road & Highway 321, Ulmer, South Carolina

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Prepared by:  
Courtney M. Sanders  
Staff Biologist  
Midlands Environmental Consultants, Inc.  
(Certified Site Rehabilitation Contractor UCC-0009)  
235-B Dooley Road  
Lexington, SC 29073  
(803)808-2043

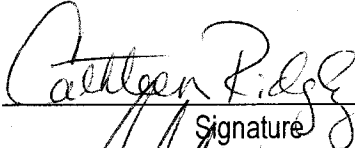
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Date: March 27, 2012

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Approvals

Cathleen Ridgley  
SC DHEC Project Manager

  
Signature


Date 4/16/12

Brendon P. Kelly  
Contractor QA Manager

  
Signature


Date 3/27/12

Bryan T. Shane, P.G.  
Site Rehabilitation Contractor

  
Signature

Date 3-27-12

Michael Woodrum  
Laboratory Director

  
Signature

Date 03/27/2012

# Approved Cost Agreement 43398

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

RIDGLECT

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		C TIER II/COMP. PLAN/QAPP APP B	1.0000	100.00	100.00
03 COMPREHENSIVE SURVEY		COMPREHENSIVE SURVEY	1.0000	1,000.00	1,000.00
04 MOB/DEMOB		B PERSONNEL	3.0000	100.00	300.00
10 SAMPLE COLLECTION		A GROUND WATER	6.0000	5.00	30.00
		C WATER SUPPLY	1.0000	5.00	5.00
		D GROUNDWATER NO-PURGE	25.0000	5.00	125.00
11 ANALYSES	GW GROUNDWATER	A1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	33.0000	48.00	1,584.00
		F EDB	32.0000	25.00	800.00
17 DISPOSAL		A WASTEWATER	110.0000	0.30	33.00
<b>Total Amount</b>					<b>3,977.00</b>

 **Midlands  
Environmental  
Consultants, Inc.**

June 5, 2012

Ms. Cathleen Ridgley, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



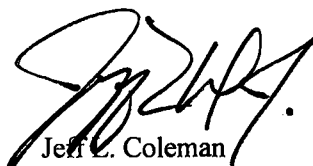
Subject: Report of Groundwater Sampling, Chemical Analyses,  
and Comprehensive Survey  
Interstate Truck Stop  
U.S. Highway 301 & S-3-190  
Ulmer, South Carolina  
SCDHEC Site ID# 00332, CA # 43398  
MECI Project Number 12-3888  
Certified Site Rehabilitation Contractor UCC-0009

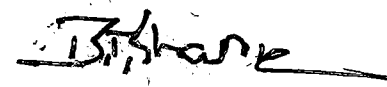
Dear Ms. Ridgley,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling, Chemical Analyses, and Comprehensive Survey for the referenced site. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

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

  
Jeff C. Coleman  
Senior Scientist

  
Bryan T. Shane, P.G.  
Principal Geologist

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**NOTE: ITEMS LISTED WITH AN \*\* BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK**

## 1.0 INTRODUCTION

### A. Owner/Operator Information

Facility Name: Interstate Truck Stop UST Permit #: 00332  
Facility Address: U.S. Hwy. 301 & S-3-190, Ulmer, SC  
Name: Julius Moody  
Address: 1375 Capernaum Road, Bamberg, SC 29003  
Telephone #: 803-584-4333 (Contact: William E. Myrick, Jr.)

### B. Property Owner Information

Name: Carlyle Moody  
Tax Map #: Allendale Co. Tax Map#: 131-00-00-014  
Address: 1375 Capernaum Road, Bamberg, SC 29003  
Telephone #: 803-584-4333 (Contact: William E. Myrick, Jr.)

### C. Contractor Information

Name: Midlands Environmental Consultants, Inc.  
Certification #: 9  
Address: P. O. Box 854, Lexington, SC 29071  
Telephone #: (803) 808-2043

### D. SCDHEC Certified Well Driller

Name: N/A  
Driller: N/A  
Certification #: N/A  
Address: N/A  
Telephone #: N/A

### E. SCDHEC Certified Laboratory

Name: Shealy Environmental Services, Inc.  
Certification #: 32010  
Address: 106 Vantage Point Drive, West Columbia, SC 29172  
Telephone #: (803) 791-9700

## 1.1 QAPP STATEMENT

This report conforms to the SCDHEC UST Management Division Programmatic QAPP. The Report, Tables (Table 1-Soil Analytical Data, Table 2-Field Parameters, Table 3-Groundwater Analytical Results, Table 4-Aquifer Characteristics, and Table 5-Site Conceptual Model), Figures (Figure 1-Topographic Map, Figure 2-Site Features, Figure 3-Soil CoC Site Map, Figure 4-Groundwater CoC Site Map, Figure 5-Groundwater Contour Map, and Figure 6-Geologic Cross Section), and Appendices are presented in accordance with formatting requirements set forth in section A9 of the UST Management Division Programmatic QAPP, Revision 1, June 2011. Some or all of the tables and figures in this report were not applicable to the scope of services presented, however have been included in order to conform to the SCDHEC UST Management Division Programmatic QAPP.



## 1.2 PROJECT INFORMATION

The subject site (Interstate Truck Stop) is located at the intersection of U.S. Highway 301 (Buford's Bridge Highway) & State Road S-3-190 (Socahatchee Cemetery Road), Ulmer, Allendale County, South Carolina. The subject site currently maintains two 8,000 gallon diesel underground storage tanks (UST's), one 8,000 gallon gasoline UST, one 6,000 gallon diesel UST, two 6,000 gallon gasoline UST's, and three 4,000 gallon diesel USTs. These UST's are still located on the subject property, but the tank status is rendered unusable (RNU). A release of petroleum product from the subject UST's was reported in June of 2002 and confirmed in October of 2002. The subject site is currently rated a Class 2BB.

Prior to commencement of the field activities described in this document, a QAPP Contractors Addendum was completed by MECI personnel, submitted to SCDHEC and approved by the SCDHEC project manager.

To obtain current analytical results and to produce an accurate site map, the monitoring well network was sampled by MECI personnel and a comprehensive survey was conducted by Construction Support Services of Columbia, SC (Jay S. Joshi PLS# 14811) to locate the vertical and horizontal positions of the monitoring wells and relevant structures.

The above project information is based on MECI field notes and SCDHEC files.

## 2.0 SURROUNDING PROPERTY USAGE

The subject site is located outside the town limits of Ulmer, Allendale County, South Carolina. U.S. Highway 301 (Buford's Bridge Road) borders the subject site to the west and north, beyond which are commercial properties to include a gasoline service station and wooded areas. State Road S-3-190 (Socahatchee Cemetery Road) to northeast, beyond which is an vacant commercial property. East and South of the subject property is bordered by undeveloped areas and residential properties.

## 3.0 FIELD EXPLORATION

Field exploration conducted at the site included:

- sampling and chemical analyses of the entire monitoring well network; and,
- a comprehensive survey of subject site.

## 3.1 MONITORING WELL SAMPLING AND CHEMICAL ANALYSES

On May 16, 2012, MECI personnel collected groundwater samples from the twenty-eight (28) monitoring wells at the subject site. Sampling/purging of all monitoring wells was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. Monitoring wells which did not bracket the watertable were purged prior to sample collection. Six (6) monitoring wells were purged prior to sampling. Purging was completed by bailing three to five well volumes of water from the well, until pH, conductivity, dissolved oxygen, and turbidity stabilized to within 10%, or until all available water was evacuated from the well, whichever occurred first. A new set of nitrile gloves were worn at each monitoring well, and at all times samples were handled. Field measurements of turbidity, pH, conductivity, dissolved oxygen, and water temperature were obtained

before the well sampling process. MECI utilized YSI550A meters for DO (mg/L) and temperature readings (°C), YSI63 meters for pH and conductivity (uS) readings, and a turbidity tube for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained during sampling processes. All wells were sampled in accordance with SCDHEC’s Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP, Dated June 2011) and MECI’s Standard Operating Procedures (MECI SOP, Dated February 2012). Groundwater samples obtained were sent to Shealy Environmental Services, Inc. of West Columbia, SC (SCDHEC Laboratory Certification #32010) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Monitoring Well	Purge	No Purge	Sampled Below Product BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Filtered Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 335.2)	Methane (RSK Method)	PAH's (EPA Method 8270)
			Analyte Sampled									
MW-1	X		X	X	X	X						
MW-2	X		X	X	X	X						
MW-3		X	X									
MW-4R	X		X	X	X	X						
MW-5R	X		X	X	X	X						
MW-6	X		X	X	X	X						
MW-7	X		X	X	X	X						
MW-8	X		X	X	X	X						
MW-9	X		X	X	X	X						
MW-10	X		X	X	X	X						
MW-11	X		X	X	X	X						
MW-12	X		X	X	X	X						
MW-13	X		X	X	X	X						
MW-14	X		X	X	X	X						
MW-15	X		X	X	X	X						
MW-16	X		X	X	X	X						
MW-17	X		X	X	X	X						
MW-18	X		X	X	X	X						
MW-19	X		X	X	X	X						
MW-20	X		X	X	X	X						
MW-21		X	X									
MW-22		X	X	X	X	X						
DW-1	X		X	X	X	X						

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

\*\* = Indicates Field Duplicate

Monitoring Well	Purge	No Purge	Sampled Below Product	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Filtered Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 335.2)	Methane (RSK Method)	PAH's (EPA Method 8270)
Analyte Sampled													
DW-2	X			X	X	X	X						
DW-3	X			X	X	X	X						
DW-4	X			X	X	X	X						
DW-5	X			X	X	X	X						
DW-6	X			X	X	X	X						
MW-1 (Dup.)**				X	X	X	X						
MW-4R (Dup.)**				X	X	X	X						
Field Blank				X	X	X	X						
Trip Blank				X		X	X						
Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dichloroethane PAH = polycyclic aromatic hydrocarbons ** = Indicates Field Duplicate													

The results of the laboratory analyses are summarized in Table 3 & 3A and presented in Appendix B.

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 30.5 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is presented in Appendix G.

### 3.2 WATER SUPPLY WELL SAMPLING AND CHEMICAL ANALYSES

On May 16, 2012, MECI personnel collected one (1) water supply well sample. Samples were collected from WSW-2, located approximately 470 feet southeast of MW-1. WSW-1 was unable to be sampled due to the well not being connected to power. The following matrix contains well status, owner(s), and tax map identification numbers:

Water Supply Well Number	Well Owner	Allendale County Tax Map Number:	Notes:	Well Status
WSW-1	Carlyle Moody	131-00-00-014	Unable to Sample/No Power	Inactive
WSW-2	Frances A. Maracle	131-00-00-015	Sampled, Supplies 2 Residences	Active

The samples obtained from WSW-2 were analyzed for volatile organic compounds including BTEX, naphthalene, and methyl-tertiary-butyl-ether, 1,2 DCA, 8 Oxygenates (EPA Method 8260B) and EDB (EPA Method 8011). Results of the laboratory analyses are summarized in Table 3, Table 3A, Figure 4 through 4C. The laboratory reports are also presented in Appendix B.

### 3.3 SITE SURVEY

A comprehensive survey was conducted by Construction Support Services of Columbia, SC (Jay S. Joshi PLS# 14811) dated May 10, 2012 to locate the vertical and horizontal positions of the monitoring wells and relevant structures. A signed/stamped copy of the comprehensive survey is attached in Appendix A. See Table 2 and Figure 5 for monitoring well elevation data.

### 4.0 AREA GEOLOGY AND HYDROGEOLOGY

The project site is located in the Atlantic Coastal Plain Physiographic Province. The mean elevation of the property as depicted on the local USGS quadrangle (Olar, SC) appears to be approximately 49.5 meters (162 feet) above sea level. The soils in this province are generally interbedded silts, sands and clays that have been deposited during successive advances and retreats of the ocean over the past several million years. This interbedding can cause perched water and makes hydrogeological interpretation difficult.

In this geologic setting, the uppermost aquifer is the surficial aquifer of sands with lenses and layers of clays and silts. Water occupies the interstices between the formation particles and is in hydrostatic balance with the atmosphere at the water table surface.

Local precipitation is the source of freshwater recharge to the Coastal Plain formations. Groundwater recharge varies considerably over the region and is attributed to the differences in precipitation and to the variability in the infiltration rates.

Coastal Plain formations generally dip toward the Atlantic Ocean. Consequently, regional groundwater movement is to the southeast. On a regional scale, hydraulic gradients are relatively low.

Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies. The apparent direction (based on hydraulic gradient) of groundwater flow from the release is to the northeast toward drainage features associated with the Salkehatchie River.

### 4.1 LOCAL SUBSURFACE CONDITIONS

Coastal plain sediments were encountered during previous drilling activities conducted at the site by MECI in October of 2010. The soils encountered in our borings (MW-21 & MW-22) generally consisted silty fine to medium grained sands.

On May 16, 2012, stabilized groundwater levels were measured in the monitoring wells. Depth to groundwater ranged 26.35 to 33.40 feet below top of casing in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and on Figure 5. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with change in the water level of adjacent drainage features. Normally, the highest groundwater levels occur in late winter and spring. The lowest levels occur in late summer and fall.

### 5.0 TEST RESULTS AND EVALUATION

The following sections discuss groundwater test results for the subject site.

## 5.1 GROUNDWATER ANALYTICAL RESULTS

As discussed in section 3.1, groundwater samples obtained from the monitoring well network were analyzed for dissolved phase petroleum constituents. During the May 16, 2012 groundwater sampling event, free phase petroleum product was detected in monitoring well MW-3 at a thickness of 0.55 feet and in MW-21 at a thickness of 0.02 feet. Groundwater samples were obtained beneath the free phase petroleum product layer in monitoring wells MW-3 and MW-21. The analytical results indicate petroleum impact to the local groundwater with the highest dissolved concentrations detected in the area of MW-2 and MW-14. Dissolved total BTEX concentrations were detected at levels ranging from below detection limits (BDL) to 37,930J micrograms per liter in monitoring well MW-14. Dissolved Naphthalene concentrations were detected at levels ranging from below detection limits (BDL) to 1,100 micrograms per liter in monitoring well MW-14. Dissolved MTBE concentrations were detected at levels below Risk Based Screening Levels (RBSL's) in all wells analyzed. EDB concentrations were detected above RBSL's in monitoring wells MW-2, MW-14, and MW-19. All other wells analyzed for EDB were below detection limits. The results of the laboratory analyses are summarized in Table 3 & 3A, and presented in the attached Appendix B.

## 5.2 WATER SUPPLY WELL ANALYTICAL RESULTS

The samples obtained from WSW-2 were analyzed for petroleum constituents. Analytical results from the samples obtained from WSW-2 do not indicate petroleum impact to the water supply well. The results of the analysis for each water supply well sampled and specific parameters are listed on Table 3 and 3A, and are provided in the attached laboratory reports (Appendix B).

## 6.0 ASSESSMENT SUMMARY & RECOMMENDATIONS

Based on the results of our assessment activities, it appears that impact to the surficial aquifer has occurred due to a release of petroleum hydrocarbons. The highest concentrations of dissolved phase contaminants are located near and northeast of the former dispenser islands. Impacted groundwater appears to be moving to the northeast toward drainage features associated with the Salkehatchie River.

During the May 16, 2012 groundwater sampling event, free phase petroleum product was detected in monitoring well MW-3 at a thickness of 0.55 feet and in MW-21 at a thickness of 0.02 feet. Groundwater samples were obtained beneath the free phase petroleum product layer in monitoring wells MW-3 and MW-21. The analytical results indicate petroleum impact to the local groundwater with the highest dissolved concentrations detected in the area of MW-2 and MW-14. Dissolved total BTEX concentrations were detected at levels ranging from below detection limits (BDL) to 37,930J micrograms per liter in monitoring well MW-14. Dissolved Naphthalene concentrations were detected at levels ranging from below detection limits (BDL) to 1,100 micrograms per liter in monitoring well MW-14. Dissolved MTBE concentrations were detected at levels below Risk Based Screening Levels (RBSL's) in all wells analyzed. EDB concentrations were detected above RBSL's in monitoring wells MW-2, MW-14, and MW-19. All other wells analyzed for EDB were below detection limits. Analytical data is presented on Table 3 & 3A and in the attached Appendix B. Figure 4 depicts graphically the concentrations of Total BTEX in the monitoring wells which bracket the watertable at the site. Figure 4A depicts graphically the concentrations of Naphthalene in the monitoring wells which bracket the watertable at the site. Figure 4B depicts the concentrations of Oxygenates dissolved in the groundwater at the site.

Analytical results indicate the “shallow” watertable bracketing zone at the subject site is not currently defined. Current analytical data indicate Benzene and Naphthalene concentrations above RBSL’s in MW-16 and in MW-19. Given the locations of the wells in comparison to the groundwater flow direction, it is MECI’s professional opinion that further investigation is necessary northeast of MW-16 and southwest of MW-19. MECI recommends conducting temporary groundwater field screening in these directions to define the contaminant plume both horizontally and vertically. Following field screening activities, additional monitoring wells should be installed in strategic locations for continued monitoring. Once the contaminant plume has been defined both horizontally and vertically, active corrective action may be necessary due to the close proximity of two water supply wells. Prior to implementing active corrective action efforts, MECI recommends a series of Aggressive Fluid Vapor Recovery (AFVR) events be conducted on MW-3 and MW-21 to remove free phase petroleum product.

## **7.0 QUALIFICATIONS OF REPORT**

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-



**TABLES**

**TABLE 1  
SOIL ANALYTICAL RESULTS  
SITE NAME  
SITE LOCATION, SOUTH CAROLINA  
MECI PROJECT NUMBER ##-####  
SCDHEC SITE ID NUMBER #####**

Boring Number	Sample Date	Depth (feet BGS)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	MTBE (µg/kg)	Naphthalene (µg/kg)			
<p>Soil Samples for chemical analysis were not obtained during this assessment. In order to conform with formatting guidelines provided by the SCDHEC UST Management Division Programmatic Quality Assurance Program Plan (QAPP), this filler table is included to provide report continuity.</p>											
<p>Notes:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;">1. BGS = Below Ground Surface 2. µg/kg = micrograms per kilogram</td> <td style="width: 33%; border: none;">3. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).</td> <td style="width: 33%; border: none;">4. Soil Samples collected from discrete split samples during installation of Monitoring wells.</td> </tr> </table>									1. BGS = Below Ground Surface 2. µg/kg = micrograms per kilogram	3. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).	4. Soil Samples collected from discrete split samples during installation of Monitoring wells.
1. BGS = Below Ground Surface 2. µg/kg = micrograms per kilogram	3. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).	4. Soil Samples collected from discrete split samples during installation of Monitoring wells.									



**TABLE 2  
MAY 16, 2012 SAMPLING EVENT  
POTENTIOMETRIC DATA  
INTERSTATE TRUCK STOP  
ULMER, SOUTH CAROLINA  
MECI PROJECT NUMBER 12-3888  
SCDHEC SITE ID NUMBER 00332**

Well Number	Sample Date	Screened Interval	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Well-head Elevation	Groundwater Elevation
MW-1	5/16/2012	25-35	***	30.05	***	165.08	135.03
MW-2	5/16/2012	25-35	***	29.95	***	164.19	134.24
MW-3	5/16/2012	24-34	30.37	30.92	0.55	165.26	134.81
MW-4R	5/16/2012	25-35	***	28.63	***	163.93	135.30
MW-5R	5/16/2012	25-35	***	32.45	***	165.98	133.53
MW-6	5/16/2012	25-35	***	29.80	***	163.38	133.58
MW-7	5/16/2012	25-35	***	32.35	***	166.41	134.06
MW-8	5/16/2012	25-35	***	31.59	***	164.79	133.20
MW-9	5/16/2012	25-35	***	29.40	***	161.70	132.30
MW-10	5/16/2012	25-35	***	29.25	***	164.44	135.19
MW-11	5/16/2012	25-35	***	28.70	***	162.46	133.76
MW-12	5/16/2012	25-35	***	27.20	***	161.36	134.16
MW-13	5/16/2012	25-35	***	28.05	***	161.90	133.85
MW-14	5/16/2012	25-35	***	28.25	***	161.32	133.07
MW-15	5/16/2012	15-35	***	28.89	***	160.07	131.18
MW-16	5/16/2012	15-35	***	31.12	***	162.01	130.89
MW-17	5/16/2012	15-35	***	30.27	***	162.26	131.99
MW-18	5/16/2012	15-35	***	26.35	***	162.14	135.79
MW-19	5/16/2012	15-35	***	27.10	***	163.02	135.92
MW-20	5/16/2012	15-35	***	28.10	***	160.57	132.47
MW-21	5/16/2012	25-35	31.97	31.99	0.02	165.78	133.81
MW-22	5/16/2012	25-35	***	30.50	***	163.68	133.18
DW-1	5/16/2012	65-70	***	31.00	***	164.20	133.20
DW-2	5/16/2012	65-70	***	32.64	***	164.64	132.00
DW-3	5/16/2012	65-70	***	29.60	***	161.58	131.98
DW-4	5/16/2012	65-70	***	29.67	***	161.72	132.05
DW-5	5/16/2012	80-85	***	33.40	***	166.68	133.28
DW-6	5/16/2012	80-85	***	33.25	***	166.02	132.77

Notes:

1. Elevations based on USGS site datum.
2. Groundwater depths were measured from the top of the PVC riser pipe.
3. Groundwater levels measured on 5/16/2012.

4. Monitoring wells MW-3 and MW-21 corrected for the presence of Free Phase Petroleum Product using a specific gravity of 0.85 for fuel.

**TABLE 3  
PAGE 1 OF 2  
GROUNDWATER ANALYTICAL RESULTS  
MAY 16, 2012 SAMPLING EVENT  
INTERSTATE TRUCK STOP  
ULMER, SOUTH CAROLINA  
MECI PROJECT NUMBER 12-3888  
SCDHEC ID NUMBER 00332**

Well Number	Sample Date	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	Naphthalene (ug/l)	MTBE (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	5/16/12	2.4J	<5.0	4.3J	2.9J	9.6J	<5.0	<5.0	<5.0	<0.020
MW-2	5/16/12	150	4,600	2,100	14,000	20,850	320	<100	<100	0.089
MW-3*	5/16/12	1.7J	<5.0	9.6	44	55.3J	27	<5.0	NT	NT
MW-4R	5/16/12	18J	620	350	1,600	2,588J	120	<50	<50	<0.020
MW-5R	5/16/12	2.6J	10J	180	760	952.6J	190	<25	<25	<0.019
MW-6	5/16/12	43J	1,300	1,100	5,100	7,543J	300	<100	<100	<0.020
MW-7	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-8	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-9	5/16/12	17J	<25	<25	<25	17J	53	25	<25	<0.020
MW-10	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-11	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-12	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-13	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	5/16/12	230J	20,000	2,700	15,000	37,930J	1,100	<500	<500	0.46
MW-15	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	10	<5.0	<5.0	<0.019
MW-16	5/16/12	18J	180	330	4,400	4,928J	440	<50	<50	<0.019

**Notes:**

1. BDL = Below Practical Quantitative Limits
2. ug/l = micrograms per liter
3. MTBE = Methyl-Tertiary-Butyl Ether
4. 1,2 DCA = 1,2-Dichloroethane

5. EDB = Ethylene Dibromide
6. "J" Values Included in Total BTEX Calculations.
7. NT = Not Tested
8. \* = Sample collected beneath Product

9. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

**TABLE 3  
PAGE 2 OF 2  
GROUNDWATER ANALYTICAL RESULTS  
MAY 16, 2012 SAMPLING EVENT  
INTERSTATE TRUCK STOP  
ULMER, SOUTH CAROLINA  
MECI PROJECT NUMBER 12-3888  
SCDHEC ID NUMBER 00332**

Well Number	Sample Date	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	Naphthalene (ug/l)	MTBE (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-17	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-18	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19	5/16/12	4.2J	98	140	1,200	1,442.2J	71	<25	<25	0.075
MW-20	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-21*	5/16/12	26J	520	790	3,600	4,936J	530	<50	NT	NT
MW-22	5/16/12	21J	930	820	4,600	6,371J	270	<50	<50	<0.019
DW-1	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
DW-2	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
DW-3	5/16/12	11	<5.0	4.9J	57	72.9J	15	<5.0	<5.0	<0.020
DW-4	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
DW-5	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
DW-6	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
WSW-2	5/16/12	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
MW-1 (Duplicate)	5/16/12	2.6J	<5.0	5.5	3.5J	11.6J	1.7J	<5.0	<5.0	<0.020
MW-4R (Duplicate)	5/16/12	19J	740	470	2,100	3,059J	120	<50	<50	<0.019
Field Blank	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
Trip Blank	5/16/12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT

Notes:

1. BDL = Below Practical Quantitative Limits
2. ug/l = micrograms per liter
3. MTBE = Methyl-Tertiary-Butyl Ether
4. 1,2 DCA = 1,2-Dichloroethane
5. EDB = Ethylene Dibromide
6. "J" Values included in Total BTEX Calculations.
7. NT = Not Tested
8. \* = Sample collected beneath Product
9. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).

**TABLE 3A**  
**PAGE 1 OF 2**  
**GROUNDWATER ANALYTICAL RESULTS (OXYGENATES)**  
**MAY 16, 2012 SAMPLING EVENT**  
**INTERSTATE TRUCK STOP**  
**ULMER, SOUTH CAROLINA**  
**MECI PROJECT NUMBER 12-3888**  
**SCDHEC SITE ID NUMBER 00332**

Well Number	Sample Date	DIPE (µg/l)	Ethanol (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	ETBE (µg/l)	TAA (µg/l)	TAME (µg/l)	TBA (µg/l)	TBF (µg/l)
MW-1	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-2	05/16/12	<200	<20,000	<2,000	<2,000	<2,000	<200	<2,000	<2,000
MW-3*	05/16/12	NT	NT	NT	NT	NT	NT	NT	NT
MW-4R	05/16/12	<100	<10,000	<1,000	<1,000	1,300	<100	<1,000	<1,000
MW-5R	05/16/12	<50	<5,000	<500	<500	<500	<50	<500	<500
MW-6	05/16/12	<200	<20,000	<2,000	<2,000	2,500	<200	<2,000	<2,000
MW-7	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-8	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-9	05/16/12	440	<5,000	<500	<500	<500	<50	1,100	<500
MW-10	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-11	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-12	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-13	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-14	05/16/12	<1,000	<100,000	<10,000	<10,000	12,000	<1,000	<10,000	<10,000
MW-15	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-16	05/16/12	<100	<10,000	<1,000	<1,000	1,200	<100	<1,000	<1,000

Notes:

1. ug/l = micrograms per liter
2. DIPE = Diisopropyl Ether
3. ETBE = Ethyl ter-butyl Ether
4. TAA = tert-Amyl Alcohol

5. TAME = tert-Amyl Methyl Ether
6. TBA = ter-Butyl Alcohol
7. TBF = tert-Butyl Formate
8. NT = Not Tested

9. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
10. \* = Sample Collected beneath Product

**TABLE 3A**  
**PAGE 2 OF 2**  
**GROUNDWATER ANALYTICAL RESULTS (OXYGENATES)**  
**MAY 16, 2012 SAMPLING EVENT**  
**INTERSTATE TRUCK STOP**  
**ULMER, SOUTH CAROLINA**  
**MECI PROJECT NUMBER 12-3888**  
**SCDHEC SITE ID NUMBER 00332**

Well Number	Sample Date	DIPE (µg/l)	Ethanol (µg/l)	3,3-Dimethyl-1-butanol (µg/l)	ETBE (µg/l)	TAA (µg/l)	TAME (µg/l)	TBA (µg/l)	TBF (µg/l)
MW-17	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-18	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-19	05/16/12	<50	<5,000	<500	<500	620	<50	<500	<500
MW-20	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-21*	05/16/12	NT	NT	NT	NT	NT	NT	NT	NT
MW-22	05/16/12	<100	<10,000	<1,000	<1,000	1,200	<100	<1,000	<1,000
DW-1	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
DW-2	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
DW-3	05/16/12	<10	<1,000	<100	<100	210	<10	<100	<100
DW-4	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
DW-5	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
DW-6	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
WSW-2	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-1 (Duplicate)	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-4R (Duplicate)	05/16/12	<100	<10,000	<1,000	<1,000	1,200	<100	<1,000	<1,000
Field Blank	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100
Trip Blank	05/16/12	<10	<1,000	<100	<100	<100	<10	<100	<100

Notes:

1. ug/l = micrograms per liter
2. DIPE = Diisopropyl Ether
3. ETBE = Ethyl ter-butyl Ether
4. TAA = tert-Amyl Alcohol

5. TAME = tert-Amyl Methyl Ether
6. TBA = ter-Butyl Alcohol
7. TBF = tert-Butyl Formate
8. NT = Not Tested

9. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL).
10. \* = Sample Collected beneath Product



**TABLE 4 - AQUIFER CHARACTERISTICS (Page 1 of 2)**

SOUTH CAROLINA  
Department of Health and Environmental Control (DHEC)

**Site Data**

SITE ID # \_\_\_\_\_ COUNTY \_\_\_\_\_  
FACILITY NAME \_\_\_\_\_

**SLUG DATA**

See Appendix \_\_\_\_\_ Table \_\_\_\_\_ Figure \_\_\_\_\_ for a list of all data measurements.  
(water level logs, etc.)(Complete as appropriate).

Water Level Recovery Data was measured by \_\_\_\_\_ ORS Interface Probe \_\_\_\_\_  
(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

Aquifer Characteristics were not obtained as part of this assessment. In order to conform with formatting guidelines provided by the SCDHEC UST Management Division Programmatic Quality Assurance Program Plan (QAPP), this filler table is included to provide report continuity.

**Calculations**

See Appendix \_\_\_\_\_ Table \_\_\_\_\_ Figure \_\_\_\_\_ for calculations

The method for aquifer calculations was \_\_\_\_\_ NAVFAC \_\_\_\_\_

Calculated values by well were as follows:

Slug Test Conducted in Well(s) number \_\_\_\_\_  
Hydraulic Conductivity \_\_\_\_\_ cm/sec


Thickness of the aquifer used to calculate hydraulic conductivity was \_\_\_\_\_ N/A \_\_\_\_\_ feet.

The aquifer is \_\_\_\_\_ confined \_\_\_\_\_ semi-confined \_\_\_\_\_ water table (Check as Appropriate).

**SEE SHEET 3**

The estimated seepage velocity is \_\_\_\_\_ feet per year based on a hydraulic conductivity of \_\_\_\_\_ cm/sec, a hydraulic gradient of \_\_\_\_\_ ft/ft, and a porosity of \_\_\_\_\_ percent for \_\_\_\_\_ soil.

**SUMMARY of SLUG TEST**



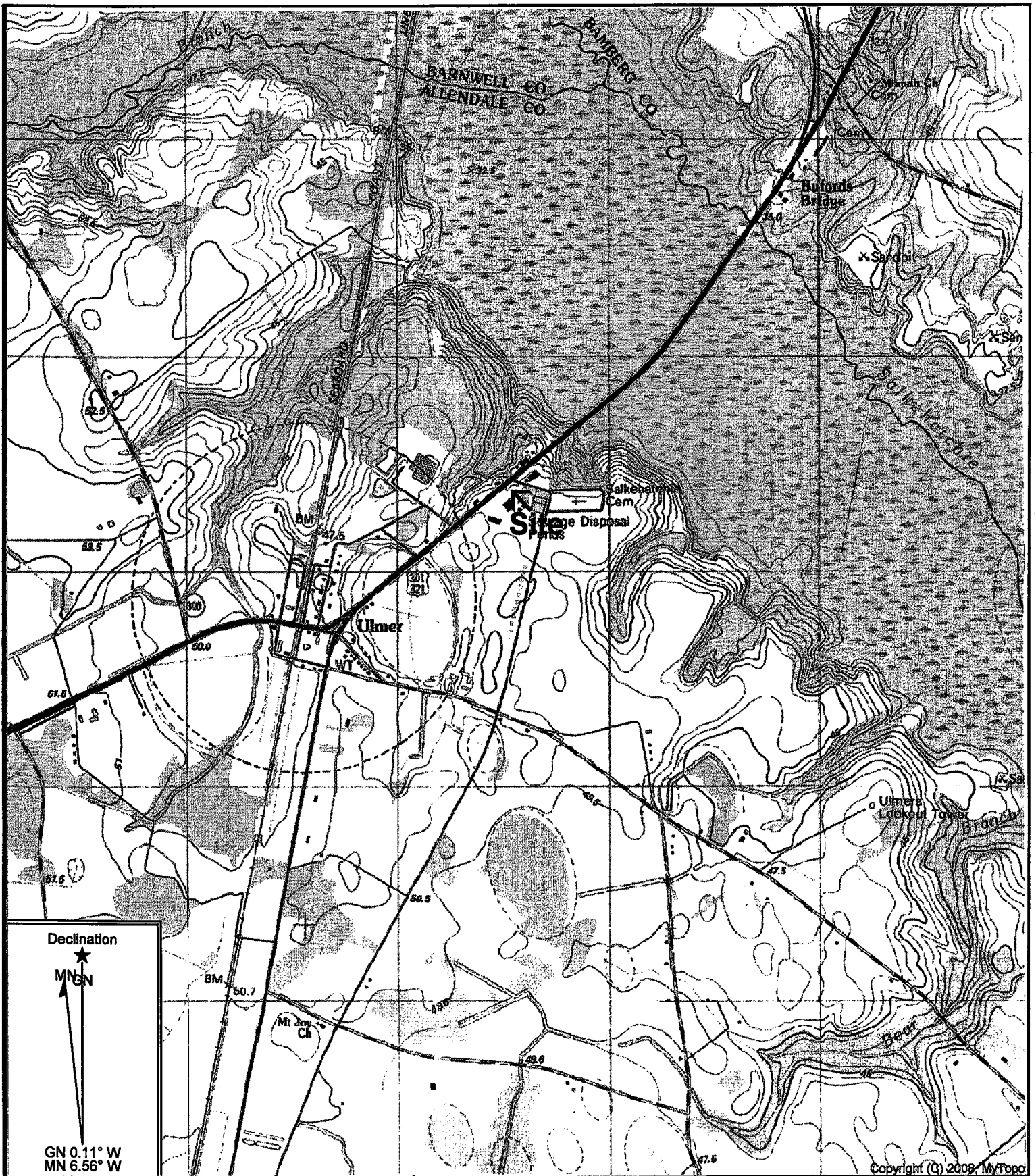
**TABLE 5**  
**SITE CONCEPTUAL MODEL AND POSSIBLE EXPOSURE POINTS**  
**(CURRENT LAND USE)**

Potentially Exposed Population	Exposure Route, Medium, and Exposure Point	Pathway Selected for Evaluation?	Reason for Selection or Nonselection
Off-site Resident	Ingestion of groundwater from impacted water well Direct contact with surface soil  Inhalation while showering  Dermal contact while showering  Inhalation of volatiles  Ignition of vapors  Dermal contact with surface water		<p style="text-align: center;"><u>A Site Conceptual Model was not required as part of this assessment. In order to conform with formatting guidelines provided by the SCDHEC UST Management Division Programmatic Quality Assurance Program Plan (QAPP), this filler table is included to provide report continuity.</u></p>
On-site Resident	Ingestion of groundwater Direct contact with surface soil Inhalation while showering Dermal contact while showering Inhalation of volatiles Ignition of vapors		
Worker	Ingestion of ground water  Direct contact with surface soil  Inhalation while showering  Dermal contact while showering  Inhalation of volatiles  Ignition of vapors		
Visitor	Ingestion of ground water  Direct contact with surface soil  Inhalation while showering  Dermal contact while showering  Inhalation of volatiles  Ignition of vapors  Dermal contact with surface water		



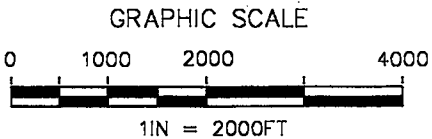
**FIGURES**





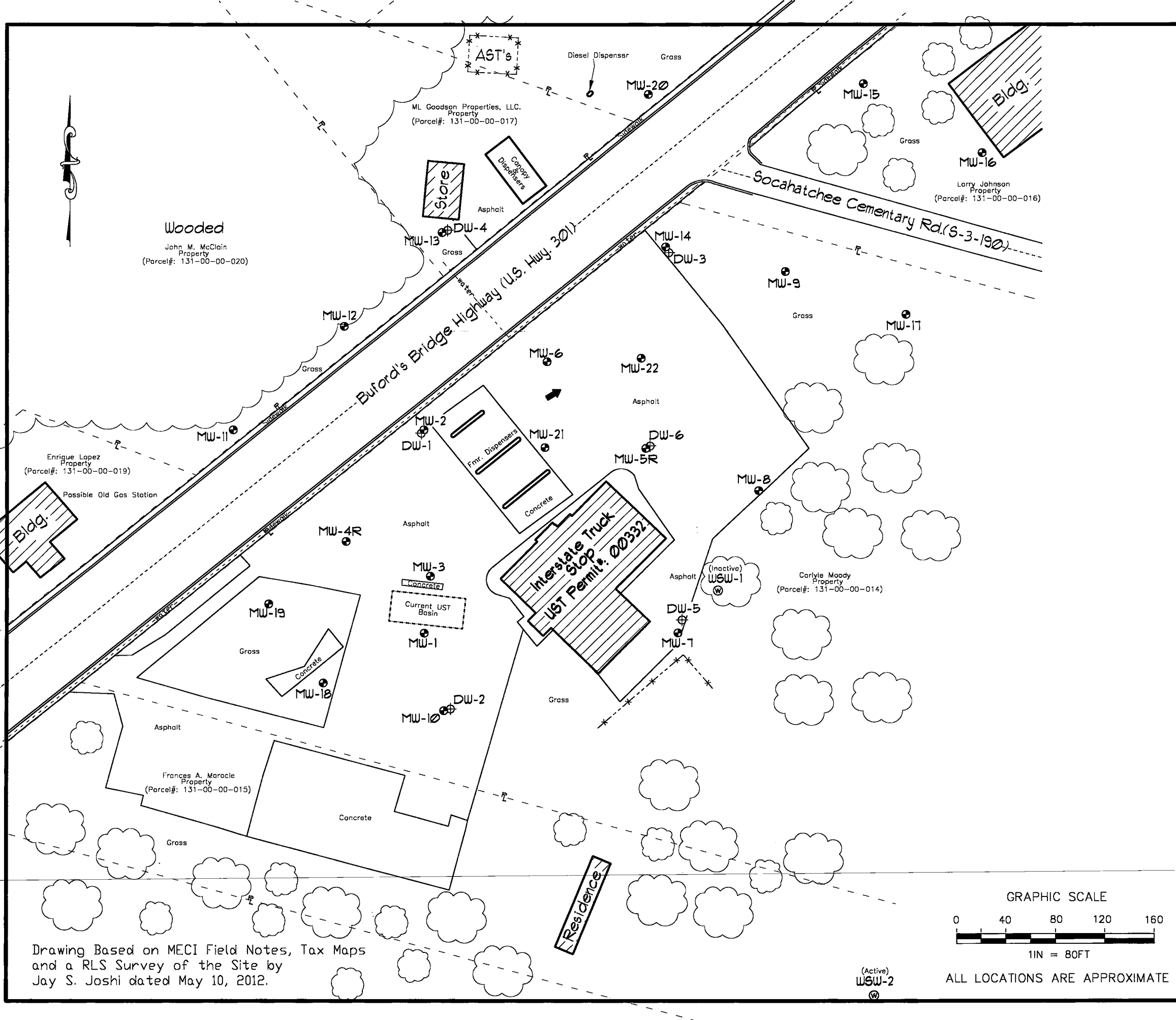
Copyright (C) 2008, MyTopo

Declination  
 ★  
 MNSN  
 GN 0.11° W  
 MN 6.56° W



Reference: Sycamore, South Carolina  
 Olar, South Carolina  
 USGS 7.5 Min. Quad  
 Countour Interval - 1.5 Meters

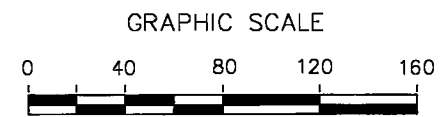
<p>Midlands          Environmental          Consultants, Inc.</p>	<p>Site Location</p>
<p>Interstate Truck Stop          Socahatchee Cemetery Rd. &amp; Hwy. 321, Ulmer, SC          SCDHEC Site ID# 00332</p>	
<p>Figure 1</p>	<p>MECI 12-3888</p>



**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- water - Buried Water Line
- Fence


Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.

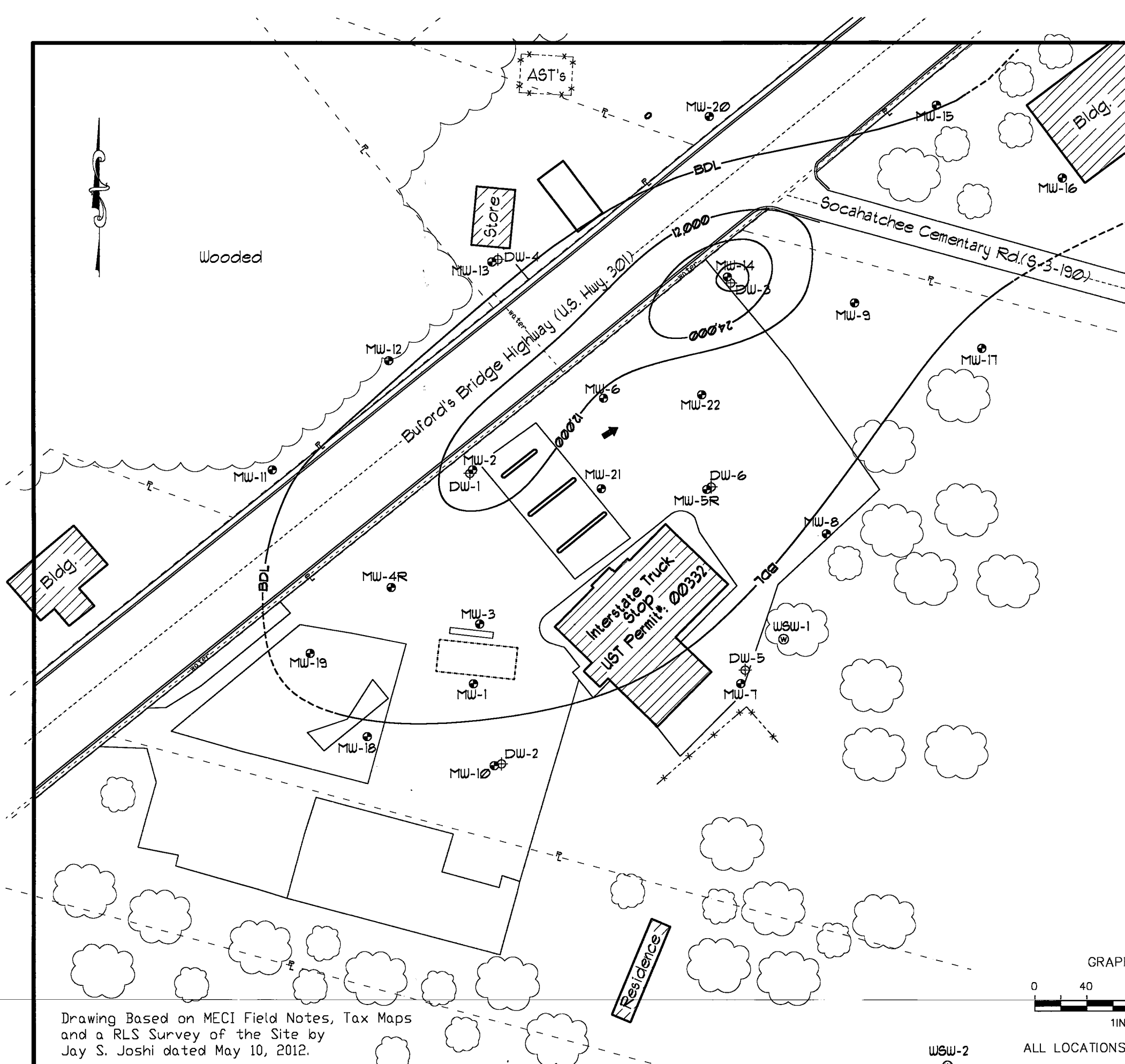


ALL LOCATIONS ARE APPROXIMATE

<b>Site Base Map</b>	
<b>Interstate Truck Stop</b> <b>U.S. Highway 321 &amp; S-3-190</b> <b>Ulmer, South Carolina</b> <b>SCDHEC Site ID 00332</b>	
<b>Midlands</b> <b>Environmental</b> <b>Consultants, Inc.</b>	JOB NO. 12-3888 DATE June 5, 2012 FIGURE <span style="font-size: 2em; font-weight: bold;">2</span>

Soil Samples for chemical analysis were not obtained during this assessment. In order to conform with formatting guidelines provided by the SCDHEC UST Management Division Programmatic Quality Assurance Program Plan (QAPP), this filler Figure is included to provide report continuity.

 Midlands Environmental Consultants, Inc.	Soil CoC Site Map
Site Name Site Location, South Carolina SCDHEC Site ID: ****	
Figure 3	MECI **_****



**Explanation:**

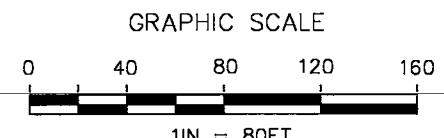
- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- Total BTEX Concentration Isopleth (ug/l)

Groundwater COC Concentration Data									
Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	Naphthalene (ug/l)	MTBE (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	2.4J	<5.0	4.3J	2.9J	9.6J	<5.0	<5.0	<5.0	<0.020
MW-2	150	4,600	2,100	14,000	20,850	320	<100	<100	0.089
MW-3*	1.7J	<5.0	9.6	44	55.3J	27	<5.0	NT	NT
MW-4R	18J	620	350	1,600	2,588J	120	<50	<50	<0.020
MW-5R	2.6J	10J	180	760	952.6J	190	<25	<25	<0.019
MW-6	4.3J	1,300	1,100	5,100	7,543J	300	<100	<100	<0.020
MW-7	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-8	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-9	17J	<25	<25	<25	17J	53	25	<25	<0.020
MW-10	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-11	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	230J	20,000	2,700	15,000	37,930J	1,100	<500	<500	0.46
MW-15	<5.0	<5.0	<5.0	<5.0	BDL	10	<5.0	<5.0	<0.019
MW-16	18J	180	330	4,400	4,928J	440	<50	<50	<0.019
MW-17	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-18	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19	4.2J	98	140	1,200	1,442.2J	71	<25	<25	0.075
MW-20	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-21*	26J	520	790	3,600	4,936J	530	<50	NT	NT
MW-22	21J	930	820	4,600	6,371J	270	<50	<50	<0.019
DW-1	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
DW-2	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
DW-3	11	<5.0	4.9J	57	72.9J	15	<5.0	<5.0	<0.020
DW-4	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
DW-5	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
DW-6	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
WSW-2	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
MW-1 (Duplicate)	2.6J	<5.0	5.5	3.5J	11.6J	1.7J	<5.0	<5.0	<0.020
MW-4R (Duplicate)	19J	740	470	2,100	3,059J	120	<50	<50	<0.019
Field Blank	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
Trip Blank	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT

Notes: Groundwater samples collected on May 16, 2012.  
 Isopleth Interval = 12,000 ug/l  
 BDL = Below Detection Limits  
 "J" Values included in Total BTEX Calculations  
 "Deep" monitoring wells not used in Isopleth generation.  
 Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

**Groundwater CoC Site Map  
(Total BTEX Isopleth)**

Interstate Truck Stop  
 U.S. Highway 321 & S-3-190  
 Ulmer, South Carolina  
 SCDHEC Site ID 00332

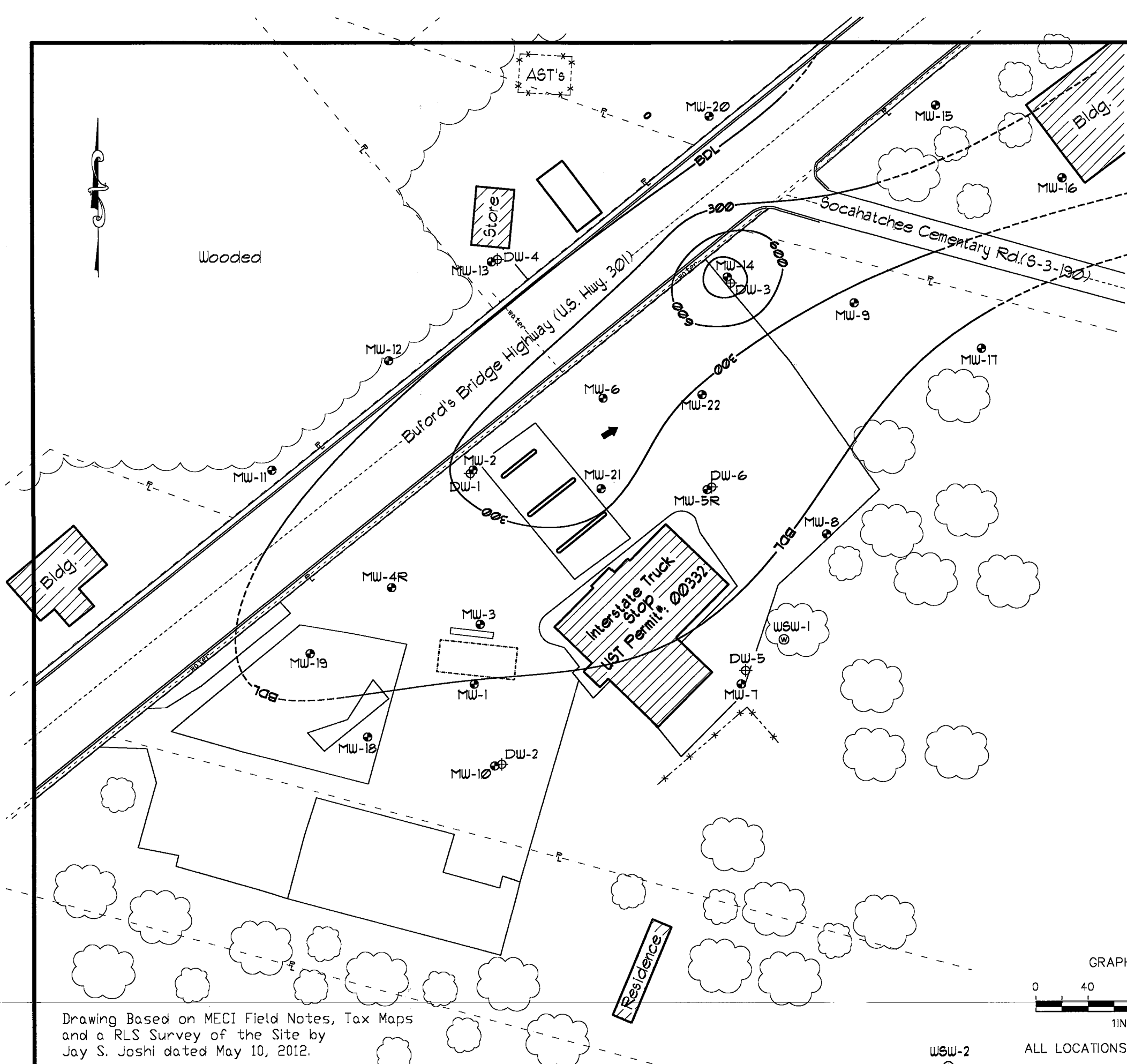


ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.

**Midlands Environmental Consultants, Inc.**

JOB NO.	12-3888
DATE	June 5, 2012
FIGURE	4



**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks

Naphthalene Concentration Isopleth (ug/l)

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	Naphthalene (ug/l)	MTBE (ug/l)	1,2 DCA (ug/l)	EDB (ug/l)
MW-1	2.4J	<5.0	4.3J	2.9J	9.6J	<5.0	<5.0	<5.0	<0.020
MW-2	150	4,600	2,100	14,000	20,850	320	<100	<100	0.089
MW-3*	1.7J	<5.0	9.6	44	55.3J	27	<5.0	NT	NT
MW-4R	18J	620	350	1,600	2,588J	120	<50	<50	<0.020
MW-5R	2.6J	10J	180	760	952.6J	190	<25	<25	<0.019
MW-6	4.3J	1,300	1,100	5,100	7,543J	300	<100	<100	<0.020
MW-7	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-8	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-9	17J	<25	<25	<25	17J	53	25	<25	<0.020
MW-10	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-11	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-12	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-13	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-14	230J	20,000	2,700	15,000	37,930J	1,100	<500	<500	0.46
MW-15	<5.0	<5.0	<5.0	<5.0	BDL	10	<5.0	<5.0	<0.019
MW-16	18J	180	330	4,400	4,928J	440	<50	<50	<0.019
MW-17	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-18	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
MW-19	4.2J	98	140	1,200	1,442.2J	71	<25	<25	0.075
MW-20	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
MW-21*	26J	520	790	3,600	4,936J	530	<50	NT	NT
MW-22	21J	930	820	4,600	6,371J	270	<50	<50	<0.019
DW-1	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
DW-2	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
DW-3	11	<5.0	4.9J	57	72.9J	15	<5.0	<5.0	<0.020
DW-4	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.020
DW-5	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
DW-6	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
WSW-2	<1.0	<1.0	<1.0	<1.0	BDL	<1.0	<1.0	<1.0	<0.019
MW-1 (Duplicate)	2.6J	<5.0	5.5	3.5J	11.6J	1.7J	<5.0	<5.0	<0.020
MW-4R (Duplicate)	19J	740	470	2,100	3,059J	120	<50	<50	<0.019
Field Blank	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	<0.019
Trip Blank	<5.0	<5.0	<5.0	<5.0	BDL	<5.0	<5.0	<5.0	NT

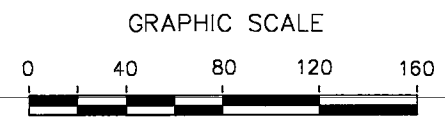
Notes: Groundwater samples collected on May 16, 2012.  
 Isopleth Interval = 300 ug/l  
 BDL = Below Detection Limits  
 "J" Values included in Total BTEX Calculations  
 "Deep" monitoring wells not used in Isopleth generation.  
 Isopleths Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

**Groundwater CoC Site Map**  
(Naphthalene Isopleth)

Interstate Truck Stop  
 U.S. Highway 321 & S-3-190  
 Ulmer, South Carolina  
 SCDHEC Site ID 00332

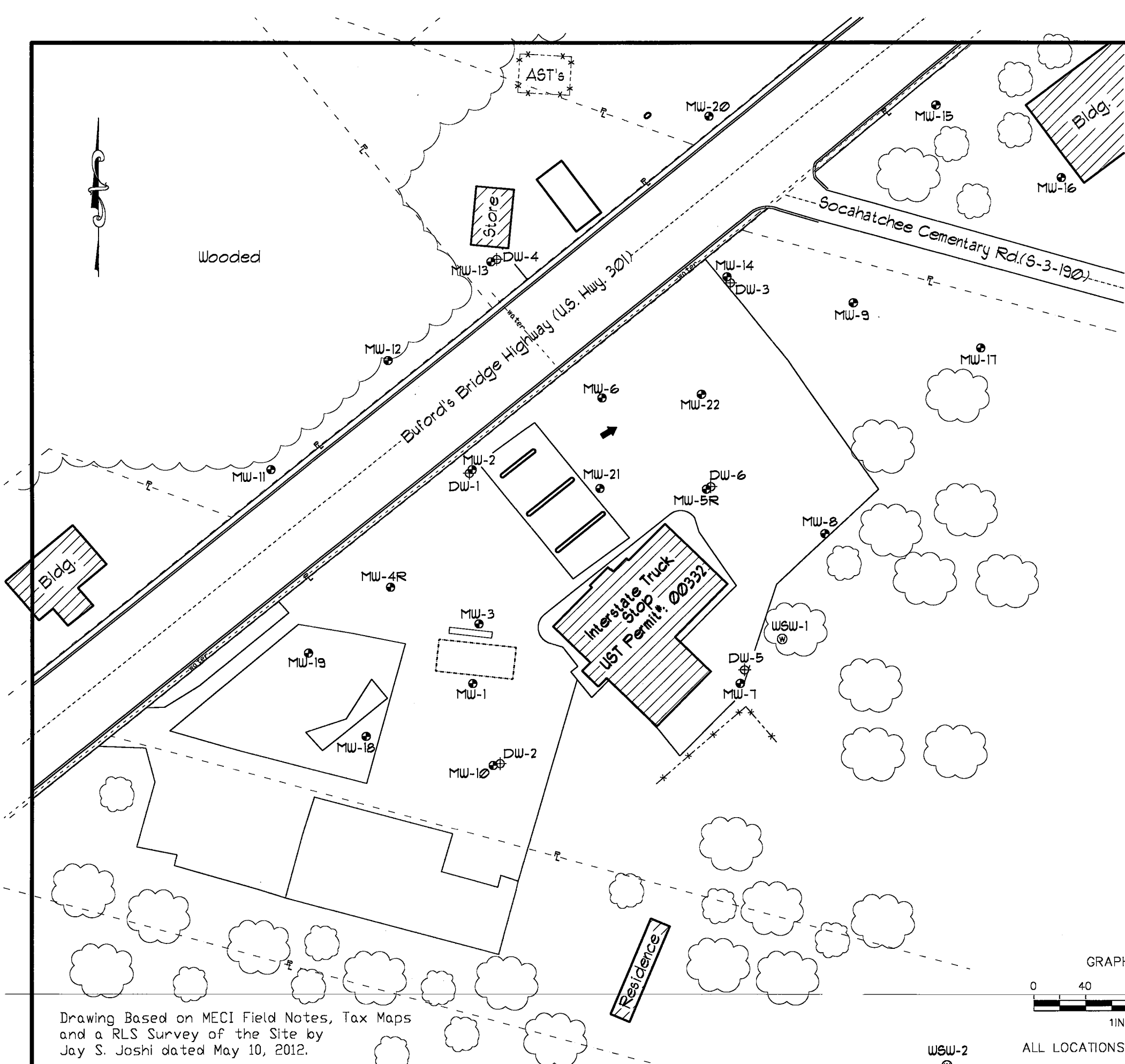
**Midlands Environmental Consultants, Inc.**

JOB NO. 12-3888  
 DATE June 5, 2012  
 FIGURE 4A



ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.



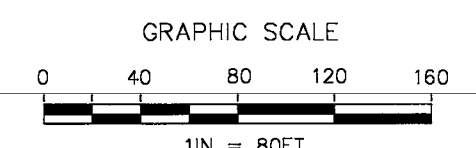
### Explanation:

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks

Groundwater COC Concentration Data - Oxygenates								
Sample #	DIPE (ug/l)	Ethanol (ug/l)	3,3-Dimethyl-1-butanol (ug/l)	ETBE (ug/l)	TAA (ug/l)	TAME (ug/l)	TBA (ug/l)	TBF (ug/l)
MW-1	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-2	<200	<20,000	<2,000	<2,000	<2,000	<200	<2,000	<2,000
MW-3	NT	NT	NT	NT	NT	NT	NT	NT
MW-4R	<100	<10,000	<1,000	<1,000	1,300	<100	<1,000	<1,000
MW-5R	<50	<5,000	<500	<500	<500	<50	<500	<500
MW-6	<200	<20,000	<2,000	<2,000	2,500	<200	<2,000	<2,000
MW-7	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-8	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-9	440	<5,000	<500	<500	<500	<50	1,100	<500
MW-10	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-11	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-12	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-13	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-14	<1,000	<100,000	<10,000	<10,000	12,000	<1,000	<10,000	<10,000
MW-15	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-16	<100	<10,000	<1,000	<1,000	1,200	<100	<1,000	<1,000
MW-17	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-18	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-19	<50	<5,000	<500	<500	620	<50	<500	<500
MW-20	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-21	NT	NT	NT	NT	NT	NT	NT	NT
MW-22	<100	<10,000	<1,000	<1,000	1,200	<100	<1,000	<1,000
DW-1	<10	<1,000	<100	<100	<100	<10	<100	<100
DW-2	<10	<1,000	<100	<100	<100	<10	<100	<100
DW-3	<10	<1,000	<100	<100	210	<10	<100	<100
DW-4	<10	<1,000	<100	<100	<100	<10	<100	<100
DW-5	<10	<1,000	<100	<100	<100	<10	<100	<100
DW-6	<10	<1,000	<100	<100	<100	<10	<100	<100
WSW-1	<10	<1,000	<100	<100	<100	<10	<100	<100
WSW-2	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-1(Duplicate)	<10	<1,000	<100	<100	<100	<10	<100	<100
MW-4R(Duplicate)	<100	<10,000	<1,000	<1,000	1,200	<100	<1,000	<1,000
Field Blank	<10	<1,000	<100	<100	<100	<10	<100	<100
Trip Blank	<10	<1,000	<100	<100	<100	<10	<100	<100

Notes: DIPE = Disopropyl Ether  
 ETBE = Ethyl tert-butyl Ether  
 TAA = tert-Amyl Alcohol  
 TAME = tert-Amyl Methyl Ether  
 TBA = tert-Butyl Alcohol  
 TBF = tert-Butyl Formate

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.



ALL LOCATIONS ARE APPROXIMATE

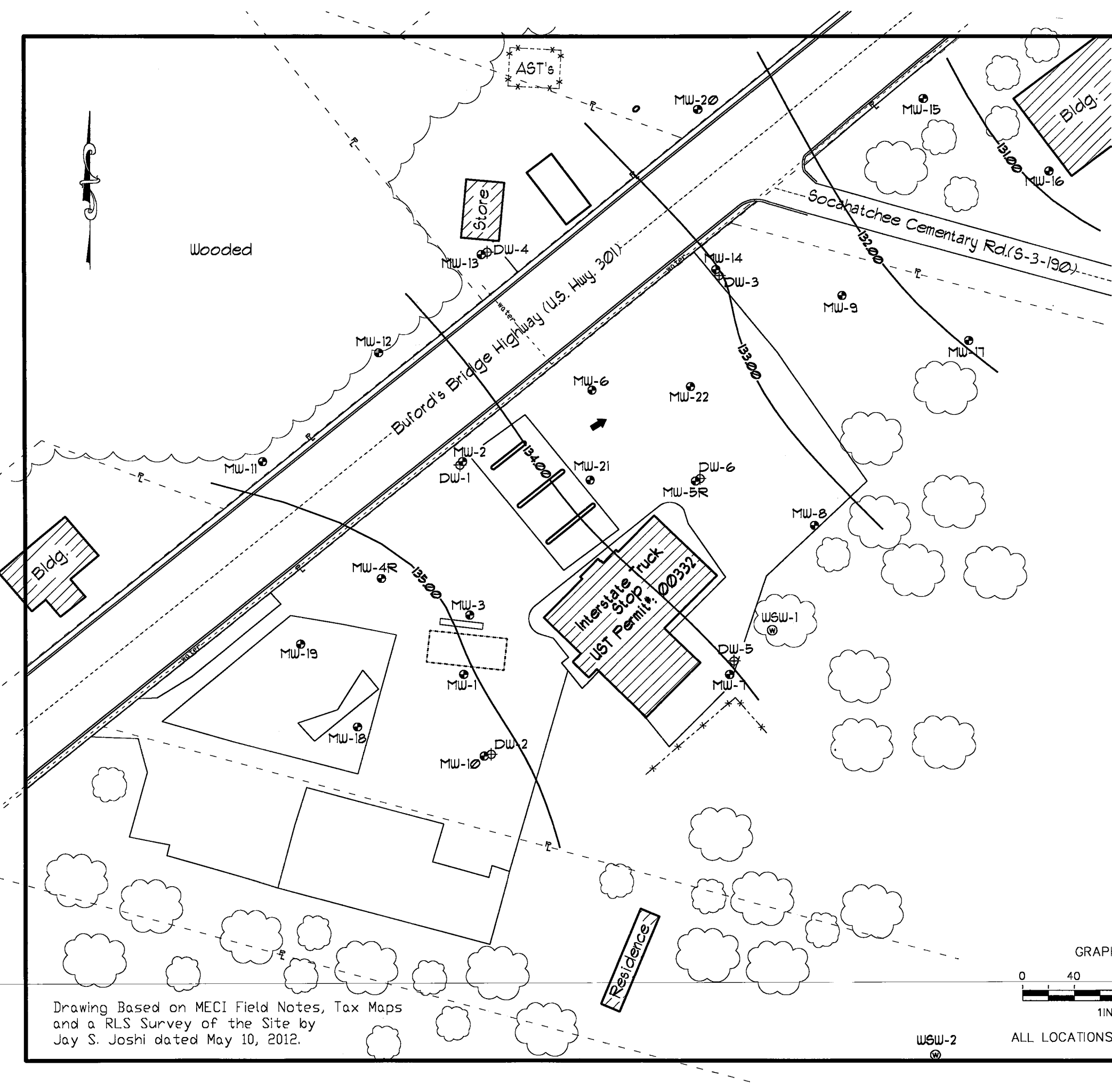
### Groundwater CoC Site Map (Oxygenates)

Interstate Truck Stop  
U.S. Highway 321 & S-3-190  
Ulmer, South Carolina  
SCDHEC Site ID 00332

**Midlands  
Environmental  
Consultants, Inc.**

JOB NO. 12-3888  
DATE June 5, 2012  
FIGURE  
**4B**





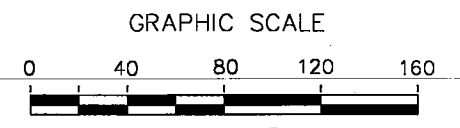
**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- Groundwater Elevation Contour (feet)

Potentiometric Data						
Well	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Well Head Elevation	Groundwater Elevation
MW-1	25-35	---	30.05	---	165.08	135.03
MW-2	25-35	---	29.95	---	164.19	134.24
MW-3	24-34	30.37	30.92	0.55	165.26	134.81
MW-4R	25-35	---	28.63	---	163.93	135.30
MW-5R	25-35	---	32.45	---	165.98	133.53
MW-6	25-35	---	29.80	---	163.38	133.58
MW-7	25-35	---	32.35	---	166.41	134.06
MW-8	25-35	---	31.59	---	164.79	133.20
MW-9	25-35	---	29.40	---	161.70	132.30
MW-10	25-35	---	29.25	---	164.44	135.19
MW-11	25-35	---	28.70	---	162.46	133.76
MW-12	25-35	---	27.20	---	161.36	134.16
MW-13	25-35	---	28.05	---	161.90	133.85
MW-14	25-35	---	28.25	---	161.32	133.07
MW-15	15-35	---	28.89	---	160.07	131.18
MW-16	15-35	---	31.12	---	162.01	130.89
MW-17	15-35	---	30.27	---	162.26	131.99
MW-18	15-35	---	26.35	---	162.14	135.79
MW-19	15-35	---	27.10	---	163.02	135.92
MW-20	15-35	---	28.10	---	160.57	132.47
MW-21	25-35	31.97	31.99	0.02	165.78	133.81
MW-22	25-35	---	30.50	---	163.68	133.18
DW-1	65-70	---	31.00	---	164.20	133.20
DW-2	65-70	---	32.64	---	164.64	132.00
DW-3	65-70	---	29.60	---	161.58	131.98
DW-4	65-70	---	29.67	---	161.72	132.05
DW-5	80-85	---	33.40	---	166.68	133.28
DW-6	80-85	---	33.25	---	166.02	132.77

Notes: Depth to groundwater measured on May 16, 2012.  
 Contour Interval = 1.00 Feet  
 Site Datum Based on GPS Elevation.  
 "Deep" monitoring wells and MW-11 not used in contouring.  
 Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.



ALL LOCATIONS ARE APPROXIMATE

**Potentiometric Data Site Map**  
(Groundwater Contour)


Interstate Truck Stop  
 U.S. Highway 321 & S-3-190  
 Ulmer, South Carolina  
 SCDHEC Site ID 00332

**Midlands Environmental Consultants, Inc.**

JOB NO. 12-3888  
 DATE June 5, 2012  
 FIGURE 5



Construction of Geologic Cross Sections were not part of this assessment. In order to conform with formatting guidelines provided by the SCDHEC UST Management Division Programmatic Quality Assurance Program Plan (QAPP), this filler Figure is included to provide report continuity.

 Midlands Environmental Consultants, Inc.	Geologic Cross Sections
Site Name Site Location, South Carolina SCDHEC Site ID: ****	
Figure 6	MECI **-****

**APPENDIX A:**  
**SITE SURVEY**

**APPENDIX B:**

**SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS**

South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

---

Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # MW-1

Water Supply Well Public Private  

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness:   feet

Depth to Free Product (DFP)   feet

Depth to Ground Water (DGW) 30.05 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 4.95 feet

1 casing volume (CV=LWC X C)=   X 0.163 0.81 gallons

3 casing volume (3 X CV)= 3 2.42 gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	13:47						
pH (s.u.)	5.14						
Specific Conductivity (µmhos/cm)	88.4						
Water Temperature (°C)	21.9						
Dissolved Oxygen	2.18						
Turbidity (NTU)							
PID readings, if required							

Remarks:   Sample Time: 13:47 **No Purge Sample**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 5/16/2012

**Field Personnel:** B. Owen, C. Lashley

**General Weather Conditions:** Partly Cloudy

---

**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<u>YSI 63</u>	<u>YSI 550A</u>
<u>09C 101302</u>	<u>04L 2026AK</u>
<u>10K 101895</u> <u>X</u>	<u>08B 101895</u> <u>X</u>
<u>07M 100905</u>	<u>04A 0912AI</u>
<u>Calibration Buffer:</u> <u>4, 7, &amp; 10</u>	

Chain of Custody

<u>Relinquished by</u>	<u>Date/Time</u>	<u>Received by</u>	<u>Date/Time</u>
------------------------	------------------	--------------------	------------------

**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** MW-2

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** \_\_\_\_\_ feet

**Depth to Free Product (DFP)** \_\_\_\_\_ feet

**Depth to Ground Water (DGW)** 29.95 feet

**Total Well Depth (TWD)** 35 feet

**Length of the water column (LWC=TWD-DGW)** 5.05 feet

**1 casing volume (CV=LWC X C)=** \_\_\_\_\_ X 0.163 0.82 gallons

**3 casing volume (3 X CV)=** 3 2.47 gallons

**Total Volume of Water Purged Before Sampling** 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:22						
pH (s.u.)	6.30						
Specific Conductivity (µmhos/cm)	212.3						
Water Temperature (°C)	23.4						
Dissolved Oxygen	1.34						
Turbidity (NTU)							
PID readings, if required							

**Remarks:** \_\_\_\_\_ **Sample Time:** 14:22      **No Purge Sample**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

---

Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>		<u>DO Meter</u>	
YSI 63		YSI 550A	
09C 101302		04L 2026AK	
10K 101895	<u>X</u>	08B 101895	<u>X</u>
07M 100905		04A 0912AI	
Calibration Buffer:	<u>4, 7, &amp; 10</u>		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # MW-3

Water Supply Well Public Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: 0.55 feet

Depth to Free Product (DFP) 30.37 feet

Depth to Ground Water (DGW) 30.92 feet

Total Well Depth (TWD) 34 feet

Length of the water column (LWC=TWD-DGW) 3.08 feet

1 casing volume (CV=LWC X C)= 0 X 0.163 0.50 gallons

3 casing volume (3 X CV)= 3 X 1.51 gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	14:00							
pH (s.u.)	Product							
Specific Conductivity (μmhos/cm)	Product							
Water Temperature (°C)	Product							
Dissolved Oxygen	Product							
Turbidity (NTU)								
PID readings, if required								

Remarks: Sample Time: 14:00 **No Purge Sample / Sampled Under Product (BTEX Only)**

South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
YSI 63	YSI 550A
09C 101302	04L 2026AK
10K 101895 <u>    X    </u>	08B 101895 <u>    X    </u>
07M 100905	04A 0912A1
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
-----------------------	-----------------	-------------------	-----------------

Facility Name: Interstate Truck Stop

Site ID#: 00332          Monitoring Well # MW-4R

Water Supply Well          Public \_\_\_\_\_          Private \_\_\_\_\_

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$           for a 2 inch well C=0.163  
    for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 28.63 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 6.37 feet

1 casing volume (CV=LWC X C)=     X     0.163 1.04 gallons

3 casing volume (3 X CV)= 3 3.11 gallons

Total Volume of Water Purged Before Sampling 0 gals.  
 \*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:06						
pH (s.u.)	Sheen						
Specific Conductivity (µmhos/cm)	Sheen						
Water Temperature (°C)	Sheen						
Dissolved Oxygen	Sheen						
Turbidity (NTU)							
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 14:06 **No Purge Sample / Petroleum Sheen Present**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

---

Ambient Air Temperature: 28.0 °C

Quality Assurance

<b><u>pH/Conductivity Meter</u></b>		<b><u>DO Meter</u></b>	
YSI 63		YSI 550A	
09C 101302		04L 2026AK	
10K 101895	<u>X</u>	08B 101895	<u>X</u>
07M 100905		04A 0912AI	
Calibration Buffer:	<u>4, 7, &amp; 10</u>		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Truck Stop

Site ID#: 00332      Monitoring Well # MW-5R

Water Supply Well      Public \_\_\_\_\_ Private \_\_\_\_\_

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
    for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 32.45 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 2.55 feet

1 casing volume (CV=LWC X C)= X 0.163 0.42 gallons

3 casing volume (3 X CV)= 3 1.25 gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	11:23					12		
pH (s.u.)	6.13							
Specific Conductivity (µmhos/cm)	107.7							
Water Temperature (°C)	22.0							
Dissolved Oxygen	1.58							
Turbidity (NTU)								
PID readings, if required								

Remarks: \_\_\_\_\_ Sample Time: 11:23 **No Purge Sample**



**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 5/16/2012

**Field Personnel:** B. Owen, C. Lashley

**General Weather Conditions:** Partly Cloudy

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<b><u>pH/Conductivity Meter</u></b>	<b><u>DO Meter</u></b>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
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**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** MW-6

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** \_\_\_\_\_ feet

**Depth to Free Product (DFP)** \_\_\_\_\_ feet

**Depth to Ground Water (DGW)** 29.80 feet

**Total Well Depth (TWD)** 35 feet

**Length of the water column (LWC=TWD-DGW)** 5.2 feet

**1 casing volume (CV=LWC X C)=** \_\_\_\_\_ X 0.163 = 0.85 gallons

**3 casing volume (3 X CV)=** 3 X 0.85 = 2.54 gallons

**Total Volume of Water Purged Before Sampling** 0 gals.

*\*If free product is present over 1/8 inch, sampling will not be required.*

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:33						
pH (s.u.)	Sheen						
Specific Conductivity (µmhos/cm)	Sheen						
Water Temperature (°C)	Sheen						
Dissolved Oxygen	Sheen						
Turbidity (NTU)							
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 14:33 **No Purge Sample / Petroleum Sheen Present**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Interstate Truck Stop

Site ID#: 00332      Monitoring Well # MW-7

Water Supply Well      Public \_\_\_\_\_      Private \_\_\_\_\_

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 32.35 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 2.65 feet

1 casing volume (CV=LWC X C)= _____ X <u>0.163</u>	<u>0.43</u>	gallons
3 casing volume (3 X CV)= <u>3</u>	<u>1.30</u>	gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	11:47						
pH (s.u.)	Insuff.						
Specific Conductivity (µmhos/cm)	Insuff.						
Water Temperature (°C)	Insuff.						
Dissolved Oxygen	Insuff.						
Turbidity (NTU)							
PID readings, if required							

Remarks: \_\_\_\_\_      Sample Time: 11:47

**No Purge Sample**  
**Insufficient Water for Field Measurements**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 5/16/2012

**Field Personnel:** B. Owen, C. Lashley

**General Weather Conditions:** Partly Cloudy

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<b><u>pH/Conductivity Meter</u></b>	<b><u>DO Meter</u></b>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
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**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** MW-8

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 31.59 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 3.41 feet

1 casing volume (CV=LWC X C)= \_\_\_\_\_ X 0.163 = 0.56 gallons

3 casing volume (3 X CV)= 3 X 0.56 = 1.67 gallons

**Total Volume of Water Purged Before Sampling:** 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	10:42						
pH (s.u.)	5.87						
Specific Conductivity (µmhos/cm)	64.1						
Water Temperature (°C)	21.1						
Dissolved Oxygen	5.67						
Turbidity (NTU)							
PID readings, if required							

**Remarks:** \_\_\_\_\_ **Sample Time:** 10:42      **No Purge Sample**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 5/16/2012

**Field Personnel:** B. Owen, C. Lashley

**General Weather Conditions:** Partly Cloudy

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<b><u>pH/Conductivity Meter</u></b>	<b><u>DO Meter</u></b>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
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**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** MW-9

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** \_\_\_\_\_ feet

**Depth to Free Product (DFP)** \_\_\_\_\_ feet

**Depth to Ground Water (DGW)** 29.40 feet

**Total Well Depth (TWD)** 35 feet

**Length of the water column (LWC=TWD-DGW)** 5.6 feet

**1 casing volume (CV=LWC X C)=** 0.91 gallons

**3 casing volume (3 X CV)=** 2.74 gallons

**Total Volume of Water Purged Before Sampling** 0 gals.

*\*If free product is present over 1/8 inch, sampling will not be required.*

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	10:48						
pH (s.u.)	5.44						
Specific Conductivity (µmhos/cm)	169.8						
Water Temperature (°C)	22.2						
Dissolved Oxygen	1.60						
Turbidity (NTU)							
PID readings, if required							

**Remarks:** \_\_\_\_\_ **Sample Time:** 10:48      **No Purge Sample**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 5/16/2012

**Field Personnel:** B. Owen, C. Lashley

**General Weather Conditions:** Partly Cloudy

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<b><u>pH/Conductivity Meter</u></b>	<b><u>DO Meter</u></b>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
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**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** MW-10

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** \_\_\_\_\_ feet

**Depth to Free Product (DFP)** \_\_\_\_\_ feet

**Depth to Ground Water (DGW)** 29.25 feet

**Total Well Depth (TWD)** 35 feet

**Length of the water column (LWC=TWD-DGW)** 5.75 feet

**1 casing volume (CV=LWC X C)=** \_\_\_\_\_ X 0.163 0.94 gallons

**3 casing volume (3 X CV)=** 3 2.81 gallons

**Total Volume of Water Purged Before Sampling** 0 gals.

*\*If free product is present over 1/8 inch, sampling will not be required.*

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	12:15							
pH (s.u.)	9.03							
Specific Conductivity (µmhos/cm)	71.5							
Water Temperature (°C)	22.4							
Dissolved Oxygen	4.50							
Turbidity (NTU)								
PID readings, if required								

**Remarks:** \_\_\_\_\_ **Sample Time:** 12:15      **No Purge Sample**



South Carolina Department of Health and Environmental Control  
 Bureau of Land and Waste Management Underground Storage Tank Program  
 Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<b>pH/Conductivity Meter</b>		<b>DO Meter</b>	
YSI 63		YSI 550A	
09C 101302		04L 2026AK	
10K 101895	<u>X</u>	08B 101895	<u>X</u>
07M 100905		04A 0912AI	
Calibration Buffer:	<u>4, 7, &amp; 10</u>		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # MW-12

Water Supply Well      Public      Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
 for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 27.20 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 7.8 feet

1 casing volume (CV=LWC X C)= \_\_\_\_\_ X 0.163

<u>1.27</u>
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 gallons

3 casing volume (3 X CV)= \_\_\_\_\_ X 3

<u>3.81</u>
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 gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:50						
pH (s.u.)	6.48						
Specific Conductivity (µmhos/cm)	55.3						
Water Temperature (°C)	21.1						
Dissolved Oxygen	1.44						
Turbidity (NTU)							
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 14:50 No Purge Sample

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 5/16/2012

**Field Personnel:** B. Owen, C. Lashley

**General Weather Conditions:** Partly Cloudy

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
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**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** MW-13

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** \_\_\_\_\_ feet

**Depth to Free Product (DFP)** \_\_\_\_\_ feet

**Depth to Ground Water (DGW)** 28.05 feet

**Total Well Depth (TWD)** 35 feet

**Length of the water column (LWC=TWD-DGW)** 6.95 feet

1 casing volume (CV=LWC X C)= _____ X	<u>0.163</u>	<u>1.13</u>	gallons
3 casing volume (3 X CV)=	<u>3</u>	<u>3.40</u>	gallons

**Total Volume of Water Purged Before Sampling** 0 gals.

*\*If free product is present over 1/8 inch, sampling will not be required.*

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	15:05						
pH (s.u.)	6.97						
Specific Conductivity (µmhos/cm)	52.7						
Water Temperature (°C)	20.3						
Dissolved Oxygen	2.93						
Turbidity (NTU)							
PID readings, if required							

**Remarks:** \_\_\_\_\_ **Sample Time:** 15:05      **No Purge Sample**



South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
YSI 63	YSI 550A
09C 101302	04L 2026AK
10K 101895 <u>X</u>	08B 101895 <u>X</u>
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

<u>Relinquished by</u>	<u>Date/Time</u>	<u>Received by</u>	<u>Date/Time</u>

Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # MW-14

Water Supply Well Public        Private       

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 28.25 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 6.75 feet

1 casing volume (CV=LWC X C)= _____ X <u>0.163</u>	<u>1.10</u>	gallons
3 casing volume (3 X CV)= _____ X <u>3</u>	<u>3.30</u>	gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	11:00						
pH (s.u.)	6.34						
Specific Conductivity (μmhos/cm)	170.9						
Water Temperature (°C)	23.1						
Dissolved Oxygen	1.53						
Turbidity (NTU)							
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 11:00 **No Purge Sample**  
**One Bolt Added**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<u>YSI 63</u>	<u>YSI 550A</u>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # MW-15

Water Supply Well Public Private  

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness:   feet

Depth to Free Product (DFP)   feet

Depth to Ground Water (DGW) 28.89 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 6.11 feet

1 casing volume (CV=LWC X C)=   X 0.163 1.00 gallons

3 casing volume (3 X CV)= 3 2.99 gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	10:25						
pH (s.u.)	6.51						
Specific Conductivity (µmhos/cm)	113.3						
Water Temperature (°C)	27.7						
Dissolved Oxygen	3.50						
Turbidity (NTU)							
PID readings, if required							

Remarks:   Sample Time: 10:25 **No Purge Sample**

South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 5/16/2012  
Field Personnel: B. Owen, C. Lashley  
General Weather Conditions: Partly Cloudy

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<b>pH/Conductivity Meter</b>		<b>DO Meter</b>	
YSI 63		YSI 550A	
09C 101302		04L 2026AK	
10K 101895	<u>X</u>	08B 101895	<u>X</u>
07M 100905		04A 0912AI	
Calibration Buffer:	<u>4, 7, &amp; 10</u>		

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Interstate Truck Stop  
Site ID#: 00332 Monitoring Well # MW-16  
Water Supply Well Public \_\_\_\_\_ Private \_\_\_\_\_

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet  
Depth to Free Product (DFP) \_\_\_\_\_ feet  
Depth to Ground Water (DGW) 31.12 feet  
Total Well Depth (TWD) 35 feet  
Length of the water column (LWC=TWD-DGW) 3.88 feet

1 casing volume (CV=LWC X C)=	<u>0.163</u>	<u>0.63</u>	gallons
3 casing volume (3 X CV)=	<u>3</u>	<u>1.90</u>	gallons

Total Volume of Water Purged Before Sampling 0 gals.  
\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	10:30						
pH (s.u.)	5.79						
Specific Conductivity (µmhos/cm)	235.9						
Water Temperature (°C)	21.5						
Dissolved Oxygen	2.95						
Turbidity (NTU)							
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 10:30 No Purge Sample

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
YSI 63	YSI 550A
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # MW-17

Water Supply Well      Public      Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 30.27 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 4.73 feet

1 casing volume (CV=LWC X C)= 0.163 X 0.77 gallons

3 casing volume (3 X CV)= 3 X 2.31 gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	10:37						
pH (s.u.)	6.35						
Specific Conductivity (µmhos/cm)	66.2						
Water Temperature (°C)	21.2						
Dissolved Oxygen	4.26						
Turbidity (NTU)							
PID readings, if required							

Remarks: Sample Time: 10:37 No Purge Sample

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 5/16/2012

**Field Personnel:** B. Owen, C. Lashley

**General Weather Conditions:** Partly Cloudy

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<b><u>pH/Conductivity Meter</u></b>	<b><u>DO Meter</u></b>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
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**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** MW-18

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** \_\_\_\_\_ feet

**Depth to Free Product (DFP)** \_\_\_\_\_ feet

**Depth to Ground Water (DGW)** 26.35 feet

**Total Well Depth (TWD)** 35 feet

**Length of the water column (LWC=TWD-DGW)** 8.65 feet

**1 casing volume (CV=LWC X C)=** \_\_\_\_\_ X 0.163

<u>1.41</u>
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 gallons

**3 casing volume (3 X CV)=** 3

<u>4.23</u>
-------------

 gallons

**Total Volume of Water Purged Before Sampling** 0 gals.

*\*If free product is present over 1/8 inch, sampling will not be required.*

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	13:42						
pH (s.u.)	5.42						
Specific Conductivity (µmhos/cm)	90.0						
Water Temperature (°C)	21.6						
Dissolved Oxygen	3.72						
Turbidity (NTU)							
PID readings, if required							

**Remarks:** \_\_\_\_\_ **Sample Time:** 13:42      **No Purge Sample**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # MW-19

Water Supply Well      Public      Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 27.10 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 7.9 feet

1 casing volume (CV=LWC X C)= _____ X <u>0.163</u>	<u>1.29</u>	gallons
3 casing volume (3 X CV)= _____ X <u>3</u>	<u>3.86</u>	gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	13:38						
pH (s.u.)	8.51						
Specific Conductivity (µmhos/cm)	125.1						
Water Temperature (°C)	23.2						
Dissolved Oxygen	3.76						
Turbidity (NTU)							
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 13:38 **No Purge Sample**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>		<u>DO Meter</u>	
<b>YSI 63</b>		<b>YSI 550A</b>	
09C 101302		04L 2026AK	
10K 101895	<u>X</u>	08B 101895	<u>X</u>
07M 100905		04A 0912AI	
Calibration Buffer:	<u>4, 7, &amp; 10</u>		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # MW-20

Water Supply Well Public Private         

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness:          feet

Depth to Free Product (DFP)          feet

Depth to Ground Water (DGW) 28.10 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 6.9 feet

1 casing volume (CV=LWC X C)=          X 0.163 = 1.12 gallons

3 casing volume (3 X CV)= 3 X 1.12 = 3.37 gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	15:08						
pH (s.u.)	5.06						
Specific Conductivity (µmhos/cm)	74.9						
Water Temperature (°C)	18.6						
Dissolved Oxygen	2.03						
Turbidity (NTU)							
PID readings, if required							

Remarks:          Sample Time: 15:08 No Purge Sample

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 5/16/2012

**Field Personnel:** B. Owen, C. Lashley

**General Weather Conditions:** Partly Cloudy

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<b><u>pH/Conductivity Meter</u></b>	<b><u>DO Meter</u></b>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

<u>Relinquished by</u>	<u>Date/Time</u>	<u>Received by</u>	<u>Date/Time</u>
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**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** MW-21

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** 0.02 feet

**Depth to Free Product (DFP)** 31.97 feet

**Depth to Ground Water (DGW)** 31.99 feet

**Total Well Depth (TWD)** 35 feet

**Length of the water column (LWC=TWD-DGW)** 3.01 feet

1 casing volume (CV=LWC X C)= _____ X	0.163	0.49	gallons
3 casing volume (3 X CV)=	3	1.47	gallons

**Total Volume of Water Purged Before Sampling** 0 gals.

*\*If free product is present over 1/8 inch, sampling will not be required.*

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:30						
pH (s.u.)	Product						
Specific Conductivity (µmhos/cm)	Product						
Water Temperature (°C)	Product						
Dissolved Oxygen	Product						
Turbidity (NTU)							
PID readings, if required							

**Remarks:** \_\_\_\_\_ **Sample Time:** 14:30      **No Purge Sample / Sampled Under Product (BTEX Only)**



**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

Ambient Air Temperature: 28.0 °C

Quality Assurance

<b>pH/Conductivity Meter</b>		<b>DO Meter</b>	
<b>YSI 63</b>		<b>YSI 550A</b>	
09C 101302		04L 2026AK	
10K 101895	<u>X</u>	08B 101895	<u>X</u>
07M 100905		04A 0912AI	
Calibration Buffer:	<u>4, 7, &amp; 10</u>		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # MW-22

Water Supply Well Public Private  

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness:   feet

Depth to Free Product (DFP)   feet

Depth to Ground Water (DGW) 30.50 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 4.5 feet

1 casing volume (CV=LWC X C)=   X 0.163 0.73 gallons

3 casing volume (3 X CV)= 3 2.20 gallons

Total Volume of Water Purged Before Sampling 0 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	11:08						
pH (s.u.)	6.02						
Specific Conductivity (µmhos/cm)	174.8						
Water Temperature (°C)	23.3						
Dissolved Oxygen	1.69						
Turbidity (NTU)							
PID readings, if required							

Remarks:   Sample Time: 11:08 No Purge Sample

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895 <u>X</u>	08B 101895 <u>X</u>
07M 100905	04A 0912A1
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
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Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # DW-1

Water Supply Well      Public      Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 31.00 feet

Total Well Depth (TWD) 70 feet

Length of the water column (LWC=TWD-DGW) 39 feet

1 casing volume (CV=LWC X C)= X 0.163 6.36 gallons

3 casing volume (3 X CV)= 3 19.07 gallons

Total Volume of Water Purged Before Sampling 3 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:14	14:18					
pH (s.u.)	6.18	6.54					
Specific Conductivity (µmhos/cm)	219.0	220.3					
Water Temperature (°C)	23.8	23.5					
Dissolved Oxygen	2.67	2.75					
Turbidity (NTU)	<5	20					
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 14:18 **Obstruction in well @ 45 feet**  
**Dry @ 3.0 Gallons**





**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program  
Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 5/16/2012

**Field Personnel:** B. Owen, C. Lashley

**General Weather Conditions:** Partly Cloudy

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<b>pH/Conductivity Meter</b>	<b>DO Meter</b>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302	04L 2026AK
10K 101895	08B 101895
07M 100905	04A 0912A1
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** DW-4

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** \_\_\_\_\_ feet

**Depth to Free Product (DFP)** \_\_\_\_\_ feet

**Depth to Ground Water (DGW)** 29.67 feet

**Total Well Depth (TWD)** 70 feet

**Length of the water column (LWC=TWD-DGW)** 40.33 feet

1 casing volume (CV=LWC X C)= _____ X	<u>0.163</u>	<u>6.57</u>	gallons
3 casing volume (3 X CV)=	<u>3</u>	<u>19.72</u>	gallons

**Total Volume of Water Purged Before Sampling** 3 gals.

*\*If free product is present over 1/8 inch, sampling will not be required.*

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:56	15:00					
pH (s.u.)	5.76	6.04					
Specific Conductivity (µmhos/cm)	157.5	161.2					
Water Temperature (°C)	20.9	21.0					
Dissolved Oxygen	3.76	3.82					
Turbidity (NTU)	40	100					
PID readings, if required							

**Remarks:** \_\_\_\_\_ **Sample Time:** 15:00      **Dry @ 3.0 Gallons**  
**Obstruction in Well**

**South Carolina Department of Health and Environmental Control**  
**Bureau of Land and Waste Management Underground Storage Tank Program**  
**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 5/16/2012

Field Personnel: B. Owen, C. Lashley

General Weather Conditions: Partly Cloudy

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
YSI 63	YSI 550A
09C 101302	04L 2026AK
10K 101895	08B 101895
<u>X</u>	<u>X</u>
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
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Facility Name: Interstate Truck Stop

Site ID#: 00332 Monitoring Well # DW-5

Water Supply Well Public Private Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 33.40 feet

Total Well Depth (TWD) 85 feet

Length of the water column (LWC=TWD-DGW) 51.6 feet

1 casing volume (CV=LWC X C)= _____ X <u>0.163</u>	<u>8.41</u>	gallons
3 casing volume (3 X CV)= _____ X <u>3</u>	<u>25.23</u>	gallons

Total Volume of Water Purged Before Sampling 8 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	11:48	11:53					
pH (s.u.)	11.40	11.52					
Specific Conductivity (µmhos/cm)	832.0	831.0					
Water Temperature (°C)	21.2	20.8					
Dissolved Oxygen	6.30	6.54					
Turbidity (NTU)	240+	240+					
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 11:53 **Dry @ 8.0 Gallons**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 5/16/2012

**Field Personnel:** B. Owen, C. Lashley

**General Weather Conditions:** Partly Cloudy

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<b>pH/Conductivity Meter</b>		<b>DO Meter</b>	
<b>YSI 63</b>		<b>YSI 550A</b>	
09C 101302		04L 2026AK	
10K 101895	<u>X</u>	08B 101895	<u>X</u>
07M 100905		04A 0912AI	
Calibration Buffer:	<u>4, 7, &amp; 10</u>		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

**Facility Name:** Interstate Truck Stop

**Site ID#:** 00332      **Monitoring Well #** DW-6

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** \_\_\_\_\_ feet

**Depth to Free Product (DFP)** \_\_\_\_\_ feet

**Depth to Ground Water (DGW)** 33.25 feet

**Total Well Depth (TWD)** 85 feet

**Length of the water column (LWC=TWD-DGW)** 51.75 feet

1 casing volume (CV=LWC X C)= _____ X	<u>0.163</u>	<u>8.44</u>	gallons
3 casing volume (3 X CV)=	<u>3</u>	<u>25.31</u>	gallons

**Total Volume of Water Purged Before Sampling** 8 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	11:15	11:26					
pH (s.u.)	6.62	5.64					
Specific Conductivity (µmhos/cm)	125.3	126.5					
Water Temperature (°C)	22.3	21.8					
Dissolved Oxygen	5.61	4.67					
Turbidity (NTU)	<5	200					
PID readings, if required							

**Remarks:** \_\_\_\_\_ **Sample Time:** 11:26      **Dry @ 8.0 Gallons**

# SHEALY ENVIRONMENTAL SERVICES, INC.

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## Report of Analysis

### Midlands Environmental Consultants, Inc.

235 Dooley Rd  
Lexington, SC 29073  
Attention: Bryan Shane

Project Name: **Interstate Truck Stop**

Project Number: **12-3888**

Lot Number: **NE17054**

Date Completed: **05/30/2012**

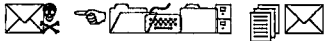


**Kelly M. Maberry**  
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

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





# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

## Case Narrative Midlands Environmental Consultants, Inc. Lot Number: NE17054

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

### Sample Receiving

Samples -001, -010 and -023 for volatiles analysis contained vials with air bubbles greater than ¼" or 6mm in diameter. The laboratory uses these vials for screening and the vials without bubbles for analysis whenever possible. Condition of samples is documented on the Sample Receipt Checklist (SRC).

### GC/MS Volatiles

The LCS/LCSD associated with batches had 85205 and 85307 had ethanol recovered above the acceptance limits. This demonstrates a high bias on analytical results. There were no detections for this compound in the samples associated with these batches; therefore, data quality is not impacted.

The RPD for ethanol exceeded method control limits in batch 85346; however, all other QA/QC criteria for this compound in the LCS/LCSD were within acceptance criteria and method control limits. The associated sample results were reported and no corrective action was required.

The MS/MSD associated with samples -005 and -020 had volatile compounds recovered outside of the acceptance limits. This demonstrates a matrix effect and data quality is not impacted.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary Midlands Environmental Consultants, Inc. Lot Number: NE17054

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	05/16/2012 1347	05/17/2012
002	MW-1 Duplicate	Aqueous	05/16/2012 1347	05/17/2012
003	MW-2	Aqueous	05/16/2012 1422	05/17/2012
004	MW-3	Aqueous	05/16/2012 1400	05/17/2012
005	MW-4R	Aqueous	05/16/2012 1406	05/17/2012
006	MW-4R Duplicate	Aqueous	05/16/2012 1406	05/17/2012
007	MW-5R	Aqueous	05/16/2012 1123	05/17/2012
008	MW-6	Aqueous	05/16/2012 1433	05/17/2012
009	MW-7	Aqueous	05/16/2012 1147	05/17/2012
010	MW-8	Aqueous	05/16/2012 1042	05/17/2012
011	MW-9	Aqueous	05/16/2012 1048	05/17/2012
012	MW-10	Aqueous	05/16/2012 1215	05/17/2012
013	MW-11	Aqueous	05/16/2012 1448	05/17/2012
014	MW-12	Aqueous	05/16/2012 1450	05/17/2012
015	MW-13	Aqueous	05/16/2012 1505	05/17/2012
016	MW-14	Aqueous	05/16/2012 1100	05/17/2012
017	MW-15	Aqueous	05/16/2012 1025	05/17/2012
018	MW-16	Aqueous	05/16/2012 1030	05/17/2012
019	MW-17	Aqueous	05/16/2012 1037	05/17/2012
020	MW-18	Aqueous	05/16/2012 1342	05/17/2012
021	MW-19	Aqueous	05/16/2012 1338	05/17/2012
022	MW-20	Aqueous	05/16/2012 1508	05/17/2012
023	MW-21	Aqueous	05/16/2012 1430	05/17/2012
024	MW-22	Aqueous	05/16/2012 1108	05/17/2012
025	DW-1	Aqueous	05/16/2012 1418	05/17/2012
026	DW-2	Aqueous	05/16/2012 1215	05/17/2012
027	DW-3	Aqueous	05/16/2012 1054	05/17/2012
028	DW-4	Aqueous	05/16/2012 1500	05/17/2012
029	DW-5	Aqueous	05/16/2012 1153	05/17/2012
030	DW-6	Aqueous	05/16/2012 1126	05/17/2012
031	WSW-2	Aqueous	05/16/2012 1203	05/17/2012
032	Field Blank	Aqueous	05/16/2012 1515	05/17/2012
033	Trip Blank	Aqueous	05/16/2012 1510	05/17/2012

(33 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary Midlands Environmental Consultants, Inc. Lot Number: NE17054

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Benzene	8260B	2.4	J	ug/L	6
001	MW-1	Aqueous	Ethylbenzene	8260B	4.3	J	ug/L	6
001	MW-1	Aqueous	Xylenes (total)	8260B	2.9	J	ug/L	6
002	MW-1 Duplicate	Aqueous	Benzene	8260B	2.6	J	ug/L	8
002	MW-1 Duplicate	Aqueous	Ethylbenzene	8260B	5.5		ug/L	8
002	MW-1 Duplicate	Aqueous	Naphthalene	8260B	1.7	J	ug/L	8
002	MW-1 Duplicate	Aqueous	Xylenes (total)	8260B	3.5	J	ug/L	8
003	MW-2	Aqueous	Benzene	8260B	150		ug/L	10
003	MW-2	Aqueous	Ethylbenzene	8260B	2100		ug/L	10
003	MW-2	Aqueous	Naphthalene	8260B	320		ug/L	10
003	MW-2	Aqueous	Toluene	8260B	4600		ug/L	10
003	MW-2	Aqueous	Xylenes (total)	8260B	14000		ug/L	10
003	MW-2	Aqueous	1,2-Dibromoethane (EDB)	8011	0.089		ug/L	11
004	MW-3	Aqueous	Benzene	8260B	1.7	J	ug/L	12
004	MW-3	Aqueous	Ethylbenzene	8260B	9.6		ug/L	12
004	MW-3	Aqueous	Naphthalene	8260B	27		ug/L	12
004	MW-3	Aqueous	Xylenes (total)	8260B	44		ug/L	12
005	MW-4R	Aqueous	Benzene	8260B	18	J	ug/L	13
005	MW-4R	Aqueous	Ethylbenzene	8260B	350		ug/L	13
005	MW-4R	Aqueous	Naphthalene	8260B	120		ug/L	13
005	MW-4R	Aqueous	Toluene	8260B	620		ug/L	13
005	MW-4R	Aqueous	Xylenes (total)	8260B	1600		ug/L	13
005	MW-4R	Aqueous	tert-Amyl alcohol (TAA)	8260B	1300		ug/L	13
006	MW-4R Duplicate	Aqueous	Benzene	8260B	19	J	ug/L	15
006	MW-4R Duplicate	Aqueous	Ethylbenzene	8260B	470		ug/L	15
006	MW-4R Duplicate	Aqueous	Naphthalene	8260B	120		ug/L	15
006	MW-4R Duplicate	Aqueous	Toluene	8260B	740		ug/L	15
006	MW-4R Duplicate	Aqueous	Xylenes (total)	8260B	2100		ug/L	15
006	MW-4R Duplicate	Aqueous	tert-Amyl alcohol (TAA)	8260B	1200		ug/L	15
007	MW-5R	Aqueous	Benzene	8260B	2.6	J	ug/L	17
007	MW-5R	Aqueous	Ethylbenzene	8260B	180		ug/L	17
007	MW-5R	Aqueous	Naphthalene	8260B	190		ug/L	17
007	MW-5R	Aqueous	Toluene	8260B	10	J	ug/L	17
007	MW-5R	Aqueous	Xylenes (total)	8260B	760		ug/L	17
008	MW-6	Aqueous	Benzene	8260B	43	J	ug/L	19
008	MW-6	Aqueous	Ethylbenzene	8260B	1100		ug/L	19
008	MW-6	Aqueous	Naphthalene	8260B	300		ug/L	19
008	MW-6	Aqueous	Toluene	8260B	1300		ug/L	19
008	MW-6	Aqueous	Xylenes (total)	8260B	5100		ug/L	19
008	MW-6	Aqueous	tert-Amyl alcohol (TAA)	8260B	2500		ug/L	19
011	MW-9	Aqueous	Benzene	8260B	17	J	ug/L	25
011	MW-9	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	25		ug/L	25
011	MW-9	Aqueous	Naphthalene	8260B	53		ug/L	25
011	MW-9	Aqueous	Diisopropyl ether (IPE)	8260B	440		ug/L	25
011	MW-9	Aqueous	tert-butyl alcohol (TBA)	8260B	1100		ug/L	25

## Executive Summary (Continued)

Lot Number: NE17054

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
016	MW-14	Aqueous	Benzene	8260B	230	J	ug/L	35
016	MW-14	Aqueous	Ethylbenzene	8260B	2700		ug/L	35
016	MW-14	Aqueous	Naphthalene	8260B	1100		ug/L	35
016	MW-14	Aqueous	Toluene	8260B	20000		ug/L	35
016	MW-14	Aqueous	Xylenes (total)	8260B	15000		ug/L	35
016	MW-14	Aqueous	tert-Amyl alcohol (TAA)	8260B	12000		ug/L	35
016	MW-14	Aqueous	1,2-Dibromoethane (EDB)	8011	0.46		ug/L	36
017	MW-15	Aqueous	Naphthalene	8260B	10		ug/L	37
018	MW-16	Aqueous	Benzene	8260B	18	J	ug/L	39
018	MW-16	Aqueous	Ethylbenzene	8260B	330		ug/L	39
018	MW-16	Aqueous	Naphthalene	8260B	440		ug/L	39
018	MW-16	Aqueous	Toluene	8260B	180		ug/L	39
018	MW-16	Aqueous	Xylenes (total)	8260B	4400		ug/L	39
018	MW-16	Aqueous	tert-Amyl alcohol (TAA)	8260B	1200		ug/L	39
021	MW-19	Aqueous	Benzene	8260B	4.2	J	ug/L	45
021	MW-19	Aqueous	Ethylbenzene	8260B	140		ug/L	45
021	MW-19	Aqueous	Naphthalene	8260B	71		ug/L	45
021	MW-19	Aqueous	Toluene	8260B	98		ug/L	45
021	MW-19	Aqueous	Xylenes (total)	8260B	1200		ug/L	45
021	MW-19	Aqueous	tert-Amyl alcohol (TAA)	8260B	620		ug/L	45
021	MW-19	Aqueous	1,2-Dibromoethane (EDB)	8011	0.075		ug/L	46
023	MW-21	Aqueous	Benzene	8260B	26	J	ug/L	49
023	MW-21	Aqueous	Ethylbenzene	8260B	790		ug/L	49
023	MW-21	Aqueous	Naphthalene	8260B	530		ug/L	49
023	MW-21	Aqueous	Toluene	8260B	520		ug/L	49
023	MW-21	Aqueous	Xylenes (total)	8260B	3600		ug/L	49
024	MW-22	Aqueous	Benzene	8260B	21	J	ug/L	50
024	MW-22	Aqueous	Ethylbenzene	8260B	820		ug/L	50
024	MW-22	Aqueous	Naphthalene	8260B	270		ug/L	50
024	MW-22	Aqueous	Toluene	8260B	930		ug/L	50
024	MW-22	Aqueous	Xylenes (total)	8260B	4600		ug/L	50
024	MW-22	Aqueous	tert-Amyl alcohol (TAA)	8260B	1200		ug/L	50
027	DW-3	Aqueous	Benzene	8260B	11		ug/L	56
027	DW-3	Aqueous	Ethylbenzene	8260B	4.9	J	ug/L	56
027	DW-3	Aqueous	Naphthalene	8260B	15		ug/L	56
027	DW-3	Aqueous	Xylenes (total)	8260B	57		ug/L	56
027	DW-3	Aqueous	tert-Amyl alcohol (TAA)	8260B	210		ug/L	56

(82 detections)

Description: MW-1

Matrix: Aqueous

Date Sampled: 05/16/2012 1347

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	05/22/2012 1158	AAC		85307				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	2.4	J	5.0	0.20	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1			
Ethylbenzene	100-41-4	8260B	4.3	J	5.0	1.7	ug/L	1			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1			
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1			
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1			
Xylenes (total)	1330-20-7	8260B	2.9	J	5.0	1.7	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		102	70-130								
Bromofluorobenzene		117	70-130								
Toluene-d8		87	70-130								

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	1	05/22/2012 1158	AAC		85307				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1			
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1			
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1			
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1			
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
Bromofluorobenzene		117	70-130								
1,2-Dichloroethane-d4		102	70-130								
Toluene-d8		87	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/21/2012 2204	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs).

Description: MW-1

Matrix: Aqueous

Date Sampled: 05/16/2012 1347

Date Received: 05/17/2012

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/21/2012 2204	MPM	05/19/2012 1054	85156

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

Surrogate	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	130	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"

\* = Reportable result (only when report all runs)

Description: MW-1 Duplicate

Matrix: Aqueous

Date Sampled: 05/16/2012 1347

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1222	AAC		85307			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	2.6	J	5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	5.5		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	1.7	J	5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	3.5	J	5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		99	70-130							
Bromofluorobenzene		118	70-130							
Toluene-d8		83	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1222	AAC		85307			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		118	70-130							
1,2-Dichloroethane-d4		99	70-130							
Toluene-d8		83	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/21/2012 2225	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-002

Description: MW-1 Duplicate

Matrix: Aqueous

Date Sampled: 05/16/2012 1347

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/21/2012 2225	MPM	05/19/2012 1054	85156			
Parameter	CAS Number		Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4		8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		119	57-137							

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"

\* = Reportable result (only when report all runs)



Description: MW-2

Matrix: Aqueous

Date Sampled: 05/16/2012 1422

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	20	05/24/2012 1930	DD		85515
3	5030B	8260B	50	05/26/2012 0429	DD		85622

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	150		100	4.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		100	6.0	ug/L	2
Ethylbenzene	100-41-4	8260B	2100		100	34	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	8.0	ug/L	2
Naphthalene	91-20-3	8260B	320		100	34	ug/L	2
Toluene	108-88-3	8260B	4600		100	34	ug/L	2
Xylenes (total)	1330-20-7	8260B	14000		250	85	ug/L	3

Surrogate	Run 2		Acceptance		Run 3		Acceptance	
	Q	% Recovery	Limits		Q	% Recovery	Limits	
1,2-Dichloroethane-d4		88	70-130			94	70-130	
Bromofluorobenzene		90	70-130			99	70-130	
Toluene-d8		84	70-130			100	70-130	

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	20	05/24/2012 1930	DD		85515

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		200	8.0	ug/L	2
Ethanol	64-17-5	8260B	ND		20000	660	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	20	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		2000	4.0	ug/L	2
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		2000	130	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	4.0	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	130	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2000	20	ug/L	2

Surrogate	Run 2		Acceptance	
	Q	% Recovery	Limits	
Bromofluorobenzene		90	70-130	
1,2-Dichloroethane-d4		88	70-130	
Toluene-d8		84	70-130	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-003

Description: MW-2

Matrix: Aqueous

Date Sampled: 05/16/2012 1422

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/22/2012 2134	MPM	05/19/2012 1054	85156

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.089		0.019	0.019	ug/L	1

Surrogate	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	107	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < 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"

\* = Reportable result (only when report all runs)

Description: MW-3

Matrix: Aqueous

Date Sampled: 05/16/2012 1400

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	1	05/24/2012 1439	AAC		85487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	1.7	J	5.0	0.20	ug/L	2		
Ethylbenzene	100-41-4	8260B	9.6		5.0	1.7	ug/L	2		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2		
Naphthalene	91-20-3	8260B	27		5.0	1.7	ug/L	2		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	2		
Xylenes (total)	1330-20-7	8260B	44		5.0	1.7	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		100	70-130							
Bromofluorobenzene		100	70-130							
Toluene-d8		101	70-130							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-4R

Matrix: Aqueous

Date Sampled: 05/16/2012 1406

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	10	05/24/2012 1957	DD		85515			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	18	J	50	2.0	ug/L	2		
1,2-Dichloroethane	107-06-2	8260B	ND		50	3.0	ug/L	2		
Ethylbenzene	100-41-4	8260B	350		50	17	ug/L	2		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	2		
Naphthalene	91-20-3	8260B	120		50	17	ug/L	2		
Toluene	108-88-3	8260B	620		50	17	ug/L	2		
Xylenes (total)	1330-20-7	8260B	1600		50	17	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		101	70-130							
Bromofluorobenzene		99	70-130							
Toluene-d8		97	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	10	05/24/2012 1957	DD		85515			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		100	4.0	ug/L	2		
Ethanol	64-17-5	8260B	ND		10000	330	ug/L	2		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	10	ug/L	2		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	2.0	ug/L	2		
tert-Amyl alcohol (TAA)	75-85-4	8260B	1300		1000	67	ug/L	2		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	2.0	ug/L	2		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	67	ug/L	2		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	10	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
Bromofluorobenzene		99	70-130							
1,2-Dichloroethane-d4		101	70-130							
Toluene-d8		97	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/21/2012 2308	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-4R

Matrix: Aqueous

Date Sampled: 05/16/2012 1406

Date Received: 05/17/2012

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/21/2012 2308	MPM	05/19/2012 1054	85156

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

Surrogate	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	126	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"

\* = Reportable result (only when report all runs)

Description: MW-4R Duplicate

Matrix: Aqueous

Date Sampled: 05/16/2012 1406

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	10	05/24/2012 2025	DD		85515			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	19	J	50	2.0	ug/L	2		
1,2-Dichloroethane	107-06-2	8260B	ND		50	3.0	ug/L	2		
Ethylbenzene	100-41-4	8260B	470		50	17	ug/L	2		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	2		
Naphthalene	91-20-3	8260B	120		50	17	ug/L	2		
Toluene	108-88-3	8260B	740		50	17	ug/L	2		
Xylenes (total)	1330-20-7	8260B	2100		50	17	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		102	70-130							
Bromofluorobenzene		101	70-130							
Toluene-d8		97	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	10	05/24/2012 2025	DD		85515			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		100	4.0	ug/L	2		
Ethanol	64-17-5	8260B	ND		10000	330	ug/L	2		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	10	ug/L	2		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	2.0	ug/L	2		
tert-Amyl alcohol (TAA)	75-85-4	8260B	1200		1000	67	ug/L	2		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	2.0	ug/L	2		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	67	ug/L	2		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	10	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
Bromofluorobenzene		101	70-130							
1,2-Dichloroethane-d4		102	70-130							
Toluene-d8		97	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 2155	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-006

Description: MW-4R Duplicate

Matrix: Aqueous

Date Sampled: 05/16/2012 1406

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 2155	MPM	05/19/2012 1054	85156			
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		107	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < 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"

\* = Reportable result (only when report all runs)

Description: MW-5R

Matrix: Aqueous

Date Sampled: 05/16/2012 1123

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	5	05/24/2012 2053	DD		85515			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	2.6	J	25	1.0	ug/L	2		
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	2		
Ethylbenzene	100-41-4	8260B	180		25	8.5	ug/L	2		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	2		
Naphthalene	91-20-3	8260B	190		25	8.5	ug/L	2		
Toluene	108-88-3	8260B	10	J	25	8.5	ug/L	2		
Xylenes (total)	1330-20-7	8260B	760		25	8.5	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		105	70-130							
Bromofluorobenzene		103	70-130							
Toluene-d8		98	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	5	05/24/2012 2053	DD		85515			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	2.0	ug/L	2		
Ethanol	64-17-5	8260B	ND		5000	170	ug/L	2		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		500	5.0	ug/L	2		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	1.0	ug/L	2		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		500	34	ug/L	2		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	2		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		500	34	ug/L	2		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	5.0	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
Bromofluorobenzene		103	70-130							
1,2-Dichloroethane-d4		105	70-130							
Toluene-d8		98	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/21/2012 2350	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)



Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-007

Description: MW-5R

Matrix: Aqueous

Date Sampled: 05/16/2012 1123

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/21/2012 2350	MPM	05/19/2012 1054	85156

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	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	131	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"

\* = Reportable result (only when report all runs)

Description: MW-6

Matrix: Aqueous

Date Sampled: 05/16/2012 1433

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	20	05/24/2012 2120	DD		85515			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	43	J	100	4.0	ug/L	2		
1,2-Dichloroethane	107-06-2	8260B	ND		100	6.0	ug/L	2		
Ethylbenzene	100-41-4	8260B	1100		100	34	ug/L	2		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	8.0	ug/L	2		
Naphthalene	91-20-3	8260B	300		100	34	ug/L	2		
Toluene	108-88-3	8260B	1300		100	34	ug/L	2		
Xylenes (total)	1330-20-7	8260B	5100		100	34	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		105	70-130							
Bromofluorobenzene		101	70-130							
Toluene-d8		95	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	20	05/24/2012 2120	DD		85515			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		200	8.0	ug/L	2		
Ethanol	64-17-5	8260B	ND		20000	660	ug/L	2		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	20	ug/L	2		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		2000	4.0	ug/L	2		
tert-Amyl alcohol (TAA)	75-85-4	8260B	2500		2000	130	ug/L	2		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	4.0	ug/L	2		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	130	ug/L	2		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2000	20	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
Bromofluorobenzene		101	70-130							
1,2-Dichloroethane-d4		105	70-130							
Toluene-d8		95	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0011	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-6

Matrix: Aqueous

Date Sampled: 05/16/2012 1433

Date Received: 05/17/2012

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0011	MPM	05/19/2012 1054	85156			
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		125	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"

\* = Reportable result (only when report all runs)

Description: MW-7

Matrix: Aqueous

Date Sampled: 05/16/2012 1147

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1246	AAC		85307			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		103	70-130							
Bromofluorobenzene		125	70-130							
Toluene-d8		80	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1246	AAC		85307			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		125	70-130							
1,2-Dichloroethane-d4		103	70-130							
Toluene-d8		80	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0033	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-7

Matrix: Aqueous

Date Sampled: 05/16/2012 1147

Date Received: 05/17/2012

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0033	MPM	05/19/2012 1054	85156			
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		131	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"

\* = Reportable result (only when report all runs)

Description: MW-8

Matrix: Aqueous

Date Sampled: 05/16/2012 1042

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2012 1311	AAC		85307

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		123	70-130
Toluene-d8		83	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2012 1311	AAC		85307

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		123	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		83	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/22/2012 0054	MPM	05/19/2012 1054	85156

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
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PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-8

Matrix: Aqueous

Date Sampled: 05/16/2012 1042

Date Received: 05/17/2012

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0054	MPM	05/19/2012 1054	85156			
Parameter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)			106-93-4	8011	ND		0.020	0.020	ug/L	1
Surrogate		Run 1	Acceptance							
		Q	% Recovery	Limits						
1,1,1,2-Tetrachloroethane			130	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"

\* = Reportable result (only when report all runs)

Description: MW-9

Matrix: Aqueous

Date Sampled: 05/16/2012 1048

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	05/24/2012 2147	DD		85515

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	17	J	25	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	25		25	2.0	ug/L	1
Naphthalene	91-20-3	8260B	53		25	8.5	ug/L	1
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		88	70-130
Toluene-d8		92	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	05/24/2012 2147	DD		85515

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	440		50	2.0	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	170	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		500	5.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	1.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		500	34	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	1100		500	34	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		88	70-130
1,2-Dichloroethane-d4		109	70-130
Toluene-d8		92	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/22/2012 0115	MPM	05/19/2012 1054	85156

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
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PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)



Client: **Midlands Environmental Consultants, Inc.**

Laboratory ID: **NE17054-011**

Description: **MW-9**

Matrix: **Aqueous**

Date Sampled: **05/16/2012 1048**

Date Received: **05/17/2012**

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch					
1	8011	8011	1	05/22/2012 0115	MPM	05/19/2012 1054	85156					
Parameter				CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)				106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate			Run 1	Acceptance								
1,1,1,2-Tetrachloroethane			% Recovery	Limits								
			97	57-137								

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the 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"

\* = Reportable result (only when report all runs)

Description: MW-10

Matrix: Aqueous

Date Sampled: 05/16/2012 1215

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1335	AAC		85307			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		99	70-130							
Bromofluorobenzene		121	70-130							
Toluene-d8		84	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1335	AAC		85307			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		121	70-130							
1,2-Dichloroethane-d4		99	70-130							
Toluene-d8		84	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0136	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-10

Matrix: Aqueous

Date Sampled: 05/16/2012 1215

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0136	MPM	05/19/2012 1054	85156			
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		130	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"

\* = Reportable result (only when report all runs)

Description: MW-11

Matrix: Aqueous

Date Sampled: 05/16/2012 1448

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1359	AAC		85307			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		96	70-130							
Bromofluorobenzene		122	70-130							
Toluene-d8		84	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1359	AAC		85307			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		122	70-130							
1,2-Dichloroethane-d4		96	70-130							
Toluene-d8		84	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0157	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0157	MPM	05/19/2012 1054	85156			
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		128	57-137							

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the MDL      J = Estimated result < 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"      \* = Reportable result (only when report all runs)

Description: MW-12

Matrix: Aqueous

Date Sampled: 05/16/2012 1450

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2012 1424	AAC		85307

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		118	70-130
Toluene-d8		81	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2012 1424	AAC		85307

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		118	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		81	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/22/2012 0218	MPM	05/19/2012 1054	85156

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
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PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-12

Matrix: Aqueous

Date Sampled: 05/16/2012 1450

Date Received: 05/17/2012

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0218	MPM	05/19/2012 1054	85156			
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		133	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-13

Matrix: Aqueous

Date Sampled: 05/16/2012 1505

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1448	AAC		85307			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		98	70-130							
Bromofluorobenzene		121	70-130							
Toluene-d8		82	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1448	AAC		85307			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		121	70-130							
1,2-Dichloroethane-d4		98	70-130							
Toluene-d8		82	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 0239	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)



**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/22/2012 0239	MPM	05/19/2012 1054	85156

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	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	134	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"

\* = Reportable result (only when report all runs)

Description: MW-14

Matrix: Aqueous

Date Sampled: 05/16/2012 1100

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	100	05/24/2012 2214	DD		85515				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	230	J	500	20	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		500	30	ug/L	1			
Ethylbenzene	100-41-4	8260B	2700		500	170	ug/L	1			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	40	ug/L	1			
Naphthalene	91-20-3	8260B	1100		500	170	ug/L	1			
Toluene	108-88-3	8260B	20000		500	170	ug/L	1			
Xylenes (total)	1330-20-7	8260B	15000		500	170	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		106	70-130								
Bromofluorobenzene		102	70-130								
Toluene-d8		96	70-130								

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	100	05/24/2012 2214	DD		85515				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1000	40	ug/L	1			
Ethanol	64-17-5	8260B	ND		100000	3300	ug/L	1			
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	100	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		10000	20	ug/L	1			
tert-Amyl alcohol (TAA)	75-85-4	8260B	12000		10000	670	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	20	ug/L	1			
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		10000	670	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		10000	100	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
Bromofluorobenzene		102	70-130								
1,2-Dichloroethane-d4		106	70-130								
Toluene-d8		96	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/22/2012 2217	MPM	05/19/2012 1054	85156			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-14

Matrix: Aqueous

Date Sampled: 05/16/2012 1100

Date Received: 05/17/2012

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/22/2012 2217	MPM	05/19/2012 1054	85156

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.46		0.019	0.019	ug/L	1

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

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-15

Matrix: Aqueous

Date Sampled: 05/16/2012 1025

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	05/24/2012 1225	AAC		85487

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2
Naphthalene	91-20-3	8260B	10		5.0	1.7	ug/L	2
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		95	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	05/24/2012 1225	AAC		85487

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		85	70-130
1,2-Dichloroethane-d4		111	70-130
Toluene-d8		95	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0003	MPM	05/21/2012 0950	85185

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
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PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-15

Matrix: Aqueous

Date Sampled: 05/16/2012 1025

Date Received: 05/17/2012

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0003	MPM	05/21/2012 0950	85185

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		106	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-16

Matrix: Aqueous

Date Sampled: 05/16/2012 1030

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	10	05/24/2012 2241	DD		85515				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	18	J	50	2.0	ug/L	1			
1,2-Dichloroethane	107-06-2	8260B	ND		50	3.0	ug/L	1			
Ethylbenzene	100-41-4	8260B	330		50	17	ug/L	1			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	1			
Naphthalene	91-20-3	8260B	440		50	17	ug/L	1			
Toluene	108-88-3	8260B	180		50	17	ug/L	1			
Xylenes (total)	1330-20-7	8260B	4400		50	17	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		104	70-130								
Bromofluorobenzene		107	70-130								
Toluene-d8		97	70-130								

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
1	5030B	8260B	10	05/24/2012 2241	DD		85515				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Diisopropyl ether (IPE)	108-20-3	8260B	ND		100	4.0	ug/L	1			
Ethanol	64-17-5	8260B	ND		10000	330	ug/L	1			
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	10	ug/L	1			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	2.0	ug/L	1			
tert-Amyl alcohol (TAA)	75-85-4	8260B	1200		1000	67	ug/L	1			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	2.0	ug/L	1			
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	67	ug/L	1			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	10	ug/L	1			
Surrogate	Q	Run 1 % Recovery	Acceptance Limits								
Bromofluorobenzene		107	70-130								
1,2-Dichloroethane-d4		104	70-130								
Toluene-d8		97	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0024	MPM	05/21/2012 0950	85185			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-16

Matrix: Aqueous

Date Sampled: 05/16/2012 1030

Date Received: 05/17/2012

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0024	MPM	05/21/2012 0950	85185			
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		112	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-17

Matrix: Aqueous

Date Sampled: 05/16/2012 1037

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	1	05/24/2012 1252	AAC		85487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	2		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	2		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	2		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	2		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		111	70-130							
Bromofluorobenzene		85	70-130							
Toluene-d8		94	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	1	05/24/2012 1252	AAC		85487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	2		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
Bromofluorobenzene		85	70-130							
1,2-Dichloroethane-d4		111	70-130							
Toluene-d8		94	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0045	MPM	05/21/2012 0950	85185			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)



Description: MW-17

Matrix: Aqueous

Date Sampled: 05/16/2012 1037

Date Received: 05/17/2012

**EDB & DBCP by Microextraction**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0045	MPM	05/21/2012 0950	85185			
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		104	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Description: MW-18

Matrix: Aqueous

Date Sampled: 05/16/2012 1342

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1020	AAC		85300			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		101	70-130							
Bromofluorobenzene		97	70-130							
Toluene-d8		97	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1020	AAC		85300			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		97	70-130							
1,2-Dichloroethane-d4		101	70-130							
Toluene-d8		97	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0106	MPM	05/21/2012 0950	85185			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-020

Description: MW-18

Matrix: Aqueous

Date Sampled: 05/16/2012 1342

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0106	MPM	05/21/2012 0950	85185			
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		111	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"

\* = Reportable result (only when report all runs)

Description: MW-19

Matrix: Aqueous

Date Sampled: 05/16/2012 1338

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	5	05/24/2012 2308	DD		85515			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	4.2	J	25	1.0	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1		
Ethylbenzene	100-41-4	8260B	140		25	8.5	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1		
Naphthalene	91-20-3	8260B	71		25	8.5	ug/L	1		
Toluene	108-88-3	8260B	98		25	8.5	ug/L	1		
Xylenes (total)	1330-20-7	8260B	1200		25	8.5	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		104	70-130							
Bromofluorobenzene		104	70-130							
Toluene-d8		98	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	5	05/24/2012 2308	DD		85515			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	2.0	ug/L	1		
Ethanol	64-17-5	8260B	ND		5000	170	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		500	5.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	1.0	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	620		500	34	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		500	34	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	5.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		104	70-130							
1,2-Dichloroethane-d4		104	70-130							
Toluene-d8		98	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0127	MPM	05/21/2012 0950	85185			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-021

Description: MW-19

Matrix: Aqueous

Date Sampled: 05/16/2012 1338

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0127	MPM	05/21/2012 0950	85185

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.075		0.019	0.019	ug/L	1

Surrogate	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	129	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"

\* = Reportable result (only when report all runs)

Description: MW-20

Matrix: Aqueous

Date Sampled: 05/16/2012 1508

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	1	05/24/2012 1319	AAC		85487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	2		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	2		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	2		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	2		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		111	70-130							
Bromofluorobenzene		85	70-130							
Toluene-d8		95	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	1	05/24/2012 1319	AAC		85487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	2		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
Bromofluorobenzene		85	70-130							
1,2-Dichloroethane-d4		111	70-130							
Toluene-d8		95	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0149	MPM	05/21/2012 0950	85185			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
<p>PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time</p> <p>ND = Not detected at or above the MDL      J = Estimated result &lt; PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria</p> <p>Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      * = Reportable result (only when report all runs)</p>										

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-022

Description: MW-20

Matrix: Aqueous

Date Sampled: 05/16/2012 1508

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0149	MPM	05/21/2012 0950	85185

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	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	107	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < 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"

\* = Reportable result (only when report all runs)

Description: MW-21

Matrix: Aqueous

Date Sampled: 05/16/2012 1430

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	05/24/2012 0421	DD		85423
2	5030B	8260B	20	05/26/2012 0454	DD		85622

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	26	J	50	2.0	ug/L	1
Ethylbenzene	100-41-4	8260B	790		50	17	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	1
Naphthalene	91-20-3	8260B	530		50	17	ug/L	1
Toluene	108-88-3	8260B	520		50	17	ug/L	1
Xylenes (total)	1330-20-7	8260B	3600		100	34	ug/L	2

Surrogate	Run 1		Acceptance Limits	Run 2		
	Q	% Recovery		Q	% Recovery	
1,2-Dichloroethane-d4		99	70-130		95	70-130
Bromofluorobenzene		102	70-130		101	70-130
Toluene-d8		102	70-130		99	70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)



Description: MW-22

Matrix: Aqueous

Date Sampled: 05/16/2012 1108

Date Received: 05/17/2012

### Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	05/24/2012 2335	DD		85515

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	21	J	50	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		50	3.0	ug/L	1
Ethylbenzene	100-41-4	8260B	820		50	17	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	1
Naphthalene	91-20-3	8260B	270		50	17	ug/L	1
Toluene	108-88-3	8260B	930		50	17	ug/L	1
Xylenes (total)	1330-20-7	8260B	4600		50	17	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		96	70-130

### Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	05/24/2012 2335	DD		85515

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		100	4.0	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	330	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	10	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	2.0	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	1200		1000	67	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	2.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	67	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	10	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		106	70-130
1,2-Dichloroethane-d4		101	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	05/23/2012 0210	MPM	05/21/2012 0950	85185

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
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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"

\* = Reportable result (only when report all runs)

Client: **Midlands Environmental Consultants, Inc.**

Laboratory ID: **NE17054-024**

Description: **MW-22**

Matrix: **Aqueous**

Date Sampled: **05/16/2012 1108**

Date Received: **05/17/2012**

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0210	MPM	05/21/2012 0950	85185

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		113	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"

\* = Reportable result (only when report all runs)

Description: DW-1

Matrix: Aqueous

Date Sampled: 05/16/2012 1418

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1041	AAC		85300			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		102	70-130							
Bromofluorobenzene		97	70-130							
Toluene-d8		97	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1041	AAC		85300			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		97	70-130							
1,2-Dichloroethane-d4		102	70-130							
Toluene-d8		97	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0231	MPM	05/21/2012 0950	85185			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-025

Description: DW-1

Matrix: Aqueous

Date Sampled: 05/16/2012 1418

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0231	MPM	05/21/2012 0950	85185

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	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	106	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < 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"

\* = Reportable result (only when report all runs)

Description: DW-2

Matrix: Aqueous

Date Sampled: 05/16/2012 12:15

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2012 1102	AAC		85300

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		98	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2012 1102	AAC		85300

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		98	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0252	MPM	05/21/2012 0950	85185

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
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PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-026

Description: DW-2

Matrix: Aqueous

Date Sampled: 05/16/2012 1215

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0252	MPM	05/21/2012 0950	85185

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	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	116	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"

\* = Reportable result (only when report all runs)

Description: DW-3

Matrix: Aqueous

Date Sampled: 05/16/2012 1054

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
2	5030B	8260B	1	05/25/2012 0338	DD		85515				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Benzene	71-43-2	8260B	11		5.0	0.20	ug/L	2			
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2			
Ethylbenzene	100-41-4	8260B	4.9	J	5.0	1.7	ug/L	2			
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2			
Naphthalene	91-20-3	8260B	15		5.0	1.7	ug/L	2			
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	2			
Xylenes (total)	1330-20-7	8260B	57		5.0	1.7	ug/L	2			
Surrogate	Q	Run 2 % Recovery	Acceptance Limits								
1,2-Dichloroethane-d4		107	70-130								
Bromofluorobenzene		95	70-130								
Toluene-d8		102	70-130								

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch				
2	5030B	8260B	1	05/25/2012 0338	DD		85515				
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run			
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2			
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2			
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2			
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2			
tert-Amyl alcohol (TAA)	75-85-4	8260B	210		100	6.7	ug/L	2			
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2			
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2			
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2			
Surrogate	Q	Run 2 % Recovery	Acceptance Limits								
Bromofluorobenzene		95	70-130								
1,2-Dichloroethane-d4		107	70-130								
Toluene-d8		102	70-130								

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0313	MPM	05/21/2012 0950	85185			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-027

Description: DW-3

Matrix: Aqueous

Date Sampled: 05/16/2012 1054

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0313	MPM	05/21/2012 0950	85185

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		118	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"

\* = Reportable result (only when report all runs)



Description: DW-4

Matrix: Aqueous

Date Sampled: 05/16/2012 1500

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1123	AAC		85300			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1	
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		102	70-130							
Bromofluorobenzene		96	70-130							
Toluene-d8		94	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/22/2012 1123	AAC		85300			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		96	70-130							
1,2-Dichloroethane-d4		102	70-130							
Toluene-d8		94	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0334	MPM	05/21/2012 0950	85185			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-028

Description: DW-4

Matrix: Aqueous

Date Sampled: 05/16/2012 1500

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0334	MPM	05/21/2012 0950	85185

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

Surrogate	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	108	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"

\* = Reportable result (only when report all runs)

Description: DW-5

Matrix: Aqueous

Date Sampled: 05/16/2012 1153

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	1	05/24/2012 1346	AAC		85487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	2		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	2		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	2		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	2		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		111	70-130							
Bromofluorobenzene		85	70-130							
Toluene-d8		95	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
2	5030B	8260B	1	05/24/2012 1346	AAC		85487			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	2		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2		
Surrogate	Q	Run 2 % Recovery	Acceptance Limits							
Bromofluorobenzene		85	70-130							
1,2-Dichloroethane-d4		111	70-130							
Toluene-d8		95	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0355	MPM	05/21/2012 0950	85185			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: <b>Midlands Environmental Consultants, Inc.</b>	Laboratory ID: <b>NE17054-029</b>
Description: <b>DW-5</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>05/16/2012 1153</b>	
Date Received: <b>05/17/2012</b>	

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0355	MPM	05/21/2012 0950	85185

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	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane	107	57-137						

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the MDL      J = Estimated result < 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"      \* = Reportable result (only when report all runs)

Description: DW-6

Matrix: Aqueous

Date Sampled: 05/16/2012 1126

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	05/24/2012 1412	AAC		85487

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	2
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	2

Surrogate	Run 2 Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		96	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	05/24/2012 1412	AAC		85487

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2

Surrogate	Run 2 Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		85	70-130
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		96	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0416	MPM	05/21/2012 0950	85185

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
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PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and &gt; 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"

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-030

Description: DW-6

Matrix: Aqueous

Date Sampled: 05/16/2012 1126

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0416	MPM	05/21/2012 0950	85185

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		115	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"

\* = Reportable result (only when report all runs)

Description: WSW-2

Matrix: Aqueous

Date Sampled: 05/16/2012 1203

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/21/2012 1203	AAC		85205

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		1.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		96	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/21/2012 1203	AAC		85205

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		96	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0437	MPM	05/21/2012 0950	85185

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
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PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-031

Description: WSW-2

Matrix: Aqueous

Date Sampled: 05/16/2012 1203

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0437	MPM	05/21/2012 0950	85185

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	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	115	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"

\* = Reportable result (only when report all runs)



Description: Field Blank

Matrix: Aqueous

Date Sampled: 05/16/2012 1515

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/21/2012 1225	AAC		85205			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		99	70-130							
Bromofluorobenzene		98	70-130							
Toluene-d8		95	70-130							

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	05/21/2012 1225	AAC		85205			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
Bromofluorobenzene		98	70-130							
1,2-Dichloroethane-d4		99	70-130							
Toluene-d8		95	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	05/23/2012 0540	MPM	05/21/2012 0950	85185			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

Client: Midlands Environmental Consultants, Inc.

Laboratory ID: NE17054-032

Description: Field Blank

Matrix: Aqueous

Date Sampled: 05/16/2012 1515

Date Received: 05/17/2012

### EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/23/2012 0540	MPM	05/21/2012 0950	85185

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	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	109	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"

\* = Reportable result (only when report all runs)

Description: Trip Blank

Matrix: Aqueous

Date Sampled: 05/16/2012 1510

Date Received: 05/17/2012

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/21/2012 1059	AAC		85205

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Run 1 Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		96	70-130

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/21/2012 1059	AAC		85205
2	5030B	8260B	1	05/23/2012 0525	DD		85346

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1

Surrogate	Run 1 Q	Run 1 % Recovery	Run 1 Acceptance Limits	Run 2 Q	Run 2 % Recovery	Run 2 Acceptance Limits
Bromofluorobenzene		99	70-130	98		70-130
1,2-Dichloroethane-d4		96	70-130	101		70-130
Toluene-d8		96	70-130	98		70-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

\* = Reportable result (only when report all runs)

## QC Summary

## Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85205-001

Matrix: Aqueous

Batch: 85205

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	05/21/2012 0824
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	05/21/2012 0824
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	05/21/2012 0824
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	05/21/2012 0824
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	05/21/2012 0824
Ethanol	ND		1	1000	33	ug/L	05/21/2012 0824
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	05/21/2012 0824
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	05/21/2012 0824
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		97	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85205-002

Matrix: Aqueous

Batch: 85205

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	101	70-130	05/21/2012 0720
tert-Amyl methyl ether (TAME)	50	42		1	84	70-130	05/21/2012 0720
tert-Butyl formate (TBF)	250	260		1	103	70-130	05/21/2012 0720
Diisopropyl ether (IPE)	50	55		1	111	70-130	05/21/2012 0720
3,3-Dimethyl-1-butanol	1000	1000		1	105	70-130	05/21/2012 0720
Ethanol	5000	13000	N	1	252	70-130	05/21/2012 0720
Ethyl-tert-butyl ether (ETBE)	50	52		1	105	70-130	05/21/2012 0720
tert-butyl alcohol (TBA)	1000	1000		1	104	70-130	05/21/2012 0720
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		101	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ 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: NQ85205-001

Batch: 85205

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Benzene	ND		1	1.0	0.20	ug/L	05/21/2012 0824
1,2-Dichloroethane	ND		1	1.0	0.30	ug/L	05/21/2012 0824
Ethylbenzene	ND		1	1.0	1.7	ug/L	05/21/2012 0824
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	05/21/2012 0824
Naphthalene	ND		1	1.0	1.7	ug/L	05/21/2012 0824
Toluene	ND		1	1.0	1.7	ug/L	05/21/2012 0824
Xylenes (total)	ND		1	1.0	1.7	ug/L	05/21/2012 0824
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		97	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85205-002

Batch: 85205

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Benzene	50	55		1	109	70-130	05/21/2012 0720
1,2-Dichloroethane	50	50		1	101	70-130	05/21/2012 0720
Ethylbenzene	50	60		1	119	70-130	05/21/2012 0720
Methyl tertiary butyl ether (MTBE)	50	57		1	114	70-130	05/21/2012 0720
Naphthalene	50	62		1	124	70-130	05/21/2012 0720
Toluene	50	54		1	109	70-130	05/21/2012 0720
Xylenes (total)	100	120		1	123	70-130	05/21/2012 0720
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		101	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ 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: NQ85205-001

Matrix: Aqueous

Batch: 85205

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Benzene	ND		1	1.0	0.13	ug/L	05/21/2012 0824
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	05/21/2012 0824
Ethylbenzene	ND		1	1.0	0.33	ug/L	05/21/2012 0824
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	05/21/2012 0824
Naphthalene	ND		1	1.0	0.40	ug/L	05/21/2012 0824
Toluene	ND		1	1.0	0.33	ug/L	05/21/2012 0824
Xylenes (total)	ND		1	1.0	0.33	ug/L	05/21/2012 0824
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		97	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85205-002

Matrix: Aqueous

Batch: 85205

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Benzene	50	55		1	109	70-130	05/21/2012 0720
1,2-Dichloroethane	50	50		1	101	70-130	05/21/2012 0720
Ethylbenzene	50	60		1	119	70-130	05/21/2012 0720
Methyl tertiary butyl ether (MTBE)	50	57		1	114	70-130	05/21/2012 0720
Naphthalene	50	62		1	124	70-130	05/21/2012 0720
Toluene	50	54		1	109	70-130	05/21/2012 0720
Xylenes (total)	100	120		1	123	70-130	05/21/2012 0720
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		101	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ 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: NQ85300-001

Batch: 85300

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	05/22/2012 0937
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	05/22/2012 0937
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	05/22/2012 0937
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	05/22/2012 0937
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	05/22/2012 0937
Ethanol	ND		1	1000	33	ug/L	05/22/2012 0937
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	05/22/2012 0937
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	05/22/2012 0937
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		98	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		97	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85300-002

Batch: 85300

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	770		1	77	70-130	05/22/2012 0758
tert-Amyl methyl ether (TAME)	50	43		1	86	70-130	05/22/2012 0758
tert-Butyl formate (TBF)	250	210		1	83	70-130	05/22/2012 0758
Diisopropyl ether (IPE)	50	45		1	89	70-130	05/22/2012 0758
3,3-Dimethyl-1-butanol	1000	780		1	78	70-130	05/22/2012 0758
Ethanol	5000	5200		1	105	70-130	05/22/2012 0758
Ethyl-tert-butyl ether (ETBE)	50	43		1	86	70-130	05/22/2012 0758
tert-butyl alcohol (TBA)	1000	770		1	77	70-130	05/22/2012 0758
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		101	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ 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: NQ85300-001

Batch: 85300

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	05/22/2012 0937
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	05/22/2012 0937
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/22/2012 0937
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/22/2012 0937
Naphthalene	ND		1	5.0	1.7	ug/L	05/22/2012 0937
Toluene	ND		1	5.0	1.7	ug/L	05/22/2012 0937
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/22/2012 0937
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		98	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		97	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85300-002

Batch: 85300

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	45		1	89	70-130	05/22/2012 0758
1,2-Dichloroethane	50	41		1	81	70-130	05/22/2012 0758
Ethylbenzene	50	48		1	96	70-130	05/22/2012 0758
Methyl tertiary butyl ether (MTBE)	50	46		1	92	70-130	05/22/2012 0758
Naphthalene	50	51		1	101	70-130	05/22/2012 0758
Toluene	50	44		1	88	70-130	05/22/2012 0758
Xylenes (total)	100	100		1	100	70-130	05/22/2012 0758
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		101	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ 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 - Duplicate

Sample ID: NE17054-025DU

Matrix: Aqueous

Batch: 85300

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	DII	% RPD	% RPD Limit	Analysis Date
Benzene	ND	ND		1	0.00	20	05/22/2012 1752
1,2-Dichloroethane	ND	ND		1	0.00	20	05/22/2012 1752
Ethylbenzene	ND	ND		1	0.00	20	05/22/2012 1752
Methyl tertiary butyl ether (MTBE)	ND	ND		1	0.00	20	05/22/2012 1752
Naphthalene	ND	ND		1	0.00	20	05/22/2012 1752
Toluene	ND	ND		1	0.00	20	05/22/2012 1752
Xylenes (total)	ND	ND		1	0.00	20	05/22/2012 1752
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		94	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		95	70-130				

## Volatile Organic Compounds by GC/MS - MS

Sample ID: NE17054-020MS

Matrix: Aqueous

Batch: 85300

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Benzene	ND	50	35		1	70	70-130	05/22/2012 1814
1,2-Dichloroethane	ND	50	32	N	1	63	70-130	05/22/2012 1814
Ethylbenzene	ND	50	36		1	73	70-130	05/22/2012 1814
Methyl tertiary butyl ether (MTBE)	ND	50	33	N	1	65	70-130	05/22/2012 1814
Naphthalene	ND	50	33	N	1	66	70-130	05/22/2012 1814
Toluene	ND	50	34	N	1	67	70-130	05/22/2012 1814
Xylenes (total)	ND	100	74		1	74	70-130	05/22/2012 1814
Surrogate	Q	% Rec	Acceptance Limit					
Bromofluorobenzene		98	70-130					
1,2-Dichloroethane-d4		102	70-130					
Toluene-d8		97	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: NQ85307-001

Matrix: Aqueous

Batch: 85307

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	05/22/2012 0922
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	05/22/2012 0922
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	05/22/2012 0922
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	05/22/2012 0922
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	05/22/2012 0922
Ethanol	ND		1	1000	33	ug/L	05/22/2012 0922
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	05/22/2012 0922
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	05/22/2012 0922
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		112	70-130				
1,2-Dichloroethane-d4		89	70-130				
Toluene-d8		83	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85307-002

Matrix: Aqueous

Batch: 85307

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1200		1	119	70-130	05/22/2012 0744
tert-Amyl methyl ether (TAME)	50	53		1	106	70-130	05/22/2012 0744
tert-Butyl formate (TBF)	250	240		1	94	70-130	05/22/2012 0744
Diisopropyl ether (IPE)	50	44		1	89	70-130	05/22/2012 0744
3,3-Dimethyl-1-butanol	1000	1200		1	118	70-130	05/22/2012 0744
Ethanol	5000	7900	N	1	158	70-130	05/22/2012 0744
Ethyl-tert-butyl ether (ETBE)	50	42		1	84	70-130	05/22/2012 0744
tert-butyl alcohol (TBA)	1000	1200		1	125	70-130	05/22/2012 0744
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		108	70-130				
1,2-Dichloroethane-d4		87	70-130				
Toluene-d8		86	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 - LCSD

Sample ID: NQ85307-003

Matrix: Aqueous

Batch: 85307

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1200		1	118	1.1	70-130	20	05/22/2012 0808
tert-Amyl methyl ether (TAME)	50	55		1	111	4.0	70-130	20	05/22/2012 0808
tert-Butyl formate (TBF)	250	250		1	101	6.8	70-130	20	05/22/2012 0808
Diisopropyl ether (IPE)	50	47		1	94	5.2	70-130	20	05/22/2012 0808
3,3-Dimethyl-1-butanol	1000	1200		1	118	0.14	70-130	20	05/22/2012 0808
Ethanol	5000	7900	N	1	158	0.067	70-130	20	05/22/2012 0808
Ethyl-tert-butyl ether (ETBE)	50	45		1	90	6.7	70-130	20	05/22/2012 0808
tert-butyl alcohol (TBA)	1000	1300		1	126	1.6	70-130	20	05/22/2012 0808
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		112	70-130						
1,2-Dichloroethane-d4		88	70-130						
Toluene-d8		86	70-130						

## Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85307-001

Matrix: Aqueous

Batch: 85307

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	05/22/2012 0922
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	05/22/2012 0922
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/22/2012 0922
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/22/2012 0922
Naphthalene	ND		1	5.0	1.7	ug/L	05/22/2012 0922
Toluene	ND		1	5.0	1.7	ug/L	05/22/2012 0922
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/22/2012 0922
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		112	70-130				
1,2-Dichloroethane-d4		89	70-130				
Toluene-d8		83	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: NQ85307-002

Batch: 85307

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Benzene	50	44		1	87	70-130	05/22/2012 0744
1,2-Dichloroethane	50	51		1	103	70-130	05/22/2012 0744
Ethylbenzene	50	47		1	94	70-130	05/22/2012 0744
Methyl tertiary butyl ether (MTBE)	50	47		1	94	70-130	05/22/2012 0744
Naphthalene	50	46		1	91	70-130	05/22/2012 0744
Toluene	50	44		1	89	70-130	05/22/2012 0744
Xylenes (total)	100	91		1	91	70-130	05/22/2012 0744
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		108	70-130				
1,2-Dichloroethane-d4		87	70-130				
Toluene-d8		86	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85307-003

Batch: 85307

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	45		1	91	4.1	70-130	20	05/22/2012 0808
1,2-Dichloroethane	50	51		1	102	0.90	70-130	20	05/22/2012 0808
Ethylbenzene	50	45		1	90	3.7	70-130	20	05/22/2012 0808
Methyl tertiary butyl ether (MTBE)	50	50		1	101	7.0	70-130	20	05/22/2012 0808
Naphthalene	50	47		1	94	3.4	70-130	20	05/22/2012 0808
Toluene	50	44		1	88	1.6	70-130	20	05/22/2012 0808
Xylenes (total)	100	90		1	90	1.1	70-130	20	05/22/2012 0808
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		112	70-130						
1,2-Dichloroethane-d4		88	70-130						
Toluene-d8		86	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 - Duplicate

Sample ID: NE17054-001DU

Matrix: Aqueous

Batch: 85307

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	DII	% RPD	% RPD Limit	Analysis Date
Benzene	2.4	2.5	J	1	4.0	20	05/22/2012 1802
1,2-Dichloroethane	ND	ND		1	0.00	20	05/22/2012 1802
Ethylbenzene	4.3	4.6	J	1	6.7	20	05/22/2012 1802
Methyl tertiary butyl ether (MTBE)	ND	ND		1	0.00	20	05/22/2012 1802
Naphthalene	ND	ND		1	0.00	20	05/22/2012 1802
Toluene	ND	ND		1	0.00	20	05/22/2012 1802
Xylenes (total)	2.9	3.1	J	1	8.8	20	05/22/2012 1802
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		112	70-130				
1,2-Dichloroethane-d4		85	70-130				
Toluene-d8		86	70-130				

## Volatile Organic Compounds by GC/MS - MS

Sample ID: NE17054-002MS

Matrix: Aqueous

Batch: 85307

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Benzene	2.6	50	49		1	92	70-130	05/22/2012 1827
1,2-Dichloroethane	ND	50	51		1	101	70-130	05/22/2012 1827
Ethylbenzene	5.5	50	55		1	99	70-130	05/22/2012 1827
Methyl tertiary butyl ether (MTBE)	ND	50	47		1	93	70-130	05/22/2012 1827
Naphthalene	1.7	50	52		1	100	70-130	05/22/2012 1827
Toluene	ND	50	49		1	98	70-130	05/22/2012 1827
Xylenes (total)	3.5	100	99		1	95	70-130	05/22/2012 1827
Surrogate	Q	% Rec	Acceptance Limit					
Bromofluorobenzene		113	70-130					
1,2-Dichloroethane-d4		82	70-130					
Toluene-d8		89	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: NQ85346-001

Batch: 85346

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Ethanol	ND		1	1000	33	ug/L	05/22/2012 2301
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	05/22/2012 2301
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		96	70-130				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		96	70-130				

### Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85346-002

Batch: 85346

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Ethanol	5000	3900		1	78	70-130	05/22/2012 2132
tert-butyl alcohol (TBA)	1000	820		1	82	70-130	05/22/2012 2132
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		98	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		98	70-130				

### Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85346-003

Batch: 85346

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Ethanol	5000	5300	+	1	105	30	70-130	20	05/22/2012 2154
tert-butyl alcohol (TBA)	1000	800		1	80	2.0	70-130	20	05/22/2012 2154

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85346-003

Batch: 85346

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		99	70-130

## Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85423-001

Batch: 85423

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	05/23/2012 2344
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/23/2012 2344
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/23/2012 2344
Naphthalene	ND		1	5.0	1.7	ug/L	05/23/2012 2344
Toluene	ND		1	5.0	1.7	ug/L	05/23/2012 2344

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		98	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		98	70-130

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85423-002

Batch: 85423

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Benzene	50	48		1	96	70-130	05/23/2012 2219
Ethylbenzene	50	50		1	100	70-130	05/23/2012 2219
Methyl tertiary butyl ether (MTBE)	50	49		1	98	70-130	05/23/2012 2219
Naphthalene	50	50		1	100	70-130	05/23/2012 2219
Toluene	50	47		1	95	70-130	05/23/2012 2219

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: NQ85423-002

Batch: 85423

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		101	70-130

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85423-003

Batch: 85423

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	48		1	96	0.094	70-130	20	05/23/2012 2240
Ethylbenzene	50	50		1	101	0.34	70-130	20	05/23/2012 2240
Methyl tertiary butyl ether (MTBE)	50	49		1	99	1.2	70-130	20	05/23/2012 2240
Naphthalene	50	49		1	97	3.3	70-130	20	05/23/2012 2240
Toluene	50	47		1	95	0.34	70-130	20	05/23/2012 2240

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		101	70-130

## Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85487-001

Batch: 85487

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	05/24/2012 1143
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/24/2012 1143
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/24/2012 1143
Naphthalene	ND		1	5.0	1.7	ug/L	05/24/2012 1143
Toluene	ND		1	5.0	1.7	ug/L	05/24/2012 1143
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/24/2012 1143

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: NQ85487-001

Matrix: Aqueous

Batch: 85487

Prep Method: 5030B

Analytical Method: 8260B

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		85	70-130
1,2-Dichloroethane-d4		109	70-130
Toluene-d8		97	70-130

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85487-002

Matrix: Aqueous

Batch: 85487

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Benzene	50	54		1	108	70-130	05/24/2012 0956
Ethylbenzene	50	44		1	88	70-130	05/24/2012 0956
Methyl tertiary butyl ether (MTBE)	50	56		1	112	70-130	05/24/2012 0956
Naphthalene	50	47		1	94	70-130	05/24/2012 0956
Toluene	50	51		1	103	70-130	05/24/2012 0956
Xylenes (total)	100	87		1	87	70-130	05/24/2012 0956
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		104	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		103	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85487-003

Matrix: Aqueous

Batch: 85487

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	52		1	104	3.5	70-130	20	05/24/2012 1023
Ethylbenzene	50	43		1	86	2.3	70-130	20	05/24/2012 1023
Methyl tertiary butyl ether (MTBE)	50	55		1	110	1.9	70-130	20	05/24/2012 1023
Naphthalene	50	48		1	96	2.1	70-130	20	05/24/2012 1023
Toluene	50	49		1	99	4.1	70-130	20	05/24/2012 1023
Xylenes (total)	100	84		1	84	3.0	70-130	20	05/24/2012 1023

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85487-003

Batch: 85487

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		103	70-130

## Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85487-001

Batch: 85487

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	05/24/2012 1143
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	05/24/2012 1143
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	05/24/2012 1143
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	05/24/2012 1143
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	05/24/2012 1143
Ethanol	ND		1	1000	33	ug/L	05/24/2012 1143
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	05/24/2012 1143
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	05/24/2012 1143

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		85	70-130
1,2-Dichloroethane-d4		109	70-130
Toluene-d8		97	70-130

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85487-002

Batch: 85487

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	920		1	92	70-130	05/24/2012 0956
tert-Amyl methyl ether (TAME)	50	43		1	86	70-130	05/24/2012 0956
tert-Butyl formate (TBF)	250	260		1	103	70-130	05/24/2012 0956
Diisopropyl ether (IPE)	50	56		1	111	70-130	05/24/2012 0956
3,3-Dimethyl-1-butanol	1000	930		1	93	70-130	05/24/2012 0956
Ethanol	5000	5000		1	100	70-130	05/24/2012 0956

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

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

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85487-002

Batch: 85487

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Ethyl-tert-butyl ether (ETBE)	50	46		1	92	70-130	05/24/2012 0956
tert-butyl alcohol (TBA)	1000	970		1	97	70-130	05/24/2012 0956
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		104	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		103	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85487-003

Batch: 85487

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	920		1	92	0.88	70-130	20	05/24/2012 1023
tert-Amyl methyl ether (TAME)	50	43		1	85	0.27	70-130	20	05/24/2012 1023
tert-Butyl formate (TBF)	250	250		1	99	4.3	70-130	20	05/24/2012 1023
Diisopropyl ether (IPE)	50	55		1	110	1.1	70-130	20	05/24/2012 1023
3,3-Dimethyl-1-butanol	1000	940		1	94	1.2	70-130	20	05/24/2012 1023
Ethanol	5000	5100		1	101	1.1	70-130	20	05/24/2012 1023
Ethyl-tert-butyl ether (ETBE)	50	46		1	91	1.2	70-130	20	05/24/2012 1023
tert-butyl alcohol (TBA)	1000	1000		1	100	3.0	70-130	20	05/24/2012 1023
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		104	70-130						
1,2-Dichloroethane-d4		102	70-130						
Toluene-d8		103	70-130						

## Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85487-001

Batch: 85487

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	05/24/2012 1143

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

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

+ = RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85487-001

Matrix: Aqueous

Batch: 85487

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	05/24/2012 1143
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/24/2012 1143
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/24/2012 1143
Naphthalene	ND		1	5.0	1.7	ug/L	05/24/2012 1143
Toluene	ND		1	5.0	1.7	ug/L	05/24/2012 1143
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/24/2012 1143
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		85	70-130				
1,2-Dichloroethane-d4		109	70-130				
Toluene-d8		97	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85487-002

Matrix: Aqueous

Batch: 85487

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Benzene	50	54		1	108	70-130	05/24/2012 0956
1,2-Dichloroethane	50	51		1	101	70-130	05/24/2012 0956
Ethylbenzene	50	44		1	88	70-130	05/24/2012 0956
Methyl tertiary butyl ether (MTBE)	50	56		1	112	70-130	05/24/2012 0956
Naphthalene	50	47		1	94	70-130	05/24/2012 0956
Toluene	50	51		1	103	70-130	05/24/2012 0956
Xylenes (total)	100	87		1	87	70-130	05/24/2012 0956
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		104	70-130				
1,2-Dichloroethane-d4		104	70-130				
Toluene-d8		103	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85487-003

Batch: 85487

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	52		1	104	3.5	70-130	20	05/24/2012 1023
1,2-Dichloroethane	50	50		1	99	1.8	70-130	20	05/24/2012 1023
Ethylbenzene	50	43		1	86	2.3	70-130	20	05/24/2012 1023
Methyl tertiary butyl ether (MTBE)	50	55		1	110	1.9	70-130	20	05/24/2012 1023
Naphthalene	50	48		1	96	2.1	70-130	20	05/24/2012 1023
Toluene	50	49		1	99	4.1	70-130	20	05/24/2012 1023
Xylenes (total)	100	84		1	84	3.0	70-130	20	05/24/2012 1023
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		104	70-130						
1,2-Dichloroethane-d4		102	70-130						
Toluene-d8		103	70-130						

## Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85515-001

Batch: 85515

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	05/24/2012 1904
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	05/24/2012 1904
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	05/24/2012 1904
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	05/24/2012 1904
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	05/24/2012 1904
Ethanol	ND		1	1000	33	ug/L	05/24/2012 1904
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	05/24/2012 1904
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	05/24/2012 1904
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		85	70-130				
1,2-Dichloroethane-d4		109	70-130				
Toluene-d8		97	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: NQ85515-002

Matrix: Aqueous

Batch: 85515

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	950		1	95	70-130	05/24/2012 1717
tert-Amyl methyl ether (TAME)	50	40		1	80	70-130	05/24/2012 1717
tert-Butyl formate (TBF)	250	270		1	108	70-130	05/24/2012 1717
Diisopropyl ether (IPE)	50	54		1	108	70-130	05/24/2012 1717
3,3-Dimethyl-1-butanol	1000	1100		1	106	70-130	05/24/2012 1717
Ethanol	5000	5000		1	100	70-130	05/24/2012 1717
Ethyl-tert-butyl ether (ETBE)	50	44		1	87	70-130	05/24/2012 1717
tert-butyl alcohol (TBA)	1000	1100		1	105	70-130	05/24/2012 1717
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		106	70-130				
1,2-Dichloroethane-d4		108	70-130				
Toluene-d8		104	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85515-003

Matrix: Aqueous

Batch: 85515

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	860		1	86	10	70-130	20	05/24/2012 1743
tert-Amyl methyl ether (TAME)	50	39		1	78	2.4	70-130	20	05/24/2012 1743
tert-Butyl formate (TBF)	250	260		1	104	4.4	70-130	20	05/24/2012 1743
Diisopropyl ether (IPE)	50	54		1	108	0.12	70-130	20	05/24/2012 1743
3,3-Dimethyl-1-butanol	1000	920		1	92	14	70-130	20	05/24/2012 1743
Ethanol	5000	4700		1	94	5.8	70-130	20	05/24/2012 1743
Ethyl-tert-butyl ether (ETBE)	50	43		1	87	0.86	70-130	20	05/24/2012 1743
tert-butyl alcohol (TBA)	1000	950		1	95	11	70-130	20	05/24/2012 1743
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		106	70-130						
1,2-Dichloroethane-d4		104	70-130						
Toluene-d8		104	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 - Duplicate

Sample ID: NE17054-005DU

Matrix: Aqueous

Batch: 85515

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	DII	% RPD	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1300	1300		10	1.8	20	05/25/2012 0405
tert-Amyl methyl ether (TAME)	ND	ND		10	0.00	20	05/25/2012 0405
tert-Butyl formate (TBF)	ND	ND		10	0.00	20	05/25/2012 0405
Diisopropyl ether (IPE)	ND	ND		10	0.00	20	05/25/2012 0405
3,3-Dimethyl-1-butanol	ND	ND		10	0.00	20	05/25/2012 0405
Ethanol	ND	ND		10	0.00	20	05/25/2012 0405
Ethyl-tert-butyl ether (ETBE)	ND	ND		10	0.00	20	05/25/2012 0405
tert-butyl alcohol (TBA)	ND	ND		10	0.00	20	05/25/2012 0405
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		105	70-130				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		101	70-130				

## Volatile Organic Compounds by GC/MS - MS

Sample ID: NE17054-005MS

Matrix: Aqueous

Batch: 85515

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1300	10000	9000		10	78	70-130	05/25/2012 0432
tert-Amyl methyl ether (TAME)	ND	500	460		10	91	70-130	05/25/2012 0432
tert-Butyl formate (TBF)	ND	2500	630	N	10	25	70-130	05/25/2012 0432
Diisopropyl ether (IPE)	ND	500	600		10	120	70-130	05/25/2012 0432
3,3-Dimethyl-1-butanol	ND	10000	9500		10	95	70-130	05/25/2012 0432
Ethanol	ND	50000	51000		10	102	70-130	05/25/2012 0432
Ethyl-tert-butyl ether (ETBE)	ND	500	480		10	97	70-130	05/25/2012 0432
tert-butyl alcohol (TBA)	ND	10000	11000		10	109	70-130	05/25/2012 0432
Surrogate	Q	% Rec	Acceptance Limit					
Bromofluorobenzene		105	70-130					
1,2-Dichloroethane-d4		100	70-130					
Toluene-d8		102	70-130					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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



## Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85515-001

Matrix: Aqueous

Batch: 85515

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Benzene	ND		1	5.0	0.20	ug/L	05/24/2012 1904
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	05/24/2012 1904
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/24/2012 1904
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/24/2012 1904
Naphthalene	ND		1	5.0	1.7	ug/L	05/24/2012 1904
Toluene	ND		1	5.0	1.7	ug/L	05/24/2012 1904
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/24/2012 1904
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		85	70-130				
1,2-Dichloroethane-d4		109	70-130				
Toluene-d8		97	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85515-002

Matrix: Aqueous

Batch: 85515

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Benzene	50	51		1	103	70-130	05/24/2012 1717
1,2-Dichloroethane	50	49		1	98	70-130	05/24/2012 1717
Ethylbenzene	50	42		1	85	70-130	05/24/2012 1717
Methyl tertiary butyl ether (MTBE)	50	56		1	112	70-130	05/24/2012 1717
Naphthalene	50	50		1	101	70-130	05/24/2012 1717
Toluene	50	49		1	98	70-130	05/24/2012 1717
Xylenes (total)	100	83		1	83	70-130	05/24/2012 1717
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		106	70-130				
1,2-Dichloroethane-d4		108	70-130				
Toluene-d8		104	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 analyses 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: NQ85515-003

Batch: 85515

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	51		1	101	1.3	70-130	20	05/24/2012 1743
1,2-Dichloroethane	50	48		1	96	1.8	70-130	20	05/24/2012 1743
Ethylbenzene	50	42		1	84	0.92	70-130	20	05/24/2012 1743
Methyl tertiary butyl ether (MTBE)	50	54		1	107	4.7	70-130	20	05/24/2012 1743
Naphthalene	50	45		1	89	12	70-130	20	05/24/2012 1743
Toluene	50	48		1	96	2.0	70-130	20	05/24/2012 1743
Xylenes (total)	100	82		1	82	1.1	70-130	20	05/24/2012 1743
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		106	70-130						
1,2-Dichloroethane-d4		104	70-130						
Toluene-d8		104	70-130						

## Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85622-001

Batch: 85622

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/25/2012 2226
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		97	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: NQ85622-002

Batch: 85622

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Xylenes (total)	100	84		1	84	70-130	05/25/2012 2049

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: NQ85622-002

Batch: 85622

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		99	70-130

### Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85622-003

Batch: 85622

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Xylenes (total)	100	84		1	84	0.52	70-130	20	05/25/2012 2113
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		99	70-130						
1,2-Dichloroethane-d4		96	70-130						
Toluene-d8		102	70-130						

### Volatile Organic Compounds by GC/MS - MB

Sample ID: NQ85622-001

Batch: 85622

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/25/2012 2226
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		97	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: NQ85622-002

Matrix: Aqueous

Batch: 85622

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Xylenes (total)	100	84		1	84	70-130	05/25/2012 2049
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene	96	70-130					
1,2-Dichloroethane-d4	97	70-130					
Toluene-d8	99	70-130					

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: NQ85622-003

Matrix: Aqueous

Batch: 85622

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Xylenes (total)	100	84		1	84	0.52	70-130	20	05/25/2012 2113
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene	99	70-130							
1,2-Dichloroethane-d4	96	70-130							
Toluene-d8	102	70-130							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

### EDB & DBCP by Microextraction - MB

Sample ID: NQ85156-001  
 Batch: 85156  
 Analytical Method: 8011

Matrix: Aqueous  
 Prep Method: 8011  
 Prep Date: 05/19/2012 1054

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	05/22/2012 1717
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		95	57-137				

### EDB & DBCP by Microextraction - LCS

Sample ID: NQ85156-002  
 Batch: 85156  
 Analytical Method: 8011

Matrix: Aqueous  
 Prep Method: 8011  
 Prep Date: 05/19/2012 1054

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.26		1	104	60-140	05/22/2012 1738
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		101	57-137				

### EDB & DBCP by Microextraction - MB

Sample ID: NQ85185-001  
 Batch: 85185  
 Analytical Method: 8011

Matrix: Aqueous  
 Prep Method: 8011  
 Prep Date: 05/21/2012 950

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	05/22/2012 2259
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		104	57-137				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

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

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

### EDB & DBCP by Microextraction - LCS

Sample ID: NQ85185-002

Batch: 85185

Analytical Method: 8011

Matrix: Aqueous

Prep Method: 8011

Prep Date: 05/21/2012 950

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.26		1	104	60-140	05/22/2012 2321
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		109	57-137				

### EDB & DBCP by Microextraction - MS

Sample ID: NE17054-031MS

Batch: 85185

Analytical Method: 8011

Matrix: Aqueous

Prep Method: 8011

Prep Date: 05/21/2012 950

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.26		1	110	60-140	05/23/2012 0458
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		111	57-137					

### EDB & DBCP by Microextraction - MSD

Sample ID: NE17054-031MD

Batch: 85185

Analytical Method: 8011

Matrix: Aqueous

Prep Method: 8011

Prep Date: 05/21/2012 950

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.26		1	108	1.9	60-140	20	05/23/2012 0519
Surrogate	Q	% Rec	Acceptance Limit							
1,1,1,2-Tetrachloroethane		105	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**

# SHEALY ENVIRONMENTAL SERVICES, INC.

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 21306



Client <b>MECI</b>	Report to Contact <b>B. Shaw</b>	Sampler (Printed Name) <b>Chris Lashley</b>	Course No.	Page <b>1</b> of <b>4</b>
Address <b>235-B Duder Rd</b>		Telephone No. / Fax No. / Email <b>803-808-2043</b>		Number of Containers <b>4</b>
City <b>Lexington</b>	State <b>SC</b>	Zip Code <b>29073</b>	Preservative 1. HNO3 4 HNO2 5 HCL 6. Na TH-9	Boils (See Instructions on E-204)
Project Name <b>Interstate Truck Stop</b>			Lot No <b>APR 10 54</b>	Remarks / Cooler ID
Project Number <b>12-3868</b>	Sample ID / Description (Containers for each sample may be assigned to one or more)	Date	Time	Analysis
	MW-1	5/16	1347	odor
	MW-1 duplicate		1347	odor
	MW-2		1422	odor
	MW-3		1400	3 BTEX, under
	MW-4 R		1406	sheen
	MW-4R duplicate		1406	sheen
	MW-5R		1123	odor
	MW-6		1433	sheen
	MW-7		1147	odor
	MW-8	5/16	1042	odor

GC Requirements (Specify)	Passable Hazard	Identical carbon	L/D ratio	L/D ratio
1. Retention Time	2. Retention Time	3. Retention Time	4. Retention Time	5. Retention Time
Date: 5/16/12	Date: 5/17/12	Date: 5/16/12	Date: 5/17/12	Date: 5/17/12
Time: 17:00	Time: 15:20	Time: 17:00	Time: 15:20	Time: 15:20

4. Requisitioned by	Date	Time	Laboratory Received by	Date	Time
<i>[Signature]</i>	5/17/12	15:50	<i>[Signature]</i>	5/17/12	15:50

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

# SHEALY ENVIRONMENTAL SERVICES, INC.

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 21307

Client: <b>MECL</b>		Report to Contact: <b>B. SHAW</b>		Sampler (Printed Name): <b>Chris Lashley</b>		Cruise No.	
Address: <b>235-B Dooley Rd</b>		Telephone No. / Fax No. / Email: <b>803-804-2083</b>		Waybill No.		Page: <b>2</b> of <b>4</b>	
City: <b>Lexington</b>	State: <b>SC</b>	Zip Code: <b>29033</b>	Preservative:	Bottle (See Instructions on back)		Number of Containers	
Project Name: <b>Intersha Truck Stop</b>			1. Urates	Preservative		Lot No.	
Project Number: <b>W-3886</b>			2. NUCHEZIN	Lot No.		Remarks / Cooler ID	
P.O. Number			3. HES24	Lot No.		Remarks / Cooler ID	
Sample ID: (Description)			4. HMO3	Lot No.		Remarks / Cooler ID	
Date			5. HCl	Lot No.		Remarks / Cooler ID	
Time			6. No. This	Lot No.		Remarks / Cooler ID	
Date			7. HACH	Lot No.		Remarks / Cooler ID	
Time			8. HACH	Lot No.		Remarks / Cooler ID	
Date			9. HACH	Lot No.		Remarks / Cooler ID	
Time			10. HACH	Lot No.		Remarks / Cooler ID	
Date			11. HACH	Lot No.		Remarks / Cooler ID	
Time			12. HACH	Lot No.		Remarks / Cooler ID	
Date			13. HACH	Lot No.		Remarks / Cooler ID	
Time			14. HACH	Lot No.		Remarks / Cooler ID	
Date			15. HACH	Lot No.		Remarks / Cooler ID	
Time			16. HACH	Lot No.		Remarks / Cooler ID	
Date			17. HACH	Lot No.		Remarks / Cooler ID	
Time			18. HACH	Lot No.		Remarks / Cooler ID	
Date			19. HACH	Lot No.		Remarks / Cooler ID	
Time			20. HACH	Lot No.		Remarks / Cooler ID	
Date			21. HACH	Lot No.		Remarks / Cooler ID	
Time			22. HACH	Lot No.		Remarks / Cooler ID	
Date			23. HACH	Lot No.		Remarks / Cooler ID	
Time			24. HACH	Lot No.		Remarks / Cooler ID	
Date			25. HACH	Lot No.		Remarks / Cooler ID	
Time			26. HACH	Lot No.		Remarks / Cooler ID	
Date			27. HACH	Lot No.		Remarks / Cooler ID	
Time			28. HACH	Lot No.		Remarks / Cooler ID	
Date			29. HACH	Lot No.		Remarks / Cooler ID	
Time			30. HACH	Lot No.		Remarks / Cooler ID	
Date			31. HACH	Lot No.		Remarks / Cooler ID	
Time			32. HACH	Lot No.		Remarks / Cooler ID	
Date			33. HACH	Lot No.		Remarks / Cooler ID	
Time			34. HACH	Lot No.		Remarks / Cooler ID	
Date			35. HACH	Lot No.		Remarks / Cooler ID	
Time			36. HACH	Lot No.		Remarks / Cooler ID	
Date			37. HACH	Lot No.		Remarks / Cooler ID	
Time			38. HACH	Lot No.		Remarks / Cooler ID	
Date			39. HACH	Lot No.		Remarks / Cooler ID	
Time			40. HACH	Lot No.		Remarks / Cooler ID	
Date			41. HACH	Lot No.		Remarks / Cooler ID	
Time			42. HACH	Lot No.		Remarks / Cooler ID	
Date			43. HACH	Lot No.		Remarks / Cooler ID	
Time			44. HACH	Lot No.		Remarks / Cooler ID	
Date			45. HACH	Lot No.		Remarks / Cooler ID	
Time			46. HACH	Lot No.		Remarks / Cooler ID	
Date			47. HACH	Lot No.		Remarks / Cooler ID	
Time			48. HACH	Lot No.		Remarks / Cooler ID	
Date			49. HACH	Lot No.		Remarks / Cooler ID	
Time			50. HACH	Lot No.		Remarks / Cooler ID	
Date			51. HACH	Lot No.		Remarks / Cooler ID	
Time			52. HACH	Lot No.		Remarks / Cooler ID	
Date			53. HACH	Lot No.		Remarks / Cooler ID	
Time			54. HACH	Lot No.		Remarks / Cooler ID	
Date			55. HACH	Lot No.		Remarks / Cooler ID	
Time			56. HACH	Lot No.		Remarks / Cooler ID	
Date			57. HACH	Lot No.		Remarks / Cooler ID	
Time			58. HACH	Lot No.		Remarks / Cooler ID	
Date			59. HACH	Lot No.		Remarks / Cooler ID	
Time			60. HACH	Lot No.		Remarks / Cooler ID	
Date			61. HACH	Lot No.		Remarks / Cooler ID	
Time			62. HACH	Lot No.		Remarks / Cooler ID	
Date			63. HACH	Lot No.		Remarks / Cooler ID	
Time			64. HACH	Lot No.		Remarks / Cooler ID	
Date			65. HACH	Lot No.		Remarks / Cooler ID	
Time			66. HACH	Lot No.		Remarks / Cooler ID	
Date			67. HACH	Lot No.		Remarks / Cooler ID	
Time			68. HACH	Lot No.		Remarks / Cooler ID	
Date			69. HACH	Lot No.		Remarks / Cooler ID	
Time			70. HACH	Lot No.		Remarks / Cooler ID	
Date			71. HACH	Lot No.		Remarks / Cooler ID	
Time			72. HACH	Lot No.		Remarks / Cooler ID	
Date			73. HACH	Lot No.		Remarks / Cooler ID	
Time			74. HACH	Lot No.		Remarks / Cooler ID	
Date			75. HACH	Lot No.		Remarks / Cooler ID	
Time			76. HACH	Lot No.		Remarks / Cooler ID	
Date			77. HACH	Lot No.		Remarks / Cooler ID	
Time			78. HACH	Lot No.		Remarks / Cooler ID	
Date			79. HACH	Lot No.		Remarks / Cooler ID	
Time			80. HACH	Lot No.		Remarks / Cooler ID	
Date			81. HACH	Lot No.		Remarks / Cooler ID	
Time			82. HACH	Lot No.		Remarks / Cooler ID	
Date			83. HACH	Lot No.		Remarks / Cooler ID	
Time			84. HACH	Lot No.		Remarks / Cooler ID	
Date			85. HACH	Lot No.		Remarks / Cooler ID	
Time			86. HACH	Lot No.		Remarks / Cooler ID	
Date			87. HACH	Lot No.		Remarks / Cooler ID	
Time			88. HACH	Lot No.		Remarks / Cooler ID	
Date			89. HACH	Lot No.		Remarks / Cooler ID	
Time			90. HACH	Lot No.		Remarks / Cooler ID	
Date			91. HACH	Lot No.		Remarks / Cooler ID	
Time			92. HACH	Lot No.		Remarks / Cooler ID	
Date			93. HACH	Lot No.		Remarks / Cooler ID	
Time			94. HACH	Lot No.		Remarks / Cooler ID	
Date			95. HACH	Lot No.		Remarks / Cooler ID	
Time			96. HACH	Lot No.		Remarks / Cooler ID	
Date			97. HACH	Lot No.		Remarks / Cooler ID	
Time			98. HACH	Lot No.		Remarks / Cooler ID	
Date			99. HACH	Lot No.		Remarks / Cooler ID	
Time			100. HACH	Lot No.		Remarks / Cooler ID	



# SHEALY ENVIRONMENTAL SERVICES, INC.

Number 21308

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



Client <b>MCCI</b>	Report to Contact <b>B. Shams</b>	Sampling (Printed Name) <b>Chris Lashly</b>	Job No. <b>3</b> of <b>4</b>
Address <b>235-B Dooks Rd</b>	Telephone No. / Fax No. / Email <b>803-800-2093</b>	Waybill No.	Number of Containers <b>4</b>
City <b>Leningr</b>	State <b>SC</b>	Zip Code <b>29023</b>	Bottle (See Instructions on back)
Project Name <b>Interstate Truck Stop</b>	Preservative 1. Uroric, 2. NaOH/CLM, 3. H2O2/4	4. HNO3, 5. MeOH, 6. HCl	Preservative
Project Number <b>12-3046</b>	P.O. Number	Matrix	Lot No. <b>100054</b>
Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	Remarks / Cooler ID
<b>MW-19</b>	<b>5/16</b>	<b>1338</b>	<b>No odor</b>
<b>MW-20</b>	<b>5/16</b>	<b>1508</b>	<b>Odor</b>
<b>MW-21</b>	<b>5/16</b>	<b>1430</b>	<b>3 BTEX, Product</b>
<b>MW-22</b>	<b>5/16</b>	<b>1108</b>	<b>Odor</b>
<b>DW-1</b>	<b>5/16</b>	<b>1418</b>	<b>No odor</b>
<b>DW-2</b>	<b>5/16</b>	<b>1215</b>	
<b>DW-3</b>	<b>5/16</b>	<b>1054</b>	
<b>DW-4</b>	<b>5/16</b>	<b>1500</b>	
<b>DW-5</b>	<b>5/16</b>	<b>1153</b>	
<b>DW-6</b>	<b>5/16</b>	<b>1126</b>	<b>No odor</b>

Turn Around Time Required (Prior lab approval required for expedited MAT) <input type="checkbox"/> Standard <input type="checkbox"/> Fast (Please Specify)	Possible Hazard Identification <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown
1. Relinquished by / Sampler Date: <b>5/16/12</b> Time: <b>1700</b> Signature: <i>[Signature]</i>	1. Received by Date: <b>5/16/12</b> Time: <b>1700</b> Signature: <i>[Signature]</i>
2. Relinquished by / Sampler Date: <b>5/17/12</b> Time: <b>1520</b> Signature: <i>[Signature]</i>	2. Received by Date: <b>5/17/12</b> Time: <b>1520</b> Signature: <i>[Signature]</i>
3. Relinquished by Date: <b>5/17/12</b> Time: <b>1550</b> Signature: <i>[Signature]</i>	3. Received by Date: <b>5/17/12</b> Time: <b>1550</b> Signature: <i>[Signature]</i>

4. Re-impounded by Date: <b>5/17/12</b> Time: <b>1550</b> Signature: <i>[Signature]</i>	4. Laboratory Received by Date: <b>5/17/12</b> Time: <b>1550</b> Signature: <i>[Signature]</i>
---	--

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

# SHEALY ENVIRONMENTAL SERVICES, INC.

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

CWA / NPDES  
 Chain of Custody Record



Number 13243

Client: <b>MCEI</b>	Report to Contact: <b>B. Shene</b>	Sampler (Printed Name): <b>Chos Lashly</b>	Circuit No.:
Address: <b>235-B Doody Rd</b>	Telephone No. / Fax No. / Email: <b>803-808-2083</b>	Fields Parameters (i.e., pH, Temp, DO) can be recorded in check boxes	Page <b>4</b> of <b>4</b>
City: <b>Lexington, SC 29023</b>	Preparative: 1. Unders. 4. HPC 7. MOC 1	Bottle (See instructions on back)	Number of Containers
Project Name: <b>Interstate Trout Shop</b>	2. NaOH/Zn 5. HCL	Preservative	Lot No.
P.O. Number	3. HPC 6. No. Tho.	Matrix	Remarks / Cooler ID
Sample ID / Description (Comments for each sample may be combined on one line)	Date Yr	Time 24-Hour	Analysis
<b>WSW-2</b>	Start <b>5/16</b> Finish <b>1203</b>	<b>G</b>	<b>BTK Maple</b>
<b>Field Blank</b>	Start <b>1515</b> Finish <b>1515</b>	<b>GW</b>	<b>Ethanol</b>
<b>Trip Blank</b>	Start <b>1510</b> Finish <b>1510</b>	<b>GW</b>	<b>EDB</b>
	Start <b>5/16</b> Finish <b>5/16</b>		
	Start <b>5/16</b> Finish <b>5/16</b>		
	Start <b>5/16</b> Finish <b>5/16</b>		
	Start <b>5/16</b> Finish <b>5/16</b>		
	Start <b>5/16</b> Finish <b>5/16</b>		
	Start <b>5/16</b> Finish <b>5/16</b>		
	Start <b>5/16</b> Finish <b>5/16</b>		
	Start <b>5/16</b> Finish <b>5/16</b>		
	Start <b>5/16</b> Finish <b>5/16</b>		

Standard  Hush (Please Specify)  Return in Drum  Disposed by Lab  Hazard Identification:  Lab/Facility  Fluorimetric  Skin Contact  Liquid  Solid

1. Requested by / Sampler: **Chos Lashly** Date: **5/16/12** Time: **1520**  
 2. Requested by: **Chos Lashly** Date: **5/17/12** Time: **1520**  
 3. Requested by: **Chos Lashly** Date: **5/17/12** Time: **1520**  
 4. Requested by: **Chos Lashly** Date: **5/17/12** Time: **1520**

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

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
 Document Number: E-AD-016  
 Revision Number: 9

Page 1 of 1  
 Replaces Date: 05/06/11  
 Effective Date: 10/1/11

## Sample Receipt Checklist (SRC)

Client: M&M Cooler Inspected by/date: 5/17/12 Lot #: NR17054

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other			
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	1. Were custody seals present on the cooler?	
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	2. If custody seals were present, were they intact and unbroken?	
Cooler ID/temperature upon receipt: <u>1.0</u> °C <u>1</u> °C <u>1</u> °C <u>1</u> °C			
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles <u>all 5 were</u>			
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None			
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.			
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	4. Is the commercial courier's packing slip attached to this form?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		5. Were proper custody procedures (relinquished/received) followed?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	5a. Were samples relinquished by client to commercial courier?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		6. Were sample IDs listed?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		7. Was collection date & time listed?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		8. Were tests to be performed listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		9. Did all samples arrive in the proper containers for each test?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		10. Did all container label information (ID, date, time) agree with COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		12. Was adequate sample volume available?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		14. Were any samples containers missing?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		15. Were there any excess samples not listed on COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>	16. Were bubbles present >"pea-size" (3/8" or 6mm in diameter) in any VOA vials?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	17. Were all metals/O&G/H/M/nutrient samples received at a pH of <2?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	20. Were collection temperatures documented on the COC for NC samples?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)			
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) with the SR # (number)			
Sample(s) <u>0201(1) - 0202(2)</u> - <u>0203(1)</u> were received with bubbles >6 mm in diameter.			
Sample(s) _____ were received with TRC >0.2 mg/L for NH <sub>3</sub> /TKN/cyanide/BNA/pest/PCB/herb.			

**Corrective Action taken, if necessary:**

Was client notified: Yes  No

Did client respond: Yes  No

SESI employee: \_\_\_\_\_

Date of response: \_\_\_\_\_

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



**APPENDIX C:**

**TAX MAP**

**This appendix is not applicable to the scope of services presented in the subject report,  
however this page has been included in order to conform to the SCDHEC UST  
Management Division Programmatic QAPP and provide report continuity**

**APPENDIX D:  
SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS**

**This appendix is not applicable to the scope of services presented in the subject report,  
however this page has been included in order to conform to the SCDHEC UST  
Management Division Programmatic QAPP and provide report continuity**

**APPENDIX E:**  
**WELL COMPLETION LOGS & 1903 FORMS**



This appendix is not applicable to the scope of services presented in the subject report, however this page has been included in order to conform to the SCDHEC UST Management Division Programmatic QAPP and provide report continuity

**APPENDIX F:  
AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS**

**This appendix is not applicable to the scope of services presented in the subject report,  
however this page has been included in order to conform to the SCDHEC UST  
Management Division Programmatic QAPP and provide report continuity**

**APPENDIX G:  
DISPOSAL MANIFEST**

June 5, 2012



Re: Treatment of Purge Water  
Interstate Truck Stop  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 12-3888

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

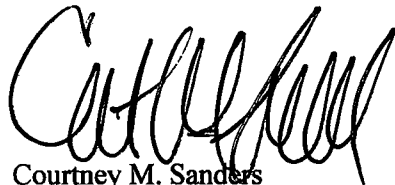
**30.5 Gallon was treated on May 16, 2012 during the comprehensive groundwater sampling event conducted at the referenced site.**

**A total 30.5 gallons was treated during the subject assessment.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.



Courtney M. Sanders  
Staff Biologist

**APPENDIX H:**  
**LOCAL ZONING REGULATIONS**

**This appendix is not applicable to the scope of services presented in the subject report,  
however this page has been included in order to conform to the SCDHEC UST  
Management Division Programmatic QAPP and provide report continuity**



**APPENDIX I:**  
**FATE AND TRANSPORT MODELING**

**This appendix is not applicable to the scope of services presented in the subject report,  
however this page has been included in order to conform to the SCDHEC UST  
Management Division Programmatic QAPP and provide report continuity**

**APPENDIX J:  
ACCESS AGREEMENTS**

P.O. Box 555  
Allendale 29810

RIGHT OF ENTRY AND PERMISSION FORM  
UNDERGROUND STORAGE TANK AND PROPERTY OWNER

Interstate Truck Terminal, Highways 301 & 321, Ulmer, SC, Allendale County, UST Permit # 00332

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, JULIUS MOODY, certify that I am the legal owner of the underground storage tanks and property located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (SCDHEC) or its contractors to enter this property at reasonable times only to accomplish site assessment and liquid removal activities. I understand that SCDHEC will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of the results of each activity.

Name of Facility INTERSTATE TRUCK TERMINAL Phone # N/A

Street Address of Facility HIGHWAYS 301 and 321

Town, City, District, Suburb ULMER, SOUTH CAROLINA

Name of nearest intersecting street, road, highway, alley  
301 North

Is this facility within the city limits? (yes or no) YES

Does a public water or sewer utility service this facility? (yes or no) no. If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines.  
phone number \_\_\_\_\_

Were underground storage tanks previously removed from the ground at this facility? (yes or no) no  
If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation.  
Phone number \_\_\_\_\_

Is the property currently leased or rented to someone? (yes or no) no. If yes, please provide their name \_\_\_\_\_ and phone number \_\_\_\_\_ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before assessment activities begin.

NAME of UST/property owner (Please Print): JULIUS MOODY

Contact Person: William E. Myrick, Jr.

Phone Number (home) (803) 584-4833 (work) NOT WORKING

Signature of UST/property Owner: Julius Moody

Witness: W. E. Myrick, Jr. Esq.

Date: May Month 15th Day 2002 Year

**APPENDIX K:  
DATA VERIFICATION CHECKLIST**

**Contractor Checklist**

Item#	Item	Yes	No	N/A
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?	X		
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? (Table 2 & Figure 5)	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix B)	X		
24	If free-product is present, has the thickness been provided?	X		
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the <u>current</u> and historical laboratory data been provided in tabular format? (Tables 3 & 3A)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figures 3, 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? (Appendix K)	X		



Catherine B. Templeton, Director

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

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

**MAR 26 2013**



**Re: QAPP Contractor Addendum Request  
Groundwater Sampling Contract  
Solicitation # IFB-5400002759, PO#4600088529**

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400002759 and the UST Management Division Quality Assurance Program Plan (QAPP), it is requested that you submit a Contractor Addendum for each site listed below. The Addendums must be submitted within 15 business days in my attention. The project manager for each site will issue a notice to proceed once the Addendum has been reviewed and approved. Please note, site reconnaissance should be conducted during the Addendum review so that any issues that arise may be addressed prior to commencing work at the site.

UST Permit #	Site Name	County	# samples and requested analysis*	Project Manager
18787	Blitchingtons Grocery	Orangeburg	13-BTEXMN, DCA, Oxygenates, & EDB	R. Miner
18955	Donnie's Muffler Shop	Sumter	21-BTEXMN, DCA, Oxygenates, & EDB	C. Ridgley
00332	Interstate Truck Terminal	Allendale	33-BTEXMN, DCA, Oxygenates, & EDB	C. Ridgley
02057	Carolina Tire	Chester	28-BTEXMN, DCA, Oxygenates, & EDB	C. Ridgley
06277	Cooke's Country Store	Marion	31-BTEXMN, DCA, Oxygenates, & EDB	D. Thoma
03728	Pawley's One Stop	Georgetown	58-BTEXMN & 12-oxygenates	D. Thoma
09947	Camden Shell	Kershaw	20-BTEXMN, DCA, & Oxygenates	D. Thoma
09444	V Mart	York	32-BTEXMN, DCA, Oxygenates, & EDB	D. Thoma
08636	Franks Servicecenter	Sumter	31-BTEXMN, DCA, Oxygenates, & EDB	C. Ridgley

\* The number of samples may not include trip blanks, field blanks, or field duplicates.

Please contact me with the sampling schedule before commencing work at these facilities. In addition, a weekly update for each site is required to be submitted via e-mail to the site's project manager and myself. If you have any questions or need further assistance, please contact me at (803) 896-6397 or [thomadl@dhec.sc.gov](mailto:thomadl@dhec.sc.gov).

Sincerely,

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

Enc: Site Information Sheet

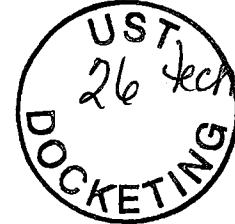
cc: Technical Files



April 8, 2013

**Midlands  
Environmental  
Consultants, Inc.**

Ms. Debra Thoma, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: QAPP Contractor Addendum – Revision 0  
Interstate Truck Terminal, Inc.  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 13-4401  
Certified Site Rehabilitation Contractor UCC-0009

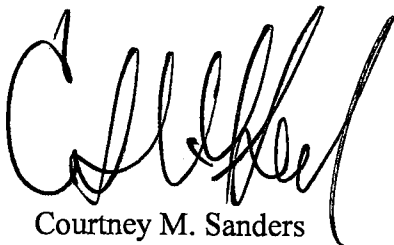
Dear Ms. Thoma,


Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached QAPP Contractor Addendum for the referenced site.

On April 04, 2013, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

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

  
Courtney M. Sanders  
Staff Biologist

  
Jeff A. Coleman  
Senior Scientist

Section A: Project Management

**A1 Title and Approval Page**

Quality Assurance Project Plan  
Addendum to the SC DHEC UST Programmatic QAPP  
For

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Interstate Truck Terminal, Inc., SCDHEC Site ID# 00332

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Socahatchee Cemetery Road and Highway 321, Ulmer, South Carolina

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*Prepared by:*  
*Courtney M. Sanders*  
*Staff Biologist*  
Midlands Environmental Consultants, Inc.  
(Certified Site Rehabilitation Contractor UCC-0009)  
235-B Dooley Road  
Lexington, SC 29073  
(803)808-2043

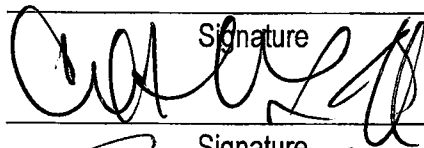
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Date: April 8, 2013


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Approvals


Cathleen Ridgley  
SC DHEC Project Manager

Signature  Date 4/9/13

Courtney M. Sanders  
Contractor QA Manager

Signature  Date 4/9/13

Jeff L. Coleman  
Site Rehabilitation Contractor

Signature  Date 04/08/2013

Daniel J. Wright  
Laboratory Director

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### A3 Distribution List

Name	Title	Organization/Address	Telephone Number	Fax Number	Email Address
Cathleen Ridgley	SC DHEC Technical Project Manager	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6633	803-896-6245	ridglect@dhec.sc.gov
Jeff L. Coleman	Site Rehabilitation Contractor	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	jlc@meci.net
Courtney M. Sanders	Quality Assurance Officer	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	cms@meci.net
Kyle V. Pudney	Field Manager	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	kvp@meci.net
Daniel J. Wright	Laboratory Director	Shealy Environmental Services, Inc. 106 Vantage Point Dr. West Columbia, SC 29172	803-791-9700	803-791-9111	dwright@shealylab.com
	Well Services/Driller				

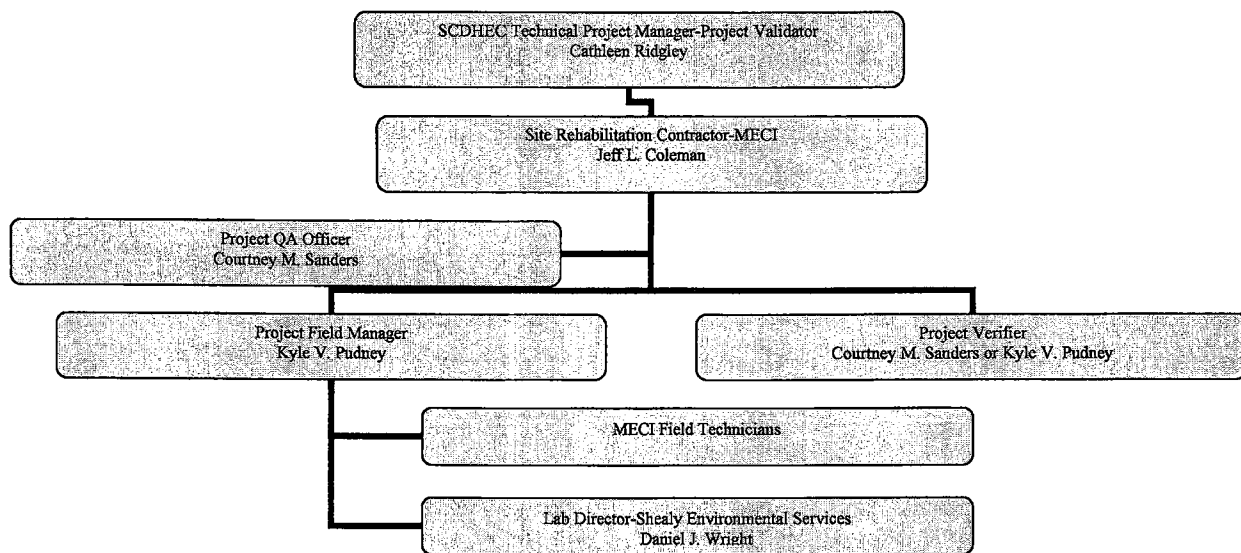
**Table 1A Addendum Distribution List**

### A4 Project Organization

Role from the UST Master QAPP	Person in this Role for Project	Organization/Address	Telephone Number	Fax Number	Email Address
Project Manager	Cathleen Ridgley	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6633	803-896-6245	ridglect@dhec.sc.gov
Site Rehabilitation Contractor	Jeff L. Coleman	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	jlc@meci.net
Quality Assurance Officer	Courtney M. Sanders	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	cms@meci.net
Field Manager	Kyle V. Pudney	Midlands Environmental Consultants, Inc.	803-808-2043	803-808-2048	kvp@meci.net

Role from the UST Master QAPP	Person in this Role for Project	Organization/Address	Telephone Number	Fax Number	Email Address
		235-B Dooley Road Lexington, SC 29073			
Analytical Laboratory Director	Daniel J. Wright	Shealy Environmental Services, Inc. 106 Vantage Point Dr. West Columbia, SC 29172	803-791-9700	803-791-9111	dwright@shealylab.com
Project Verifier	Courtney M. Sanders or Kyle V. Pudney	Midlands Environmental Consultants, Inc. 235-B Dooley Road Lexington, SC 29073	803-808-2043	803-808-2048	cms@meci.net

**Table 2A Addendum Role Identification and Contact Information**



**Figure 1A Organizational Chart**

Project Manager (Cathleen Ridgley) – The project manager is responsible for direct oversight of contractors conducting assessment and site rehabilitation of releases at UST sites.

Site Rehabilitation Contractor (Jeff L. Coleman) – The Site Rehabilitation Contractor is an independent contractor responsible for managing and coordinating field and office activities needed for assessments or cleanup.

- Final Review of all work produced for a scope of work.
- Final say on technical interpretation of data.

Quality Assurance Officer (Courtney M. Sanders) – The Quality Assurance Officer is responsible for the oversight of all quality assurance activities associated with projects performed by the Site Rehabilitation Contractor.

- In charge of producing and maintaining the QAPPA for MECI.
- Reviews (and Audits, if necessary) all work produced in conjunction with a scope of work.
- Quality control of data entry and report preparation.

Field Manager (Kyle Pudney) –The field manager will oversee all work done on any given project.

- Assign, direct and oversee all field personnel working on each project.
- Responsible for coordinating with the SCDHEC project manager, should any problems or clarifications arise.
- Responsible for all reporting done in conjunction with field work.

Analytical Laboratory Director (Daniel J. Wright) – The Laboratory Director is directly responsible for the Analytical Laboratory used during a scope of work. The Analytical Laboratory receives the soil and water samples from the site rehabilitation contractor, performs the requested analyses, and provides analytical reports.

Project Verifier (Courtney M. Sanders) – The project verifier is responsible for verifying the quality of data produced during a scope of work. This includes review of field work and laboratory reports for potential quality issues.

Field Technicians (various employees) – Responsible for all field activities for a given scope of work.

- Conduct all initial site visit, and record findings
- Conduct all field activities associated with a scope of work. All work will be conducted according to the MECI SOP. Will be responsible for reporting any potential problems are inconsistencies found during assessment activities.
- Completes the chain of custody upon completion of sampling event and delivers samples to lab or office for later lab pick-up.

## **A5 Problem Definition/Background**

***Discuss the background (as much as is known) of the site and appropriate historical information, and why this site is being assessed.***

The subject site (Interstate Truck Terminal) is located at Socahatchee Cemetery Road & Highway 321, Ulmer, Allendale County, South Carolina. The subject site formally maintained two 8,000 gallon diesel underground storage tanks (UST's), one 8,000 gallon gasoline UST, one 6,000 gallon diesel UST, two 6,000 gallon gasoline UST's, and three 4,000 gallon gasoline USTs. These UST's are still in the ground, but the tank status is rendered unusable (RNU). A release of petroleum product from the subject UST's was reported in June of 2002 and confirmed in October of 2002. The subject site is currently rated a Class2BB.

The site is being sampled in conjunction with the SCDHEC Groundwater Sampling Contract (Solicitation # IFB-5400002759, PO# 4600088529).

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

Underground Storage Tank Division

## **A6 Project/Task Description**

- 1. Summarize what is known about the work to be done. This can be a short sentence indicating what the Scope of this project is (see Master QAPP Section A6).**

The subject site (Interstate Truck Terminal, Inc.) will be sampled in conjunction with the SCDHEC Groundwater Sampling Contract (Solicitation # IFB-5400002759, PO# 4600088529). During assessment activities monitoring wells will be sampled for petroleum constituents.

- 2. The work will begin within fourteen (14) days of receipt of approved QAPP contractors addendum after cost approval and sampling should be complete by twenty-one (21) days of receipt of approved QAPP contractors addendum.**
- 3. Are there are time or resource constraints? Include those factors that may interfere with the tentative schedule.**

Factors that may prevent schedule work will be, but not limited to, inclement weather, equipment malfunction, and machine failure.

## **A7 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs)**

The subject site is located at Socahatchee Cemetery Road & Highway 321, Ulmer, Allendale County, South Carolina. The site is currently occupied by an abandoned gasoline service station.

## **A8 Training and Certificates**

Required training and licenses:

<b>Title/Job</b>	<b>Name</b>	<b>Training Required</b>	<b>Date training received</b>	<b>Type of License</b>	<b>License Number</b>
Principal Geologist	Bryan T. Shane, P.G.	Professional Geologist	10/30/1993	State of South Carolina	1102
Senior Scientist	Jeff Coleman	OSHA 40 hr HAZWOPER	7/27/2007	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/10/2012	N/A	N/A
Staff Geologist	John Bryant	OSHA 40 hr HAZWOPER	4/17/2009	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/10/2012	N/A	N/A

Title/Job	Name	Training Required	Date training received	Type of License	License Number
Staff Biologist	Courtney Sanders	OSHA 40 hr HAZWOPER	12/10/2010	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/10/2012	N/A	N/A
Staff Biologist	Kyle Pudney	OSHA 40 hr HAZWOPER	12/10/2010	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/10/2012	N/A	N/A
Staff Biologist	Chris Lashley	OSHA 40 hr HAZWOPER	12/10/2010	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/10/2012	N/A	N/A
Staff Biologist	Gavin Globensky	OSHA 40 hr HAZWOPER	7/29/2011	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/10/2012	N/A	N/A
Staff Biologist	Ryan Ariail	OSHA 40 hr HAZWOPER	9/23/2011	N/A	N/A
		OSHA 8 hr HAZWOPER refresher	12/10/2012	N/A	N/A
Staff Geologist	Patrick Boylan	OSHA 40 hr HAZWOPER	07/20/2012	N/A	N/A
Lab Manager	Daniel J. Wright	***	***	Lab Certification	SC 32010

Table 3A Required Training and Licenses

Courtney M. Sanders of Midlands Environmental Consultants, Inc. is responsible to ensuring that personnel participating in this project receive the proper training. All training records will be stored in the following location: 235-B Dooley Road, Lexington, SC 29073.

**It is understood that training records will be produced if requested by SC DHEC.**

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

**Commercial Lab(s)**

Full Name of the Laboratory Shealy Environmental Services, Inc.

Name of Lab Director Daniel J. Wright

SC DHEC Certification Number 32010

Parameters this Lab will analyze for this project:



All samples will be analyzed for BTEX, Naphthalene, MTBE, 1,2 DCA, and 8-Oxygenates (EPA Method 8260-B), and EDB (EPA Method 8011).

Please note: SC DHEC may require that the contractor submit some or all of the Laboratory's SOPs as part of this QAPP.

## A9 Documents and Records

**Personnel will receive the most current version of the QAPP Addendum via:  
 (Check all that apply)**

US Mail     Courier     Hand delivered

Other (please specify): E-mailed electronic copies

Record	Produced By	Hardcopy/ Electronic	Storage Location For how long?	Archival
Instrument Raw Data	Target, Thermospec, or Iteva software	Hardcopy and Electronic	Hardcopy: Offsite storage for 7 yrs Electronic: Two external storage device backups – one offsite, one onsite storage for 10 yrs	Yes
Final Reports	LIMS	Electronic	Electronic: Two external storage device backups – one offsite, one onsite storage for 10 years	Yes
Field Work	Field Staff	Hardcopy	MECI office: 235/B Dooley Road / Min. 5 years	Yes
Chain of Custody	Field Staff	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
QAPP Addendum	Courtney Sanders	Hardcopy & Electronic	MECI office: 235B Dooley Road / Min. 5 years	Yes
Internal QC record	Courtney Sanders	Hardcopy	MECI office: 235B Dooley Road / Min. 5 years	Yes
Sampling Report	Courtney Sanders	Hardcopy & Electronic	MECI office: 235B Dooley Road / Min. 5 years	Yes

Table 4A Record Identification, Storage, and Disposal

## Section B Measurement/Data Acquisition

### B1 Sampling Process/Experimental Design

Item	Start Date	End Date	Comments
Site Reconnaissance	4/4/13	4/4/13	Already Completed
QAPP preparation	4/8/13	4/8/13	In progress
QAPP approval	4/9/13	4/30/13	Assuming three week turnaround

Item	Start Date	End Date	Comments
Monitoring well Sampling	5/1/13	5/15/13	Sampled within 2 weeks of QAPP approval
Report Preparation	5/16/13	6/6/13	Three weeks to prepare/submit report

Table 5A Sampling Activities

## B2 Sampling Methods

Please note: The contractor must follow sampling protocols as given in the UST QAPP.

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

Soil	_____
Ground Water from monitoring wells	_____28_____
From Drinking/Irrigation water wells	_____1_____
Field Duplicate Collection	_____2_____
Field Blank Collection	_____1_____
Trip Blank	_____1_____
From surface water features	_____
Total number of Water samples	_____18_____

**Notes:**

During the April 04, 2013 site visit, twenty eight (28) monitoring wells and one (1) water supply well were located.

During the site visit it was noted that all located monitoring wells were in good condition.

All monitoring well samples will be analyzed by BTEX, Naphthalene, MTBE, 1,2 DCA, and 8-Oxygenates (EPA Method 8260-B), and EDB (EPA Method 8011).

***For the sample matrices indicated above, please describe how samples will be collected and the equipment needed.***

Please see MECI Monitoring Well Sampling SOP for sampling procedures and type of materials used for sampling.

***Will Sampling Equipment have to be cleaned and decontaminated or is everything disposable?***

All equipment, excluding electronic water level indicators, field probes and turbidity tubes, is disposable.

***If sampling equipment must be cleaned please give a detailed description of how this is done and the disposal of by-products from the cleaning and decontamination.***

Please see MECI Monitoring Well Sampling SOP for decontamination procedures.

***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.***

All samples will be shipped to the lab via courier or overnight shipping company. Please see MECI Monitoring Well Sampling SOP for sample shipping procedures.

***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.***

Failure	Response	Documentation	Individual Responsible
Water level indicator not working properly	Attempt to clean probe, change battery, use back-up indicator if need be.	Record on field sheets, notify office staff. Take indicator out of rotation until problem identified and corrected.	Field Staff, Field Manager
Field meters not working	Attempt to clean probes, recalibrate in the field.	Record on field sheets, notify office staff. Take meters out of rotation until problem identified and corrected.	Field Staff, Field Manager
Wells not located	Use metal detector, measure from known points, contact project manager for additional information.	Record method used to attempt to locate the well on field sheets, and possibly reasoning for the well to be missing	Field Staff

Table 6A Field Corrective Action

### B3 Sample Handling and Custody

***1. How will the samples get from the Site to the Lab to ensure holding requirements are met?***

Following sample collection, the samples are immediately place in a laboratory provided cooler, pre-filled with wet ice obtained from the MECI office. Samples are transported to the MECI office once a sampling event is complete. A Chain of Custody (CoC) is filled out following the sampling event by the field staff. See attached CoC. If a lab provided courier is scheduled to visit the MECI offices the day following a sampling event, sampling coolers are repacked with wet ice, and left at the office for pick-up the following morning. If no courier is schedule to visit the MECI office the day following a sampling event, all sampling coolers are repacked with ice and are dropped off at a lab approved shipping company for overnight delivery to the lab.

**2. How will the contactors cool the samples and keep the samples cool?**

All samples are kept on wet ice, obtained from MECI office.

**3. How will the lab determine the temperature of the samples upon receipt? Will they be using a temperature blank?**

A calibrated thermometer and temperature blank will be used to document sample temperature. The temperature blank is immediately checked by the sample receiving technician upon arrival at the laboratory.

**4. Where will the samples be stored in the Lab once they are received?**

All samples are stored in clean refrigeration units monitored and maintained at 4 degrees C + or - 2 degrees. Volatile organic samples are stored separately from all other samples.

**5. Describe the chain of custody procedure and attach a copy of each chain of custody that will be used. If a Chain of Custody SOP exists from the Lab and the Contractor is willing to adhere to it, then this may be attached.**

A chain of custody (COC) will be filled out for each sampling event at each project site. COC to be signed by MECI and Shealy Environmental technician at time physical transfer of samples occurs to courier. Shealy uses the following COC procedures to protect sample integrity following pickup by their courier: A full time Sample Receiving Technician receives all samples and completes a Sample Receipt Checklist (SRC), which will identify any anomalies, if any exist the Sample Receiving Technician or Project Manager must resolve the deviation internally and/or notify the client to resolve the anomaly

**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:**

Parameter	SOP ID*	Method Referenced	Equipment	Comments
BTEX+Naph+MTBE+Oxygentaes	S-VO-002	8260B	GC/MS	
PAH's	S-SV-021	8270D	GC/MS	
EDB	S-SV-012	8011	GC	
Lead,T.	S-IM-022	6010C	ICP	
Ferrous Iron	S-IN-009	SM 3500-FED	Spectrophotometer	
Nitrate	S-IN-042	353.2	Auto-analyzer/Lachate	
Sulfate	S-IN-010	300.0	Ion Chromatograph	
Methane	S-VO-004	RSK-175	GC	
TOC	S-IN-030	Walkley-Black	N/A	
DRO - TPH	S-SV-001	8015C	GC	
pH	MECI SOP 4.3.6	*	YSI 63	

Conductivity	MECI SOP 4.3.6	*	YSI 63	
Dissolved Oxygen	MECI SOP 4.3.6	*	YSI 550A	
Temperature	MECI SOP 4.3.6	*	YSI 550A	
Turbidity	MECI SOP 4.3.6	*	60 cm Turbidity Tube	

**Table 7A Analytical SOPs and Referenced Methods**

- 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. See also Table 8A SOP Abbreviation Key.

Abbreviation	Lab Identification of this SOP	Full Name of the SOP
S-VO-002	S-VO-002	GC/MS VOLATILES ANALYSIS BASED ON EPA METHODS 8260B AND 624 PREPARED BY EPA METHODS 5030B, 5035 AND 3585
S-SV-021	S-SV-021	GC/MS ANALYSIS BASED ON EPA METHOD 8270D PREPARED BY EPA METHODS 3520C, 3550C AND 3580A
S-SV-012	S-SV-012	GC/ECD ANALYSIS OF EDB AND DBCP BASED ON METHOD 8011 & 504.1
S-IM-022	S-IM-022	INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROSCOPY-PETROMETRIC METHOD for TRACE ELEMENT ANALYSES METHOD 6010C
S-IN-009	S-IN-009	FERROUS IRON (PHENANTHROLINE METHOD) STANDARD METHOD 3500-Fe D
S-IN-042	S-IN-042	NITRATE+NITRITE NITROGEN BY EPA METHOD 353.2, NITRATE NITROGEN BY 353.2 SUBTRACTION, AND NITRITE NITROGEN BY EPA METHOD 353.2
S-IN-010	S-IN-010	INORGANIC ANIONS BY ION CHROMATOGRAPHY EPA METHOD 300.0 and SW-846 9056 and 9056A
S-VO-004	S-VO-004	STANDARD OPERATING PROCEDURE GC ANALYSIS BASED ON METHOD RSKSOP-175
S-IN-030	S-IN-030	TOTAL ORGANIC CARBON (TOC) WALKLEY-BLACK PROCEDURE
S-SV-001	S-SV-001	GC/FID DIESEL RANGE ORGANICS ANALYSIS BASED ON METHOD 8015B and/or 8015C PREPARED BY EPA METHODS 3520C, 3550C and 3580A
MECI SOP 4.3.6	MECI SOP 4.3.6	Sampling Standard operating procedures

**Table 8A SOP Abbreviation Key**

2. Identify procedures to follow when failures occur, identify the individual responsible for corrective action and appropriate documentation:

Failure	Response	Documented Where?	Individual Responsible
Field meters not working	Attempt to clean probes, recalibrate in the field.	Record on field sheets, notify office staff. Take meters out of rotation until problem identified	Field Staff, Field Manager

		and corrected.	
COC or Sample Receiving issues	Call Client	Sample Receiving Checklist (SRC)	PM – Kelly Maberry <a href="mailto:kmaberry@shealylab.com">kmaberry@shealylab.com</a>
Analytical errors	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director – Daniel J. Wright <a href="mailto:dwright@shealylab.com">dwright@shealylab.com</a>
QA/QC Failure	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director – Daniel J. Wright <a href="mailto:dwright@shealylab.com">dwright@shealylab.com</a> QA/QC Officer – Jami Savje <a href="mailto:Jsavje@shealylab.com">Jsavje@shealylab.com</a>
On time delivery	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director – Daniel J. Wright <a href="mailto:dwright@shealylab.com">dwright@shealylab.com</a> QA/QC Officer – Jami Savje <a href="mailto:Jsavje@shealylab.com">Jsavje@shealylab.com</a>

Table 9A Corrective Action Procedures

3. Identify sample disposal procedures.

Analysis	Matrix	Schedule for disposal	Method for disposal	Comments
BTEX+Naph+MTBE+Oxygenates	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
PAH's	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
EDB	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Lead	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as	

			Hazardous or non-Hazardous waste.	
Ferrous Iron	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Nitrate, Sulfate	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
Methane	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	
All	Water	On-Site	Portable Granulated Activated Carbon (GAC) Unit	All waste water produced from sampling and decontamination activities will be run through a GAC unit

**Table 10A Sample Disposal Procedures**

4. 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 UST Programmatic QAPP.

**B6 Field Instrument and Equipment Testing, Inspection and Maintenance**

1. Identify all field and laboratory equipment needing periodic maintenance, the schedule for this, and the person responsible. Note the availability and location of spare parts.

Instrument	Serial Number	Type of Maintenance	Frequency	Parts needed/Location	Person responsible
Volatiles Mass	Shealy SOP S-	Change traps, clean ion	Periodic	Laboratory	MSV Analyst

Spec	SV-021 Page 7	source, replace filaments			
Semivolatile Mass Specc	Shealy SOP S-SV-021 Page 7	Injection port maintenance, ion source maintenance, column replacement	Periodic	Laboratory	MSSV Analyst
ECD GC	Shealy SOP S-SV-012 Page 5	Injection port maintenance, column replacement	Periodic	Laboratory	GC Analyst
Dionex IC	Shealy SOP S-IN-010 Page 6	Replace auto sampler filter, tubing, line filter, sample Line and Waste Line, as needed. Check Reagent levels, flow rate, waste line.	Periodic	Laboratory	IC Analyst
ICP	Shealy SOP S-IM-005 Page 6 & 7	Clean Sample introduction system , auto sampler, torch, Change spray chamber, torch tubing, tubing	Periodic	Laboratory	ICP Analyst
Leeman Mercury Analyzer	Shealy SOP S-IM-006 Page 5	Clean GLS, Change Pump tubing, Nafion Dryer, Lamp	Periodic	Laboratory	Mercury Analyst
Flow Injection Analysis – Lachat 8000	Shealy SOP S-IN-042 Page 5	Replace sample and reagent lines, replace light source, re-wrap heating coil, replace column	Periodic/As Needed	Laboratory	Nitrate Analyst
YSI 63	09C 101302, 10K 101895, 07M 100905	Replace probe tip	Yearly	Order from YSI	C. Sanders
YSI 63	09C 101302, 10K 101895, 07M 100905	Replace batteries	As Needed	In stock at office	Field Staff
YSI 63	09C 101302, 10K 101895, 07M 100905	General inspection for wear and tear on equipment	Daily	Major fixes will be done out of office	Field Staff
YSI 63	09C 101302, 10K 101895, 07M 100905	Check buffer solutions for expiration	Weekly	In stock at office	C. Sanders
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	Replace membrane	4 to 8 weeks	In stock at office	Field Staff
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	Replace batteries	As Needed	In stock at office	Field Staff
YSI 550A	04L 2026AK, 08B 101407, 04A 0912AI	General inspection for wear and tear on equipment	Daily	Major fixes will be done out of office	Field Staff
Turbidity Tube	#1, #2, #3	General inspection for	Daily	Tubes will be	Field Staff



		wear and tear on equipment, clarity of Secchi Disk		cleaned/fixd in office	

**Table 11A Instrument and Equipment Maintenance**

2. Identify the testing criteria for each lab or field instrument that is used to ensure the equipment is performing properly. Indicate how deficiencies, if found, will be resolved, re-inspections performed, and effectiveness of corrective action determined and documented. Give the person responsible for this

Instrument/Equipment & Serial Number	Type of Inspection	Requirement	Individual Responsible	Resolution of Deficiencies
Volatiles Mass Spec Shealy SOP S-SV-021 Page 7	Daily calibration check	Method Requirements	MSV Analyst	Recalibration or instrument maintenance
Semi-volatiles Mass Spec Shealy SOP S-SV-021 Page 7	Daily calibration check	Method Requirements	MSSV Analyst	Recalibration or instrument maintenance
ECD GC Shealy SOP S-SV-012 Page 5	Daily calibration check	Method Requirements	GC Analyst	Recalibration or instrument maintenance
Dionex IC Shealy SOP S-IN-010 Page 6	Daily calibration check	Method Requirements	IC Analyst	Recalibration or instrument maintenance
ICP Shealy SOP S-IM-005 Page 6 & 7	Daily calibration check	Method Requirements	ICP Analyst	Recalibration or instrument maintenance
Leeman Mercury Analyzer Shealy SOP S-IM-006 Page 5	Daily calibration check	Method Requirements	Mercury Analyst	Recalibration or instrument maintenance
Flow Injection Analysis – Lachat 8000 Shealy SOP S-IN-042 Page 5	Daily and continuing calibration check	See calibration criteria	Nitrate Analyst	Recalibration or instrument maintenance
YSI 63 - 09C 101302, 10K 101895, 07M 100905	Daily calibration check	See calibration criteria	Field Staff	Recalibrate, general maintenance then recalibrate. Ship off for service by manufacturer
YSI 550A - 04L 2026AK, 08B 101407, 04A 0912AI	Daily calibration check	See calibration criteria	Field Staff	Recalibrate, general maintenance then recalibrate. Ship off for service by manufacturer

**Table 12A Instrument and Equipment Inspection**

## 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.

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
Volatiles Mass Spec	Minimum of 5 calibration standards for all compounds	When indicated by continuous calibration verification standard	Method Criteria	Detailed in SOP	MSV Analyst	S-VO-002
Semi-volatile Mass Spec	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	MSSV Analyst	S-SV-021
GC ECD	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	GC Analyst	S-SV-012
Dionex IC	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	IC Analyst	S-IN-010
ICP	Minimum of 3 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	ICP Analyst	S-IM-022
Cetac Mercury Analyzer	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in SOP	Mercury Analyst	S-IM-006
Lacaht QuickChem 8000	Minimum of 5 calibration standards	Daily or when indicated by calibration verification standard	Method Criteria	Detailed in SOP	Nitrate Analyst	S-IN-042
YSI 63	pH Calibration	Daily	+/- 0.2 pH units	clean/replace probe tip, recalibrate	Field Staff	4.3.6
YSI 63	Conductivity Calibration	As directed by manufacturer	+/- 10 uS	clean/replace probe tip, recalibrate	Field Staff	4.3.6
YSI 550A	DO calibration	Daily	+/- 0.25 mg/l	clean/replace probe tip,	Field Staff	4.3.6

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
				recalibrate		
YSI 550A	Temperature Calibration	Daily	+/- 1 °C	clean/replace probe tip, recalibrate	Field Staff	4.3.6
Electronic Water Level Indicator	Checked vs. Standard	Monthly	+/- 0.01 foot per 10 foot length	Replace probe tape	Field Staff	***
Oil/Water Interface probe	Checked vs. Standard	Monthly	+/- 0.01 foot per 10 foot length	Replace probe tape	Field Staff	***

Table 13A Instrument Calibration Criteria and Corrective Action

\* 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. See also Table 8A SOP Abbreviation Key.

## B8 Inspection/Acceptance Requirements for Supplies and Consumables

1. Identify critical supplies and consumables for field and laboratory, noting supply source, acceptance criteria, and procedures for tracking, storing and retrieving these materials.
2. Identify the individual(s) responsible for this.

Item	Vendor	Acceptance criteria	Handling/Storage Conditions	Person responsible for inspection and tracking.
Laboratory Chemicals	Fisher, VWR	Certificates of analysis and laboratory testing	Laboratory storage	Receiving and laboratory personnel
Laboratory standards	O2Si, Restek, High Purity, VHG, Supelco	Certificates of analysis and laboratory verifications	Vendor specific storage conditions	Laboratory Analysts
Sample Containers	Daniels Scientific, QEC	Certificates of analysis and laboratory testing	Bottle storage area	Sample receiving personnel
Clear, Disposable polyethylene Bailers	Preferred Pump	Individual sleeves intact, ball valve operational	Stored in Vehicle Bay, Off of the ground	C. Sanders, Field Staff
Nylon Rope	Preferred Pump	Covered with plastic	Stored in Vehicle Bay, Off of the ground	C. Sanders, Field Staff
Nitrile Gloves	Preferred Pump	Unopened box, no holes	Stored in Vehicle Bay, Off of the ground	C. Sanders, Field Staff
40 mL HCL preserved amber vials	Shealy Environmental Services	Custody seal intact	Stored in Vehicle Bay, Off of the ground	C. Sanders, Field Staff
250 mL HNO3 preserved metals vials	Shealy Environmental Services	Custody seal intact	Stored in Vehicle Bay, Off of the ground	C. Sanders, Field Staff
Coolers	Shealy Environmental Services	Intact	Stored in Vehicle Bay, Off of the ground	C. Sanders, Field Staff
pH Buffer	TRS	Within expiration date	Stored in	C. Sanders, Field Staff

	Environmental, Enviroequipment		calibration room	
Conductivity Standard	TRS Environmental, Enviroequipment	Within expiration date	Stored in calibration room	C. Sanders, Field Staff
DO Membranes	YSI, Enviroequipment	Clean, in box	Stored in calibration room	C. Sanders, Field Staff
Batteries	Any Store	Not previously used	Stored in calibration room	C. Sanders, Field Staff

**Table 14A List of Consumables and Acceptance Criteria**

### **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., its relevance to project.
3. Indicate the acceptance criteria for these data sources and/or models.

<b>Data Source</b>	<b>Used for</b>	<b>Justification for use in this project</b>	<b>Comments</b>
Historical Data	Site Maps and Well Construction Information	Well Location and Detail	

**Table 15A Non-Direct Measurements**

4. Identify key resources/support facilities needed.

There are no non-direct measurements in this project

### **B10 Data Management**

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

Following sample collection and chain of custody production, samples are shipped to the lab. Field work from the field staff is reviewed by the MECI project manager, and converted into digital form. All data entry is subsequently checked to validate the data entry. The original copies of the field work are stored in MECI files for a minimum of 5 years. Digital copies of the work are stored on the MECI server, which is backed up weekly, and stored for a minimum of 5 years. The digital copy of the field work is presented to SCDHEC with the final report.

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?

The laboratory maintains comprehensive Quality Control and Training Programs. All sample receipt data, sample log-in, and analytical data is peer reviewed, including review for inappropriate changes. Data management, review procedures and the Quality Systems Program are documented in the laboratory's Quality Manual and Standard Operating Procedures. The Quality Assurance Department oversees adherence to and review of these programs.

All MECI field work is produced using ink-pens. Any attempt to alter field data, after sampling is complete, can be readily identified. MECI keeps a carbon copy of the chain of custody after it is shipped to the lab. This copy is kept with the field work. If any change to the CoC are suspected, this original carbon copy can be use to identify potential changes.

3. How does the lab ensure that there are no errors in samples records including times when sample information is compiled, data calculated and/or transmitted?

Sample data acquisition software is reviewed periodically. The LIMS database is backed up daily and is able to be restored in the event of a system failure. These procedures are documented in laboratory SOP S-AD-003, LIMS. The IT Manager is responsible for these systems and procedures."

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).

Laboratory Hardcopy data stored off site is logged, maintained and archived by the Quality Assurance Department. Laboratory Electronic Data Reports are maintained through IT back up under the responsibility of the IT Systems Manager.

MECI keeps all field work and paper copies of reports in its in-house filing system. All paper copies are stored for a minimum of 5 years. Any file can be retrieved easily by going to the correct filing cabinet/box.

All electronic copies of reports generated are kept on the MECI server. This server is backed-up on a weekly basis. Any file stored on the MECI server can be retrieved instantly, by accessing the server. All electronic files are stored for a minimum of 5 years on the server.

## **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. Will this person have the authority to stop work if severe problems are seen?*

Field audits can be conducted on any field personnel at any time. MECI field audits can be conducted by the Field Manger, who will be responsible for ensuring that field personnel adhere to the QAPP. If during a random field audit, severe problems are found, work will be stopped by the field manager and the QA

officer contacted to determine corrective action. All problems must be corrected prior to any additional work being performed. Should it be requested, an On-site Field Audit can be scheduled with the SCDHEC project manager. If severe problems are identified by the SCDHEC project manager, the project manager can stop the work until the problems are corrected.

2. *The SCDHEC UST QAPP states that the Lab will receive an Offsite Technical System Audit. For this project, what assessments will be done on the Commercial Lab(s) that are being used—other than their certification audit? When or how often are these done? Who will the results be given to and who has the ability to stop work if problems are severe?*

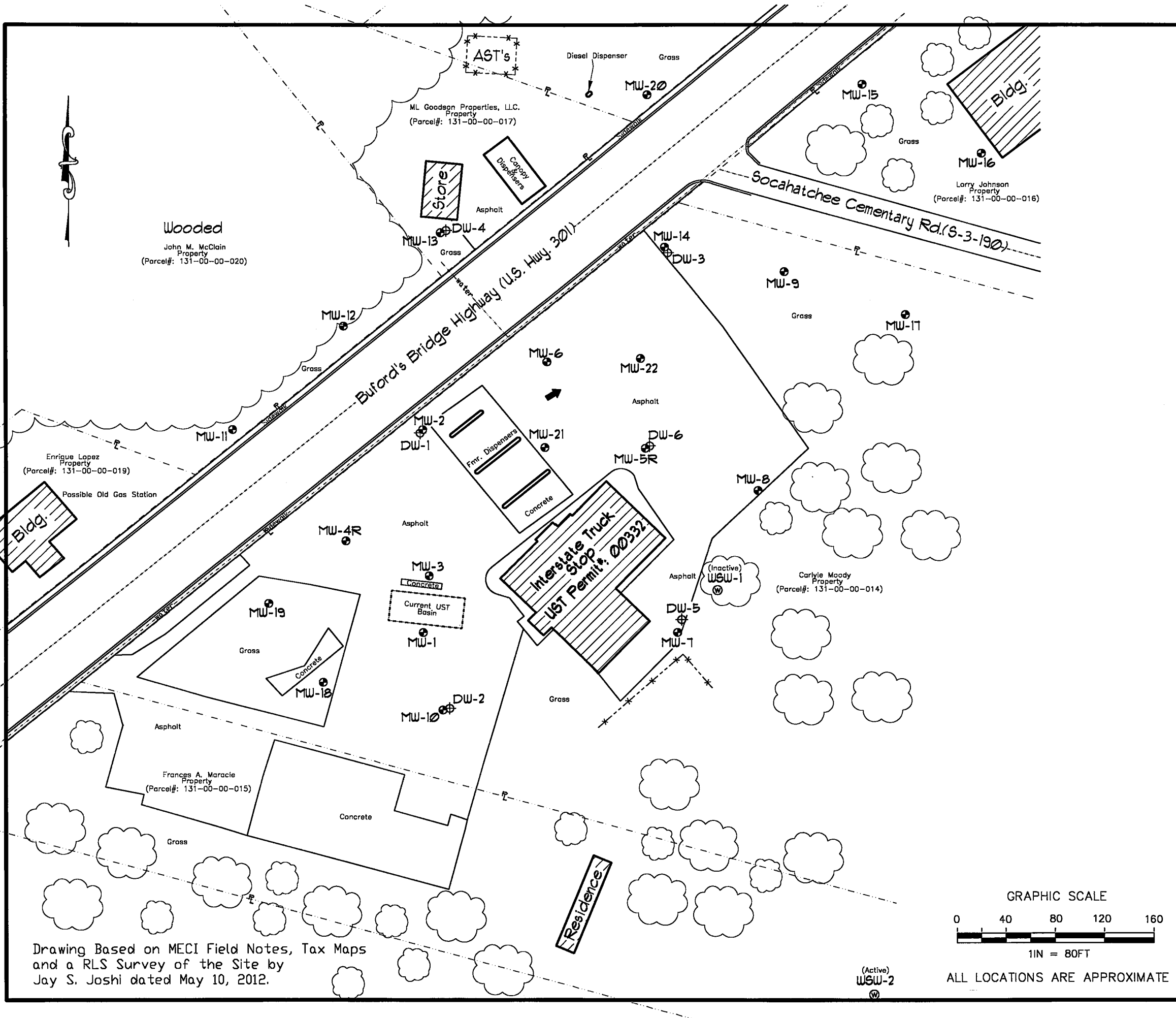
The laboratory participates in annual Proficiency Testing through an approved vendor, Wibby Environmental. If during a random audit, severe problems are found, work will be stopped by the according Wibby Environmental representative and the QA officer contacted to determine corrective action. Proficiency Testing results are provided to the Office of Environmental Laboratory Certification.

## **C2 Reports to Management**

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

## **Section D Data Validation and Usability**

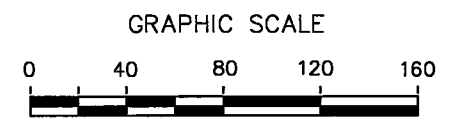
See the SC DHEC UST Programmatic QAPP (UST Master QAPP).



**Explanation:**

- ⊙ Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊗ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- - - - - Property Line
- water - Buried Water Line
- fence - Fence

<b>Site Base Map</b>	
Interstate Truck Stop U.S. Highway 321 & S-3-190 Ulmer, South Carolina SCDHEC Site ID 00332	
<b>Midlands Environmental Consultants, Inc.</b> 	JOB NO. 12-3888 DATE June 5, 2012 FIGURE <span style="font-size: 2em; font-weight: bold;">2</span>



ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.

(Active) WSW-2



Chain of Custody Record

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

Number

Form with sections for Client, Address, City, Project Name, Project Number, Sample ID / Description, Matrix, Analysis, Turn Around Time Required, Sample Disposal, QC Requirements, Possible Hazard Identification, and a final note: 'Note: All samples are retained for six weeks from receipt unless other arrangements are made.'





Catherine B. Templeton, Director

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

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

**MAY 28 2013**



**Re: Notice to Proceed-Groundwater Sampling/QAPP Contractor Addendum Approval**  
Groundwater Sampling Contract  
Solicitation # IFB-5400002759, PO#4600088529  
Interstate Truck Terminal Inc, Hwy 301 & 321, Ulmer, SC  
UST Permit # 00332; Cost Agreements # 45581 & # 45582  
Allendale County

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400002759 and the UST Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Contractor Addendum has been reviewed and approved. In accordance with the QAPP, a weekly status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. The Department grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs. **Please note, the final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.**

The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to Debra Thoma, the contract manager.

Page 2

If you have any site-specific questions, please contact me at (803) 896-6633 or via e-mail at [ridglect@dhec.sc.gov](mailto:ridglect@dhec.sc.gov). If you have any contract specific questions, please contact Debra Thoma at (803) 896-6397 or via e-mail at [thomadl@dhec.sc.gov](mailto:thomadl@dhec.sc.gov).

Sincerely,



Cathleen Ridgley, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved QAPP Contractor Addendum Signature Page  
Approved Cost Agreement (both CAs)

cc: Debra Thoma, Corrective Action Section, UST Management Division  
Kelly Maberry, Shealy Environmental, 106 Vantage Point Dr., West Columbia, SC, 29172 (w/ approved CA)  
Technical Files (w/ encs.)



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-896-6240

**MEMORANDUM**

TO: Midlands Environmental Consultants, Inc

FROM: Cathleen Ridgley

RE: Notice to Proceed

Facility Name: Interstate Truck Terminal Inc

Permit Number: 00332

County: Allendale

Work To Be Completed: Sample all monitoring wells and WSW-2 for BTEX, naphthalene, MtBE, 1,2-DCA, EDB, and 8 oxygenates.

Shealy Environmental 45582

MECI 45581

**Section A: Project Management**

**A1 Title and Approval Page**

Quality Assurance Project Plan  
Addendum to the SC DHEC UST Programmatic QAPP  
For

---

Interstate Truck Terminal, Inc., SCDHEC Site ID# 00332

---

Socahatchee Cemetery Road and Highway 321, Ulmer, South Carolina

---

Prepared by:  
Courtney M. Sanders  
Staff Biologist  
Midlands Environmental Consultants, Inc.  
(Certified Site Rehabilitation Contractor UCC-0009)  
235-B Dooley Road  
Lexington, SC 29073  
(803)808-2043

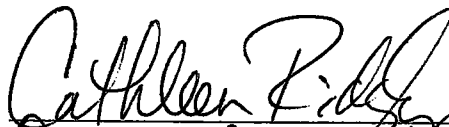
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Date: April 8, 2013

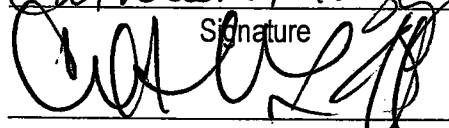
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Approvals

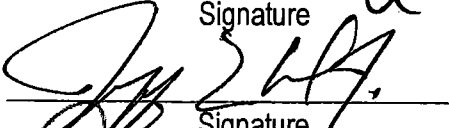
Cathleen Ridgley  
SC DHEC Project Manager

  
\_\_\_\_\_  
Signature Date 5/24/13

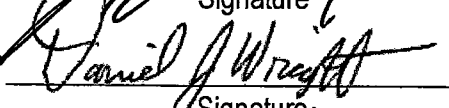
Courtney M. Sanders  
Contractor QA Manager

  
\_\_\_\_\_  
Signature Date 4/9/13

Jeff L. Coleman  
Site Rehabilitation Contractor

  
\_\_\_\_\_  
Signature Date 4/9/13

Daniel J. Wright  
Laboratory Director

  
\_\_\_\_\_  
Signature Date 04/08/2013

# Approved Cost Agreement 45581

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

RIDGLECT

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		B PERSONNEL	3.0000	100.00	300.00
10 SAMPLE COLLECTION		A GROUND WATER	8.0000	4.50	36.00
		C WATER SUPPLY	1.0000	2.00	2.00
		D GROUNDWATER NO-PURGE	20.0000	4.50	90.00
		H FIELD BLANK	1.0000	2.00	2.00
17 DISPOSAL		A WASTEWATER	120.0000	0.10	12.00
18 MISCELLANEOUS		QAPP PREP	1.0000	0.00	0.00
<b>Total Amount</b>					<b>442.00</b>

# Approved Cost Agreement 45582

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

RIDGLECT

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	33.0000	35.00	1,155.00
		F EDB	33.0000	20.00	660.00
		<b>Total Amount</b>			<b>1,815.00</b>



Midlands  
Environmental  
Consultants, Inc.

June 13, 2013

Ms. Debra Thoma, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: Report of Groundwater Sampling  
Interstate Truck Terminal  
Highway 301 & 321  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332; CA # 45581  
MECI Project Number 13-4401  
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Thoma,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

#### PROJECT INFORMATION

The subject site (Interstate Truck Terminal) is located at Socahatchee Cemetery Road & Highway 321, Ulmer, Allendale County, South Carolina. The subject site formally maintained two 8,000 gallon diesel underground storage tanks (UST's), one 8,000 gallon gasoline UST, one 6,000 gallon diesel UST, two 6,000 gallon gasoline UST's, and three 4,000 gallon gasoline USTs. These UST's are still in the ground, but the tank status is rendered unusable (RNU). A release of petroleum product from the subject UST's was reported in June of 2002 and confirmed in October of 2002. The subject site is currently rated a Class2BB.

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

#### MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On June 10, 2013, MECI personnel collected twenty-eight (28) monitoring well samples and one (1) water supply well sample at the subject site. MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum

product level measurements. Based on a request by SCDHEC personnel, not all of the wells were to be purged prior to sampling. Ten (10) monitoring wells were purged prior to sample collection. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen stabilized to within 10%, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, water temperature, and turbidity were obtained before well sampling process. MECI utilized YSI550A meter for DO (mg/L) and temperature readings (°C), YSI63 meters for pH and conductivity (uS) readings and a MicroTPI/TPW turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP, Dated June 2011) and MECI's Standard Operating Procedures (MECI SOP, Dated August, 2011).

Groundwater samples obtained were sent to Shealy Environmental Services, Inc. of West Columbia, SC (SCDHEC Laboratory Certification #32010) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Monitoring Well	Purge	No Purge	Product	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 335.2)	Methane (RSK Method)	PAH's (EPA Method 8270)	Ferrous Iron (Field Test)
Analyte Sampled														
MW-1		X			X	X	X	X						
MW-2		X			X	X	X	X						
MW-3		X			X	X	X	X						
MW-4R	X				X	X	X	X						
MW-5R		X			X	X	X	X						
MW-6		X			X	X	X	X						
MW-7		X			X	X	X	X						
MW-8		X			X	X	X	X						
MW-9		X			X	X	X	X						
MW-10		X			X	X	X	X						
MW-11	X				X	X	X	X						
MW-12	X				X	X	X	X						
MW-13		X			X	X	X	X						
MW-14	X				X	X	X	X						
MW-15		X			X	X	X	X						
MW-16		X			X	X	X	X						
MW-17		X			X	X	X	X						
MW-18		X			X	X	X	X						
MW-19		X			X	X	X	X						
MW-20		X			X	X	X	X						

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dichloroethane  
PAH = polycyclic aromatic hydrocarbons  
Trip Blank provided by Shealy Environmental, temperature obtained upon receipt at Laboratory



Monitoring Well	Purge	No Purge	Product	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 335.2)	Methane (RSK Method)	PAH's (EPA Method 8270)	Ferrous Iron (Field Test)
					Analyte Sampled									
MW-21			X											
MW-22		X			X	X	X	X						
DW-1	X				X	X	X	X						
DW-2	X				X	X	X	X						
DW-3	X				X	X	X	X						
DW-4	X				X	X	X	X						
DW-5	X				X	X	X	X						
DW-6	X				X	X	X	X						
WSW-2					X	X	X	X						
MW-1 Dup					X	X	X	X						
MW-2 Dup					X	X	X	X						
Field Blank					X	X	X	X						
Trip Blank					X		X	X						

Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dichloroethane  
PAH = polycyclic aromatic hydrocarbons  
Trip Blank provided by Shealy Environmental, temperature obtained upon receipt at Laboratory

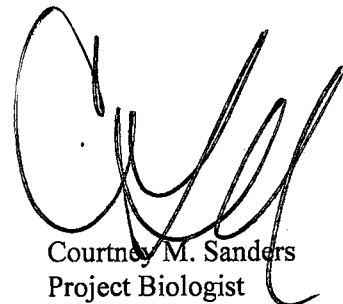
Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 90.5 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

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

Sincerely,  
Midlands Environmental Consultants, Inc.



Patrick G. Boylan  
Staff Geologist



Courtney M. Sanders  
Project Biologist

Attachments:

**Contractor Checklist**

Item#	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?			X
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

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

**Site Activity Summary**

UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: C. Lashley, R. Ariail

  
 Midlands Environmental Consultants, Inc.  
 235-B Dooley Road, Lexington, SC 29013  
 (803) 808-2043 Fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-1	Y	6/10/13	14:50	25-35	***	25.15	***	3.12	***	Odor, Added 1 Bolt, Duplicated
MW-2	Y	6/10/13	15:14	25-35	***	25.63	***	2.06	***	Odor, Duplicated
MW-3	Y	6/10/13	15:40	24-34	***	25.85	***	1.19	***	Odor
MW-4R	Y	6/10/13	15:47	25-35	***	24.16	***	0.68	11.0	Odor
MW-5R	Y	6/10/13	13:15	25-35	***	28.10	***	1.01	***	Odor
MW-6	Y	6/10/13	15:52	25-35	***	25.53	***	1.31	***	Odor
MW-7	Y	6/10/13	14:06	25-35	***	22.83	***	5.20	***	No Odor
MW-8	Y	6/10/13	13:25	25-35	***	27.18	***	5.08	***	No Odor
MW-9	Y	6/10/13	11:49	25-35	***	25.09	***	4.76	***	No Odor
MW-10	Y	6/10/13	14:40	25-35	***	25.09	***	4.59	***	Odor
MW-11	Y	6/10/13	11:04	25-35	***	22.50	***	0.98	3.0	No Odor
MW-12	Y	6/10/13	10:53	25-35	***	23.00	***	1.15	10.0	No Odor
MW-13	Y	6/10/13	10:30	25-35	***	25.10	***	1.02	***	No Odor
MW-14	Y	6/10/13	12:25	25-35	***	24.43	***	0.77	9.00	Slight Odor
MW-15	Y	6/10/13	11:15	15-35	***	24.62	***	4.61	***	No Odor
									33.0	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: C. Lashley, R. Ariail

  
 Midlands Environmental Consultants, Inc.  
 235-B Dooley Road, Lexington, SC 29013  
 (803) 808-2043 Fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-16	Y	6/10/13	11:23	15-35	***	26.83	***	1.77	***	Slight Odor
MW-17	Y	6/10/13	11:42	15-35	***	25.93	***	4.85	***	No Odor
MW-18	Y	6/10/13	14:51	15-35	***	21.38	***	2.65	***	No Odor
MW-19	Y	6/10/13	15:25	15-35	***	22.46	***	1.64	***	No Odor
MW-20	Y	6/10/13	10:03	15-35	***	23.90	***	7.78	***	No Odor
MW-21	N	6/10/13	***	25-35	25.50	25.51	0.01	***	***	Product
MW-22	Y	6/10/13	12:52	25-35	***	26.18	***	0.86	***	Slight Odor
DW-1	Y	6/10/13	16:05	65-70	***	27.49	***	1.90	2.5	No Odor
DW-2	Y	6/10/13	14:33	65-70	***	27.25	***	3.63	6.0	No Odor
DW-3	Y	6/10/13	12:09	65-70	***	25.45	***	1.02	6.5	No Odor
DW-4	Y	6/10/13	10:25	65-70	***	25.75	***	4.59	7.0	No Odor
DW-5	Y	6/10/13	14:00	80-85	***	29.15	***	4.77	8.5	No Odor
DW-6	Y	6/10/13	13:35	80-85	***	29.11	***	3.74	27.0	No Odor
WSW-2	Y	6/10/13	14:05	***	***	***	***	***	***	Spigot in Well House
MW-1 Dup	Y	6/10/13	14:50	***	***	***	***	***	***	Duplicate Sample
									57.5	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: C. Lashley, R. Ariail


  
 Midlands Environmental Consultants, Inc.  
 235-B Dooley Road, Lexington, SC 29013  
 (803) 808-2043 Fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-2 Dup	Y	6/10/13	15:14	***	***	***	***	***	***	Duplicate Sample
Field Blank	Y	6/10/13	15:15	***	***	***	***	***	***	Field Blank
Trip Blank	Y	6/10/13	15:15	***	***	***	***	***	***	Trip Blank
									0.0	<b>TOTAL GALLONS PURGED</b>

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 6/10/2013

Field Personnel: C. Lashley, R. Ariail

General Weather Conditions: Sunny

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<u>YSI 63</u>	<u>YSI 550A</u>
09C 101302 <u>X</u>	04L 2026AK <u>X</u>
10K 101895	08B 101895
07M 100905	04A 0912AI
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Interstate Truck Terminal

Site ID#: 00332 Monitoring Well # MW-4R

Water Supply Well Public Private \_\_\_\_\_

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 24.16 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 10.84 feet

1 casing volume (CV=LWC X C)= 0.163 X 1.77 gallons

5 casing volume (5 X CV)= 5 X 8.83 gallons

Total Volume of Water Purged Before Sampling 9 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	15:30	15:33	15:37	15:40	15:43	15:47	
pH (s.u.)	6.19	6.08	6.03	6.03	6.02	6.01	
Specific Conductivity (µmhos/cm)	134.4	129.9	103.2	110.3	118.2	121.6	
Water Temperature (°C)	23.7	24.5	24.2	24.1	23.9	23.2	
Dissolved Oxygen	0.68	0.08	0.13	0.15	0.12	0.34	
Turbidity (NTU)	21.24	351.2	486.4	551.4	388.2	498.2	
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 15:47

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 6/10/2013

**Field Personnel:** C. Lashley, R. Ariail

**General Weather Conditions:** Sunny

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<b><u>pH/Conductivity Meter</u></b>	<b><u>DO Meter</u></b>
<b>YSI 63</b>	<b>YSI 550A</b>
09C 101302 <u>  X  </u>	04L 2026AK <u>  X  </u>
10K 101895 <u>      </u>	08B 101895 <u>      </u>
07M 100905 <u>      </u>	04A 0912AI <u>      </u>
Calibration Buffer: <u>4, 7, &amp; 10</u>	

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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**Facility Name:** Interstate Truck Terminal

**Site ID#:** 00332      **Monitoring Well #** MW-11

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 22.50 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 12.5 feet

1 casing volume (CV=LWC X C)= _____ X	<u>0.163</u>	<u>2.04</u>	gallons
5 casing volume (5 X CV)= _____	<u>5</u>	<u>10.19</u>	gallons

Total Volume of Water Purged Before Sampling 3 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	10:58	11:02					
pH (s.u.)	5.62	5.61					
Specific Conductivity (µmhos/cm)	62.1	38.0					
Water Temperature (°C)	21.8	21.3					
Dissolved Oxygen	0.98	0.99					
Turbidity (NTU)	52.60	418.3					
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 11:02 Dry @ 3 Gallons



**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 6/10/2013

Field Personnel: C. Lashley, R. Ariail

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<u>YSI 63</u>	<u>YSI 550A</u>
09C 101302 <u>X</u>	04L 2026AK <u>X</u>
10K 101895 _____	08B 101895 _____
07M 100905 _____	04A 0912AI _____

Calibration Buffer: 4, 7, & 10

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Interstate Truck Terminal

Site ID#: 00332 Monitoring Well # MW-12

Water Supply Well Public Private \_\_\_\_\_

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 23.00 feet

Total Well Depth (TWD) 35 feet

Length of the water column (LWC=TWD-DGW) 12 feet

1 casing volume (CV=LWC X C)= _____ X <u>0.163</u>	<u>1.96</u>	gallons
5 casing volume (5 X CV)= _____ X <u>0.652</u>	<u>9.78</u>	gallons

Total Volume of Water Purged Before Sampling 10 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	10:39	10:42	10:45	10:47	10:50	10:53	
pH (s.u.)	6.31	5.49	5.55	5.23	5.21	4.99	
Specific Conductivity (µmhos/cm)	67.2	72.1	73.4	67.5	69.8	65.4	
Water Temperature (°C)	21.0	20.9	20.9	21.1	21.0	21.3	
Dissolved Oxygen	1.15	1.20	1.38	1.11	1.58	1.52	
Turbidity (NTU)	18.80	396.7	439.7	357.9	380.2	391.3	
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 10:53 **Dry @ 3 Gallons**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

<b>Date (mm/dd/yy):</b> <u>6/10/2013</u>			
<b>Field Personnel:</b> <u>C. Lashley, R. Ariail</u>			
<b>General Weather Conditions:</b> <u>Sunny</u>			
<b>Ambient Air Temperature:</b> <u>28.0</u> °C			
<u>Quality Assurance</u>			
<b>pH/Conductivity Meter</b>		<b>DO Meter</b>	
YSI 63		YSI 550A	
09C 101302	<input checked="" type="checkbox"/>	04L 2026AK	<input checked="" type="checkbox"/>
10K 101895	<input type="checkbox"/>	08B 101895	<input type="checkbox"/>
07M 100905	<input type="checkbox"/>	04A 0912AI	<input type="checkbox"/>
<b>Calibration Buffer:</b> <u>4, 7, &amp; 10</u>			
<u>Chain of Custody</u>			
<b>Relinquished by</b>	<b>Date/Time</b>	<b>Received by</b>	<b>Date/Time</b>

<b>Facility Name:</b> <u>Interstate Truck Terminal</u>			
<b>Site ID#:</b> <u>00332</u>		<b>Monitoring Well #</b> <u>MW-14</u>	
<b>Water Supply Well</b>		<b>Public</b> <input type="checkbox"/> <b>Private</b> <input type="checkbox"/>	
<b>Monitoring Well Diameter (D):</b> <u>2</u> inches			
<b>Conversion Factor (C):</b> $3.14 \times (D/2)^2$ for a 2 inch well C=0.163 for a 4 inch well C=0.652			
<b>* Free Product Thickness:</b> _____ feet			
<b>Depth to Free Product (DFP)</b> _____ feet			
<b>Depth to Ground Water (DGW)</b> <u>24.43</u> feet			
<b>Total Well Depth (TWD)</b> <u>35</u> feet			
<b>Length of the water column (LWC=TWD-DGW)</b> <u>10.57</u> feet			
<b>1 casing volume (CV=LWC X C)=</b> <u>   </u> X <u>0.163</u> <u>1.72</u> gallons			
<b>5 casing volume (5 X CV)=</b> <u>   </u> X <u>0.163</u> <u>8.61</u> gallons			
<b>Total Volume of Water Purged Before Sampling</b> <u>9</u> gals.			
<b>*If free product is present over 1/8 inch, sampling will not be required.</b>			

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	12:12	12:17	12:19	12:21	12:23	12:25	
pH (s.u.)	5.86	5.39	5.35	5.25	5.06	5.03	
Specific Conductivity (µmhos/cm)	105.1	78.2	86.3	91.5	91.1	93.7	
Water Temperature (°C)	23.0	22.7	22.5	22.4	22.4	23.2	
Dissolved Oxygen	0.77	2.43	2.54	2.29	2.66	2.16	
Turbidity (NTU)	28.25	103.0	184.8	315.2	349.9	423.7	
PID readings, if required							
<b>Remarks:</b> _____ <b>Sample Time:</b> <u>12:25</u>							

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 6/10/2013

**Field Personnel:** C. Lashley, R. Ariail

**General Weather Conditions:** Sunny

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**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<u>YSI 63</u>	<u>YSI 550A</u>
<u>.09C 101302</u> <u>X</u>	<u>04L 2026AK</u> <u>X</u>
<u>10K 101895</u>	<u>08B 101895</u>
<u>.07M 100905</u>	<u>04A 0912AI</u>

Calibration Buffer: 4, 7, & 10

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
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**Facility Name:** Interstate Truck Terminal

**Site ID#:** 00332      **Monitoring Well #** DW-1

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

**\* Free Product Thickness:** \_\_\_\_\_ feet

**Depth to Free Product (DFP)** \_\_\_\_\_ feet

**Depth to Ground Water (DGW)** 27.49 feet

**Total Well Depth (TWD)** 70 feet

**Length of the water column (LWC=TWD-DGW)** 42.51 feet

**1 casing volume (CV=LWC X C)=** \_\_\_\_\_ X 0.163 = 6.93 gallons

**5 casing volume (5 X CV)=** 5 X 6.93 = 34.65 gallons

**Total Volume of Water Purged Before Sampling** 2.5 gals.

*\*If free product is present over 1/8 inch, sampling will not be required.*

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	15:03	16:05					
pH (s.u.)	6.41	Silty					
Specific Conductivity (µmhos/cm)	198.4	Silty					
Water Temperature (°C)	24.3	Silty					
Dissolved Oxygen	1.90	Silty					
Turbidity (NTU)	18.21	Silty					
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 16:05      Dry @ 2.5  
TD: 43.65, Let Recharge for an Hour

South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 6/10/2013

Field Personnel: C. Lashley, R. Ariail

General Weather Conditions: Sunny

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Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>		<u>DO Meter</u>	
YSI 63		YSI 550A	
09C 101302	<u>X</u>	04L 2026AK	<u>X</u>
10K 101895	<u>        </u>	08B 101895	<u>        </u>
07M 100905	<u>        </u>	04A 0912AI	<u>        </u>
Calibration Buffer:	<u>4, 7, &amp; 10</u>		

Chain of Custody

Relinquished by	<u>        </u>	Date/Time	<u>        </u>	Received by	<u>        </u>	Date/Time	<u>        </u>
-----------------	-----------------	-----------	-----------------	-------------	-----------------	-----------	-----------------

Facility Name: Interstate Truck Terminal

Site ID#: 00332 Monitoring Well # DW-2

Water Supply Well      Public          Private         

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness:          feet

Depth to Free Product (DFP)          feet

Depth to Ground Water (DGW) 27.49 feet

Total Well Depth (TWD) 70 feet

Length of the water column (LWC=TWD-DGW) 42.51 feet

1 casing volume (CV=LWC X C)=      X 0.163 6.93 gallons

5 casing volume (5 X CV)= 5 34.65 gallons

Total Volume of Water Purged Before Sampling 6 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	14:20	14:31					
pH (s.u.)	6.81	5.63					
Specific Conductivity (µmhos/cm)	108.7	119.5					
Water Temperature (°C)	22.8	22.2					
Dissolved Oxygen	3.63	4.23					
Turbidity (NTU)	37.29	315.1					
PID readings, if required							

Remarks:          Sample Time: 14:31 Dry @ 6 Gallons

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

**Date (mm/dd/yy):** 6/10/2013

**Field Personnel:** C. Lashley, R. Ariail

**General Weather Conditions:** Sunny

---

**Ambient Air Temperature:** 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>	<u>DO Meter</u>
<u>YSI 63</u>	<u>YSI 550A</u>
<u>09C 101302</u> <u>X</u>	<u>04L 2026AK</u> <u>X</u>
<u>10K 101895</u>	<u>08B 101895</u>
<u>.07M 100905</u>	<u>04A 0912AI</u>
<u>Calibration Buffer:</u> <u>4, 7, &amp; 10</u>	

Chain of Custody

<u>Relinquished by</u>	<u>Date/Time</u>	<u>Received by</u>	<u>Date/Time</u>
------------------------	------------------	--------------------	------------------

**Facility Name:** Interstate Truck Terminal

**Site ID#:** 00332      **Monitoring Well #:** DW-3

**Water Supply Well**      **Public** \_\_\_\_\_ **Private** \_\_\_\_\_

**Monitoring Well Diameter (D):** 2 inches

**Conversion Factor (C):**  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 25.45 feet

Total Well Depth (TWD) 70 feet

Length of the water column (LWC=TWD-DGW) 44.55 feet

1 casing volume (CV=LWC X C)= \_\_\_\_\_ X 0.163 7.26 gallons

5 casing volume (5 X CV)= \_\_\_\_\_ X 5 36.31 gallons

**Total Volume of Water Purged Before Sampling** 6.5 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	12:00	12:09					
pH (s.u.)	5.98	6.05					
Specific Conductivity (µmhos/cm)	80.0	118.0					
Water Temperature (°C)	23.3	23.5					
Dissolved Oxygen	1.02	1.68					
Turbidity (NTU)	91.26	392.9					
PID readings, if required							

**Remarks:** \_\_\_\_\_ **Sample Time:** 12:09      **Dry @ 6.5 Gallons**

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 6/10/2013

Field Personnel: C. Lashley, R. Ariail

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>		<u>DO Meter</u>	
<u>YSI 63</u>		<u>YSI 550A</u>	
09C 101302	<u>X</u>	04L 2026AK	<u>X</u>
10K 101895	<u>      </u>	08B 101895	<u>      </u>
07M 100905	<u>      </u>	04A 0912AI	<u>      </u>

Calibration Buffer: 4, 7, & 10

Chain of Custody

Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____
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Facility Name: Interstate Truck Terminal

Site ID#: 00332 Monitoring Well # DW-4

Water Supply Well        Public        Private       

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness:        feet

Depth to Free Product (DFP)        feet

Depth to Ground Water (DGW) 25.75 feet

Total Well Depth (TWD) 70 feet

Length of the water column (LWC=TWD-DGW) 44.25 feet

1 casing volume (CV=LWC X C)= <u>      </u> X <u>0.163</u>	<u>7.21</u>	gallons
5 casing volume (5 X CV)= <u>      </u> X <u>5</u>	<u>36.06</u>	gallons

Total Volume of Water Purged Before Sampling 7 gals.  
\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)	10:13	10:25						
pH (s.u.)	10.34	9.27						
Specific Conductivity ( $\mu$ mhos/cm)	172.1	150.3						
Water Temperature (°C)	20.8	21.9						
Dissolved Oxygen	4.59	4.73						
Turbidity (NTU)	10.63	587.6						
PID readings, if required								

Remarks: \_\_\_\_\_ Sample Time: 10:25 Dry @ 7 Gallons

**South Carolina Department of Health and Environmental Control**  
**Bureau of Land and Waste Management Underground Storage Tank Program**  
**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 6/10/2013

Field Personnel: C. Lashley, R. Ariail

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

<u>pH/Conductivity Meter</u>		<u>DO Meter</u>	
<u>YSI 63</u>		<u>YSI 550A</u>	
09C 101302	<u>X</u>	04L 2026AK	<u>X</u>
10K 101895	<u>      </u>	08B 101895	<u>      </u>
07M 100905	<u>      </u>	04A 0912AI	<u>      </u>
Calibration Buffer:	<u>4, 7, &amp; 10</u>		

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>

Facility Name: Interstate Truck Terminal

Site ID#: 00332 Monitoring Well # DW-5

Water Supply Well      Public        Private       

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$       for a 2 inch well C=0.163  
    for a 4 inch well C=0.652

\* Free Product Thickness:        feet

Depth to Free Product (DFP)        feet

Depth to Ground Water (DGW) 29.15 feet

Total Well Depth (TWD) 85 feet

Length of the water column (LWC=TWD-DGW) 55.85 feet

1 casing volume (CV=LWC X C)=	<u>      </u> X	<u>0.163</u>	<u>9.10</u>	gallons
5 casing volume (5 X CV)=	<u>5</u>	<u>      </u>	<u>45.52</u>	gallons

Total Volume of Water Purged Before Sampling 8.5 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	13:49	14:00					
pH (s.u.)	11.18	11.14					
Specific Conductivity (µmhos/cm)	258.0	357.9					
Water Temperature (°C)	21.7	22.3					
Dissolved Oxygen	4.77	4.45					
Turbidity (NTU)	21.14	311.1					
PID readings, if required							

Remarks:        Sample Time: 14:00 Dry @ 8.5 Gallons

**South Carolina Department of Health and Environmental Control  
Bureau of Land and Waste Management Underground Storage Tank Program**

**Field Data Information Sheet for Groundwater Sampling**

Date (mm/dd/yy): 6/10/2013

Field Personnel: C. Lashley, R. Ariail

General Weather Conditions: Sunny

Ambient Air Temperature: 28.0 °C

Quality Assurance

<b>pH/Conductivity Meter</b>	<b>DO Meter</b>
YSI 63	YSI 550A
09C 101302 <u>X</u>	04L 2026AK <u>X</u>
10K 101895	08B 101895
07M 100905	04A 0912AI

Calibration Buffer: 4, 7, & 10

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
-----------------	-----------	-------------	-----------

Facility Name: Interstate Truck Terminal

Site ID#: 00332 Monitoring Well # DW-6

Water Supply Well Public Private Private

Monitoring Well Diameter (D): 2 inches

Conversion Factor (C):  $3.14 \times (D/2)^2$  for a 2 inch well C=0.163  
for a 4 inch well C=0.652

\* Free Product Thickness: \_\_\_\_\_ feet

Depth to Free Product (DFP) \_\_\_\_\_ feet

Depth to Ground Water (DGW) 29.11 feet

Total Well Depth (TWD) 85 feet

Length of the water column (LWC=TWD-DGW) 55.89 feet

1 casing volume (CV=LWC X C)=	<u>X</u>	<u>0.163</u>	<u>9.11</u>	gallons
5 casing volume (5 X CV)=	<u>5</u>	<u>0.163</u>	<u>45.55</u>	gallons

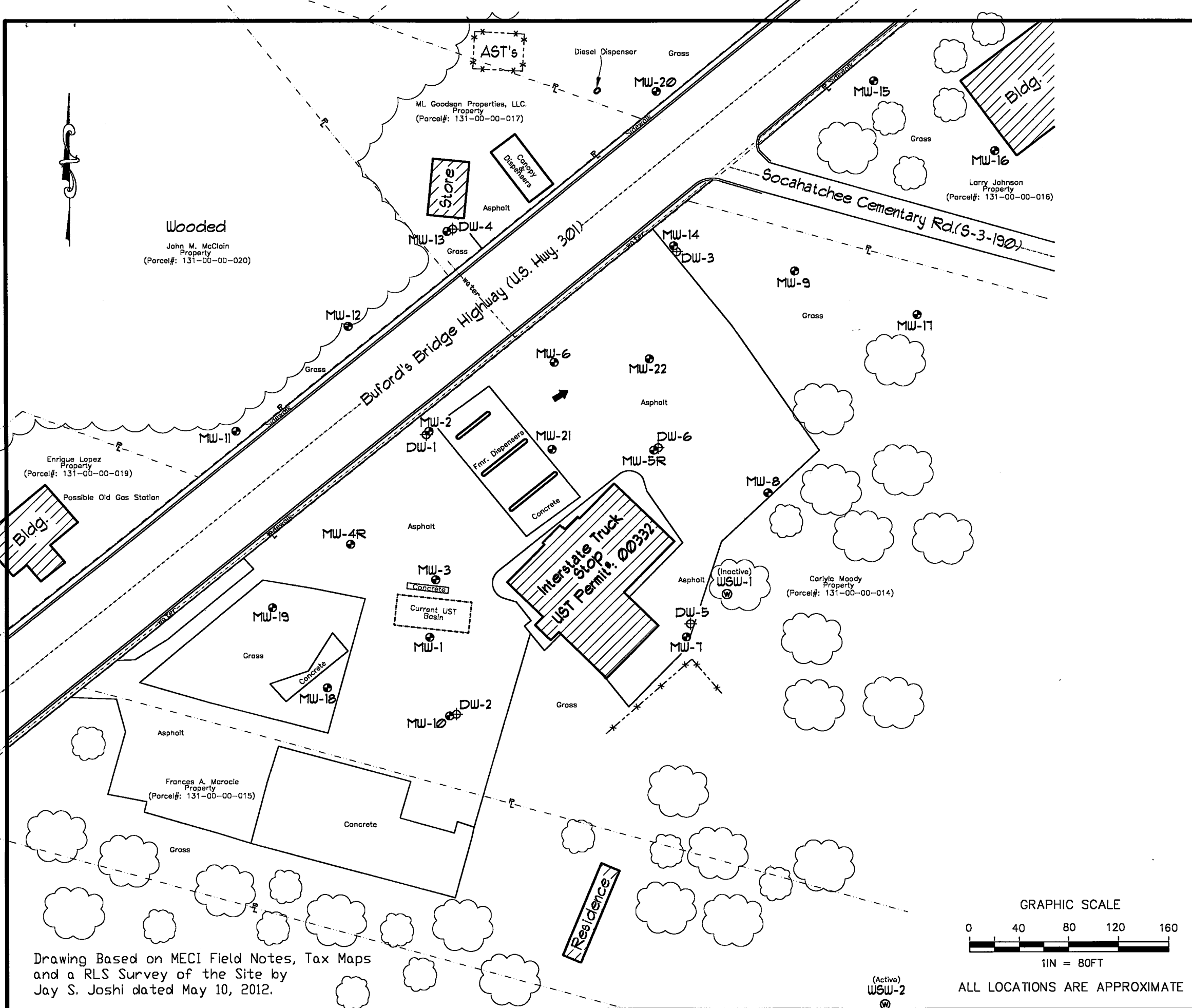
Total Volume of Water Purged Before Sampling 27 gals.

\*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling
Time (military)	13:03	13:15	13:25	13:35			
pH (s.u.)	6.04	5.16	4.81	4.83			
Specific Conductivity (µmhos/cm)	45.9	38.1	62.7	63.5			
Water Temperature (°C)	22.7	22.4	22.3	22.0			
Dissolved Oxygen	3.74	5.09	5.39	5.41			
Turbidity (NTU)	25.18	124.2	203.4	191.4			
PID readings, if required							

Remarks: \_\_\_\_\_ Sample Time: 13:35 Parameters at Ten Percent \_\_\_\_\_

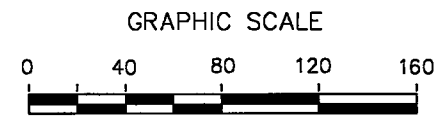




**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- water - Buried Water Line
- fence - Fence

<b>Site Base Map</b>	
Interstate Truck Stop U.S. Highway 321 & S-3-190 Ulmer, South Carolina SCDHEC Site ID 00332	
<b>Midlands Environmental Consultants, Inc.</b>	JOB NO. 12-3888 DATE June 5, 2012 FIGURE <b>2</b>



ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.

(Active) WSW-2



# Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 23826

Client SCDHEC UST			Report to Contact D. Thomas			Sampler (Printed Name) Chris Lashley			Quote No.				
Address 2600 Bull Street			Telephone No. / Fax No. / Email 803-896-6241			Waybill No.			Page 1 of 34				
City Columbia	State SC	Zip Code 29201	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.			3	1	3			Number of Containers		
Project Name Interstate Truck Terminal			Project Number 00332 / 45597			P.O Number 46008P529			Matrix				
Sample ID / Description (Containers for each sample may be combined on one line)			Date	Time	G-Grab C-Composite	GW	DW	WW	S	Other	Analysis	Remarks / Cooler ID	
MW 1			6/10	1450	G	X					X	X	odor
MW 2				1514									odor
MW 3				1540									odor
MW 4R				1547									odor
MW 5R				1315									odor
MW 6				1522									odor
MW 7				1406									No odor
MW 8				1325									No odor
MW 9				1149									No odor
MW 10			6/10	1440	G	X					X	X	odor
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)			Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab			QC Requirements (Specify)			Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown				
1. Relinquished by / Sampler [Signature]			Date 6/10	Time 1700	1. Received by [Signature]			Date 6-10-13	Time 1700				
2. Relinquished by [Signature]			Date 6-11-13	Time 1345	2. Received by [Signature]			Date 6-11-13	Time 1345				
3. Relinquished by			Date	Time	3. Received by			Date	Time				
4. Relinquished by			Date	Time	4. Laboratory Received by			Date	Time				
Note: All samples are retained for six weeks from receipt unless other arrangements are made.						LAB USE ONLY Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack			Receipt Temp. _____ °C Temp. Blank <input type="checkbox"/> Y / <input type="checkbox"/> N				



Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 23827

Client <i>SCDHEC US1</i>			Report to Contact <i>D THOMA</i>					Sampler (Printed Name)					Quote No.						
Address <i>2600 BULL STREET</i>			Telephone No. / Fax No. / Email <i>803-896-6241</i>					Waybill No.					Page <i>2</i> of <i>4</i>						
City <i>Columbia</i>	State <i>SC</i>	Zip Code <i>29201</i>	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.					<i>3</i>	<i>---</i>	<i>3</i>						Number of Containers			
Project Name <i>Interstate Truck Terminal</i>								<i>A</i>	<i>---</i>	<i>A</i>						Bottle (See instructions on back)			
Project Number <i>00332 / 45582</i>			P.O Number <i>46000 85529</i>					<i>S</i>	<i>---</i>	<i>S</i>						Preservative			
Sample ID / Description (Containers for each sample may be combined on one line)			Date	Time	G-Grab C-Composite	GW	DW	WW	S	Other	Analysis	<i>1375</i>	<i>1475</i>	<i>1,2 DCN</i>	<i>803924-6</i>	<i>EDB</i>	Lot No.		
<i>MW 11</i>			<i>6/10</i>	<i>1104</i>	<i>G</i>	<i>X</i>						<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>			Remarks / Cooler ID	
<i>MW 12</i>				<i>1053</i>														<i>No odor</i>	
<i>MW 13</i>				<i>1030</i>														<i>No odor</i>	
<i>MW 14</i>				<i>1225</i>														<i>Slight odor</i>	
<i>MW 15</i>				<i>1115</i>														<i>No odor</i>	
<i>MW 16</i>				<i>1123</i>														<i>Slight odor</i>	
<i>MW 17</i>				<i>1142</i>														<i>No odor</i>	
<i>MW 18</i>				<i>1451</i>														<i>No odor</i>	
<i>MW 19</i>				<i>1525</i>														<i>No odor</i>	
<i>MW 20</i>			<i>6/10</i>	<i>1003</i>	<i>G</i>	<i>X</i>					<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>No odor</i>		
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)					Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab					QC Requirements (Specify)					Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown				
1. Relinquished by / Sampler <i>Chris Jankley</i>			Date <i>6/10/13</i>	Time <i>1700</i>	1. Received by <i>[Signature]</i>					Date <i>6/10/13</i>	Time <i>1700</i>								
2. Relinquished by <i>[Signature]</i>			Date <i>6/11/13</i>	Time <i>1315</i>	2. Received by <i>[Signature]</i>					Date <i>6/11/13</i>	Time <i>1315</i>								
3. Relinquished by			Date	Time	3. Received by					Date	Time								
4. Relinquished by			Date	Time	4. Laboratory Received by					Date	Time								
<b>Note: All samples are retained for six weeks from receipt unless other arrangements are made.</b>										LAB USE ONLY Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack					Receipt Temp. _____ °C Temp. Blank <input type="checkbox"/> Y / <input type="checkbox"/> N				



# Chain of Custody Record

## Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

# Number 23828

Client <i>SCDHEC USE</i>			Report to Contact <i>D Thoma</i>			Sampler (Printed Name)			Quote No.			
Address <i>2600 Bull Street</i>			Telephone No. / Fax No. / Email <i>803 596 8711</i>			Waybill No.			Page <i>3</i> of <i>4</i>			
City <i>Columbia</i>	State <i>SC</i>	Zip Code <i>29201</i>	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.			<i>3</i>	<i>1</i>	<i>3</i>			Number of Containers	
Project Name <i>Intersted Tech. Terminals</i>			Project Number <i>00332 / 45541</i>			P.O Number <i>4600084526</i>			Matrix			
Sample ID / Description (Containers for each sample may be combined on one line)			Date	Time	G-Grab C-Composite	GW	DW	WW	S	Other	Analysis	Remarks / Cooler ID
<i>MW 21 (No Sample)</i>			<i>6/10</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>3</i>	<i>PRODUT</i>
<i>MW 22</i>			<i>6/10</i>	<i>1252</i>	<i>G</i>	<i>X</i>					<i>X</i>	<i>NO odor</i>
<i>MW 1</i>			<i>6/10</i>	<i>1603</i>	<i>G</i>						<i>X</i>	<i>NO odor</i>
<i>MW 2</i>			<i>6/10</i>	<i>1433</i>	<i>G</i>						<i>X</i>	<i>NO odor</i>
<i>MW 3</i>			<i>6/10</i>	<i>1209</i>	<i>G</i>						<i>X</i>	<i>NO odor</i>
<i>MW 4</i>			<i>6/10</i>	<i>1025</i>	<i>G</i>						<i>X</i>	<i>NO odor</i>
<i>MW 5</i>			<i>6/10</i>	<i>1400</i>	<i>G</i>						<i>X</i>	<i>NO odor</i>
<i>MW 6</i>			<i>6/10</i>	<i>1335</i>	<i>G</i>						<i>X</i>	<i>NO odor</i>
<i>WSW 2</i>			<i>6/10</i>	<i>1405</i>	<i>G</i>						<i>X</i>	<i>1ppb Report below detection limit</i>
<i>MW 1 Duplicate</i>			<i>6/10</i>	<i>1450</i>	<i>G</i>	<i>X</i>					<i>X</i>	<i>NO odor</i>
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)			Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab			QC Requirements (Specify)			Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown			
1. Relinquished by / Sampler			Date <i>6-10-13</i>	Time <i>1700</i>	2. Received by <i>[Signature]</i>			Date <i>6-10-13</i>	Time <i>1700</i>			
2. Relinquished by <i>[Signature]</i>			Date <i>6-11-13</i>	Time <i>1345</i>	3. Received by <i>[Signature]</i>			Date <i>6-11-13</i>	Time <i>1345</i>			
3. Relinquished by			Date	Time	4. Laboratory Received by			Date	Time			
4. Relinquished by			Date	Time				Date	Time			
Note: All samples are retained for six weeks from receipt unless other arrangements are made.						LAB USE ONLY Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack			Receipt Temp. _____ °C		Temp. Blank <input type="checkbox"/> Y <input type="checkbox"/> N	



Chain of Custody Record

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

Number 23819

Client: SCDHEC USI, Report to Contact: D. Thoma, Sampler: (Printed Name), Quote No., Address: 2600 Bull Street, Telephone No. / Fax No. / Email: 803 556 6271, Waybill No., City: Columbia, State: SC, Zip Code: 29201, Preservative: 1. Unpres., 4. HNO3, 7. NaOH, 2. NaOH/ZnA, 5. HCL, 3. H2SO4, 6. Na Thio., Project Name: Interstitial Fluid Tissue, Project Number: 00332 / 15552, P.O Number: 460008852, Matrix: GW, DW, WW, S, Other, Analysis: BTEX, N-P, PCB, 1,2 DCA, 8 oxygen, EDB, Sample ID / Description: MW 2 Duplicate, Field Blank, Trip Blank, Date: 6/10, 6/10, 6/10, Time: 1514, 1515, 1615, Turn Around Time Required, Sample Disposal, QC Requirements, Possible Hazard Identification, 1. Relinquished by / Sampler, 2. Relinquished by, 3. Relinquished by, 4. Relinquished by, Note: All samples are retained for six weeks from receipt unless other arrangements are made., LAB USE ONLY, Received on Ice (Check), Receipt Temp., Temp. Blank.



June 13, 2013

Re: Treatment of Purge Water  
Interstate Truck Terminal  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 13-4401

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 30 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

June 13, 2013

**A total of 90.5 gallons were treated on June 10, 2013 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.



Patrick G Boylan  
Staff Geologist

# SHEALY ENVIRONMENTAL SERVICES, INC.

---

## Report of Analysis

**SC DHEC - UST Management**  
2600 Bull Street  
Columbia, SC 29201  
Attention: Debra Thoma

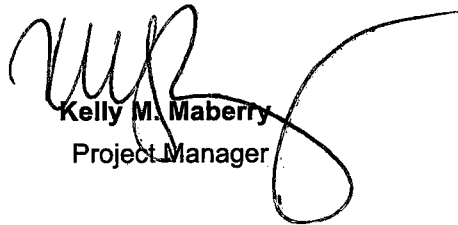


Project Name: **Intersteat Truck terminal**

Project Number: **UST Permit #00332/CA #45582**

Lot Number: **OF11063**

Date Completed: **06/26/2013**

  
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.





# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

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## Case Narrative

### SC DHEC - UST Management

#### Lot Number: OF11063

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This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

#### Sample Receiving

Samples-003, -019 and -022 for volatiles analysis contained vials with air bubbles greater than ¼" or 6mm in diameter. The laboratory uses these vials for screening and the vials without bubbles for analysis whenever possible. Condition of samples is documented on the Sample Receipt Checklist (SRC).

#### Volatiles

Samples -003, -019 and -022 were diluted 5x due to matrix interference. The reporting limits have been raised accordingly.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary SC DHEC - UST Management Lot Number: OF11063

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	06/10/2013 1450	06/11/2013
002	MW-2	Aqueous	06/10/2013 1514	06/11/2013
003	MW-3	Aqueous	06/10/2013 1540	06/11/2013
004	MW-4R	Aqueous	06/10/2013 1547	06/11/2013
005	MW-5R	Aqueous	06/10/2013 1315	06/11/2013
006	MW-6	Aqueous	06/10/2013 1522	06/11/2013
007	MW-7	Aqueous	06/10/2013 1406	06/11/2013
008	MW-8	Aqueous	06/10/2013 1325	06/11/2013
009	MW-9	Aqueous	06/10/2013 1149	06/11/2013
010	MW10	Aqueous	06/10/2013 1440	06/11/2013
011	MW11	Aqueous	06/10/2013 1104	06/11/2013
012	MW12	Aqueous	06/10/2013 1053	06/11/2013
013	MW13	Aqueous	06/10/2013 1030	06/11/2013
014	MW14	Aqueous	06/10/2013 1225	06/11/2013
015	MW15	Aqueous	06/10/2013 1115	06/11/2013
016	MW16	Aqueous	06/10/2013 1123	06/11/2013
017	MW17	Aqueous	06/10/2013 1142	06/11/2013
018	MW18	Aqueous	06/10/2013 1451	06/11/2013
019	MW19	Aqueous	06/10/2013 1525	06/11/2013
020	MW20	Aqueous	06/10/2013 1003	06/11/2013
021	MW22	Aqueous	06/10/2013 1252	06/11/2013
022	DW-1	Aqueous	06/10/2013 1605	06/11/2013
023	DW-2	Aqueous	06/10/2013 1433	06/11/2013
024	DW-3	Aqueous	06/10/2013 1209	06/11/2013
025	DW-4	Aqueous	06/10/2013 1025	06/11/2013
026	DW-5	Aqueous	06/10/2013 1400	06/11/2013
027	DW-6	Aqueous	06/10/2013 1335	06/11/2013
028	WSW-2	Aqueous	06/10/2013 1405	06/11/2013
029	MW-1 Duplicate	Aqueous	06/10/2013 1450	06/11/2013
030	MW2- Duplicate	Aqueous	06/10/2013 1514	06/11/2013
031	Field Blank	Aqueous	06/10/2013 1515	06/11/2013
032	Trip Blank	Aqueous	06/10/2013 1615	06/11/2013

(32 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary SC DHEC - UST Management Lot Number: OF11063

Sample ID	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Benzene	8260B	3.3	J	ug/L	6
001	MW-1	Aqueous	Ethylbenzene	8260B	31		ug/L	6
001	MW-1	Aqueous	Naphthalene	8260B	3.8	J	ug/L	6
001	MW-1	Aqueous	Toluene	8260B	2.9	J	ug/L	6
001	MW-1	Aqueous	Xylenes (total)	8260B	83		ug/L	6
002	MW-2	Aqueous	Benzene	8260B	67	J	ug/L	7
002	MW-2	Aqueous	Ethylbenzene	8260B	1300		ug/L	7
002	MW-2	Aqueous	Naphthalene	8260B	150	J	ug/L	7
002	MW-2	Aqueous	Toluene	8260B	820		ug/L	7
002	MW-2	Aqueous	Xylenes (total)	8260B	5000		ug/L	7
002	MW-2	Aqueous	1,2-Dibromoethane (EDB)	8011	0.029		ug/L	7
003	MW-3	Aqueous	tert-Amyl alcohol (TAA)	8260B	350	J	ug/L	8
003	MW-3	Aqueous	Benzene	8260B	5.4	J	ug/L	8
003	MW-3	Aqueous	Ethylbenzene	8260B	98		ug/L	8
003	MW-3	Aqueous	Naphthalene	8260B	9.0	J	ug/L	8
003	MW-3	Aqueous	tert-butyl alcohol (TBA)	8260B	36	J	ug/L	8
003	MW-3	Aqueous	Toluene	8260B	48		ug/L	8
003	MW-3	Aqueous	Xylenes (total)	8260B	320		ug/L	8
003	MW-3	Aqueous	1,2-Dibromoethane (EDB)	8011	0.26		ug/L	8
004	MW-4R	Aqueous	Ethylbenzene	8260B	730		ug/L	9
004	MW-4R	Aqueous	Toluene	8260B	520		ug/L	9
004	MW-4R	Aqueous	Xylenes (total)	8260B	3900		ug/L	9
004	MW-4R	Aqueous	1,2-Dibromoethane (EDB)	8011	0.12		ug/L	9
005	MW-5R	Aqueous	Benzene	8260B	1.7	J	ug/L	10
005	MW-5R	Aqueous	Ethylbenzene	8260B	13	J	ug/L	10
005	MW-5R	Aqueous	Naphthalene	8260B	58		ug/L	10
006	MW-6	Aqueous	tert-Amyl alcohol (TAA)	8260B	570	J	ug/L	11
006	MW-6	Aqueous	Benzene	8260B	110		ug/L	11
006	MW-6	Aqueous	Ethylbenzene	8260B	370		ug/L	11
006	MW-6	Aqueous	Naphthalene	8260B	210		ug/L	11
006	MW-6	Aqueous	Toluene	8260B	580		ug/L	11
006	MW-6	Aqueous	Xylenes (total)	8260B	1600		ug/L	11
014	MW14	Aqueous	Benzene	8260B	60	J	ug/L	19
014	MW14	Aqueous	Ethylbenzene	8260B	770		ug/L	19
014	MW14	Aqueous	Toluene	8260B	2000		ug/L	19
014	MW14	Aqueous	Xylenes (total)	8260B	3300		ug/L	19
014	MW14	Aqueous	1,2-Dibromoethane (EDB)	8011	0.069		ug/L	19
016	MW16	Aqueous	Benzene	8260B	4.4	J	ug/L	21
016	MW16	Aqueous	Naphthalene	8260B	150		ug/L	21
016	MW16	Aqueous	Xylenes (total)	8260B	640		ug/L	21
018	MW18	Aqueous	tert-butyl alcohol (TBA)	8260B	21	J	ug/L	23
019	MW19	Aqueous	tert-Amyl alcohol (TAA)	8260B	210	J	ug/L	24
019	MW19	Aqueous	Benzene	8260B	3.8	J	ug/L	24
019	MW19	Aqueous	Ethylbenzene	8260B	55		ug/L	24
019	MW19	Aqueous	Toluene	8260B	90		ug/L	24

## Executive Summary (Continued)

Lot Number: OF11063

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
019	MW19	Aqueous	Xylenes (total)	8260B	640		ug/L	24
021	MW22	Aqueous	tert-Amyl alcohol (TAA)	8260B	25	J	ug/L	26
021	MW22	Aqueous	Benzene	8260B	4.3	J	ug/L	26
021	MW22	Aqueous	Ethylbenzene	8260B	78		ug/L	26
021	MW22	Aqueous	Naphthalene	8260B	39		ug/L	26
021	MW22	Aqueous	Toluene	8260B	17		ug/L	26
021	MW22	Aqueous	Xylenes (total)	8260B	190		ug/L	26
024	DW-3	Aqueous	tert-Amyl alcohol (TAA)	8260B	210		ug/L	29
024	DW-3	Aqueous	Benzene	8260B	19		ug/L	29
024	DW-3	Aqueous	Ethylbenzene	8260B	34		ug/L	29
024	DW-3	Aqueous	Naphthalene	8260B	23		ug/L	29
024	DW-3	Aqueous	Toluene	8260B	8.1		ug/L	29
024	DW-3	Aqueous	Xylenes (total)	8260B	120		ug/L	29
029	MW-1 Duplicate	Aqueous	tert-Amyl alcohol (TAA)	8260B	26	J	ug/L	34
029	MW-1 Duplicate	Aqueous	Benzene	8260B	3.4	J	ug/L	34
029	MW-1 Duplicate	Aqueous	Ethylbenzene	8260B	36		ug/L	34
029	MW-1 Duplicate	Aqueous	Naphthalene	8260B	3.6	J	ug/L	34
029	MW-1 Duplicate	Aqueous	tert-butyl alcohol (TBA)	8260B	17	J	ug/L	34
029	MW-1 Duplicate	Aqueous	Toluene	8260B	3.1	J	ug/L	34
029	MW-1 Duplicate	Aqueous	Xylenes (total)	8260B	100		ug/L	34
030	MW2- Duplicate	Aqueous	tert-Amyl alcohol (TAA)	8260B	600	J	ug/L	35
030	MW2- Duplicate	Aqueous	Benzene	8260B	70	J	ug/L	35
030	MW2- Duplicate	Aqueous	Ethylbenzene	8260B	1400		ug/L	35
030	MW2- Duplicate	Aqueous	Naphthalene	8260B	170	J	ug/L	35
030	MW2- Duplicate	Aqueous	Toluene	8260B	820		ug/L	35
030	MW2- Duplicate	Aqueous	Xylenes (total)	8260B	5300		ug/L	35
030	MW2- Duplicate	Aqueous	1,2-Dibromoethane (EDB)	8011	0.030		ug/L	35

(72 detections)

Description: MW-1

Matrix: Aqueous

Date Sampled: 06/10/2013 1450

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
2	5030B	8260B	1	06/21/2013 0707	AWM		23331		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	2	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	2	
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>3.3</b>	<b>J</b>	<b>5.0</b>	<b>0.20</b>	<b>ug/L</b>	<b>2</b>	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2	
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>31</b>		<b>5.0</b>	<b>1.7</b>	<b>ug/L</b>	<b>2</b>	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2	
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>3.8</b>	<b>J</b>	<b>5.0</b>	<b>1.7</b>	<b>ug/L</b>	<b>2</b>	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	2	
<b>Toluene</b>	<b>108-88-3</b>	<b>8260B</b>	<b>2.9</b>	<b>J</b>	<b>5.0</b>	<b>1.7</b>	<b>ug/L</b>	<b>2</b>	
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>83</b>		<b>5.0</b>	<b>1.7</b>	<b>ug/L</b>	<b>2</b>	

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		95	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 0920	AMY	06/16/2013 1628	22935		
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		112	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    Q = Surrogate failure  
 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    L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"    S = MS/MSD failure

Description: MW-2

Matrix: Aqueous

Date Sampled: 06/10/2013 1514

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	50	06/19/2013 1828	JAC		23190			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		5000	340	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		500	10	ug/L	1	
<b>Benzene</b>		<b>71-43-2</b>	<b>8260B</b>	<b>67</b>	<b>J</b>	<b>250</b>	<b>10</b>	<b>ug/L</b>	<b>1</b>	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		5000	50	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		250	15	ug/L	1	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		500	20	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		5000	50	ug/L	1	
Ethanol		64-17-5	8260B	ND		50000	1700	ug/L	1	
<b>Ethylbenzene</b>		<b>100-41-4</b>	<b>8260B</b>	<b>1300</b>		<b>250</b>	<b>85</b>	<b>ug/L</b>	<b>1</b>	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		5000	10	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		250	20	ug/L	1	
<b>Naphthalene</b>		<b>91-20-3</b>	<b>8260B</b>	<b>150</b>	<b>J</b>	<b>250</b>	<b>85</b>	<b>ug/L</b>	<b>1</b>	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		5000	340	ug/L	1	
<b>Toluene</b>		<b>108-88-3</b>	<b>8260B</b>	<b>820</b>		<b>250</b>	<b>85</b>	<b>ug/L</b>	<b>1</b>	
<b>Xylenes (total)</b>		<b>1330-20-7</b>	<b>8260B</b>	<b>5000</b>		<b>250</b>	<b>85</b>	<b>ug/L</b>	<b>1</b>	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		86	70-130							
Bromofluorobenzene		103	70-130							
Toluene-d8		109	70-130							

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	06/19/2013 0942	AMY	06/16/2013 1628	22935			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)		106-93-4	8011	0.029		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,1,1,2-Tetrachloroethane		107	57-137							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: MW-3

Matrix: Aqueous

Date Sampled: 06/10/2013 1540

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	5	06/20/2013 0232	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	350	J	500	34	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1	
Benzene	71-43-2	8260B	5.4	J	25	1.0	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	5.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	2.0	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		500	5.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		5000	170	ug/L	1	
Ethylbenzene	100-41-4	8260B	98		25	8.5	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	1.0	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1	
Naphthalene	91-20-3	8260B	9.0	J	25	8.5	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	36	J	500	34	ug/L	1	
Toluene	108-88-3	8260B	48		25	8.5	ug/L	1	
Xylenes (total)	1330-20-7	8260B	320		25	8.5	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		79	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		95	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1003	AMY	06/16/2013 1628	22935		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	0.26		0.020	0.020	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		107	57-137

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time    Q = Surrogate failure  
 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    L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"    S = MS/MSD failure

Description: MW-4R

Matrix: Aqueous

Date Sampled: 06/10/2013 1547

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	100	06/20/2013 0512	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		10000	670	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	20	ug/L	1	
Benzene	71-43-2	8260B	ND		500	20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		10000	100	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		500	30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1000	40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	100	ug/L	1	
Ethanol	64-17-5	8260B	ND		100000	3300	ug/L	1	
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>730</b>		<b>500</b>	<b>170</b>	<b>ug/L</b>	<b>1</b>	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		10000	20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		500	170	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		10000	670	ug/L	1	
Toluene	108-88-3	8260B	520		500	170	ug/L	1	
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>3900</b>		<b>500</b>	<b>170</b>	<b>ug/L</b>	<b>1</b>	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		108	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1025	AMY	06/16/2013 1628	22935		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	0.12		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		99	57-137						

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time    Q = Surrogate failure  
 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    L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"    S = MS/MSD failure



Description: MW-5R

Matrix: Aqueous

Date Sampled: 06/10/2013 1315

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	5	06/20/2013 0255	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		500	34	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1	
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>1.7</b>	<b>J</b>	<b>25</b>	<b>1.0</b>	<b>ug/L</b>	<b>1</b>	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	5.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	2.0	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		500	5.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		5000	170	ug/L	1	
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>13</b>	<b>J</b>	<b>25</b>	<b>8.5</b>	<b>ug/L</b>	<b>1</b>	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	1.0	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1	
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>58</b>		<b>25</b>	<b>8.5</b>	<b>ug/L</b>	<b>1</b>	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		500	34	ug/L	1	
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		102	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1047	AMY	06/16/2013 1628	22935		
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		111	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

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: MW-6

Matrix: Aqueous

Date Sampled: 06/10/2013 1522

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	10	06/20/2013 0403	TAF		23250			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
tert-Amyl alcohol (TAA)	75-85-4	8260B	570	J	1000	67	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		100	2.0	ug/L	1		
Benzene	71-43-2	8260B	110		50	2.0	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	10	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		50	3.0	ug/L	1		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		100	4.0	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	10	ug/L	1		
Ethanol	64-17-5	8260B	ND		10000	330	ug/L	1		
Ethylbenzene	100-41-4	8260B	370		50	17	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	2.0	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		50	4.0	ug/L	1		
Naphthalene	91-20-3	8260B	210		50	17	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	67	ug/L	1		
Toluene	108-88-3	8260B	580		50	17	ug/L	1		
Xylenes (total)	1330-20-7	8260B	1600		50	17	ug/L	1		

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		106	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	06/20/2013 1346	AMY	06/16/2013 1628	22935			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1		

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		106	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: MW-7

Matrix: Aqueous

Date Sampled: 06/10/2013 1406

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/19/2013 2222	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		102	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1130	AMY	06/16/2013 1628	22935		
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		90	57-137

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time    Q = Surrogate failure  
 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    L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"    S = MS/MSD failure

Description: MW-8

Matrix: Aqueous

Date Sampled: 06/10/2013 1325

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	06/19/2013 2244	TAF		23250			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1		
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1		
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1		
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1		
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1		

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		104	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	06/19/2013 1257	AMY	06/16/2013 1634	22941			
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		90	57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: MW-9

Matrix: Aqueous

Date Sampled: 06/10/2013 1149

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/19/2013 2307	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		106	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1401	AMY	06/16/2013 1634	22941		
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		90	57-137						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: MW10

Matrix: Aqueous

Date Sampled: 06/10/2013 1440

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/19/2013 2330	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		106	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1423	AMY	06/16/2013 1634	22941		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		95	57-137						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: MW11

Matrix: Aqueous

Date Sampled: 06/10/2013 1104

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/19/2013 2353	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		101	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1445	AMY	06/16/2013 1634	22941		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	0.021	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		91	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    Q = Surrogate failure  
 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    L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"    S = MS/MSD failure

Description: MW12

Matrix: Aqueous

Date Sampled: 06/10/2013 1053

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	06/20/2013 0016	TAF		23250			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		104	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	06/19/2013 1507	AMY	06/16/2013 1634	22941			
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		90	57-137

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time      Q = Surrogate failure  
 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      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure



Description: MW13

Matrix: Aqueous

Date Sampled: 06/10/2013 1030

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 0039	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		106	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1528	AMY	06/16/2013 1634	22941		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		91	57-137

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time      Q = Surrogate failure  
 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      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure

Description: MW14

Matrix: Aqueous

Date Sampled: 06/10/2013 1225

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	50	06/20/2013 0449	TAF		23250		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		5000	340	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		500	10	ug/L	1
<b>Benzene</b>		<b>71-43-2</b>	<b>8260B</b>	<b>60</b>	<b>J</b>	<b>250</b>	<b>10</b>	<b>ug/L</b>	<b>1</b>
tert-Butyl formate (TBF)		762-75-4	8260B	ND		5000	50	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND		250	15	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	ND		500	20	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		5000	50	ug/L	1
Ethanol		64-17-5	8260B	ND		50000	1700	ug/L	1
<b>Ethylbenzene</b>		<b>100-41-4</b>	<b>8260B</b>	<b>770</b>		<b>250</b>	<b>85</b>	<b>ug/L</b>	<b>1</b>
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		5000	10	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		250	20	ug/L	1
Naphthalene		91-20-3	8260B	ND		250	85	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		5000	340	ug/L	1
<b>Toluene</b>		<b>108-88-3</b>	<b>8260B</b>	<b>2000</b>		<b>250</b>	<b>85</b>	<b>ug/L</b>	<b>1</b>
<b>Xylenes (total)</b>		<b>1330-20-7</b>	<b>8260B</b>	<b>3300</b>		<b>250</b>	<b>85</b>	<b>ug/L</b>	<b>1</b>

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		105	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1550	AMY	06/16/2013 1634	22941		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	0.069		0.020	0.020	ug/L	1

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

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time    Q = Surrogate failure  
 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    L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"    S = MS/MSD failure

Description: MW15

Matrix: Aqueous

Date Sampled: 06/10/2013 1115

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 0101	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		106	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1612	AMY	06/16/2013 1634	22941		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		91	57-137

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time    Q = Surrogate failure  
 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    L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"    S = MS/MSD failure

Description: MW16

Matrix: Aqueous

Date Sampled: 06/10/2013 1123

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	5	06/20/2013 0318	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		500	34	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1	
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>4.4</b>	<b>J</b>	<b>25</b>	<b>1.0</b>	<b>ug/L</b>	<b>1</b>	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	5.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	2.0	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		500	5.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		5000	170	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	1.0	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1	
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>150</b>		<b>25</b>	<b>8.5</b>	<b>ug/L</b>	<b>1</b>	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		500	34	ug/L	1	
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1	
<b>Xylenes (total)</b>	<b>1330-20-7</b>	<b>8260B</b>	<b>640</b>		<b>25</b>	<b>8.5</b>	<b>ug/L</b>	<b>1</b>	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		104	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1633	AMY	06/16/2013 1634	22941		
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		94	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

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: MW17

Matrix: Aqueous

Date Sampled: 06/10/2013 1142

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 0124	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		106	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1655	AMY	06/16/2013 1634	22941		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		89	57-137						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: MW18

Matrix: Aqueous

Date Sampled: 06/10/2013 1451

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 0147	TAF		23250		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	21	J	100	6.7	ug/L	1
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		88	70-130						
Bromofluorobenzene		101	70-130						
Toluene-d8		109	70-130						

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1717	AMY	06/16/2013 1634	22941		
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						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: MW19

Matrix: Aqueous

Date Sampled: 06/10/2013 1525

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	5	06/20/2013 0340	TAF		23250		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	210	J	500	34	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1	
Benzene	71-43-2	8260B	3.8	J	25	1.0	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	5.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	2.0	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		500	5.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		5000	170	ug/L	1	
Ethylbenzene	100-41-4	8260B	55		25	8.5	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	1.0	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1	
Naphthalene	91-20-3	8260B	ND		25	8.5	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		500	34	ug/L	1	
Toluene	108-88-3	8260B	90		25	8.5	ug/L	1	
Xylenes (total)	1330-20-7	8260B	640		25	8.5	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		104	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1739	AMY	06/16/2013 1634	22941		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		104	57-137						

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time    Q = Surrogate failure  
 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    L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"    S = MS/MSD failure

Description: MW20

Matrix: Aqueous

Date Sampled: 06/10/2013 1003

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 0210	TAF		23250		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene		71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene		100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene		91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene		108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)		1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		100	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1800	AMY	06/16/2013 1634	22941		
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		62	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      Q = Surrogate failure  
 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      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure



Description: MW22

Matrix: Aqueous

Date Sampled: 06/10/2013 1252

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 1629	JAC		23312		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	25	J	100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	4.3	J	5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	78		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	39		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	17		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	190		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		103	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1822	AMY	06/16/2013 1634	22941		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		106	57-137						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: DW-1

Matrix: Aqueous

Date Sampled: 06/10/2013 1605

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	5	06/24/2013 1018	JAC		23597		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		500	34	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.0	ug/L	1	
Benzene	71-43-2	8260B	ND		25	1.0	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	5.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		50	2.0	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		500	5.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		5000	170	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	1.0	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1	
Naphthalene	91-20-3	8260B	ND		25	8.5	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		500	34	ug/L	1	
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		100	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1844	AMY	06/16/2013 1634	22941		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.059	0.059	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		82	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

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: DW-2

Matrix: Aqueous

Date Sampled: 06/10/2013 1433

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 1652	JAC		23312		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		111	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1906	AMY	06/16/2013 1634	22941		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		89	57-137						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: DW-3

Matrix: Aqueous

Date Sampled: 06/10/2013 1209

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	06/20/2013 1715	JAC		23312			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)		75-85-4	8260B	210		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene		71-43-2	8260B	19		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol		64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene		100-41-4	8260B	34		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene		91-20-3	8260B	23		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene		108-88-3	8260B	8.1		5.0	1.7	ug/L	1	
Xylenes (total)		1330-20-7	8260B	120		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		112	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	06/19/2013 1927	AMY	06/16/2013 1634	22941			
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							

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time      Q = Surrogate failure  
 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      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure

Description: DW-4

Matrix: Aqueous

Date Sampled: 06/10/2013 1025

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 1457	JAC		23312		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		108	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 1949	AMY	06/16/2013 1634	22941		
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		80	57-137						

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time    Q = Surrogate failure  
 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    L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"    S = MS/MSD failure

### Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2013 1520	JAC		23312

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		102	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	06/19/2013 2011	AMY	06/16/2013 1634	22941

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		76	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      Q = Surrogate failure  
 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      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure

Description: DW-6

Matrix: Aqueous

Date Sampled: 06/10/2013 1335

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 1543	JAC		23312		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		105	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 2032	AMY	06/16/2013 1634	22941		
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		81	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

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure

Description: WSW-2

Matrix: Aqueous

Date Sampled: 06/10/2013 1405

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 1606	JAC		23312		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		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		100	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		88	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		107	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 2220	AMY	06/18/2013 0910	23050		
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		89	57-137						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

L = LCS/LCSD failure

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

S = MS/MSD failure



Description: MW-1 Duplicate

Matrix: Aqueous

Date Sampled: 06/10/2013 1450

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
2	5030B	8260B	1	06/22/2013 0004	TAF		23442		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	26	J	100	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	3.4	J	5.0	0.20	ug/L	2	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	2	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	2	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	2	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	2	
Ethylbenzene	100-41-4	8260B	36		5.0	1.7	ug/L	2	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	2	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2	
Naphthalene	91-20-3	8260B	3.6	J	5.0	1.7	ug/L	2	
tert-butyl alcohol (TBA)	75-65-0	8260B	17	J	100	6.7	ug/L	2	
Toluene	108-88-3	8260B	3.1	J	5.0	1.7	ug/L	2	
Xylenes (total)	1330-20-7	8260B	100		5.0	1.7	ug/L	2	

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

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/19/2013 2242	AMY	06/18/2013 0910	23050		
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

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time      Q = Surrogate failure  
 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      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure

Description: MW2- Duplicate

Matrix: Aqueous

Date Sampled: 06/10/2013 1514

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	50	06/20/2013 0426	TAF		23250			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)		75-85-4	8260B	600	J	5000	340	ug/L	1	
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		500	10	ug/L	1	
Benzene		71-43-2	8260B	70	J	250	10	ug/L	1	
tert-Butyl formate (TBF)		762-75-4	8260B	ND		5000	50	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND		250	15	ug/L	1	
Diisopropyl ether (IPE)		108-20-3	8260B	ND		500	20	ug/L	1	
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		5000	50	ug/L	1	
Ethanol		64-17-5	8260B	ND		50000	1700	ug/L	1	
Ethylbenzene		100-41-4	8260B	1400		250	85	ug/L	1	
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		5000	10	ug/L	1	
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND		250	20	ug/L	1	
Naphthalene		91-20-3	8260B	170	J	250	85	ug/L	1	
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		5000	340	ug/L	1	
Toluene		108-88-3	8260B	820		250	85	ug/L	1	
Xylenes (total)		1330-20-7	8260B	5300		250	85	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		106	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	8011	8011	1	06/19/2013 2346	AMY	06/18/2013 0910	23050			
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)		106-93-4	8011	0.030		0.020	0.020	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		101	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      Q = Surrogate failure  
 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      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure

Description: Field Blank

Matrix: Aqueous

Date Sampled: 06/10/2013 1515

Date Received: 06/11/2013

## Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	06/20/2013 1117	JAC		23312		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1	
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		107	70-130

## EDB &amp; DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	06/20/2013 0008	AMY	06/18/2013 0910	23050		
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		96	57-137						

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time    Q = Surrogate failure  
 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    L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"    S = MS/MSD failure

### Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/20/2013 1140	JAC		23312

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		10	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND		1000	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	6.7	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		102	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      Q = Surrogate failure  
 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      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure

## QC Summary

## Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ23190-001

Matrix: Aqueous

Batch: 23190

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	06/19/2013 1005
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	06/19/2013 1005
Benzene	ND		1	5.0	0.20	ug/L	06/19/2013 1005
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	06/19/2013 1005
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	06/19/2013 1005
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	06/19/2013 1005
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	06/19/2013 1005
Ethanol	ND		1	1000	33	ug/L	06/19/2013 1005
Ethylbenzene	ND		1	5.0	1.7	ug/L	06/19/2013 1005
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	06/19/2013 1005
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	06/19/2013 1005
Naphthalene	ND		1	5.0	1.7	ug/L	06/19/2013 1005
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	06/19/2013 1005
Toluene	ND		1	5.0	1.7	ug/L	06/19/2013 1005
Xylenes (total)	ND		1	5.0	1.7	ug/L	06/19/2013 1005
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		90	70-130				
Toluene-d8		108	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ23190-002

Matrix: Aqueous

Batch: 23190

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	103	70-130	06/19/2013 0857
tert-Amyl methyl ether (TAME)	50	48		1	95	70-130	06/19/2013 0857
Benzene	50	48		1	96	70-130	06/19/2013 0857
tert-Butyl formate (TBF)	250	270		1	106	70-130	06/19/2013 0857
1,2-Dichloroethane	50	47		1	94	70-130	06/19/2013 0857
Diisopropyl ether (IPE)	50	45		1	90	70-130	06/19/2013 0857
3,3-Dimethyl-1-butanol	1000	990		1	99	70-130	06/19/2013 0857
Ethanol	5000	4800		1	97	70-130	06/19/2013 0857
Ethylbenzene	50	50		1	99	70-130	06/19/2013 0857
Ethyl-tert-butyl ether (ETBE)	50	49		1	98	70-130	06/19/2013 0857
Methyl tertiary butyl ether (MTBE)	50	46		1	92	70-130	06/19/2013 0857

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: OQ23190-002

Matrix: Aqueous

Batch: 23190

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	56		1	112	70-130	06/19/2013 0857
tert-butyl alcohol (TBA)	1000	970		1	97	70-130	06/19/2013 0857
Toluene	50	48		1	95	70-130	06/19/2013 0857
Xylenes (total)	100	98		1	98	70-130	06/19/2013 0857
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		104	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ23190-003

Matrix: Aqueous

Batch: 23190

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	104	0.24	70-130	20	06/19/2013 0920
tert-Amyl methyl ether (TAME)	50	47		1	95	0.37	70-130	20	06/19/2013 0920
Benzene	50	47		1	95	1.1	70-130	20	06/19/2013 0920
tert-Butyl formate (TBF)	250	260		1	106	0.54	70-130	20	06/19/2013 0920
1,2-Dichloroethane	50	46		1	93	1.2	70-130	20	06/19/2013 0920
Diisopropyl ether (IPE)	50	45		1	90	0.76	70-130	20	06/19/2013 0920
3,3-Dimethyl-1-butanol	1000	1000		1	101	1.8	70-130	20	06/19/2013 0920
Ethanol	5000	4900		1	98	1.8	70-130	20	06/19/2013 0920
Ethylbenzene	50	49		1	97	1.9	70-130	20	06/19/2013 0920
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	1.2	70-130	20	06/19/2013 0920
Methyl tertiary butyl ether (MTBE)	50	47		1	93	1.9	70-130	20	06/19/2013 0920
Naphthalene	50	58		1	116	3.3	70-130	20	06/19/2013 0920
tert-butyl alcohol (TBA)	1000	970		1	97	0.52	70-130	20	06/19/2013 0920
Toluene	50	48		1	97	1.9	70-130	20	06/19/2013 0920
Xylenes (total)	100	99		1	99	1.1	70-130	20	06/19/2013 0920
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		102	70-130						
1,2-Dichloroethane-d4		99	70-130						
Toluene-d8		105	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - MS

Sample ID: OF11063-002MS

Batch: 23190

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	50000	50000		50	99	70-130	06/19/2013 1850
tert-Amyl methyl ether (TAME)	ND	2500	2400		50	95	70-130	06/19/2013 1850
Benzene	67	2500	2500		50	97	70-130	06/19/2013 1850
tert-Butyl formate (TBF)	ND	13000	10000		50	83	70-130	06/19/2013 1850
1,2-Dichloroethane	ND	2500	2300		50	93	70-130	06/19/2013 1850
Diisopropyl ether (IPE)	ND	2500	2300		50	92	70-130	06/19/2013 1850
3,3-Dimethyl-1-butanol	ND	50000	48000		50	96	70-130	06/19/2013 1850
Ethanol	ND	250000	230000		50	92	70-130	06/19/2013 1850
Ethylbenzene	1300	2500	4000		50	108	70-130	06/19/2013 1850
Ethyl-tert-butyl ether (ETBE)	ND	2500	2400		50	94	70-130	06/19/2013 1850
Methyl tertiary butyl ether (MTBE)	ND	2500	2200		50	87	70-130	06/19/2013 1850
Naphthalene	150	2500	2800		50	104	70-130	06/19/2013 1850
tert-butyl alcohol (TBA)	ND	50000	46000		50	92	70-130	06/19/2013 1850
Toluene	820	2500	3500		50	107	70-130	06/19/2013 1850
Xylenes (total)	5000	5000	10000		50	110	70-130	06/19/2013 1850
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		93	70-130					
Bromofluorobenzene		98	70-130					
Toluene-d8		106	70-130					

## Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ23250-001

Batch: 23250

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	06/19/2013 2151
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	06/19/2013 2151
Benzene	ND		1	5.0	0.20	ug/L	06/19/2013 2151
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	06/19/2013 2151
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	06/19/2013 2151
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	06/19/2013 2151
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	06/19/2013 2151
Ethanol	ND		1	1000	33	ug/L	06/19/2013 2151
Ethylbenzene	ND		1	5.0	1.7	ug/L	06/19/2013 2151
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	06/19/2013 2151
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	06/19/2013 2151

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: OQ23250-001

Matrix: Aqueous

Batch: 23250

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
Naphthalene	ND		1	5.0	1.7	ug/L	06/19/2013 2151
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	06/19/2013 2151
Toluene	ND		1	5.0	1.7	ug/L	06/19/2013 2151
Xylenes (total)	ND		1	5.0	1.7	ug/L	06/19/2013 2151
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		87	70-130				
Toluene-d8		107	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ23250-002

Matrix: Aqueous

Batch: 23250

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	990	1		99	70-130	06/19/2013 2042
tert-Amyl methyl ether (TAME)	50	48	1		95	70-130	06/19/2013 2042
Benzene	50	46	1		92	70-130	06/19/2013 2042
tert-Butyl formate (TBF)	250	240	1		96	70-130	06/19/2013 2042
1,2-Dichloroethane	50	43	1		87	70-130	06/19/2013 2042
Diisopropyl ether (IPE)	50	44	1		88	70-130	06/19/2013 2042
3,3-Dimethyl-1-butanol	1000	970	1		97	70-130	06/19/2013 2042
Ethanol	5000	4800	1		96	70-130	06/19/2013 2042
Ethylbenzene	50	47	1		95	70-130	06/19/2013 2042
Ethyl-tert-butyl ether (ETBE)	50	46	1		93	70-130	06/19/2013 2042
Methyl tertiary butyl ether (MTBE)	50	43	1		86	70-130	06/19/2013 2042
Naphthalene	50	55	1		111	70-130	06/19/2013 2042
tert-butyl alcohol (TBA)	1000	940	1		94	70-130	06/19/2013 2042
Toluene	50	47	1		94	70-130	06/19/2013 2042
Xylenes (total)	100	94	1		94	70-130	06/19/2013 2042
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		94	70-130				
Toluene-d8		102	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

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

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

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ23250-003

Matrix: Aqueous

Batch: 23250

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	990	1		99	0.30	70-130	20	06/19/2013 2105
tert-Amyl methyl ether (TAME)	50	47	1		94	0.79	70-130	20	06/19/2013 2105
Benzene	50	46	1		91	0.91	70-130	20	06/19/2013 2105
tert-Butyl formate (TBF)	250	240	1		94	1.9	70-130	20	06/19/2013 2105
1,2-Dichloroethane	50	45	1		89	2.4	70-130	20	06/19/2013 2105
Diisopropyl ether (IPE)	50	44	1		88	0.17	70-130	20	06/19/2013 2105
3,3-Dimethyl-1-butanol	1000	970	1		97	0.40	70-130	20	06/19/2013 2105
Ethanol	5000	4600	1		93	2.7	70-130	20	06/19/2013 2105
Ethylbenzene	50	47	1		94	0.26	70-130	20	06/19/2013 2105
Ethyl-tert-butyl ether (ETBE)	50	47	1		94	1.7	70-130	20	06/19/2013 2105
Methyl tertiary butyl ether (MTBE)	50	44	1		88	2.4	70-130	20	06/19/2013 2105
Naphthalene	50	53	1		107	3.6	70-130	20	06/19/2013 2105
tert-butyl alcohol (TBA)	1000	940	1		94	0.24	70-130	20	06/19/2013 2105
Toluene	50	48	1		96	2.0	70-130	20	06/19/2013 2105
Xylenes (total)	100	94	1		94	0.68	70-130	20	06/19/2013 2105
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		102	70-130						
1,2-Dichloroethane-d4		94	70-130						
Toluene-d8		107	70-130						

## Volatile Organic Compounds by GC/MS - MS

Sample ID: OF11063-030MS

Matrix: Aqueous

Batch: 23250

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	600	50000	49000		50	96	70-130	06/20/2013 0620
tert-Amyl methyl ether (TAME)	ND	2500	2400		50	96	70-130	06/20/2013 0620
Benzene	70	2500	2500		50	96	70-130	06/20/2013 0620
tert-Butyl formate (TBF)	ND	13000	11000		50	87	70-130	06/20/2013 0620
1,2-Dichloroethane	ND	2500	2300		50	93	70-130	06/20/2013 0620
Diisopropyl ether (IPE)	ND	2500	2300		50	93	70-130	06/20/2013 0620
3,3-Dimethyl-1-butanol	ND	50000	47000		50	94	70-130	06/20/2013 0620
Ethanol	ND	250000	230000		50	90	70-130	06/20/2013 0620
Ethylbenzene	1400	2500	4100		50	109	70-130	06/20/2013 0620
Ethyl-tert-butyl ether (ETBE)	ND	2500	2500		50	98	70-130	06/20/2013 0620
Methyl tertiary butyl ether (MTBE)	ND	2500	2400		50	98	70-130	06/20/2013 0620

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 - MS

Sample ID: OF11063-030MS

Matrix: Aqueous

Batch: 23250

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date	
Naphthalene	170	2500	2800		50	105	70-130	06/20/2013 0620	
tert-butyl alcohol (TBA)	ND	50000	47000		50	93	70-130	06/20/2013 0620	
Toluene	820	2500	3400		50	103	70-130	06/20/2013 0620	
Xylenes (total)	5300	5000	11000		50	115	70-130	06/20/2013 0620	
Surrogate	Q	% Rec	Acceptance Limit						
1,2-Dichloroethane-d4		95	70-130						
Bromofluorobenzene		99	70-130						
Toluene-d8		101	70-130						

## Volatile Organic Compounds by GC/MS - MSD

Sample ID: OF11063-030MD

Matrix: Aqueous

Batch: 23250

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	600	50000	47000		50	92	4.2	70-130	20	06/20/2013 0643
tert-Amyl methyl ether (TAME)	ND	2500	2300		50	92	4.9	70-130	20	06/20/2013 0643
Benzene	70	2500	2400		50	94	2.6	70-130	20	06/20/2013 0643
tert-Butyl formate (TBF)	ND	13000	10000		50	81	7.7	70-130	20	06/20/2013 0643
1,2-Dichloroethane	ND	2500	2300		50	90	3.5	70-130	20	06/20/2013 0643
Diisopropyl ether (IPE)	ND	2500	2200		50	89	4.9	70-130	20	06/20/2013 0643
3,3-Dimethyl-1-butanol	ND	50000	44000		50	89	5.0	70-130	20	06/20/2013 0643
Ethanol	ND	250000	210000		50	84	7.7	70-130	20	06/20/2013 0643
Ethylbenzene	1400	2500	4100		50	109	0.45	70-130	20	06/20/2013 0643
Ethyl-tert-butyl ether (ETBE)	ND	2500	2400		50	94	3.8	70-130	20	06/20/2013 0643
Methyl tertiary butyl ether (MTBE)	ND	2500	2300		50	92	6.4	70-130	20	06/20/2013 0643
Naphthalene	170	2500	2700		50	101	3.8	70-130	20	06/20/2013 0643
tert-butyl alcohol (TBA)	ND	50000	45000		50	89	4.2	70-130	20	06/20/2013 0643
Toluene	820	2500	3400		50	103	0.42	70-130	20	06/20/2013 0643
Xylenes (total)	5300	5000	11000		50	117	0.88	70-130	20	06/20/2013 0643
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		95	70-130							
Bromofluorobenzene		102	70-130							
Toluene-d8		104	70-130							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 50%

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: OQ23312-001

Batch: 23312

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	06/20/2013 1049
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	06/20/2013 1049
Benzene	ND		1	1.0	0.20	ug/L	06/20/2013 1049
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	06/20/2013 1049
1,2-Dichloroethane	ND		1	1.0	0.30	ug/L	06/20/2013 1049
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	06/20/2013 1049
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	06/20/2013 1049
Ethanol	ND		1	1000	33	ug/L	06/20/2013 1049
Ethylbenzene	ND		1	1.0	1.7	ug/L	06/20/2013 1049
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	06/20/2013 1049
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	06/20/2013 1049
Naphthalene	ND		1	1.0	1.7	ug/L	06/20/2013 1049
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	06/20/2013 1049
Toluene	ND		1	1.0	1.7	ug/L	06/20/2013 1049
Xylenes (total)	ND		1	1.0	1.7	ug/L	06/20/2013 1049

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		89	70-130
Toluene-d8		106	70-130

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ23312-002

Batch: 23312

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	102	70-130	06/20/2013 0940
tert-Amyl methyl ether (TAME)	50	48		1	96	70-130	06/20/2013 0940
Benzene	50	47		1	94	70-130	06/20/2013 0940
tert-Butyl formate (TBF)	250	170		1	70	70-130	06/20/2013 0940
1,2-Dichloroethane	50	47		1	93	70-130	06/20/2013 0940
Diisopropyl ether (IPE)	50	45		1	91	70-130	06/20/2013 0940
3,3-Dimethyl-1-butanol	1000	1000		1	101	70-130	06/20/2013 0940
Ethanol	5000	4800		1	96	70-130	06/20/2013 0940
Ethylbenzene	50	49		1	97	70-130	06/20/2013 0940
Ethyl-tert-butyl ether (ETBE)	50	48		1	96	70-130	06/20/2013 0940
Methyl tertiary butyl ether (MTBE)	50	46		1	93	70-130	06/20/2013 0940

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: OQ23312-002

Matrix: Aqueous

Batch: 23312

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	56		1	113	70-130	06/20/2013 0940
tert-butyl alcohol (TBA)	1000	1000		1	103	70-130	06/20/2013 0940
Toluene	50	48		1	96	70-130	06/20/2013 0940
Xylenes (total)	100	97		1	97	70-130	06/20/2013 0940
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		106	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		107	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ23312-003

Matrix: Aqueous

Batch: 23312

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	104	1.8	70-130	20	06/20/2013 1003
tert-Amyl methyl ether (TAME)	50	47		1	94	1.8	70-130	20	06/20/2013 1003
Benzene	50	47		1	95	1.3	70-130	20	06/20/2013 1003
tert-Butyl formate (TBF)	250	180		1	71	1.3	70-130	20	06/20/2013 1003
1,2-Dichloroethane	50	47		1	94	1.3	70-130	20	06/20/2013 1003
Diisopropyl ether (IPE)	50	47		1	93	2.7	70-130	20	06/20/2013 1003
3,3-Dimethyl-1-butanol	1000	1000		1	102	1.7	70-130	20	06/20/2013 1003
Ethanol	5000	5000		1	101	5.4	70-130	20	06/20/2013 1003
Ethylbenzene	50	49		1	98	0.41	70-130	20	06/20/2013 1003
Ethyl-tert-butyl ether (ETBE)	50	50		1	100	3.6	70-130	20	06/20/2013 1003
Methyl tertiary butyl ether (MTBE)	50	49		1	97	4.6	70-130	20	06/20/2013 1003
Naphthalene	50	59		1	118	4.8	70-130	20	06/20/2013 1003
tert-butyl alcohol (TBA)	1000	1000		1	104	1.9	70-130	20	06/20/2013 1003
Toluene	50	48		1	96	0.27	70-130	20	06/20/2013 1003
Xylenes (total)	100	98		1	98	1.5	70-130	20	06/20/2013 1003
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		106	70-130						
1,2-Dichloroethane-d4		101	70-130						
Toluene-d8		108	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ 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: OQ23312-001

Matrix: Aqueous

Batch: 23312

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	06/20/2013 1049
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	06/20/2013 1049
Benzene	ND		1	1.0	0.13	ug/L	06/20/2013 1049
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	06/20/2013 1049
1,2-Dichloroethane	ND		1	1.0	0.15	ug/L	06/20/2013 1049
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	06/20/2013 1049
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	06/20/2013 1049
Ethanol	ND		1	1000	33	ug/L	06/20/2013 1049
Ethylbenzene	ND		1	1.0	0.33	ug/L	06/20/2013 1049
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	06/20/2013 1049
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	06/20/2013 1049
Naphthalene	ND		1	1.0	0.40	ug/L	06/20/2013 1049
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	06/20/2013 1049
Toluene	ND		1	1.0	0.33	ug/L	06/20/2013 1049
Xylenes (total)	ND		1	1.0	0.33	ug/L	06/20/2013 1049

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		89	70-130
Toluene-d8		106	70-130

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ23312-002

Matrix: Aqueous

Batch: 23312

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	102	70-130	06/20/2013 0940
tert-Amyl methyl ether (TAME)	50	48		1	96	70-130	06/20/2013 0940
Benzene	50	47		1	94	70-130	06/20/2013 0940
tert-Butyl formate (TBF)	250	170		1	70	70-130	06/20/2013 0940
1,2-Dichloroethane	50	47		1	93	70-130	06/20/2013 0940
Diisopropyl ether (IPE)	50	45		1	91	70-130	06/20/2013 0940
3,3-Dimethyl-1-butanol	1000	1000		1	101	70-130	06/20/2013 0940
Ethanol	5000	4800		1	96	70-130	06/20/2013 0940
Ethylbenzene	50	49		1	97	70-130	06/20/2013 0940
Ethyl-tert-butyl ether (ETBE)	50	48		1	96	70-130	06/20/2013 0940
Methyl tertiary butyl ether (MTBE)	50	46		1	93	70-130	06/20/2013 0940

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: OQ23312-002

Matrix: Aqueous

Batch: 23312

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	56		1	113	70-130	06/20/2013 0940
tert-butyl alcohol (TBA)	1000	1000		1	103	70-130	06/20/2013 0940
Toluene	50	48		1	96	70-130	06/20/2013 0940
Xylenes (total)	100	97		1	97	70-130	06/20/2013 0940
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		106	70-130				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		107	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ23312-003

Matrix: Aqueous

Batch: 23312

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	104	1.8	70-130	20	06/20/2013 1003
tert-Amyl methyl ether (TAME)	50	47		1	94	1.8	70-130	20	06/20/2013 1003
Benzene	50	47		1	95	1.3	70-130	20	06/20/2013 1003
tert-Butyl formate (TBF)	250	180		1	71	1.3	70-130	20	06/20/2013 1003
1,2-Dichloroethane	50	47		1	94	1.3	70-130	20	06/20/2013 1003
Diisopropyl ether (IPE)	50	47		1	93	2.7	70-130	20	06/20/2013 1003
3,3-Dimethyl-1-butanol	1000	1000		1	102	1.7	70-130	20	06/20/2013 1003
Ethanol	5000	5000		1	101	5.4	70-130	20	06/20/2013 1003
Ethylbenzene	50	49		1	98	0.41	70-130	20	06/20/2013 1003
Ethyl-tert-butyl ether (ETBE)	50	50		1	100	3.6	70-130	20	06/20/2013 1003
Methyl tertiary butyl ether (MTBE)	50	49		1	97	4.6	70-130	20	06/20/2013 1003
Naphthalene	50	59		1	118	4.8	70-130	20	06/20/2013 1003
tert-butyl alcohol (TBA)	1000	1000		1	104	1.9	70-130	20	06/20/2013 1003
Toluene	50	48		1	96	0.27	70-130	20	06/20/2013 1003
Xylenes (total)	100	98		1	98	1.5	70-130	20	06/20/2013 1003
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		106	70-130						
1,2-Dichloroethane-d4		101	70-130						
Toluene-d8		108	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ 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: OQ23331-001

Matrix: Aqueous

Batch: 23331

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	06/21/2013 0016
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	06/21/2013 0016
Benzene	ND		1	5.0	0.20	ug/L	06/21/2013 0016
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	06/21/2013 0016
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	06/21/2013 0016
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	06/21/2013 0016
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	06/21/2013 0016
Ethanol	ND		1	1000	33	ug/L	06/21/2013 0016
Ethylbenzene	ND		1	5.0	1.7	ug/L	06/21/2013 0016
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	06/21/2013 0016
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	06/21/2013 0016
Naphthalene	ND		1	5.0	1.7	ug/L	06/21/2013 0016
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	06/21/2013 0016
Toluene	ND		1	5.0	1.7	ug/L	06/21/2013 0016
Xylenes (total)	ND		1	5.0	1.7	ug/L	06/21/2013 0016
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		102	70-130				
1,2-Dichloroethane-d4		96	70-130				
Toluene-d8		108	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ23331-002

Matrix: Aqueous

Batch: 23331

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	101	70-130	06/20/2013 2244
tert-Amyl methyl ether (TAME)	50	48		1	96	70-130	06/20/2013 2244
Benzene	50	45		1	90	70-130	06/20/2013 2244
tert-Butyl formate (TBF)	250	260		1	105	70-130	06/20/2013 2244
1,2-Dichloroethane	50	46		1	93	70-130	06/20/2013 2244
Diisopropyl ether (IPE)	50	46		1	92	70-130	06/20/2013 2244
3,3-Dimethyl-1-butanol	1000	970		1	97	70-130	06/20/2013 2244
Ethanol	5000	5000		1	99	70-130	06/20/2013 2244
Ethylbenzene	50	46		1	91	70-130	06/20/2013 2244
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	70-130	06/20/2013 2244
Methyl tertiary butyl ether (MTBE)	50	49		1	99	70-130	06/20/2013 2244

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: OQ23331-002

Matrix: Aqueous

Batch: 23331

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	56		1	112	70-130	06/20/2013 2244
tert-butyl alcohol (TBA)	1000	990		1	99	70-130	06/20/2013 2244
Toluene	50	45		1	90	70-130	06/20/2013 2244
Xylenes (total)	100	94		1	94	70-130	06/20/2013 2244
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		105	70-130				
1,2-Dichloroethane-d4		103	70-130				
Toluene-d8		105	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ23331-003

Matrix: Aqueous

Batch: 23331

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	990		1	99	2.5	70-130	20	06/20/2013 2307
tert-Amyl methyl ether (TAME)	50	49		1	98	1.9	70-130	20	06/20/2013 2307
Benzene	50	46		1	93	2.9	70-130	20	06/20/2013 2307
tert-Butyl formate (TBF)	250	260		1	104	0.60	70-130	20	06/20/2013 2307
1,2-Dichloroethane	50	47		1	94	1.6	70-130	20	06/20/2013 2307
Diisopropyl ether (IPE)	50	46		1	91	1.3	70-130	20	06/20/2013 2307
3,3-Dimethyl-1-butanol	1000	950		1	95	1.8	70-130	20	06/20/2013 2307
Ethanol	5000	4600		1	92	7.5	70-130	20	06/20/2013 2307
Ethylbenzene	50	48		1	96	5.1	70-130	20	06/20/2013 2307
Ethyl-tert-butyl ether (ETBE)	50	48		1	96	1.2	70-130	20	06/20/2013 2307
Methyl tertiary butyl ether (MTBE)	50	47		1	94	4.8	70-130	20	06/20/2013 2307
Naphthalene	50	54		1	109	2.8	70-130	20	06/20/2013 2307
tert-butyl alcohol (TBA)	1000	950		1	95	3.8	70-130	20	06/20/2013 2307
Toluene	50	48		1	97	7.3	70-130	20	06/20/2013 2307
Xylenes (total)	100	96		1	96	2.2	70-130	20	06/20/2013 2307
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		104	70-130						
1,2-Dichloroethane-d4		102	70-130						
Toluene-d8		109	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: OQ23442-001

Matrix: Aqueous

Batch: 23442

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	06/21/2013 2341
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	06/21/2013 2341
Benzene	ND		1	5.0	0.20	ug/L	06/21/2013 2341
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	06/21/2013 2341
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	06/21/2013 2341
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	06/21/2013 2341
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	06/21/2013 2341
Ethanol	ND		1	1000	33	ug/L	06/21/2013 2341
Ethylbenzene	ND		1	5.0	1.7	ug/L	06/21/2013 2341
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	06/21/2013 2341
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	06/21/2013 2341
Naphthalene	ND		1	5.0	1.7	ug/L	06/21/2013 2341
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	06/21/2013 2341
Toluene	ND		1	5.0	1.7	ug/L	06/21/2013 2341
Xylenes (total)	ND		1	5.0	1.7	ug/L	06/21/2013 2341
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		101	70-130				
1,2-Dichloroethane-d4		94	70-130				
Toluene-d8		107	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ23442-002

Matrix: Aqueous

Batch: 23442

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	930		1	93	70-130	06/21/2013 2232
tert-Amyl methyl ether (TAME)	50	46		1	92	70-130	06/21/2013 2232
Benzene	50	43		1	85	70-130	06/21/2013 2232
tert-Butyl formate (TBF)	250	240		1	95	70-130	06/21/2013 2232
1,2-Dichloroethane	50	45		1	89	70-130	06/21/2013 2232
Diisopropyl ether (IPE)	50	43		1	86	70-130	06/21/2013 2232
3,3-Dimethyl-1-butanol	1000	910		1	91	70-130	06/21/2013 2232
Ethanol	5000	4200		1	85	70-130	06/21/2013 2232
Ethylbenzene	50	45		1	89	70-130	06/21/2013 2232
Ethyl-tert-butyl ether (ETBE)	50	46		1	92	70-130	06/21/2013 2232
Methyl tertiary butyl ether (MTBE)	50	45		1	90	70-130	06/21/2013 2232

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: OQ23442-002

Matrix: Aqueous

Batch: 23442

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	53		1	106	70-130	06/21/2013 2232
tert-butyl alcohol (TBA)	1000	910		1	91	70-130	06/21/2013 2232
Toluene	50	43		1	86	70-130	06/21/2013 2232
Xylenes (total)	100	89		1	89	70-130	06/21/2013 2232
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		95	70-130				
Toluene-d8		99	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ23442-003

Matrix: Aqueous

Batch: 23442

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	960		1	96	2.9	70-130	20	06/21/2013 2255
tert-Amyl methyl ether (TAME)	50	47		1	94	2.0	70-130	20	06/21/2013 2255
Benzene	50	43		1	87	1.3	70-130	20	06/21/2013 2255
tert-Butyl formate (TBF)	250	240		1	96	0.64	70-130	20	06/21/2013 2255
1,2-Dichloroethane	50	46		1	91	2.4	70-130	20	06/21/2013 2255
Diisopropyl ether (IPE)	50	44		1	87	1.1	70-130	20	06/21/2013 2255
3,3-Dimethyl-1-butanol	1000	940		1	94	2.7	70-130	20	06/21/2013 2255
Ethanol	5000	4400		1	88	3.1	70-130	20	06/21/2013 2255
Ethylbenzene	50	45		1	90	1.2	70-130	20	06/21/2013 2255
Ethyl-tert-butyl ether (ETBE)	50	47		1	94	2.7	70-130	20	06/21/2013 2255
Methyl tertiary butyl ether (MTBE)	50	47		1	93	3.4	70-130	20	06/21/2013 2255
Naphthalene	50	53		1	107	0.34	70-130	20	06/21/2013 2255
tert-butyl alcohol (TBA)	1000	940		1	94	2.5	70-130	20	06/21/2013 2255
Toluene	50	44		1	89	2.9	70-130	20	06/21/2013 2255
Xylenes (total)	100	91		1	91	1.4	70-130	20	06/21/2013 2255
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		101	70-130						
1,2-Dichloroethane-d4		99	70-130						
Toluene-d8		102	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

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

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

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## Volatile Organic Compounds by GC/MS - MB

Sample ID: OQ23597-001

Matrix: Aqueous

Batch: 23597

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	100	6.7	ug/L	06/24/2013 0957
tert-Amyl methyl ether (TAME)	ND		1	10	0.20	ug/L	06/24/2013 0957
Benzene	ND		1	5.0	0.20	ug/L	06/24/2013 0957
tert-Butyl formate (TBF)	ND		1	100	1.0	ug/L	06/24/2013 0957
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	06/24/2013 0957
Diisopropyl ether (IPE)	ND		1	10	0.40	ug/L	06/24/2013 0957
3,3-Dimethyl-1-butanol	ND		1	100	1.0	ug/L	06/24/2013 0957
Ethanol	ND		1	1000	33	ug/L	06/24/2013 0957
Ethylbenzene	ND		1	5.0	1.7	ug/L	06/24/2013 0957
Ethyl-tert-butyl ether (ETBE)	ND		1	100	0.20	ug/L	06/24/2013 0957
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	06/24/2013 0957
Naphthalene	ND		1	5.0	1.7	ug/L	06/24/2013 0957
tert-butyl alcohol (TBA)	ND		1	100	6.7	ug/L	06/24/2013 0957
Toluene	ND		1	5.0	1.7	ug/L	06/24/2013 0957
Xylenes (total)	ND		1	5.0	1.7	ug/L	06/24/2013 0957
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichloroethane-d4		89	70-130				
Toluene-d8		106	70-130				

## Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ23597-002

Matrix: Aqueous

Batch: 23597

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	102	70-130	06/24/2013 0848
tert-Amyl methyl ether (TAME)	50	47		1	95	70-130	06/24/2013 0848
Benzene	50	46		1	92	70-130	06/24/2013 0848
tert-Butyl formate (TBF)	250	260		1	103	70-130	06/24/2013 0848
1,2-Dichloroethane	50	46		1	92	70-130	06/24/2013 0848
Diisopropyl ether (IPE)	50	45		1	89	70-130	06/24/2013 0848
3,3-Dimethyl-1-butanol	1000	990		1	99	70-130	06/24/2013 0848
Ethanol	5000	4800		1	97	70-130	06/24/2013 0848
Ethylbenzene	50	47		1	94	70-130	06/24/2013 0848
Ethyl-tert-butyl ether (ETBE)	50	48		1	95	70-130	06/24/2013 0848
Methyl tertiary butyl ether (MTBE)	50	45		1	91	70-130	06/24/2013 0848

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: OQ23597-002

Matrix: Aqueous

Batch: 23597

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	55		1	110	70-130	06/24/2013 0848
tert-butyl alcohol (TBA)	1000	960		1	96	70-130	06/24/2013 0848
Toluene	50	46		1	92	70-130	06/24/2013 0848
Xylenes (total)	100	94		1	94	70-130	06/24/2013 0848
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		104	70-130				

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ23597-003

Matrix: Aqueous

Batch: 23597

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000		1	103	0.88	70-130	20	06/24/2013 0910
tert-Amyl methyl ether (TAME)	50	48		1	97	1.8	70-130	20	06/24/2013 0910
Benzene	50	46		1	92	0.52	70-130	20	06/24/2013 0910
tert-Butyl formate (TBF)	250	260		1	102	0.66	70-130	20	06/24/2013 0910
1,2-Dichloroethane	50	47		1	93	1.1	70-130	20	06/24/2013 0910
Diisopropyl ether (IPE)	50	46		1	92	3.3	70-130	20	06/24/2013 0910
3,3-Dimethyl-1-butanol	1000	1000		1	101	2.1	70-130	20	06/24/2013 0910
Ethanol	5000	4900		1	97	0.46	70-130	20	06/24/2013 0910
Ethylbenzene	50	48		1	96	1.8	70-130	20	06/24/2013 0910
Ethyl-tert-butyl ether (ETBE)	50	49		1	99	3.6	70-130	20	06/24/2013 0910
Methyl tertiary butyl ether (MTBE)	50	48		1	96	5.3	70-130	20	06/24/2013 0910
Naphthalene	50	56		1	112	1.8	70-130	20	06/24/2013 0910
tert-butyl alcohol (TBA)	1000	970		1	97	1.3	70-130	20	06/24/2013 0910
Toluene	50	46		1	92	0.065	70-130	20	06/24/2013 0910
Xylenes (total)	100	96		1	96	2.2	70-130	20	06/24/2013 0910
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		104	70-130						
1,2-Dichloroethane-d4		98	70-130						
Toluene-d8		104	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**

### EDB & DBCP by Microextraction - MB

Sample ID: OQ22935-001

Batch: 22935

Analytical Method: 8011

Matrix: Aqueous

Prep Method: 8011

Prep Date: 06/16/2013 1628

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	06/18/2013 0112
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>				
1,1,1,2-Tetrachloroethane		86	57-137				

### EDB & DBCP by Microextraction - LCS

Sample ID: OQ22935-002

Batch: 22935

Analytical Method: 8011

Matrix: Aqueous

Prep Method: 8011

Prep Date: 06/16/2013 1628

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.23		1	90	60-140	06/18/2013 0134
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>				
1,1,1,2-Tetrachloroethane			89	57-137			

### EDB & DBCP by Microextraction - MB

Sample ID: OQ22941-001

Batch: 22941

Analytical Method: 8011

Matrix: Aqueous

Prep Method: 8011

Prep Date: 06/16/2013 1634

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	06/19/2013 1213
<b>Surrogate</b>	<b>Q</b>	<b>% Rec</b>	<b>Acceptance Limit</b>				
1,1,1,2-Tetrachloroethane		93	57-137				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

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

+ = RPD is out of criteria

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

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

### EDB & DBCP by Microextraction - LCS

Sample ID: OQ22941-002

Batch: 22941

Matrix: Aqueous

Prep Method: 8011

Prep Date: 06/16/2013 1634

Analytical Method: 8011

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.24		1	96	60-140	06/19/2013 1235
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		92	57-137				

### EDB & DBCP by Microextraction - MS

Sample ID: OF11063-008MS

Batch: 22941

Matrix: Aqueous

Prep Method: 8011

Prep Date: 06/16/2013 1634

Analytical Method: 8011

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.22		1	91	60-140	06/19/2013 1318
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		91	57-137					

### EDB & DBCP by Microextraction - MSD

Sample ID: OF11063-008MD

Batch: 22941

Matrix: Aqueous

Prep Method: 8011

Prep Date: 06/16/2013 1634

Analytical Method: 8011

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.22		1	92	0.13	60-140	20	06/19/2013 1340
Surrogate	Q	% Rec	Acceptance Limit							
1,1,1,2-Tetrachloroethane		92	57-137							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

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

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

### EDB & DBCP by Microextraction - MB

Sample ID: OQ23050-001  
 Batch: 23050  
 Analytical Method: 8011

Matrix: Aqueous  
 Prep Method: 8011  
 Prep Date: 06/18/2013 910

Parameter	Result	Q	DII	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	06/19/2013 2115
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		90	57-137				

### EDB & DBCP by Microextraction - LCS

Sample ID: OQ23050-002  
 Batch: 23050  
 Analytical Method: 8011

Matrix: Aqueous  
 Prep Method: 8011  
 Prep Date: 06/18/2013 910

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.23		1	92	60-140	06/19/2013 2137
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		94	57-137				

### EDB & DBCP by Microextraction - MS

Sample ID: OF11063-029MS  
 Batch: 23050  
 Analytical Method: 8011

Matrix: Aqueous  
 Prep Method: 8011  
 Prep Date: 06/18/2013 910

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.23		1	95	60-140	06/19/2013 2303
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		104	57-137					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

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

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



## EDB & DBCP by Microextraction - MSD

Sample ID: OF11063-029MD

Matrix: Aqueous

Batch: 23050

Prep Method: 8011

Analytical Method: 8011

Prep Date: 06/18/2013 910

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	DII	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.21		1	86	11	60-140	20	06/19/2013 2325
Surrogate	Q	% Rec	Acceptance Limit							
1,1,1,2-Tetrachloroethane		94	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**

Shealy Environmental Services, Inc.

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

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Level 1 Report v2.1



Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 23826

Client <b>SCDHEC- UST</b>		Report to Contact <b>D. Thoma</b>		Sampler (Printed Name) <b>Chris Lashby</b>		Quote No.	
Address <b>2600 Bull Street</b>		Telephone No. / Fax No. / Email <b>803-896-6291</b>		Waybill No.		Page <b>1 of 4</b>	
City <b>Columbia</b>	State <b>SC</b>	Zip Code <b>29201</b>	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.		Number of Containers		Bottle (See Instructions on back)
Project Name <b>Interstate Truck Terminal</b>		Project Number <b>00332 / 45582</b>		P.O Number <b>46000PP529</b>		Preservative	
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	Lot No. <b>0F11063</b>	
						Remarks / Cooler ID	
mw-1		6/10	1430	G X		X	odor
mw-2			1514				odor
mw-3			1540				odor
mw-4R			1547				odor
mw-5R			1315				odor
mw-6			1522				odor
mw-7			1406				No odor
mw-8			1325				No odor
mw-9			1149				No odor
mw-10		6/10	1440	G X		X	odor
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)		Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab		QC Requirements (Specify)		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	
1. Relinquished by / Sampler <b>Chris Lashby</b>		Date <b>6/10</b>	Time <b>1700</b>	1. Received by <b>[Signature]</b>		Date <b>6-10-13</b>	Time <b>1700</b>
2. Relinquished by <b>[Signature]</b>		Date <b>6-11-13</b>	Time <b>1345</b>	2. Received by <b>[Signature]</b>		Date <b>6-11-13</b>	Time <b>1345</b>
3. Relinquished by <b>[Signature]</b>		Date <b>6-11-13</b>	Time <b>1520</b>	3. Received by		Date	Time
4. Relinquished by		Date	Time	4. Laboratory Received by <b>[Signature]</b>		Date <b>6-11-13</b>	Time <b>1520</b>
Note: All samples are retained for six weeks from receipt unless other arrangements are made.				LAB USE ONLY Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack		Receipt Temp <b>1.0</b> °C Temp. Blank <input type="checkbox"/> Y <input type="checkbox"/> N	



Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 23827

Client <b>SCDHEC - UST</b>			Report to Contact <b>D. THOMAS</b>				Sampler (Printed Name)				Quote No.	
Address <b>2600 Bull STREET</b>			Telephone No. / Fax No. / Email <b>803-896-6241</b>				Waybill No.				Page <b>2</b> of <b>84</b>	
City <b>Columbia</b>	State <b>SC</b>	Zip Code <b>29201</b>	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.				3 A S				Number of Containers	
Project Name <b>Interstate Truck Terminal</b>			Project Number <b>00332 / 45582</b>				P.O Number <b>4600088529</b>				Bottle (See Instructions on back)	
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 Bret, Naph MTBE 1,2 DCA 8 organics EDB				Preservative	
MW-11			6/10	1104	G X		X	X	X	X	Lot No. <b>GF11063</b>	
MW-12				1053							Remarks / Cooler ID	
MW-13				1030							No odor	
MW-14				1225							No odor	
MW-15				1115							No odor	
MW-16				1123							Slight odor	
MW-17				1142							No odor	
MW-18				1451							No odor	
MW-19				1525							No odor	
MW-20			6/10	1003	G X		X	X	X	X	No odor	
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)			Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab			QC Requirements (Specify)			Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown			
1. Relinquished by / Sampler <b>Chi Jocky</b>			Date <b>6/10/13</b>	Time <b>1700</b>	2. Received by <b>[Signature]</b>			Date <b>6/10/13</b>	Time <b>1700</b>			
2. Relinquished by <b>[Signature]</b>			Date <b>6-11-13</b>	Time <b>1345</b>	3. Received by <b>[Signature]</b>			Date <b>6/11/13</b>	Time <b>1345</b>			
3. Relinquished by <b>[Signature]</b>			Date <b>6-11-13</b>	Time <b>1520</b>	4. Laboratory Received by <b>[Signature]</b>			Date <b>6-11-13</b>	Time <b>1520</b>			
4. Relinquished by			Date	Time	LAB USE ONLY			Received on Ice (Check) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack		Receipt Temp <b>1.0</b> °C Temp. Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		

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



# Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 23828

Client <b>SCDHEC - UST</b>			Report to Contact <b>D. Thoma</b>				Sampler (Printed Name)				Quote No.	
Address <b>2600 Bull Street</b>			Telephone No. / Fax No. / Email <b>803-596-3241</b>				Waybill No.				Page <b>3</b> of <b>4</b>	
City <b>Columbia</b>	State <b>SC</b>	Zip Code <b>29201</b>	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thio.				Analysis				Number of Containers	
Project Name <b>Interstate Truck Terminal</b>			Project Number <b>00332 / 455F2</b>				P.O Number <b>460008P529</b>				Bottle (See Instructions on back)	
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, N, nP, MTBE, 1,2 DCA, 8 Organics, EDB				Preservative	
Mw-21 (No Sample)			6/10	-	-	-					Lot No. <b>0F11063</b>	
Mw-22				1252	G	X	X X X X				Remarks / Cooler ID <b>PRODUT</b>	
Dw-1				1605							<b>No odor</b>	
Dw-2				1433							<b>No odor</b>	
Dw-3				1209							<b>No odor</b>	
Dw-4				1025							<b>No odor</b>	
Dw-5				1400							<b>No odor</b>	
Dw-6				1335							<b>No odor</b>	
WSW-2				1405							<b>Report Low Detection Limits</b>	
Mw-1 Duplicate			6/10	1450	G	X	X X X X				<b>odor</b>	
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)			Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab				QC Requirements (Specify)				Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	
1. Relinquished by / Sampler <b>Chr Jads</b>			Date <b>6-10-13</b>	Time <b>1700</b>	1. Received by <b>[Signature]</b>				Date <b>6-10-13</b>	Time <b>1700</b>		
2. Relinquished by <b>[Signature]</b>			Date <b>6-11-13</b>	Time <b>1345</b>	2. Received by <b>[Signature]</b>				Date <b>6-11-13</b>	Time <b>1345</b>		
3. Relinquished by <b>[Signature]</b>			Date <b>6-11-13</b>	Time <b>1520</b>	3. Received by				Date	Time		
4. Relinquished by			Date	Time	4. Laboratory Received by <b>[Signature]</b>				Date <b>6-11-13</b>	Time <b>1520</b>		
Note: All samples are retained for six weeks from receipt unless other arrangements are made.						LAB USE ONLY Received on Ice (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack				Receipt Temp. <b>1.0</b> °C		Temp. Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N



Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive

West Columbia, South Carolina 29172

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

www.shealylab.com

Number 23819

Client <b>SCDHEC - UST</b>			Report to Contact <b>D. Thoma</b>				Sampler (Printed Name)				Quote No.		
Address <b>2600 Bull Street</b>			Telephone No. / Fax No. / Email <b>803-896-6241</b>				Waybill No.				Page <b>4 of 4</b>		
City <b>Columbia</b>	State <b>SC</b>	Zip Code <b>29201</b>	Preservative 1. Unpres. 4. HNO3 7. NaOH 2. NaOH/ZnA 5. HCL 3. H2SO4 6. Na Thlo.								Number of Containers		
Project Name <b>Interstch Truck Terminal</b>											Bottle (See Instructions on back)		
Project Number <b>00332 / 45582</b>		P.O Number <b>4600088528</b>										Preservative	
Sample ID / Description (Containers for each sample may be combined on one line)		Date	Time	G-Grab	C-Composite	GW	DW	WW	S	Other	Analysis <b>BTEX, U-PH MTBE 12 DCA 8 organics EDB</b>	Lot No. <b>OF11063</b>	
<b>MW-2 Duplicate</b>		<b>6/10</b>	<b>1514</b>	<b>G</b>	<b>X</b>							Remarks / Cooler ID	
<b>Field Blank</b>		<b>6/10</b>	<b>1515</b>	<b>G</b>	<b>X</b>							<b>odor</b>	
<b>Trip Blank</b>		<b>6/10</b>	<b>1615</b>	<b>G</b>	<b>X</b>								
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input type="checkbox"/> Rush (Please Specify)			Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab			QC Requirements (Specify)			Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown				
1. Relinquished by / Sampler <b>Chai Jindley</b>		Date <b>6/10/13</b>	Time <b>1700</b>	1. Received by <b>[Signature]</b>		Date <b>6-10-13</b>	Time <b>1700</b>						
2. Relinquished by <b>[Signature]</b>		Date <b>6-11-13</b>	Time <b>1345</b>	2. Received by <b>[Signature]</b>		Date <b>6-11-13</b>	Time <b>1345</b>						
3. Relinquished by <b>[Signature]</b>		Date <b>6-11-13</b>	Time <b>1520</b>	3. Received by		Date	Time						
4. Relinquished by		Date	Time	4. Laboratory Received by <b>[Signature]</b>		Date <b>6-11-13</b>	Time <b>1520</b>						
Note: All samples are retained for six weeks from receipt unless other arrangements are made.						LAB USE ONLY Received on Ice (Check) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Pack		Receipt Temp <b>120</b> °C		Temp. Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			

### Sample Receipt Checklist (SRC)

Client: SEDAVE Cooler Inspected by/date: WAC / 6/11/13 Lot #: 0F11063

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other			
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	1. Were custody seals present on the cooler?	
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	2. If custody seals were present, were they intact and unbroken?	
Cooler ID/temperature upon receipt: <u>247/1.0</u> °C    /    °C    /    °C    /    °C			
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles			
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None			
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.			
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ . (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	4. Is the commercial courier's packing slip attached to this form?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		5. Were proper custody procedures (relinquished/received) followed?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	5a Were samples relinquished by client to commercial courier?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		6. Were sample IDs listed?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		7. Was collection date & time listed?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		8. Were tests to be performed listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		9. Did all samples arrive in the proper containers for each test?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		10. Did all container label information (ID, date, time) agree with COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		12. Was adequate sample volume available?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		14. Were any samples containers missing?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		15. Were there any excess samples not listed on COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	19. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	20. Were collection temperatures documented on the COC for NC samples?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)			
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) with the SR # (number)			
Sample(s) <u>103(9) - 066(1) - 018(1)</u> were received with bubbles >6 mm in diameter.			
Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/phenol			
Sample labels verified by: <u>WAC</u>		Date: <u>6/11/13</u>	

**Corrective Action taken, if necessary:**

Was client notified:    Yes  No

Did client respond:    Yes  No

SESI employee: \_\_\_\_\_

Date of response: \_\_\_\_\_

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



**Geological Resources, Inc.**

November 13, 2002

**RECEIVED**

NOV 14 2002

Mr. Mark Berenbrok  
State Lead and Field Section  
Bureau of Underground Storage Tank Management  
South Carolina Department of Health and Environmental Control  
2600 Bull Street  
Columbia, SC 29201-1708

UNDERGROUND STORAGE  
TANK PROGRAM

Re: Interstate Terminal Trucking  
Site ID# 00332  
CP # 16992; PO # 408994

Dear Mr. Berenbrok:

Please find enclosed a corrected copy of IGWA report for the above referenced site.

If you have any questions, please contact us.

Sincerely,

*Shawn L. Judd*  
Shawn L. Judd  
Project Coordinator

Left copy of this report, pump-out  
report, + our 7/30/02 report w/  
Mr Myrick on 12-06-02.  
*[Signature]*

00 00 00

UST PROGRAM  
DOCKETING # 111

4913 Albemarle Road Suite 101 Charlotte, NC 28205  
Phone: (704) 563-1663 / (888) 870-4133 Fax: (704) 563-1662

RECEIVED

NOV 14 2002

INITIAL GROUND WATER ASSESSMENT REPORT

UNDERGROUND STORAGE TANK PROGRAM

Facility Name: Interstate Truck Stop

UST Permit Number: 00332

UST Owner or Operator's Name: Julius Moody

Address: 1375 Capernaum Road, Ulmer, South Carolina 29003

Phone Number: (803) 245-4470

Property Owner's Name (if different than UST owner/operator): Julius Moody

Address: 1375 Capernaum Road, Ulmer, South Carolina 29003

Phone Number: (803) 245-4470

Contractor: Geological Resources, Inc. Cert. #: 74

Address: 4913 Albemarle Road, Suite 101, Charlotte, North Carolina 28205

Phone Number: (704) 563-1663

Well Driller: Hollis Keech Cert. #: 836

Address: 4913 Albemarle Road, Suite 101, Charlotte, North Carolina 28205

Phone Number: (704) 563-1663

Receptor and Site Data

Please place a check in the appropriate answer block for each question:

Receptor Survey Questions	No	Yes*
Is there a drinking water supply well (public or private) or surface water intake within 1,000 feet of the UST?		X
Are irrigation or other non-drinking water wells located within 1,000 feet of the UST?		X
Are there other potential receptors (i.e. utilities, surface waters, wetlands) less than 500 feet from the UST?		X

If "yes" provide additional information:

Inactive WSW ~600' north of site behind abandoned hotel at corner of Salkehatchie Cemetery Road and Hwy. 301/321; WSW ~900' west of site at Mohawk Industries at corner of Multitex Road and Dump Lane; swamp/wetland ~250' west of site across Hwy. 301/321; dry pond ~600' northeast of site at corner of Salkehatchie Cemetery Road and Cemetery Road.





**Ground Water Data**

Depth to Ground Water: MW-1 = 30.06; MW-2 = 29.88

Well Purging/Sampling Method: Disposable polyethylene bailer

Date Sampled: 09/19/02

Free Product Thickness: NA

**Equilibrated Values:**

Temperature (C°): MW-1 = 23; MW-2 = 23 pH (s.u.): MW-1 = 5.2; MW-2 = 6.7

Dissolved Oxygen (mg/l): MW-1 = 5.2; MW-2 = 1.9 Specific Conductance (µmhos/cm): MW-1 = .06; MW-2 = .12

**Ground Water Analytical Data (µg/l)**

**Well #: MW-1**

Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	EDB
<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<0.020

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs	Total Lead
<11	<11	<11	<11	<11	<55	25

**Well #: MW-2**

Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	EDB
<500	3,800	1,300	4,300	<5.0	140	0.40

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs	Total Lead
<11	<11	<11	<11	<11	<55	54

**Appendices**

- Appendix A: Well Construction Record
- Appendix B: Ground Water Sampling Data Sheets
- Appendix C: Laboratory Data
- Appendix D: Topographic Map
- Appendix E: Site Base Map
- Appendix F: Material Manifest

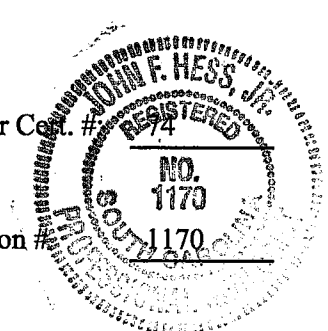
Report Completed By: Geological Resources, Inc.

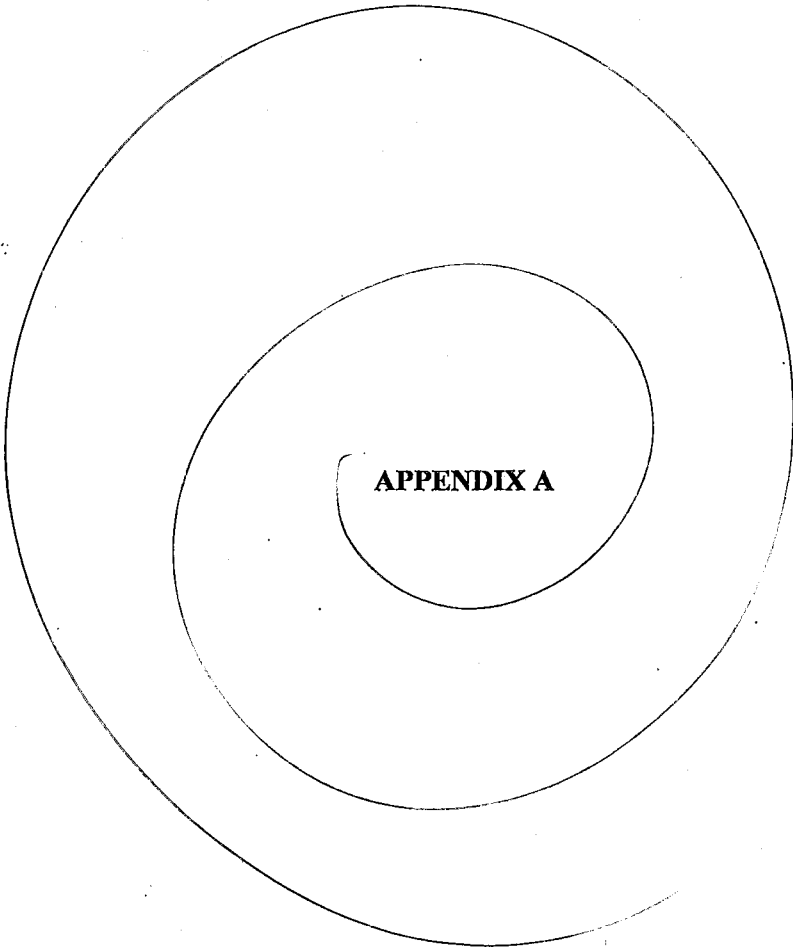
Contractor Co. # 1170

Date: 11/12/02

Report Reviewed By: [Signature]

Registration # 1170





**APPENDIX A**

# Water Well Record

## Bureau of Water

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

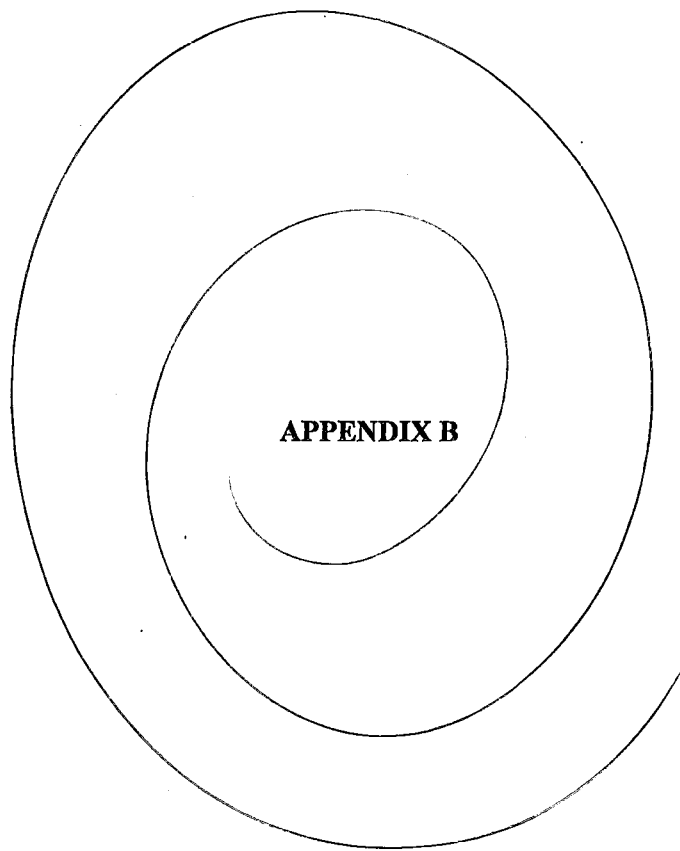
<b>1. WELL OWNER INFORMATION:</b> Name: MOODY (last) JULIUS (first) Address: 1375 CAPERNAUM RD City: BANBURY SC 29003 State: Zip: Telephone: Work: Home: 803-245-4470			<b>6. PERMIT NUMBER:</b> 00332																																						
<b>LOCATION OF WELL:</b> Name: INTERSTATE TRUCK STOP Street Address: HWY 301 AND 521 City: ULMER COUNTY: Allendale Zip: SC Latitude: 033° 06' 2.72" N Longitude: 081° 11' 52.25" W			<b>7. USE:</b> <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement																																						
<b>3. SYSTEM NAME:</b> INTERSTATE TRUCK <b>SYSTEM NUMBER:</b> MW-1			<b>8. WELL DEPTH (completed)</b> 35' ft. Date Started: 9-11-02 Date Completed: 9-11-02																																						
<b>4. CUTTING SAMPLES:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No Geophysical Logs: <input type="checkbox"/> Yes (please enclose) <input type="checkbox"/> No			<b>9.</b> <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Other Augered																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Formation Description:</th> <th style="width: 15%;">Thickness of Stratum</th> <th style="width: 15%;">Depth to Bottom of Stratum</th> </tr> </thead> <tbody> <tr> <td>CLAYEN FN TO MD SND</td> <td>15'</td> <td>15'</td> </tr> <tr> <td>MOTTLED FN TO MD SNDY CLAY</td> <td>1'</td> <td>16'</td> </tr> <tr> <td>TAN MD SND AND QTZ PEBBLES</td> <td>2'</td> <td>18'</td> </tr> <tr> <td>PINK CLAYEN FN SND</td> <td>6'</td> <td>24'</td> </tr> <tr> <td>TAN FN TO MD SND</td> <td>11'</td> <td>35'</td> </tr> <tr> <td></td> <td>Interval</td> <td>PPM</td> </tr> <tr> <td></td> <td>5'</td> <td>5.1</td> </tr> <tr> <td></td> <td>10'</td> <td>45.3</td> </tr> <tr> <td></td> <td>15'</td> <td>8.5</td> </tr> <tr> <td></td> <td>20'</td> <td>36.0</td> </tr> <tr> <td></td> <td>25'</td> <td>7.0</td> </tr> </tbody> </table>			Formation Description:	Thickness of Stratum	Depth to Bottom of Stratum	CLAYEN FN TO MD SND	15'	15'	MOTTLED FN TO MD SNDY CLAY	1'	16'	TAN MD SND AND QTZ PEBBLES	2'	18'	PINK CLAYEN FN SND	6'	24'	TAN FN TO MD SND	11'	35'		Interval	PPM		5'	5.1		10'	45.3		15'	8.5		20'	36.0		25'	7.0	<b>10. CASING:</b> <input type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam.: 2" Type: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other 2 in. to 25 ft. depth in. to ft. depth		
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<b>5. REMARKS:</b> Enterite 21'-23'			<b>11. SCREEN</b> Type: PVC Diam.: 2" Length: 10' Slot/Gauge: .01 Set Between: 25 ft. and 35 ft. ft. and ft. Sieve Analysis Yes (please enclose) <input checked="" type="checkbox"/> No																																						
*Indicate Water Bearing Zones (Use a 2 <sup>nd</sup> sheet if needed)			<b>12. STATIC WATER LEVEL</b> 30.06 ft. below land surface after 24 hours																																						
<b>19. WELL DRILLER:</b> Hollis Keech Cert#: 836 Address: 4913 Albemarle Road, Suite 101, Charlotte, NC 28205 Telephone No.: 704-563-1663			<b>13. PUMPING LEVEL</b> Below Land Surface. ft. after hrs. Pumping: G.P.M. Pumping Test: <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No Yield:																																						
<b>WATER WELL CONTRACTORS CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: <i>[Signature]</i> Date: 9/11/02 Authorized Representative			<b>14. WATER QUALITY</b> Chemical Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please enclose lab results.																																						
<b>15. ARTIFICIAL FILTER (filter pack)</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from 23 ft. to 35 ft. Effective size Uniformity Coefficient			<b>16. WELL GROUTED?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Sand Cement <input type="checkbox"/> Concrete <input type="checkbox"/> Other Depth: From 0 ft. to 21 ft.																																						
<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> 5 ft. EAST direction Type well disinfected <input type="checkbox"/> Yes Type: upon completion <input type="checkbox"/> No Amount:			<b>18. PUMP:</b> Date installed: Not installed Mfr. Name: Model No.: H.P. Volts Length of drop pipe ft. Capacity gpm TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal																																						

# Water Well Record

## Bureau of Water

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

<b>1. WELL OWNER INFORMATION:</b> Name: <u>MOODY</u> (last) <u>JULIUS</u> (first) Address: <u>1375 CAPERNAUM RD</u> City: <u>BANDWEG</u> State: <u>SC</u> Zip: <u>29003</u> Telephone: _____ Work: _____ Home: <u>803-245-4470</u>			<b>6. PERMIT NUMBER:</b> <u>00332</u>																																																		
<b>LOCATION OF WELL:</b> Name: <u>INTERSTATE TRUCK STOP</u> Street Address: <u>HWY 301 AND 321</u> City: <u>ULMER</u> State: <u>SC</u> Zip: <u>SC</u> COUNTY: _____ Latitude: <u>033°06'2.72"N</u> Longitude: <u>081°11'52.23"W</u>			<b>7. USE:</b> <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement																																																		
<b>3. SYSTEM NAME:</b> <u>INTERSTATE TRK STOP</u> <b>SYSTEM NUMBER:</b> <u>MV-2</u>			<b>8. WELL DEPTH (completed)</b> <u>35'</u> ft.      Date Started: <u>9-11-02</u> Date Completed: <u>9-11-02</u>																																																		
<b>4. CUTTING SAMPLES:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No Geophysical Logs: <input type="checkbox"/> Yes (please enclose) <input type="checkbox"/> No			<b>9. <input type="checkbox"/> Mud Rotary    <input type="checkbox"/> Jetted    <input type="checkbox"/> Bored</b> <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Other <u>Augered</u>																																																		
<b>11. SCREEN</b> Type: <u>PVC</u> Diam.: <u>2"</u> Slot/Gauge: <u>01</u> Length: <u>10'</u> Set Between: <u>75'</u> ft. and <u>35'</u> ft. Sieve Analysis    Yes (please enclose) <u>No</u>			<b>10. CASING:</b> <input type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam.: <u>2"</u> Type: <input type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other <u>2</u> in. to <u>25</u> ft. depth <u>  </u> in. to <u>  </u> ft. depth Height: Above/Below Surface <u>0</u> ft. Weight <u>Sch. 40</u> lb./ft. Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																		
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<b>5. REMARKS:</b> <u>- Bentonite 21'-23'</u>			<b>13. PUMPING LEVEL Below Land Surface.</b> _____ ft. after _____ hrs. Pumping _____ G.P.M. Pumping Test: <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No Yield: _____																																																		
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<b>WATER WELL CONTRACTORS CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: <u>[Signature]</u> Date: <u>9/11/02</u> Authorized Representative			<b>16. WELL GROUTED?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Sand Cement <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____ Depth: From <u>0</u> ft. to <u>21</u> ft.																																																		
<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> <u>20</u> ft. <u>E</u> direction _____ Type well disinfected <input type="checkbox"/> Yes Type: _____ _____ upon completion <input type="checkbox"/> No Amount: _____			<b>Indicate Water Bearing Zones</b> (Use a 2 <sup>nd</sup> sheet if needed)																																																		



**APPENDIX B**

Field Data Information Sheet for Ground-Water Sampling  
 South Carolina Department of Health and Environmental Control  
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 9/19/02  
 Field Personnel: ME  
 General Weather Conditions: Foggy  
 Ambient Air Temperature: 80°F C

**Quality Assurance**

707039

pH Meter serial no.	Conductivity Meter serial no.
pH=4.0 <input checked="" type="checkbox"/>	Standard
pH=7.0	Standard
pH=10.0	Standard

**Chain of Custody**

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Trucking  
 Site ID # \_\_\_\_\_ Monitoring Well # MW-1  
 Well Diameter (D): .167 feet  
 Conversion factor (C): 3.14 X (D/2)<sup>2</sup> for a 2 inch well C = 0.163  
 for a 4 inch well C = 0.652

\* Free Product Thickness: \_\_\_\_\_ feet  
 Depth to Ground Water (DGW) 30.06 feet  
 Total Well Depth (TWD) 35.79 feet  
 Length of the water column (LWC = TWD-DGW) 5.73 feet

1 casing volume (CV = LWC X C) = 5.73 x .163 = .93 gals  
 3 casing volume 3 X CV = 2.80 gals (standard purge volume)

Total volume of Water Purged Before Sampling 2.25 gals  
 Total volume of Water Purged for Post Sampling \_\_\_\_\_ gals  
2.25 Total Purged

\*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	.25	1.25	2.25					
Time (military)	840	843	845					846
pH (s.u.)	5.4	5.2	5.2					
Specific Cond. (umhos/cm)	.05	.06	.06					
Water Temperature (degrees C)	22	23	23					
Turbidity (subjective: clear, slightly cloudy, cloudy)	cloudy	cloudy	cloudy					
Dissolved Oxygen (mg/l)	4.3	4.8	5.1					
PID readings, if required								
Remarks:								

Field Data Information Sheet for Ground-Water Sampling  
 South Carolina Department of Health and Environmental Control  
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 9/19/02  
 Field Personnel: MT  
 General Weather Conditions: foggy, cloudy  
 Ambient Air Temperature: 80°F C

Quality Assurance

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	Standard _____
pH=7.0 _____	Standard _____
pH=10.0 _____	Standard _____

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Trucking  
 Site ID # \_\_\_\_\_ Monitoring Well # MW-2  
 Well Diameter (D): .167 feet  
 Conversion factor (C): 3.14 X (D/2)<sup>2</sup> for a 2 inch well C = 0.163  
 for a 4 inch well C = 0.652

\* Free Product Thickness: \_\_\_\_\_ feet  
 Depth to Ground Water (DGW) 29.88 feet  
 Total Well Depth (TWD) 34.66 feet  
 Length of the water column (LWC = TWD-DGW) 4.78 feet

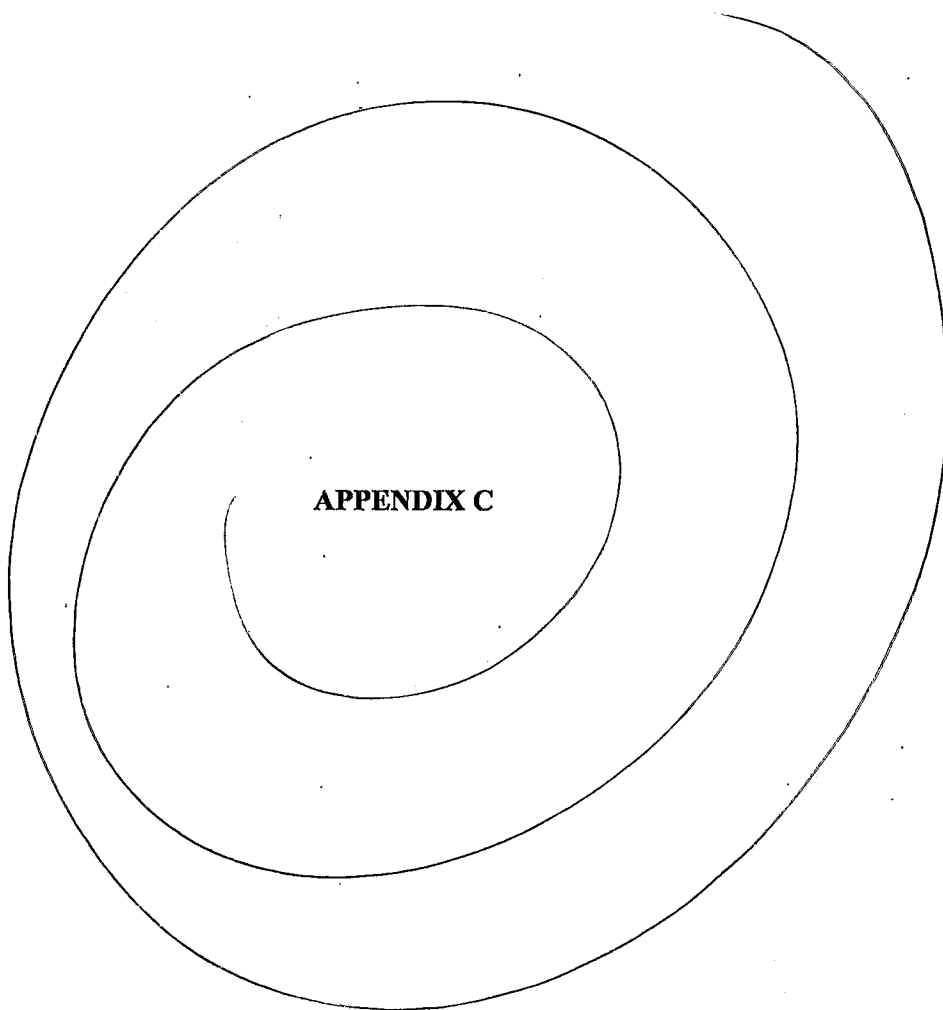
1 casing volume (CV = LWC X C) = 4.78 x 0.163 = .77 gals  
 3 casing volume 3 X CV = 2.33 gals (standard purge volume)

Total volume of Water Purged Before Sampling 2.25 gals  
 Total volume of Water Purged for Post Sampling \_\_\_\_\_ gals  
2.25 Total Purged

\*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	.25	1.25	2.25					
Time (military)	814	816	818					820
pH (s.u.)	7.1	6.7	6.7					
Specific Cond. (umhos/cm)	.12	.13	.12					
Water Temperature (degrees C)	23	23	23					
Turbidity (subjective: clear, slightly cloudy, cloudy)	cldy	cldy	cldy					
Dissolved Oxygen (mg/l)	0.4	2.0	1.9					
PID readings, if required								
Remarks:								





**APPENDIX C**



**Pace Analytical Services, Inc.**  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

September 27, 2002

Mr. Mark Beranbrock  
Geological Resources Inc.  
4913 Albemarle Rd.  
Suite 101  
Charlotte, NC 28205

RE: Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

Dear Mr. Beranbrock:

Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2002. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Sherri Howard  
Sherri.Howard@pacelabs.com  
Project Manager

Enclosures

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc.



Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627

Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

Lab Sample No: 922526983      Project Sample Number: 9236791-001      Date Collected: 09/19/02 08:46  
Client Sample ID: MW-1      Matrix: Water      Date Received: 09/20/02 15:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
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**Metals**

Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.025	mg/l	0.0050	1.0	09/24/02 16:47	LBG	7439-92-1		
Date Digested	09/23/02								

**GC/MS Semivolatiles**

Semivolatile Organics	Prep/Method: / EPA 8270								
Benzo(a)anthracene	ND	ug/l	11.	1.1	09/24/02 15:45	RPJ	56-55-3		
Benzo(b)fluoranthene	ND	ug/l	11.	1.1	09/24/02 15:45	RPJ	205-99-2		
Benzo(k)fluoranthene	ND	ug/l	11.	1.1	09/24/02 15:45	RPJ	207-08-9		
Chrysene	ND	ug/l	11.	1.1	09/24/02 15:45	RPJ	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	11.	1.1	09/24/02 15:45	RPJ	53-70-3		
Nitrobenzene-d5 (S)	72	%		1.0	09/24/02 15:45	RPJ	4165-60-0		
2-Fluorobiphenyl (S)	75	%		1.0	09/24/02 15:45	RPJ	321-60-8		
Terphenyl-d14 (S)	87	%		1.0	09/24/02 15:45	RPJ	1718-51-0		
Date Extracted	09/22/02								

**GC Semivolatiles**

EDB and DBCP in Water	Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/l	0.020	1.0	09/27/02	CBE	106-93-4		
1-Chloro-2-bromopropane (S)	102	%		1.0	09/27/02	CBE	301-79-56		

**GC/MS Volatiles**

GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	91-20-3		
Toluene	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	09/24/02 20:10	RWS			
o-Xylene	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	95-47-6		
Toluene-d8 (S)	95	%		1.0	09/24/02 20:10	RWS	2037-26-5		
4-Bromofluorobenzene (S)	88	%		1.0	09/24/02 20:10	RWS	460-00-4		
Dibromofluoromethane (S)	103	%		1.0	09/24/02 20:10	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	88	%		1.0	09/24/02 20:10	RWS	17060-07-0		

Date: 09/27/02

Page: 1

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

**REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627



Lab Project Number: 9236791

Client Project ID: Interstate Truck Term. 00332

Lab Sample No: 922527007

Project Sample Number: 9236791-002

Date Collected: 09/19/02 08:20

Client Sample ID: MW-2

Matrix: Water

Date Received: 09/20/02 15:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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**Metals**

Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.054	mg/l	0.0050	1.0	09/24/02 16:51	LBG	7439-92-1		
Date Digested	09/23/02								

**GC/MS Semivolatiles**

Semivolatile Organics	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Prep/Method: / EPA 8270									
Benzo(a)anthracene	ND	ug/l	11.	1.1	09/24/02 16:17	RPJ	56-55-3		
Benzo(b)fluoranthene	ND	ug/l	11.	1.1	09/24/02 16:17	RPJ	205-99-2		
Benzo(k)fluoranthene	ND	ug/l	11.	1.1	09/24/02 16:17	RPJ	207-08-9		
Chrysene	ND	ug/l	11.	1.1	09/24/02 16:17	RPJ	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	11.	1.1	09/24/02 16:17	RPJ	53-70-3		
Nitrobenzene-d5 (S)	69	%		1.0	09/24/02 16:17	RPJ	4165-60-0		
2-Fluorobiphenyl (S)	77	%		1.0	09/24/02 16:17	RPJ	321-60-8		
Terphenyl-d14 (S)	81	%		1.0	09/24/02 16:17	RPJ	1718-51-0		
Date Extracted	09/22/02								

**GC Semivolatiles**

EDB and DBCP in Water	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Method: EPA 8011									
1,2-Dibromoethane (EDB)	0.40	ug/l	0.020	1.0	09/27/02	CBE	106-93-4		
1-Chloro-2-bromopropane (S)	95	%		1.0	09/27/02	CBE	301-79-56		

**GC/MS Volatiles**

GC/MS VOCs by 8260	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Method: EPA 8260									
Benzene	ND	ug/l	500	100	09/24/02 20:26	RWS	71-43-2		
Ethylbenzene	1300	ug/l	500	100	09/24/02 20:26	RWS	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	09/24/02 20:26	RWS	1634-04-4		
Naphthalene	140	ug/l	5.0	1.0	09/24/02 20:26	RWS	91-20-3		
Toluene	3800	ug/l	500	100	09/24/02 20:26	RWS	108-88-3		
m&p-Xylene	3200	ug/l	1000	100	09/24/02 20:26	RWS			
o-Xylene	1100	ug/l	500	100	09/24/02 20:26	RWS	95-47-6		
Toluene-d8 (S)	9490	%		1.0	09/24/02 20:26	RWS	2037-26-5		
4-Bromofluorobenzene (S)	9430	%		1.0	09/24/02 20:26	RWS	460-00-4		
Dibromofluoromethane (S)	9920	%		1.0	09/24/02 20:26	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	8670	%		1.0	09/24/02 20:26	RWS	17060-07-0		

Date: 09/27/02

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Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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VA Drinking Water 213  
FL NELAP E87627



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**PARAMETER FOOTNOTES**

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- (S) Surrogate

Date: 09/27/02

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Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
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FL NELAP E87627



**QUALITY CONTROL DATA**

Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

QC Batch: 63695                                  Analysis Method: EPA 8011  
QC Batch Method: EPA 504.1                      Analysis Description: EDB and DBCP in Water  
Associated Lab Samples:                      922526983                      922527007

METHOD BLANK: 922536461  
Associated Lab Samples:                      922526983                      922527007

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
1,2-Dibromoethane (EDB)	ug/l	ND	0.020	
1-Chloro-2-bromopropane (S)	%	110		

LABORATORY CONTROL SAMPLE & LCSD: 922536479    922536487

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCSD Result</u>	<u>LCS % Rec</u>	<u>LCSD % Rec</u>	<u>RPD</u>	<u>Footnotes</u>
1,2-Dibromoethane (EDB)	ug/l	0.2500	0.2922	0.2910	117	116	0	
1-Chloro-2-bromopropane (S)					105	101		

SAMPLE DUPLICATE: 922536495

<u>Parameter</u>	<u>Units</u>	<u>20112939 Result</u>	<u>DUP Result</u>	<u>RPD</u>	<u>Footnotes</u>
1,2-Dibromoethane (EDB)	ug/l	ND	ND	NC	
1-Chloro-2-bromopropane (S)	%	117	126		

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QUALITY CONTROL DATA

Lab Project Number: 9236791

Client Project ID: Interstate Truck Term. 00332

QC Batch: 63491                                      Analysis Method: EPA 8270  
QC Batch Method:                                      Analysis Description: Semivolatile Organics  
Associated Lab Samples:                            922526983                            922527007

METHOD BLANK: 922528237  
Associated Lab Samples:                            922526983                            922527007

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Benzo(a)anthracene	ug/l	ND	10.	
Benzo(b)fluoranthene	ug/l	ND	10.	
Benzo(k)fluoranthene	ug/l	ND	10.	
Chrysene	ug/l	ND	10.	
Dibenz(a,h)anthracene	ug/l	ND	10.	
Nitrobenzene-d5 (S)	%	74		
2-Fluorobiphenyl (S)	%	77		
Terphenyl-d14 (S)	%	97		

LABORATORY CONTROL SAMPLE: 922528245

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Benzo(a)anthracene	ug/l	50.00	37.83	76	
Benzo(b)fluoranthene	ug/l	50.00	45.06	90	
Benzo(k)fluoranthene	ug/l	50.00	58.27	117	
Chrysene	ug/l	50.00	43.55	87	
Dibenz(a,h)anthracene	ug/l	50.00	28.54	57	
Nitrobenzene-d5 (S)				73	
2-Fluorobiphenyl (S)				75	
Terphenyl-d14 (S)				98	

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QUALITY CONTROL DATA

**Pace Analytical Services, Inc.**  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

QC Batch: 63552 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260  
Associated Lab Samples: 922526983 922527007

METHOD BLANK: 922530068  
Associated Lab Samples: 922526983 922527007

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Benzene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	97		
1,2-Dichloroethane-d4 (S)	%	88		

LABORATORY CONTROL SAMPLE: 922530076

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Benzene	ug/l	50.00	43.17	86	
Ethylbenzene	ug/l	50.00	43.60	87	
Methyl-tert-butyl ether	ug/l	50.00	40.15	80	
Naphthalene	ug/l	50.00	36.10	72	
Toluene	ug/l	50.00	39.29	79	
m&p-Xylene	ug/l	100.00	85.93	86	
o-Xylene	ug/l	50.00	42.64	85	
Toluene-d8 (S)				98	
4-Bromofluorobenzene (S)				97	
Dibromofluoromethane (S)				100	
1,2-Dichloroethane-d4 (S)				94	

Date: 09/27/02

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Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627





QUALITY CONTROL DATA

Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

MATRIX SPIKE: 922530084

Parameter	Units	922523733	Spike	MS	MS	Footnotes
		Result	Conc.	Result	% Rec	
Benzene	ug/l	0	50.00	41.93	84	
Toluene	ug/l	0	50.00	50.76	102	
Toluene-d8 (S)					111	1
4-Bromofluorobenzene (S)					101	
Dibromofluoromethane (S)					71	1
1,2-Dichloroethane-d4 (S)					74	1

SAMPLE DUPLICATE: 922530100

Parameter	Units	922524848	DUP	RPD	Footnotes
		Result	Result		
Benzene	ug/l	17.00	13.00	24	2
Ethylbenzene	ug/l	24.00	19.00	24	2
Methyl-tert-butyl ether	ug/l	100.0	88.00	15	
Naphthalene	ug/l	9.800	6.600	39	2
Toluene	ug/l	ND	ND	NC	
m&p-Xylene	ug/l	25.00	18.00	28	2
o-Xylene	ug/l	ND	ND	NC	
Toluene-d8 (S)	%	95	95		
4-Bromofluorobenzene (S)	%	90	97		
Dibromofluoromethane (S)	%	100	104		
1,2-Dichloroethane-d4 (S)	%	85	90		

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QUALITY CONTROL DATA

Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

QC Batch: 63509                                  Analysis Method: EPA 6010  
QC Batch Method: EPA 3010                      Analysis Description: Metals by Trace ICP  
Associated Lab Samples:                      922526983                      922527007

METHOD BLANK: 922528849  
Associated Lab Samples:                      922526983                      922527007

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	mg/l	ND	0.0050	

LABORATORY CONTROL SAMPLE: 922528880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.2500	0.2740	110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 922528856 922528864

Parameter	Units	922514237 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	mg/l	0.00551	0.2500	0.2570	0.2710	101	106	5	

SAMPLE DUPLICATE: 922528872

Parameter	Units	922514245 Result	DUP Result	RPD	Footnotes
Lead	mg/l	ND	ND	NC	

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**QUALITY CONTROL DATA PARAMETER FOOTNOTES**

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

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- RPD Relative Percent Difference
- (S) Surrogate
- [1] The surrogate and/or spike recovery was outside acceptance limits.
- [2] The calculated RPD was outside QC acceptance limits.

**REPORT OF LABORATORY ANALYSIS**

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# CHAIN-OF-CUSTODY / Analytical Request Document

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

661226

**Required Client Information: Section A**

Company: Geological Resources, Inc.  
Address: 4913 Albemarle Rd. #101  
Charlotte, NC 28205  
Phone: 563-1663 Fax: 563-1662

**Required Client Information: Section B**

Report To: Mark Beranbrack  
Copy To: Pat Holland  
Invoice To: Pat Holland  
P.O.:  
Project Name: Interstate Truck Terminal  
Project Number: 00332

Page: 1 of 1

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:  
Project Manager: SNH  
Project #: 9236791  
Profile #: 1126-916  
Requested Analysis:

ITEM	Section D Required Client Information: SAMPLE ID										MATRIX CODE	DATE COLLECTED	TIME COLLECTED	# Containers	Preservatives							Remarks / Lab ID								
	One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE														mm / dd / yy	hh:mm a/p	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other					
1	M	W	-	1								WT	9/19/02	0846	92	13	3							✓	✓	✓	✓			922526983
2	M	W	-	2								WT	9/19/02	0820	92	13	3							✓	✓	✓	✓			92252700
3																														
4																														
5																														
6																														
7																														
8																														
9																														
11																														
12																														

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					<u>[Signature]</u>	9/20	1545	<u>[Signature]</u>	9/20	1430
									9/20	1545

**SAMPLE CONDITION**

Temp in °C: 3.1

Received on Ice: Y/N

Sealed Cooler: Y/N

Samples Intact: Y/N

**SAMPLE NOTES**

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER:  
Mark Eiland

SIGNATURE of SAMPLER:  
[Signature]

DATE Signed: (MM / DD / YY)  
09/20/02



**Pace Analytical Services, Inc.**  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

September 23, 2002

Ms. Shawn Judd  
Geological Resources Inc.  
4913 Albemarle Rd.  
Suite 101  
Charlotte, NC 28205

RE: Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

Dear Ms. Judd:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 2002. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Sherril Howard  
Sherril.Howard@pacelabs.com  
Project Manager

Enclosures

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627

Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

Solid results are reported on a dry weight basis

Lab Sample No: 922508874 Project Sample Number: 9236496-001 Date Collected: 09/11/02 11:12  
Client Sample ID: MW-1 Matrix: Soil Date Received: 09/12/02 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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**Metals**

Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010								
Lead	110	mg/kg	0.48	1.0	09/22/02 22:33	CBJ	7439-92-1		
Date Digested	09/14/02								

**Wet Chemistry**

Percent Moisture	Method: % Moisture								
Percent Moisture	12.2	%		1.0	09/13/02		CDE		

**GC/MS Semivolatiles**

Semivolatile Organics	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Prep/Method: EPA 3550 / EPA 8270									
Benzo(a)anthracene	ND	ug/kg	380	1.1	09/16/02 14:07	RPJ	56-55-3		
Benzo(b)fluoranthene	ND	ug/kg	380	1.1	09/16/02 14:07	RPJ	205-99-2		
Benzo(k)fluoranthene	ND	ug/kg	380	1.1	09/16/02 14:07	RPJ	207-08-9		
Chrysene	ND	ug/kg	380	1.1	09/16/02 14:07	RPJ	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	380	1.1	09/16/02 14:07	RPJ	53-70-3		
Nitrobenzene-d5 (S)	81	%		1.0	09/16/02 14:07	RPJ	4165-60-0		
2-Fluorobiphenyl (S)	85	%		1.0	09/16/02 14:07	RPJ	321-60-8		
Terphenyl-d14 (S)	98	%		1.0	09/16/02 14:07	RPJ	1718-51-0		
Phenol-d5 (S)	73	%		1.0	09/16/02 14:07	RPJ	4165-62-2		
2-Fluorophenol (S)	65	%		1.0	09/16/02 14:07	RPJ	367-12-4		
2,4,6-Tribromophenol (S)	82	%		1.0	09/16/02 14:07	RPJ			
Date Extracted	09/15/02								

**GC/MS Volatiles**

GC/MS VOCs 5035/8260 low level	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Method: EPA 8260									
Benzene	ND	ug/kg	5.7	1.1	09/19/02 20:40	BCK	71-43-2		
Ethylbenzene	ND	ug/kg	5.7	1.1	09/19/02 20:40	BCK	100-41-4		
Naphthalene	ND	ug/kg	5.7	1.1	09/19/02 20:40	BCK	91-20-3		
Toluene	ND	ug/kg	5.7	1.1	09/19/02 20:40	BCK	108-88-3		
m&p-Xylene	ND	ug/kg	11.	1.1	09/19/02 20:40	BCK			
o-Xylene	ND	ug/kg	5.7	1.1	09/19/02 20:40	BCK	95-47-6		
Toluene-d8 (S)	95	%		1.0	09/19/02 20:40	BCK	2037-26-5		
4-Bromofluorobenzene (S)	91	%		1.0	09/19/02 20:40	BCK	460-00-4		
Dibromofluoromethane (S)	100	%		1.0	09/19/02 20:40	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		1.0	09/19/02 20:40	BCK	17060-07-0		

Date: 09/23/02

Page: 1

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

**REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627



Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

Lab Sample No: 922508882      Project Sample Number: 9236496-002      Date Collected: 09/11/02 21:06  
Client Sample ID: MW-2      Matrix: Soil      Date Received: 09/12/02 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
------------	---------	-------	--------------	----	----------	----	---------	------	--------

**Metals**

Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010								
Lead	4.0	mg/kg	0.56	1.1	09/22/02 22:38	CBJ	7439-92-1		
Date Digested	09/16/02								

**Wet Chemistry**

Percent Moisture	Method: % Moisture								
Percent Moisture	11.4	%		1.0	09/13/02		CDE		

**GC/MS Semivolatiles**

Semivolatile Organics	Prep/Method: EPA 3550 / EPA 8270								
Benzo(a)anthracene	ND	ug/kg	370	1.1	09/16/02 14:42	RPJ	56-55-3		
Benzo(b)fluoranthene	ND	ug/kg	370	1.1	09/16/02 14:42	RPJ	205-99-2		
Benzo(k)fluoranthene	ND	ug/kg	370	1.1	09/16/02 14:42	RPJ	207-08-9		
Chrysene	ND	ug/kg	370	1.1	09/16/02 14:42	RPJ	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	370	1.1	09/16/02 14:42	RPJ	53-70-3		
Nitrobenzene-d5 (S)	98	%		1.0	09/16/02 14:42	RPJ	4165-60-0		
2-Fluorobiphenyl (S)	86	%		1.0	09/16/02 14:42	RPJ	321-60-8		
Terphenyl-d14 (S)	99	%		1.0	09/16/02 14:42	RPJ	1718-51-0		
Phenol-d5 (S)	71	%		1.0	09/16/02 14:42	RPJ	4165-62-2		
2-Fluorophenol (S)	69	%		1.0	09/16/02 14:42	RPJ	367-12-4		
2,4,6-Tribromophenol (S)	81	%		1.0	09/16/02 14:42	RPJ			
Date Extracted	09/15/02								

**GC/MS Volatiles**

GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Benzene	ND	ug/kg	5.0	1.0	09/19/02 21:11	BCK	71-43-2		
Ethylbenzene	ND	ug/kg	5.0	1.0	09/19/02 21:11	BCK	100-41-4		
Naphthalene	100	ug/kg	5.0	1.0	09/19/02 21:11	BCK	91-20-3		
Toluene	ND	ug/kg	5.0	1.0	09/19/02 21:11	BCK	108-88-3		
m&p-Xylene	ND	ug/kg	10.	1.0	09/19/02 21:11	BCK			
o-Xylene	ND	ug/kg	5.0	1.0	09/19/02 21:11	BCK	95-47-6		
Toluene-d8 (S)	90	%		1.0	09/19/02 21:11	BCK	2037-26-5		
4-Bromofluorobenzene (S)	81	%		1.0	09/19/02 21:11	BCK	460-00-4		
Dibromofluoromethane (S)	118	%		1.0	09/19/02 21:11	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	116	%		1.0	09/19/02 21:11	BCK	17060-07-0		

Date: 09/23/02

Page: 2

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

**REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627



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**PARAMETER FOOTNOTES**

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- (S) Surrogate

**REPORT OF LABORATORY ANALYSIS**

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QUALITY CONTROL DATA

Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 922513148 922513155

Parameter	Units	922509690	Spike	MS	MSD	MS	MSD	RPD	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec		
Nitrobenzene-d5 (S)						95	103		
2-Fluorobiphenyl (S)						104	110		
Terphenyl-d14 (S)						136	139	1	
Phenol-d5 (S)						86	91		
2-Fluorophenol (S)						83	87		
2,4,6-Tribromophenol (S)						99	105		

SAMPLE DUPLICATE: 922513130

Parameter	Units	922508874	DUP	RPD	Footnotes
		Result	Result		
Benzo(a)anthracene	ug/kg	ND	ND	NC	
Benzo(b)fluoranthene	ug/kg	ND	ND	NC	
Benzo(k)fluoranthene	ug/kg	ND	ND	NC	
Chrysene	ug/kg	ND	ND	NC	
Dibenz(a,h)anthracene	ug/kg	ND	ND	NC	
Nitrobenzene-d5 (S)	%	81	73		
2-Fluorobiphenyl (S)	%	85	82		
Terphenyl-d14 (S)	%	98	101		
Phenol-d5 (S)	%	73	68		
2-Fluorophenol (S)	%	65	59		
2,4,6-Tribromophenol (S)	%	82	81		

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

QC Batch: 63352                                  Analysis Method: EPA 8260  
QC Batch Method: EPA 8260                      Analysis Description: GC/MS VOCs 5035/8260 low level  
Associated Lab Samples:                      922508874                      922508882

METHOD BLANK: 922520747  
Associated Lab Samples:                      922508874                      922508882

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	10.	
o-Xylene	ug/kg	ND	5.0	
Toluene-d8 (S)	%	103		
4-Bromofluorobenzene (S)	%	97		
Dibromofluoromethane (S)	%	100		
1,2-Dichloroethane-d4 (S)	%	100		

LABORATORY CONTROL SAMPLE & LCSD: 922520754 922520762

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Benzene	ug/kg	50.00	48.77	47.96	98	96	2	
Ethylbenzene	ug/kg	50.00	48.12	47.00	96	94	2	
Naphthalene	ug/kg	50.00	76.72	36.29	153	73	72	2,3
Toluene	ug/kg	50.00	47.80	46.89	96	94	2	
m&p-Xylene	ug/kg	100.00	95.91	95.60	96	96	0	
o-Xylene	ug/kg	50.00	49.06	48.22	98	96	2	
Toluene-d8 (S)					101	101		
4-Bromofluorobenzene (S)					99	99		
Dibromofluoromethane (S)					101	99		
1,2-Dichloroethane-d4 (S)					96	102		

**REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical Services, Inc.**  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

### QUALITY CONTROL DATA

Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

QC Batch: 63144 Analysis Method: EPA 6010  
QC Batch Method: EPA 3050 Analysis Description: Metals, Trace ICP  
Associated Lab Samples: 922508874 922508882

METHOD BLANK: 922513023  
Associated Lab Samples: 922508874 922508882

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Lead	mg/kg	ND	0.50	

LABORATORY CONTROL SAMPLE: 922513064

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Lead	mg/kg	25.00	27.50	110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 922529607 922529615

Parameter	Units	922508874	Spike	MS	MSD	MS	MSD	RPD	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec		
Lead	mg/kg	113.0	26.37	27.74	29.73	0	0	7	4,4

SAMPLE DUPLICATE: 922513056

Parameter	Units	922503222	DUP	RPD	Footnotes
		Result	Result		
Lead	mg/kg	6.900	ND	NC	

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627





QUALITY CONTROL DATA

Pace Analytical Services, Inc.  
 9800 Kincey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

Lab Project Number: 9236496  
 Client Project ID: Interstate Terminal/00332

QC Batch: 63110    Analysis Method: % Moisture  
 QC Batch Method:    Analysis Description: Percent Moisture  
 Associated Lab Samples:                                      922508874                      922508882

SAMPLE DUPLICATE: 922511290

<u>Parameter</u>	<u>Units</u>	922511191	DUP	<u>RPD</u>	<u>Footnotes</u>
		<u>Result</u>	<u>Result</u>		
Percent Moisture	%	27.20	27.30	1	

SAMPLE DUPLICATE: 922511852

<u>Parameter</u>	<u>Units</u>	922509419	DUP	<u>RPD</u>	<u>Footnotes</u>
		<u>Result</u>	<u>Result</u>		
Percent Moisture	%	22.00	17.70	21	

Date: 09/23/02

Page: 8

Laboratory Certification IDs  
 NC Wastewater     12  
 NC Drinking Water   37706  
 SC                      99006

### REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
 LA Wastewater           04034  
 VA Drinking Water       213  
 FL NELAP                E87627



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**QUALITY CONTROL DATA PARAMETER FOOTNOTES**

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

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- RPD Relative Percent Difference
- (S) Surrogate
- [1] Base/neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
- [2] The surrogate and/or spike recovery was outside acceptance limits.
- [3] The calculated RPD was outside QC acceptance limits.
- [4] The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

**REPORT OF LABORATORY ANALYSIS**

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# Pace Analytical

The Right Chemistry, The Right Solution®

# CHAIN-OF-CUSTODY / Analytical Request Document

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

512758

**Required Client Information: Section A**  
 Company: Geological Resources, Inc.  
 Address: 4913 Albemarle Rd  
Suite 101  
Charlotte NC  
 Phone: 704-563-1663 Fax: 704-563-1662

**Required Client Information: Section B**  
 Report To: Mark Berenbrock  
 Invoice To: PAH Holland  
 PO: 408994  
 Project Name: Interstate Terminal  
 Project Number: 00332

Page: 1 of 1

**To Be Completed by Pace Analytical and Client Section C**  
 Quote Reference:  
 Project Manager:  
 Project #: 36496  
 Profile #:  
 Requested Analysis:

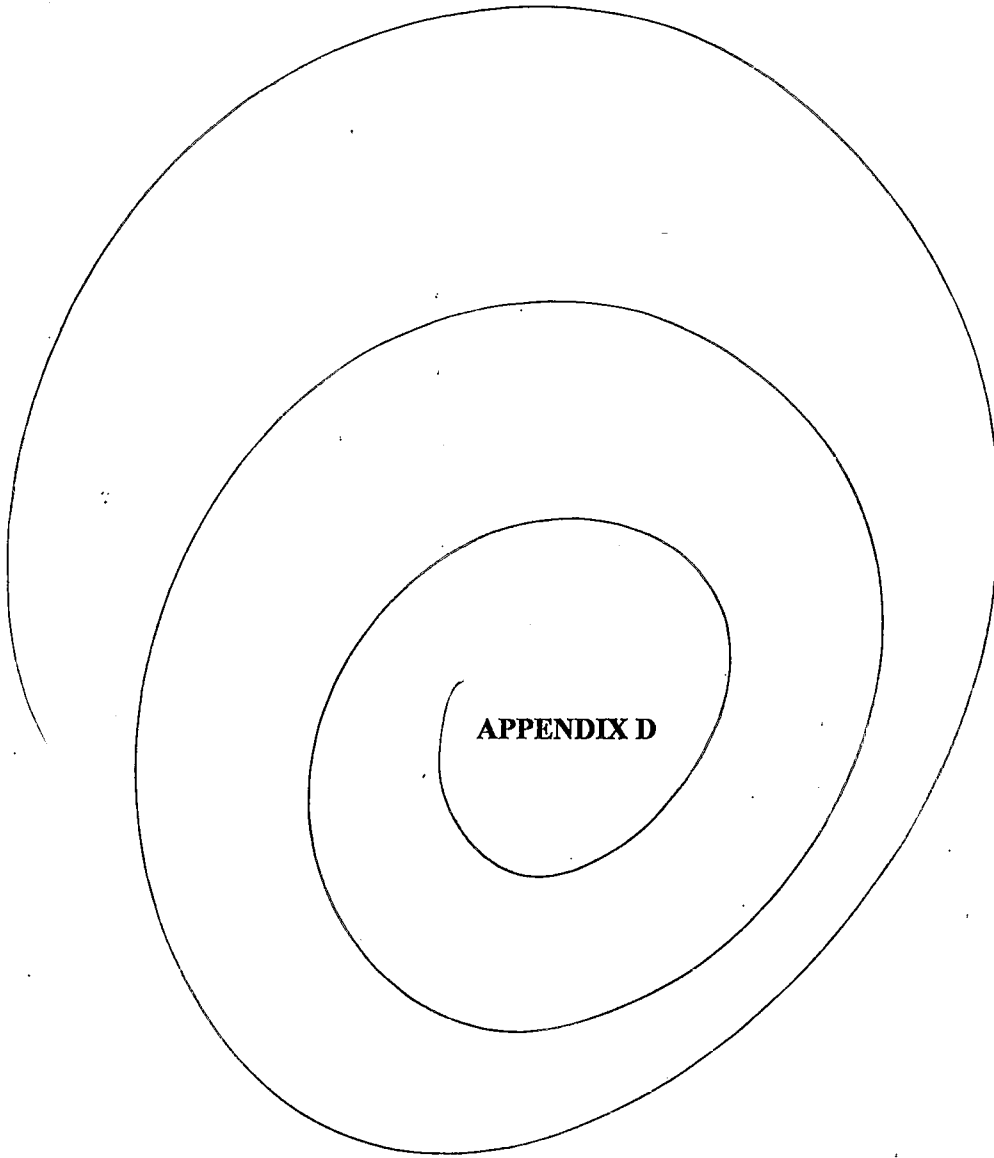
ITEM #	Section D Required Client Information:										DATE COLLECTED mm/dd/yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives					Remarks / Lab ID										
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE													MATRIX CODE	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl		NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
1	M	U	-	1							SL	9-11-02	11:12	6						X	X	X						2508874	
2	M	U	-	Z							SL	9-11-02	2:10	6							X	X	X						2508882
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Sample Condition	Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	1.4		<u>Mark Berenbrock</u>	9/12	14:15	<u>[Signature]</u>	9/12	2:15
Received on ICE:	Y / N			9/12	16:00	<u>[Signature]</u>	9/12	16:00
Sealed Cooler:	Y / N							
Samples Intact:	Y / N							

Additional Comments:

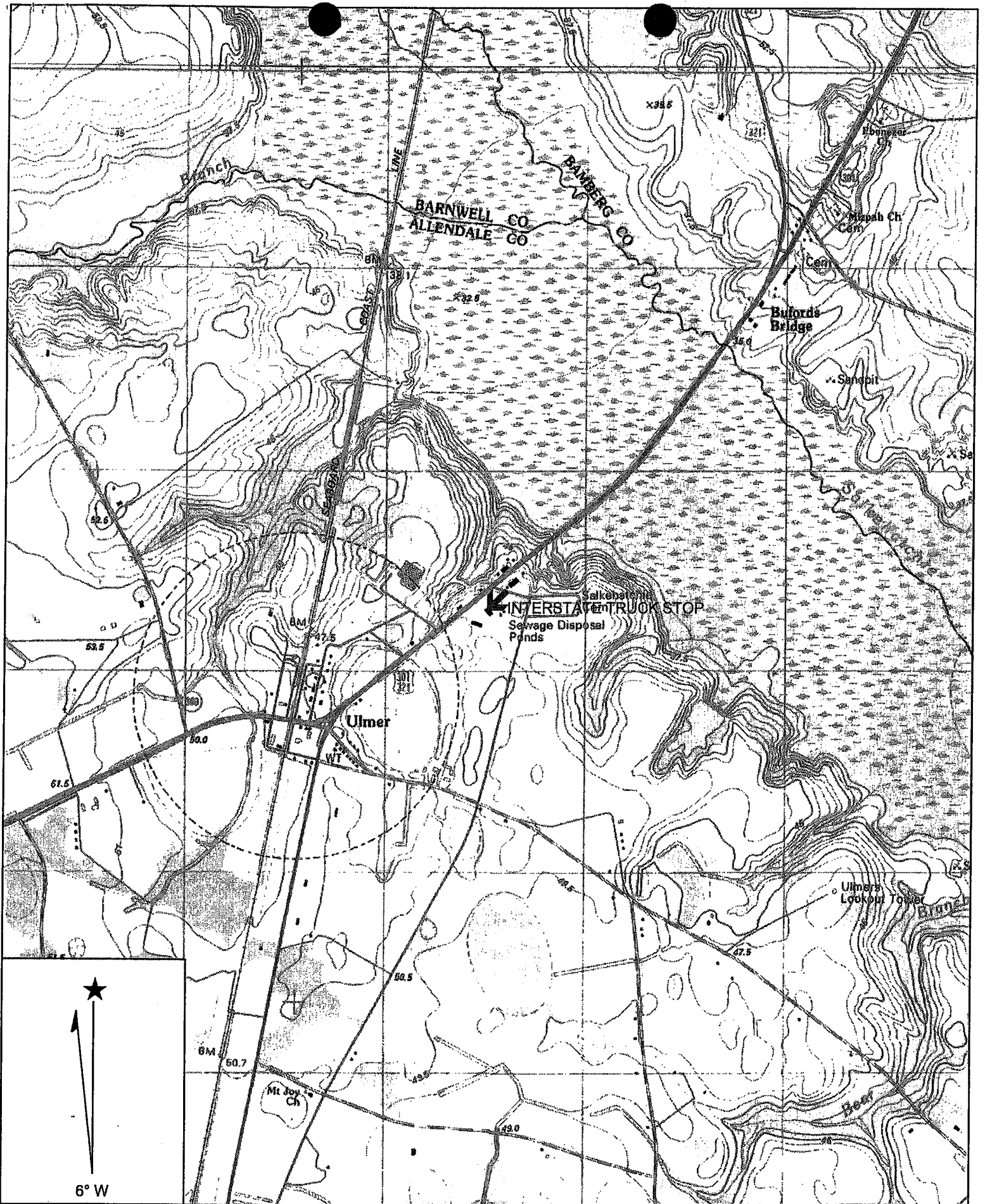
**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER:  
Soel Link  
 SIGNATURE of SAMPLER:  
[Signature]  
 DATE Signed: (MM / DD / YY)  
9-11-02

SEE REVERSE SIDE FOR INSTRUCTIONS



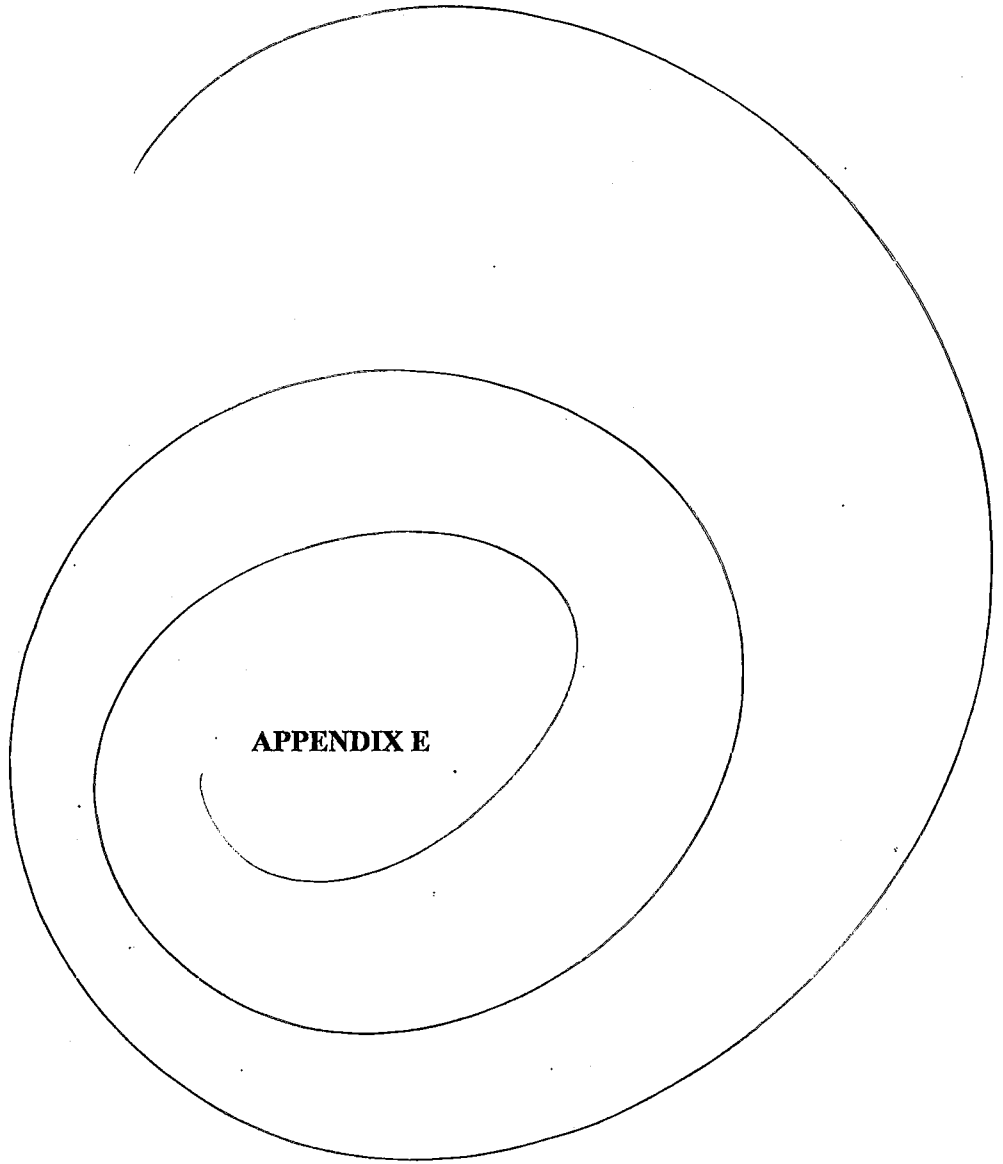
**APPENDIX D**





Name: SYCAMORE  
 Date: 10/2/2002  
 Scale: 1 inch equals 2000 feet

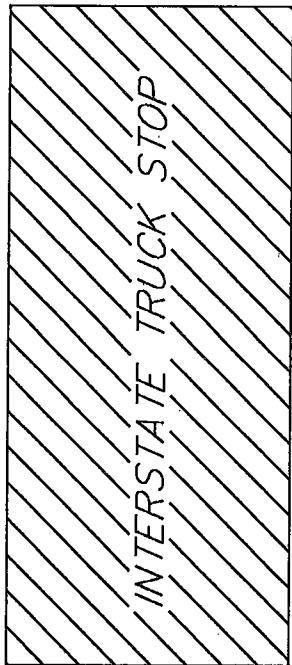
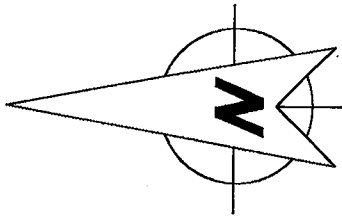
Location: 033° 06' 03.8" N 081° 11' 53.1" W  
 Caption: SITE LOCATION MAP  
 Interstate Truck Stop  
 Figure 1



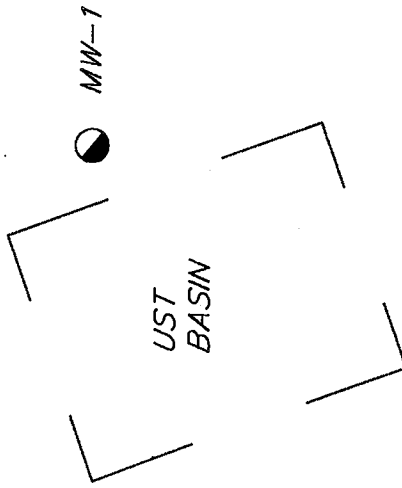
**APPENDIX E**

LEGEND

MW-1 TYPE II MONITORING WELL



INTERSTATE TRUCK STOP



MW-1

UST  
BASIN

DISPENSER ISLANDS

MW-2



1 inch = 30 feet

HWY 301

SITE MAP

Interstate Truck Stop 1375 Capernaum Rd.

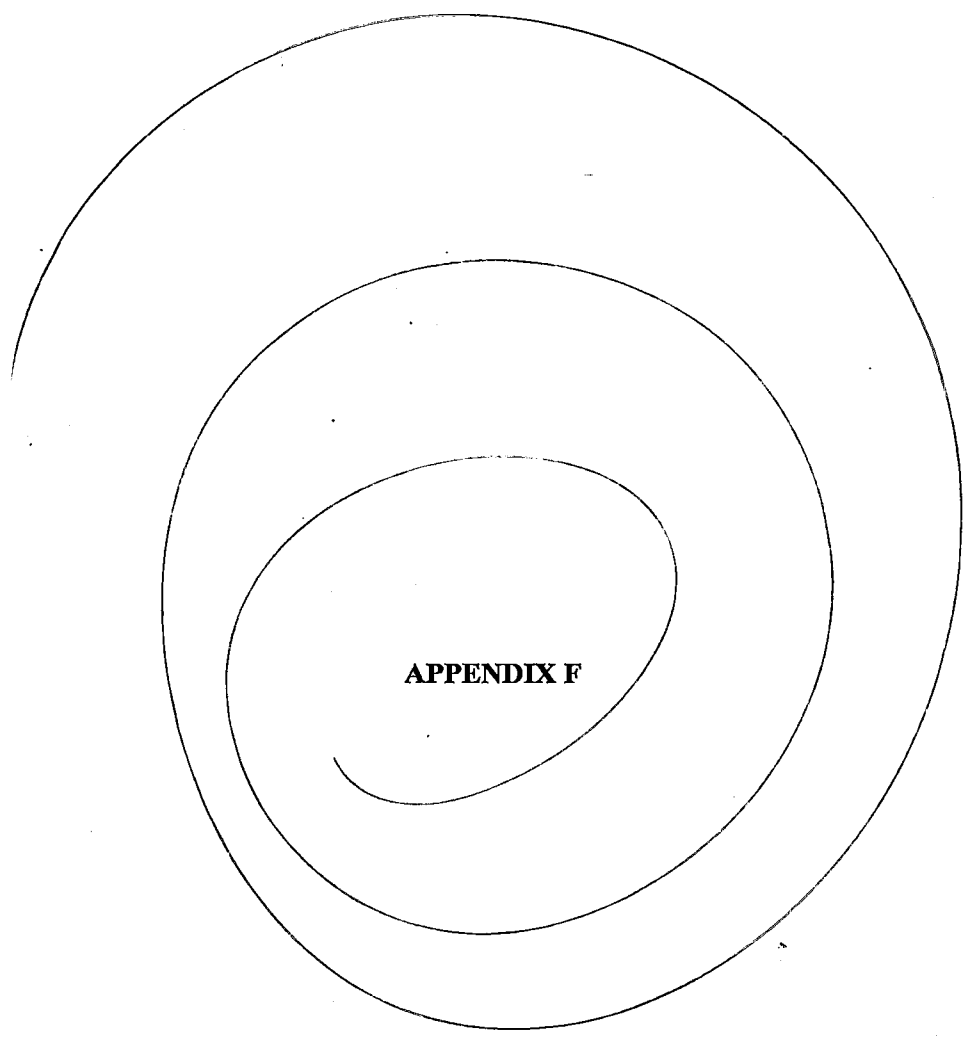
Bamberg, Bamberg County, SC

Date: 10/02/02 Drawn by: MDE

Figure:

2

GEOLOGICAL RESOURCES, INC.



**APPENDIX F**



# HAZ~MAT

TRANSPORTATION AND DISPOSAL

P. O. BOX 37392 • CHARLOTTE, N.C. 28237

(704) 332-5600

FAX (704) 375-7183

13618

Manifest No. \_\_\_\_\_

P.O. No. \_\_\_\_\_

Job No. \_\_\_\_\_

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator completes all of Section I)

**GENERATOR LOCATION**

NAME \_\_\_\_\_

ORIGINATING ADDRESS \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE NO. \_\_\_\_\_

CONTACT NAME \_\_\_\_\_

DES. OF WASTE: \_\_\_\_\_

**WORK CONTRACTED BY**

Bill To (if different from information at left)

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE NO. \_\_\_\_\_

CONTACT NAME \_\_\_\_\_

No.	Type	Units	Quantity

### Section II. INVOICE INFORMATION GALLONS      DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. WATER, OIL & COOLANT PUMPED FROM TANKS OR DRUMS		
2. OFF SPEC LIGHT OIL, WATER & GAS PUMPED FROM TANKS OR DRUMS		
3. 55 GALLON DRUMS REMOVED - SOLID		
4. 55 GALLON DRUMS REMOVED - LIQUID		
5.		
6.		
7.		
8.		
9. SERVICE CHARGE		
10. TRANSPORTATION		

**GENERATOR'S CERTIFICATION:** I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name \_\_\_\_\_

Signature \_\_\_\_\_

Shipment Date 07 27 02

### Section III. TRANSPORTER TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-j)

**HAZ~MAT**

TRANSPORTATION AND DISPOSAL

P. O. BOX 37392 • CHARLOTTE, N.C. 28237

#### TRANSPORTER II

a. Driver Name / Title \_\_\_\_\_

b. Phone No. \_\_\_\_\_ c. Truck No. \_\_\_\_\_

e. Name Global Transport, Inc.

f. Address 490 Albemarle Rd., #101  
Charlotte, NC 28205

g. Driver Name / Title Mark Edward / Driver

h. Phone No. 704-332-1442 i. Truck No. \_\_\_\_\_

Hazardous Waste Transporter Permits

EPA NCR 000003186

EPA NCD048461370

j. Transporter II Permit Nos. \_\_\_\_\_

d. Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_

Driver Signature \_\_\_\_\_ Shipment Date 07 27 02

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Haz-Mat Transportation & Disposal, Inc.

Physical Address: 210 Dalton Avenue  
Charlotte, N.C. 28237

a. Phone No. 704-332-5600

b. Mailing Address: P.O. Box 37392  
Charlotte, N.C. 28237

e. Discrepancy Indication Space \_\_\_\_\_

This is to certify that all non-hazardous material removed from above location has been received and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation, then into the CMUD sanitation sewer system under permit IUP#5012. (3) Sludges from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT \_\_\_\_\_ DATE \_\_\_\_\_ MONTH \_\_\_\_\_ DAY \_\_\_\_\_ YEAR \_\_\_\_\_

# MATERIAL MANIFEST

MANIFEST # 35638

F.S.E. JOB #                     

Date: 9-11-02

Generator: INTERSTATE TRV STOP  
ULMER ST

Phone No:                     

EPA ID No:                     

**Process which generated material:**

I certify that the materials described below are properly classified, packaged, marked & labeled, and are in the proper condition to be transported as specified by the Department of Transportation. I certify that the material described below is not a hazardous waste in accordance with the Environmental Protection Agency. I certify that the specific material was delivered to the carrier named below for transport to the facility indicated.

Date: 9-11-02 Signature: [Signature]

HAZ	PROPER SHIPPING NAME AS LISTED ON 172.101 TABLE	HAZ CLASS	DOT I.D. NUMBER	PG GROUP	QUANTITY	CIRCLE UNIT	CONTAINER NO. TYPE	ERG. NO.
	HON-HRE NON-REN	HA 8000	HA	I II III	20	Gals. Pounds Tons Cu. Yds.	1 TT DT CM UM DF	

## FOUR SEASONS ENVIRONMENTAL USE ONLY

DESCRIPTION OF MATERIAL	CIRCLE FORM	AMOUNT SOLIDS		AMOUNT LIQUIDS	
		GALLONS	TONS	NO. DRUMS	GALLONS
Polve H2O	<input checked="" type="radio"/> SOLID <input type="radio"/> LIQUID <input type="radio"/> SLUDGE				20
CONTAINER NUMBER					
DM	1				

### FACILITY USE ONLY

Transporter: GENERAL RESOURCES  
4915 ALBEMARLE RD  
GREENSBORO NC

Unit Number (s):                       
Phone No:                       
EPA ID No:                     

Vehicle License Tag/Number (a): PWT-3531 Container:                     

Transporter Certification:  
I certify that the specified material was transferred in a registered (licensed) vehicle to the facility named and was accepted.

Pick-up Driver's Signature: [Signature] Date: 9-11-02  
Delivering Driver's Signature: [Signature] Date: 9-12-02

Facility: FAIR STARBUCKS  
4820 SW DANVILLE RD  
GREENSBORO NC

Phone No:                       
Contact: CHP

Handling Method: P75032

Facility Certification:  
I certify that the transporter, above, delivered the specified material to this facility and was handled in the above listed handling method. We authorize and qualified by the State of NC to handle this material.

Date: 9-11-02 Signature: [Signature]

## MATERIAL MANIFEST

MANIFEST # 35637

F.S.E. JOB # 35637

Date: 9-12-02

Generator: INTERSTATE TRK STOP  
WUMBE SC

Phone No: \_\_\_\_\_  
EPA ID No: \_\_\_\_\_

**Process which generated material:**

I certify that the materials described below are properly classified, packaged, marked & labeled, and are in the proper condition to be transported as specified by the Department of Transportation. I certify that the material described below is not a hazardous waste in accordance with the Environmental Protection Agency. I certify that the specific material was delivered to the carrier named below for transport to the facility indicated.

Date 9-11-02 Signature: [Signature]

HAZ	PROPER SHIPPING NAME AS LISTED ON 172.101 TABLE	HAZ CLASS	DOT I.D. NUMBER	PG GROUP	QUANTITY	CIRCLE UNIT			CONTAINER		ERG. NO.
						NO.	TYPE	NO.	NO.		
	NON-HAZ NON-REG	UN 0000	NA	I II III	1	Gals. Pounds Tons Cu. Yds.		TT DT CM DM DF			

### FOUR SEASONS ENVIRONMENTAL USE ONLY

DESCRIPTION OF MATERIAL	CONTAINER NUMBER	CIRCLE FORM	AMOUNT SOLIDS		AMOUNT LIQUIDS	
			GALLONS	TONS	NO. DRUMS	GALLONS
POW CUTTINGS	DM 1	<input checked="" type="radio"/> SOLID <input type="radio"/> LIQUID <input type="radio"/> SLUDGE	55			55

### FACILITY USE ONLY

Transporter: GEORGE M. DESPERS, INC Unit Number (s): \_\_\_\_\_  
4415 ALDENWOOD RD Phone No.: \_\_\_\_\_  
CAROLINA, NC 28205 EPA ID No: \_\_\_\_\_

Vehicle License Tag Number (s): PAF - FWL-3656 Container: \_\_\_\_\_

Transporter Certification: [Signature]  
 I certify that the specified material was transferred in a registered (licensed) vehicle to the facility named and was accepted.

Pick-up Driver's Signature: [Signature] Date: 9-11-02

Delivering Driver's Signature: [Signature] Date: 9-12-02

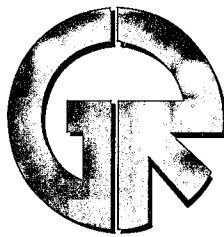
Facility: FOUR SEASONS Phone No: \_\_\_\_\_  
3420 OLD PINEHURST RD Contact: CHAP  
CHARLOTTE, NC

Handling Method: P715032 + P75041

Facility Certification: [Signature]  
 I certify that the transporter above delivered the specified material to this facility and was handled in the above listed handling method. We authorize and qualify by the State of NC to handle this material.

Date: 9-12-02 Signature: [Signature]





**Geological Resources, Inc.**

October 8, 2002

**RECEIVED**

OCT 09 2002

Underground Storage  
Tank Program

Mr. John Abernathy  
State Lead and Field Section  
Bureau of Underground Storage Tank Management  
South Carolina Department of Health and Environmental Control  
2600 Bull Street  
Columbia, SC 29201-1708

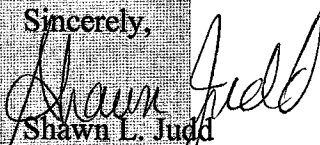
Re: Interstate Terminal Trucking  
Site ID# 00332  
CP # 16992: PO # 408994

Dear Mr. Abernathy:

Please find enclosed the **original IGWA report** for the above referenced site.

The original invoice has been submitted to Ms. Pat Holland of the Finance Section as specified in the contract.

Sincerely,

  
Shawn L. Judd  
Project Coordinator

UST PROGRAM DOCKETING # 421

4913 Albemarle Road Suite 101 Charlotte, NC 28205  
Phone: (704) 563-1663 / (888) 870-4133 Fax: (704) 563-1662

[www.geologicalresourcesinc.com](http://www.geologicalresourcesinc.com)



## INITIAL GROUND WATER ASSESSMENT REPORT

Facility Name: Interstate Truck Stop

UST Permit Number: 00332

**RECEIVED**

UST Owner or Operator's Name: Julius Moody

OCT 09 2002

Address: 1375 Capernaum Road, Ulmer, South Carolina 29003

Phone Number: (803) 245-4470

Underground Storage  
Tank Program

Property Owner's Name (if different than UST owner/operator): Julius Moody

Address: 1375 Capernaum Road, Ulmer, South Carolina 29003

Phone Number: (803) 245-4470

Contractor: Geological Resources, Inc.

Cert. #: 74

Address: 4913 Albemarle Road, Suite 101, Charlotte, North Carolina 28205

Phone Number: (704) 563-1663

Well Driller: Hollis Keech

Cert. #: 836

Address: 4913 Albemarle Road, Suite 101, Charlotte, North Carolina 28205

Phone Number: (704) 563-1663

### Receptor and Site Data

Please place a check in the appropriate answer block for each question:

Receptor Survey Questions	No	Yes*
Is there a drinking water supply well (public or private) or surface water intake within 1,000 feet of the UST?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are irrigation or other non-drinking water wells located within 1,000 feet of the UST?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are there other potential receptors (i.e. utilities, surface waters, wetlands) less than 500 feet from the UST?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If "yes" provide additional information:

Inactive WSW ~600' north of site behind abandoned hotel at corner of Salkehatchie Cemetery Road and Hwy. 301/321; WSW ~900' west of site at Mohawk Industries at corner of Multitex Road and Dump Lane; swamp/wetland ~250' west of site across Hwy. 301/321; dry pond ~600' northeast of site at corner of Salkehatchie Cemetery Road and Cemetery Road.

**UST PROGRAM  
DOCKETING #**

487

Were any water wells within a 250-foot radius sampled?                      Yes   X   No

Is there a public water supply line in the area?   X   Yes                      No

Is the current use of the facility and surrounding properties commercial, residential, agricultural or residential or industrial?

Site:   Industrial   Adjacent Properties:   Commercial  

**Soil and Boring/Monitoring Well Data**

Primary Soil Type:   Clayey silty sand  

Well Installation Method and Date:   3.25" SSA on 09/11/02  

Development Method:   Disposable polyethylene bailer  

Soil Sample Obtained at:   MW-1 @ 10'; MW-2 @ 15'  

**Soil Analytical Data (mg/kg)**

Boring #: MW-1

Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	Total Lead
<0.0057	<0.0057	<0.0057	<0.0167	<0.0057	110

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs
<3.80	<0.380	<0.380	<0.380	<0.380	<1.900

Boring #: MW-2

Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	Total Lead
<0.0050	<0.0050	<0.0050	<0.025	<del>0.100</del> <sup>0.100</sup> <del>&lt;0.100</del>	4.0

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs
<del>&lt;3.70</del>	<del>&lt;0.70</del>	<0.370	<0.370	<0.370	<1.850

<0.370    <0.370  
    

**Ground Water Data**

Depth to Ground Water: MW-1 = 30.06; MW-2 = 29.88

Well Purging/Sampling Method: Disposable polyethylene bailer

Date Sampled: 09/19/02

Free Product Thickness: NA

**Equilibrated Values**

Temperature (C°): MW-1 = 23; MW-2 = 23 pH (s.u.): MW-1 = 5.2; MW-2 = 6.7

Dissolved Oxygen (mg/l): MW-1 = 5.2; MW-2 = 1.9 Specific Conductance (µmhos/cm): MW-1 = .06; MW-2 = .12

**Ground Water Analytical Data (µg/l)**

Well #: MW-1

Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	EDB
<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<0.020

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs	Total Lead
<11	<11	<11	<11	<11	<55	25

Well #: MW-2

Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	EDB
<500	3,800	1,300	4,300	<5.0	140	0.40

Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenzo(a,h)-anthracene	Total PAHs	Total Lead
<11	<11	<11	<11	<11	<55	54

**Appendices**

- Appendix A: Well Construction Record
- Appendix B: Ground Water Sampling Data Sheet
- Appendix C: Laboratory Data
- Appendix D: Topographic Map
- Appendix E: Site Base Map
- Appendix F: Disposal Manifest

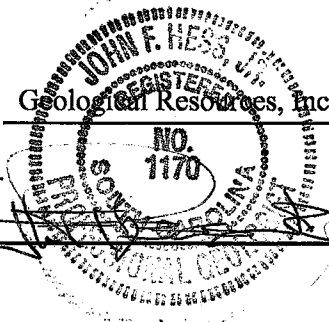
Report Completed By: Geological Resources, Inc.

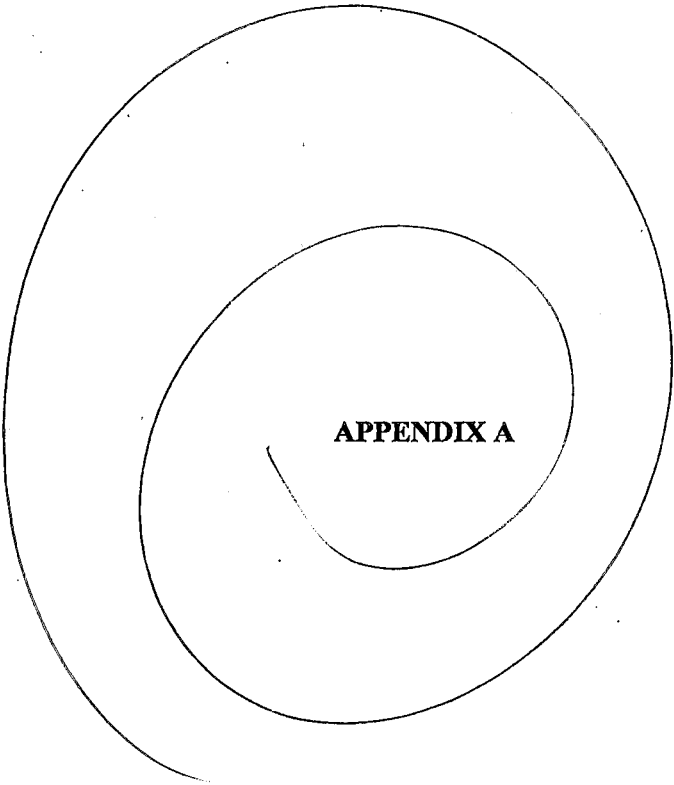
Contractor Cert. #: 74

Date: 10/7/02

Reviewed By:

Registration # 1170

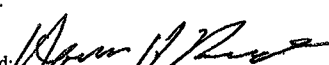




**APPENDIX A**

# Water Well Record Bureau of Water

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

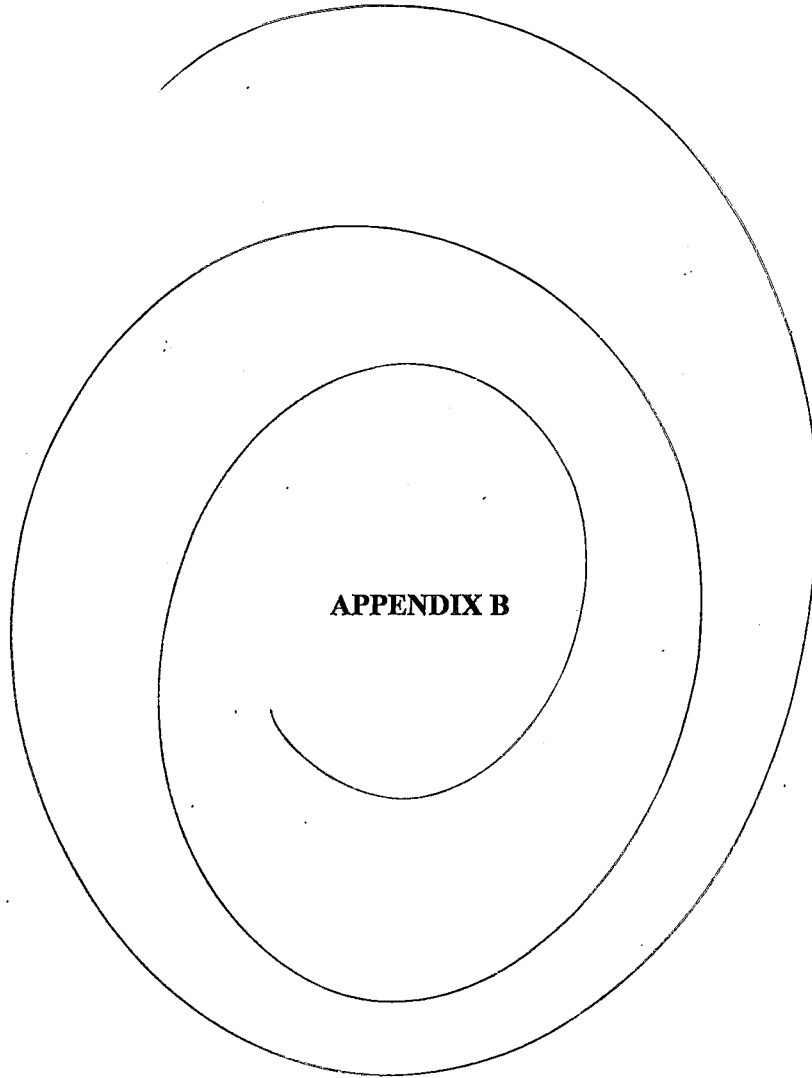
<b>1. WELL OWNER INFORMATION:</b> Name: MOODY (last)      JULIUS (first) Address: 1375 CAPELNAUM RD City: COLUMBIA      State: SC      Zip: 29003 Telephone:      Work:      Home: 803-245-4470			<b>6. PERMIT NUMBER:</b> 00332																																									
<b>LOCATION OF WELL:</b> Name: INTERSTATE TRUCK STOP Street Address: HWY 301 AND 321 City: ULMER      Zip: SC COUNTY: Allendale Latitude: 033° 06' 2.72" N      Longitude: 081° 11' 52.23" W			<b>7. USE:</b> <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement																																									
<b>3. SYSTEM NAME:</b> INTERSTATE TRUCK <b>SYSTEM NUMBER:</b> MW-1			<b>8. WELL DEPTH (completed)</b> 35' ft.      Date Started: 9-11-02 Date Completed: 9-11-02																																									
<b>4. CUTTING SAMPLES:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No Geophysical Logs: <input type="checkbox"/> Yes (please enclose) <input type="checkbox"/> No			<b>9. <input type="checkbox"/> Mud Rotary      <input type="checkbox"/> Jetted      <input type="checkbox"/> Bored</b> <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Other Augered																																									
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<b>14. WATER QUALITY</b> Chemical Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Bacterial Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please enclose lab results.			<b>15. ARTIFICIAL FILTER (filter pack)</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from 23 ft. to 35 ft. Effective size      Uniformity Coefficient																																									
<b>16. WELL GROUTED?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Sand Cement <input type="checkbox"/> Concrete <input type="checkbox"/> Other Depth: From 0 ft. to 21 ft.			<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> 5 ft. EAST direction Type well disinfected <input type="checkbox"/> Yes      Type: upon completion <input type="checkbox"/> No Amount:																																									
*Indicate Water Bearing Zones (Use a 2 <sup>nd</sup> sheet if needed)			<b>18. PUMP:</b> Date installed:      Not installed Mfr. Name:      Model No.: H.P.      Volts      Length of drop pipe      ft. Capacity      gpm TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal																																									
<b>5. REMARKS:</b> Lentonite 21'-23'.			<b>19. WELL DRILLER: Hollis Keech Cent#: 836</b> Address: 4913 Albemarle Road, Suite 101, Charlotte, NC 28205 Telephone No.: 704-663-1663																																									
<b>WATER WELL CONTRACTORS CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief.			Signed:  Date: 9/11/02 Authorized Representative																																									

# Water Well Record

## Bureau of Water

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

<b>1. WELL OWNER INFORMATION:</b> Name: <u>MOODY</u> (last) <u>JULIUS</u> (first) Address: <u>1375 CAPERNAUM RD</u> City: <u>DANBURG</u> State: <u>SC</u> Zip: <u>29003</u> Telephone: _____ Work: _____ Home: <u>803-245-4470</u>			<b>6. PERMIT NUMBER:</b> <u>00332</u>																																												
<b>LOCATION OF WELL:</b> Name: <u>INTERSTATE TRUCK STOP</u> Street Address: <u>HWY 301 AND 321</u> City: <u>ULMER</u> County: _____ Zip: <u>SC</u> Latitude: <u>033°06'27.2"N</u> Longitude: <u>081°11'52.23"W</u>			<b>7. USE:</b> <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement																																												
<b>3. SYSTEM NAME: SYSTEM NUMBER:</b> <u>INTERSTATE TRK SUP MV-2</u>			<b>8. WELL DEPTH (completed)</b> Date Started: <u>9-11-02</u> <u>35'</u> ft.      Date Completed: <u>9-11-02</u>																																												
<b>4. CUTTING SAMPLES:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No Geophysical Logs: <input type="checkbox"/> Yes (please enclose) <input type="checkbox"/> No			<b>9. <input type="checkbox"/> Mud Rotary      <input type="checkbox"/> Jetted      <input type="checkbox"/> Bored</b> <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Other <u>Augered</u>																																												
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Depth: From <u>0</u> ft. to <u>21</u> ft.			<b>16. WELL GROUTED?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Sand Cement <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____																																												
_____ ft. _____ direction _____ Type well disinfected <input type="checkbox"/> Yes      Type: _____ _____ upon completion <input type="checkbox"/> No      Amount: _____			<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b>																																												
Date installed: _____ Not Installed Mfr. Name: _____ Model No.: _____ H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal			<b>18. PUMP:</b> Date installed: _____ Not Installed Mfr. Name: _____ Model No.: _____ H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal																																												
_____ Address: <u>4913 Albemarle Road, Suite 101, Charlotte, NC 28205</u> Telephone No.: <u>704-563-1663</u>			<b>19. WELL DRILLER: Hollis Keech Cert# 836</b> Address: <u>4913 Albemarle Road, Suite 101, Charlotte, NC 28205</u> Telephone No.: <u>704-563-1663</u>																																												
<b>5. REMARKS:</b> <u>Bentonite 21'-23'</u>			<b>WATER WELL CONTRACTORS CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: <u>[Signature]</u> Date: <u>9/11/02</u> Authorized Representative																																												



**APPENDIX B**

Field Data Information Sheet for Ground-Water Sampling  
 South Carolina Department of Health and Environmental Control  
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 9/19/02  
 Field Personnel: MF  
 General Weather Conditions: Foggy  
 Ambient Air Temperature: 80°F C

**Quality Assurance**

pH Meter serial no. 707039 Conductivity Meter serial no. \_\_\_\_\_  
 pH=4.0  Standard \_\_\_\_\_  
 pH=7.0 \_\_\_\_\_ Standard \_\_\_\_\_  
 pH=10.0 \_\_\_\_\_ Standard \_\_\_\_\_

**Chain of Custody**

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Trucking  
 Site ID # \_\_\_\_\_ Monitoring Well # MW-1  
 Well Diameter (D): .167 feet  
 Conversion factor (C): 3.14 X (D/2)<sup>2</sup> for a 2 inch well C = 0.163  
 for a 4 inch well C = 0.652

\* Free Product Thickness: \_\_\_\_\_ feet  
 Depth to Ground Water (DGW) 30.06 feet  
 Total Well Depth (TWD) 35.79 feet  
 Length of the water column (LWC = TWD-DGW) 5.73 feet

1 casing volume (CV = LWC X C) = 5.73 x .163 = .93 gals  
 3 casing volume 3 X CV = 2.80 gals (standard purge volume)

Total volume of Water Purged Before Sampling 2.25 gals  
 Total volume of Water Purged for Post Sampling \_\_\_\_\_ gals  
2.25 Total Purged

\*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	.25	1.25	2.25					
Time (military)	840	843	845					846
pH (s.u.)	5.4	5.2	5.2					
Specific Cond. (umhos/cm)	.05	.06	.06					
Water Temperature (degrees C)	22	23	23					
Turbidity (subjective: clear, slightly cloudy, cloudy)	cldy	cldy	cldy					
Dissolved Oxygen (mg/l)	4.3	4.8	5.1					
PID readings, if required								
Remarks:								



Field Data Information Sheet for Ground-Water Sampling  
 South Carolina Department of Health and Environmental Control  
 Bureau of Underground Storage Tank Management

Date (mm/dd/yy): 9/19/02  
 Field Personnel: MT  
 General Weather Conditions: Foggy, cloudy  
 Ambient Air Temperature: 80°F C

**Quality Assurance**

pH Meter	Conductivity Meter
serial no. _____	serial no. _____
pH=4.0 _____	Standard _____
pH=7.0 _____	Standard _____
pH=10.0 _____	Standard _____

**Chain of Custody**

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: Interstate Trucking  
 Site ID # \_\_\_\_\_ Monitoring Well # MW-2  
 Well Diameter (D): .167 feet  
 Conversion factor (C): 3.14 X (D/2)<sup>2</sup> for a 2 inch well C = 0.163  
 for a 4 inch well C = 0.652

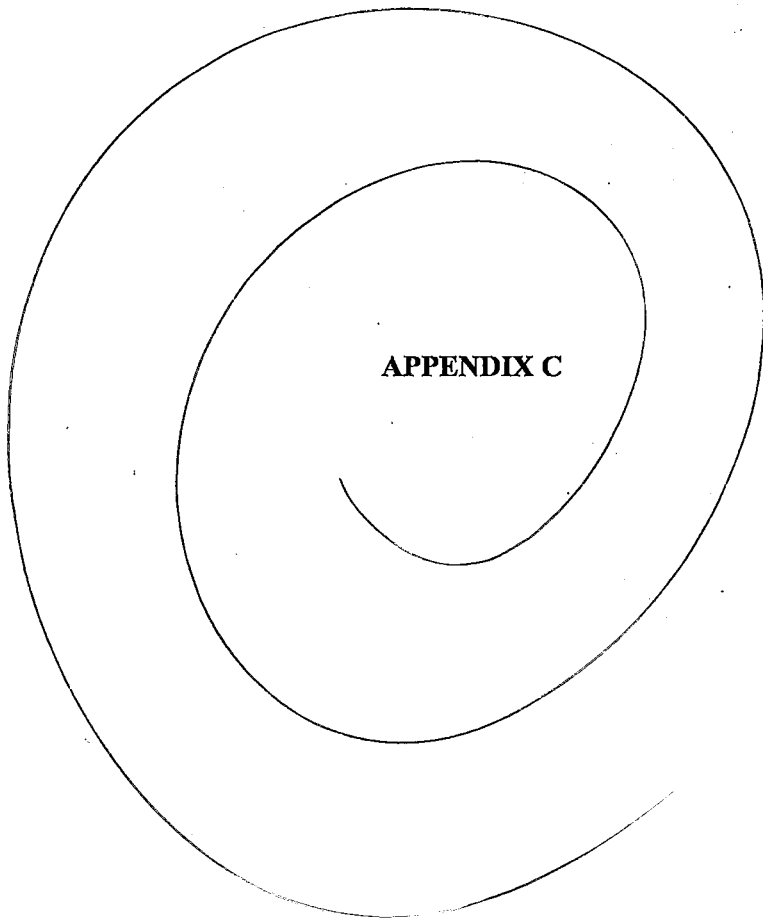
\* Free Product Thickness: \_\_\_\_\_ feet  
 Depth to Ground Water (DGW) 29.88 feet  
 Total Well Depth (TWD) 34.66 feet  
 Length of the water column (LWC = TWD-DGW) 4.78 feet

1 casing volume (CV = LWC X C) = 4.78 x 0.163 = .77 gals  
 3 casing volume 3 X CV = 2.33 gals (standard purge volume)

Total volume of Water Purged Before Sampling 2.25 gals  
 Total volume of Water Purged for Post Sampling \_\_\_\_\_ gals  
2.25 Total Purged

\*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling	Sample
Cumulative Volume Purged (gallons)	.25	1.25	2.25					
Time (military)	814	816	818					820
pH (s.u.)	7.1	6.7	6.7					
Specific Cond. (umhos/cm)	.12	.13	.12					
Water Temperature (degrees C)	23	23	23					
Turbidity (subjective: clear, slightly cloudy, cloudy)	cldy	cldy	cldy					
Dissolved Oxygen (mg/l)	0.4	2.0	1.9					
PID readings, if required								
Remarks:								



**APPENDIX C**



**Pace Analytical Services, Inc.**  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

September 27, 2002

Mr. Mark Beranbrock  
Geological Resources Inc.  
4913 Albemarle Rd.  
Suite 101  
Charlotte, NC 28205

RE: Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

Dear Mr. Beranbrock:

Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2002. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Sherri Howard  
Sherri.Howard@pacelabs.com  
Project Manager

Enclosures

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627



Lab Sample No: 922526983 Project Sample Number: 9236791-001 Date Collected: 09/19/02 08:46  
Client Sample ID: MW-1 Matrix: Water Date Received: 09/20/02 15:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	---------	------	--------

### Metals

Metals by Trace ICP

Prep/Method: EPA 3010 / EPA 6010

Lead	0.025	mg/l	0.0050	1.0	09/24/02 16:47	LBG	7439-92-1		
Date Digested					09/23/02				

### GC/MS Semivolatiles

Semivolatile Organics

Prep/Method: / EPA 8270

Benzo(a)anthracene	ND	ug/l	11.	1.1	09/24/02 15:45	RPJ	56-55-3		
Benzo(b)fluoranthene	ND	ug/l	11.	1.1	09/24/02 15:45	RPJ	205-99-2		
Benzo(k)fluoranthene	ND	ug/l	11.	1.1	09/24/02 15:45	RPJ	207-08-9		
Chrysene	ND	ug/l	11.	1.1	09/24/02 15:45	RPJ	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	11.	1.1	09/24/02 15:45	RPJ	53-70-3		
Nitrobenzene-d5 (S)	72	%		1.0	09/24/02 15:45	RPJ	4165-60-0		
2-Fluorobiphenyl (S)	75	%		1.0	09/24/02 15:45	RPJ	321-60-8		
Terphenyl-d14 (S)	87	%		1.0	09/24/02 15:45	RPJ	1718-51-0		
Date Extracted					09/22/02				

### GC Semivolatiles

EDB and DBCP in Water

Method: EPA 8011

1,2-Dibromoethane (EDB)	ND	ug/l	0.020	1.0	09/27/02	CBE	106-93-4		
1-Chloro-2-bromopropane (S)	102	%		1.0	09/27/02	CBE	301-79-56		

### GC/MS Volatiles

GC/MS VOCs by 8260

Method: EPA 8260

Benzene	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	91-20-3		
Toluene	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	09/24/02 20:10	RWS			
o-Xylene	ND	ug/l	5.0	1.0	09/24/02 20:10	RWS	95-47-6		
Toluene-d8 (S)	95	%		1.0	09/24/02 20:10	RWS	2037-26-5		
4-Bromofluorobenzene (S)	88	%		1.0	09/24/02 20:10	RWS	460-00-4		
Dibromofluoromethane (S)	103	%		1.0	09/24/02 20:10	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	88	%		1.0	09/24/02 20:10	RWS	17060-07-0		

Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

Lab Sample No: 922527007 Project Sample Number: 9236791-002 Date Collected: 09/19/02 08:20  
Client Sample ID: MW-2 Matrix: Water Date Received: 09/20/02 15:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>Metals</b>									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.054	mg/l	0.0050	1.0	09/24/02 16:51	LBG	7439-92-1		
Date Digested	09/23/02								

**GC/MS Semivolatiles**

Semivolatile Organics	Prep/Method:	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Prep/Method: / EPA 8270									
Benzo(a)anthracene	ND	ug/l	11.	1.1	09/24/02 16:17	RPJ	56-55-3		
Benzo(b)fluoranthene	ND	ug/l	11.	1.1	09/24/02 16:17	RPJ	205-99-2		
Benzo(k)fluoranthene	ND	ug/l	11.	1.1	09/24/02 16:17	RPJ	207-08-9		
Chrysene	ND	ug/l	11.	1.1	09/24/02 16:17	RPJ	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	11.	1.1	09/24/02 16:17	RPJ	53-70-3		
Nitrobenzene-d5 (S)	69	%		1.0	09/24/02 16:17	RPJ	4165-60-0		
2-Fluorobiphenyl (S)	77	%		1.0	09/24/02 16:17	RPJ	321-60-8		
Terphenyl-d14 (S)	81	%		1.0	09/24/02 16:17	RPJ	1718-51-0		
Date Extracted	09/22/02								

**GC Semivolatiles**

EDB and DBCP in Water	Method:	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Method: EPA 8011									
1,2-Dibromoethane (EDB)	0.40	ug/l	0.020	1.0	09/27/02		CBE 106-93-4		
1-Chloro-2-bromopropane (S)	95	%		1.0	09/27/02		CBE 301-79-56		

**GC/MS Volatiles**

GC/MS VOCs by 8260	Method:	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Method: EPA 8260									
Benzene	ND	ug/l	500	100	09/24/02 20:26	RWS	71-43-2		
Ethylbenzene	1300	ug/l	500	100	09/24/02 20:26	RWS	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	09/24/02 20:26	RWS	1634-04-4		
Naphthalene	140	ug/l	5.0	1.0	09/24/02 20:26	RWS	91-20-3		
Toluene	3800	ug/l	500	100	09/24/02 20:26	RWS	108-88-3		
m&p-Xylene	3200	ug/l	1000	100	09/24/02 20:26	RWS			
o-Xylene	1100	ug/l	500	100	09/24/02 20:26	RWS	95-47-6		
Toluene-d8 (S)	9490	%		1.0	09/24/02 20:26	RWS	2037-26-5		
4-Bromofluorobenzene (S)	9430	%		1.0	09/24/02 20:26	RWS	460-00-4		
Dibromofluoromethane (S)	9920	%		1.0	09/24/02 20:26	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	8670	%		1.0	09/24/02 20:26	RWS	17060-07-0		

Date: 09/27/02

Page: 2

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

**REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627



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**PARAMETER FOOTNOTES**

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- (S) Surrogate

**REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, Inc.  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

QC Batch: 63695 Analysis Method: EPA 8011  
QC Batch Method: EPA 504.1 Analysis Description: EDB and DBCP in Water  
Associated Lab Samples: 922526983 922527007

METHOD BLANK: 922536461  
Associated Lab Samples: 922526983 922527007

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dibromoethane (EDB)	ug/l	ND	0.020	
1-Chloro-2-bromopropane (S)	%	110		

LABORATORY CONTROL SAMPLE & LCSD: 922536479 922536487

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
1,2-Dibromoethane (EDB)	ug/l	0.2500	0.2922	0.2910	117	116	0	
1-Chloro-2-bromopropane (S)	%				105	101		

SAMPLE DUPLICATE: 922536495

Parameter	Units	20112939 Result	DUP Result	RPD	Footnotes
1,2-Dibromoethane (EDB)	ug/l	ND	ND	NC	
1-Chloro-2-bromopropane (S)	%	117	126		

Date: 09/27/02

Page: 4

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

**REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627

**QUALITY CONTROL DATA**

Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

QC Batch: 63491    Analysis Method: EPA 8270  
QC Batch Method:                                      Analysis Description: Semivolatile Organics  
Associated Lab Samples:                            922526983         922527007

METHOD BLANK: 922528237  
Associated Lab Samples:         922526983         922527007

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzo(a)anthracene	ug/l	ND	10.	
Benzo(b)fluoranthene	ug/l	ND	10.	
Benzo(k)fluoranthene	ug/l	ND	10.	
Chrysene	ug/l	ND	10.	
Dibenz(a,h)anthracene	ug/l	ND	10.	
Nitrobenzene-d5 (S)	%	74		
2-Fluorobiphenyl (S)	%	77		
Terphenyl-d14 (S)	%	97		

LABORATORY CONTROL SAMPLE: 922528245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzo(a)anthracene	ug/l	50.00	37.83	76	
Benzo(b)fluoranthene	ug/l	50.00	45.06	90	
Benzo(k)fluoranthene	ug/l	50.00	58.27	117	
Chrysene	ug/l	50.00	43.55	87	
Dibenz(a,h)anthracene	ug/l	50.00	28.54	57	
Nitrobenzene-d5 (S)				73	
2-Fluorobiphenyl (S)				75	
Terphenyl-d14 (S)				98	

**REPORT OF LABORATORY ANALYSIS**

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QUALITY CONTROL DATA

Lab Project Number: 9236791

Client Project ID: Interstate Truck Term. 00332

MATRIX SPIKE: 922530084

Parameter	Units	922523733	Spike	MS	MS	Footnotes
		Result	Conc.	Result	% Rec	
Benzene	ug/l	0	50.00	41.93	84	
Toluene	ug/l	0	50.00	50.76	102	
Toluene-d8 (S)					111	1
4-Bromofluorobenzene (S)					101	
Dibromofluoromethane (S)					71	1
1,2-Dichloroethane-d4 (S)					74	1

SAMPLE DUPLICATE: 922530100

Parameter	Units	922524848	DUP	RPD	Footnotes
		Result	Result		
Benzene	ug/l	17.00	13.00	24	2
Ethylbenzene	ug/l	24.00	19.00	24	2
Methyl-tert-butyl ether	ug/l	100.0	88.00	15	
Naphthalene	ug/l	9.800	6.600	39	2
Toluene	ug/l	ND	ND	NC	
m&p-Xylene	ug/l	25.00	18.00	28	2
o-Xylene	ug/l	ND	ND	NC	
Toluene-d8 (S)	%	95	95		
4-Bromofluorobenzene (S)	%	90	97		
Dibromofluoromethane (S)	%	100	104		
1,2-Dichloroethane-d4 (S)	%	85	90		

Date: 09/27/02

Page: 7

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627



Lab Project Number: 9236791  
Client Project ID: Interstate Truck Term. 00332

QC Batch: 63509 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: Metals by Trace ICP  
Associated Lab Samples: 922526983 922527007

METHOD BLANK: 922528849  
Associated Lab Samples: 922526983 922527007

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	mg/l	ND	0.0050	

LABORATORY CONTROL SAMPLE: 922528880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.2500	0.2740	110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 922528856 922528864

Parameter	Units	922514237 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	mg/l	0.00551	0.2500	0.2570	0.2710	101	106	5	

SAMPLE DUPLICATE: 922528872

Parameter	Units	922514245 Result	DUP Result	RPD	Footnotes
Lead	mg/l	ND	ND	NC	

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA PARAMETER FOOTNOTES**

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

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- RPD Relative Percent Difference
- (S) Surrogate
- [1] The surrogate and/or spike recovery was outside acceptance limits.
- [2] The calculated RPD was outside QC acceptance limits.

**REPORT OF LABORATORY ANALYSIS**

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# CHAIN-OF-CUSTODY / Analytical Request Document

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

661226

**Required Client Information: Section A**

Company: Geological Resources, Inc.  
Address: 4913 Albemarle Rd. #101  
Charlotte, NC 28205

Phone: 563-1663 Fax: 563-1662

**Required Client Information: Section B**

Report To: Mark Bergbrack  
Copy To: Pat Holland  
Invoice To: Pat Holland  
P.O.  
Project Name: Interstate Truck Terminal  
Project Number: 00332

Page: 1 of 1

**To Be Completed by Pace Analytical and Client Section C**

Quote Reference:  
Project Manager: SNH  
Project #: 9236791  
Profile #: 1126-96  
Requested Analysis:

**Section D Required Client Information:**

**SAMPLE ID**  
One character per box.  
(A-Z, 0-9 / -)  
Sample IDs MUST BE UNIQUE

ITEM	Valid Matrix Codes ←										MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives							Remarks / Lab ID				
	MATRIX	WT	SL	OL	WP	AR	TS	OT	Unpreserved	H <sub>2</sub> SO <sub>4</sub>					HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other						
1	M	W	-	1								WT	9/19/02	0846	92	1	3	3							922526993	
2	M	W	-	2								WT	9/19/02	0820	92	1	3	3								922527000
3																										
4																										
5																										
6																										
7																										
8																										
10																										
11																										
12																										

Diagonal labels: OVEN DRY (2000), PALIS (2000), EDB (2000), PA

Vertical label: TAG

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					[Signature]	9/20	1545	[Signature]	9/20	1545

**SAMPLE CONDITION**

Temp in °C: 3.1

Received on Ice: Y/N

Sealed Cooler: Y/N

Samples Intact: Y/N

**SAMPLE NOTES**

Additional Comments:

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Mark Bergbrack

SIGNATURE of SAMPLER: [Signature]

DATE Signed: (MM / DD / YY) 09/20/02



**Pace Analytical Services, Inc.**  
9800 Kinsey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

September 23, 2002

Ms. Shawn Judd  
Geological Resources Inc.  
4913 Albemarle Rd.  
Suite 101  
Charlotte, NC 28205

RE: Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

Dear Ms. Judd:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 2002. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Sherri Howard  
Sherri.Howard@pacelabs.com  
Project Manager

Enclosures

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627

Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

Solid results are reported on a dry weight basis

Lab Sample No: 922508874      Project Sample Number: 9236496-001      Date Collected: 09/11/02 11:12  
Client Sample ID: MW-1      Matrix: Soil      Date Received: 09/12/02 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	---------	------	--------

**Metals**  
Metals, Trace ICP      Prep/Method: EPA 3050 / EPA 6010  
Lead      110      mg/kg      0.48      1.0 09/22/02 22:33      CBJ      7439-92-1  
Date Digested      09/14/02

**Wet Chemistry**  
Percent Moisture      Method: % Moisture  
Percent Moisture      12.2      %      1.0 09/13/02      CDE

**GC/MS Semivolatiles**  
Semivolatile Organics      Prep/Method: EPA 3550 / EPA 8270

Benzo(a)anthracene	ND	ug/kg	380	1.1	09/16/02 14:07	RPJ	56-55-3		
Benzo(b)fluoranthene	ND	ug/kg	380	1.1	09/16/02 14:07	RPJ	205-99-2		
Benzo(k)fluoranthene	ND	ug/kg	380	1.1	09/16/02 14:07	RPJ	207-08-9		
Chrysene	ND	ug/kg	380	1.1	09/16/02 14:07	RPJ	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	380	1.1	09/16/02 14:07	RPJ	53-70-3		
Nitrobenzene-d5 (S)	81	%		1.0	09/16/02 14:07	RPJ	4165-60-0		
2-Fluorobiphenyl (S)	85	%		1.0	09/16/02 14:07	RPJ	321-60-8		
Terphenyl-d14 (S)	98	%		1.0	09/16/02 14:07	RPJ	1718-51-0		
Phenol-d5 (S)	73	%		1.0	09/16/02 14:07	RPJ	4165-62-2		
2-Fluorophenol (S)	65	%		1.0	09/16/02 14:07	RPJ	367-12-4		
2,4,6-Tribromophenol (S)	82	%		1.0	09/16/02 14:07	RPJ			
Date Extracted					09/15/02				

**GC/MS Volatiles**  
GC/MS VOCs 5035/8260 low level Method: EPA 8260

Benzene	ND	ug/kg	5.7	1.1	09/19/02 20:40	BCK	71-43-2		
Ethylbenzene	ND	ug/kg	5.7	1.1	09/19/02 20:40	BCK	100-41-4		
Naphthalene	ND	ug/kg	5.7	1.1	09/19/02 20:40	BCK	91-20-3		
Toluene	ND	ug/kg	5.7	1.1	09/19/02 20:40	BCK	108-88-3		
m&p-Xylene	ND	ug/kg	11.	1.1	09/19/02 20:40	BCK			
o-Xylene	ND	ug/kg	5.7	1.1	09/19/02 20:40	BCK	95-47-6		
Toluene-d8 (S)	95	%		1.0	09/19/02 20:40	BCK	2037-26-5		
4-Bromofluorobenzene (S)	91	%		1.0	09/19/02 20:40	BCK	460-00-4		
Dibromofluoromethane (S)	100	%		1.0	09/19/02 20:40	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		1.0	09/19/02 20:40	BCK	17060-07-0		

Date: 09/23/02

Page: 1

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

**REPORT OF LABORATORY ANALYSIS**

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LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627



Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

Lab Sample No: 922508882      Project Sample Number: 9236496-002      Date Collected: 09/11/02 21:06  
Client Sample ID: MW-2      Matrix: Soil      Date Received: 09/12/02 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	---------	------	--------

**Metals**

Metals, Trace ICP	Prep/Method: EPA 3050 / EPA 6010								
Lead	4.0	mg/kg	0.56	1.1	09/22/02 22:38	CBJ	7439-92-1		
Date Digested	09/16/02								

**Wet Chemistry**

Percent Moisture	Method: % Moisture								
Percent Moisture	11.4	%		1.0	09/13/02			CDE	

**GC/MS Semivolatiles**

Semivolatile Organics	Prep/Method: EPA 3550 / EPA 8270								
Benzo(a)anthracene	ND	ug/kg	370	1.1	09/16/02 14:42	RPJ	56-55-3		
Benzo(b)fluoranthene	ND	ug/kg	370	1.1	09/16/02 14:42	RPJ	205-99-2		
Benzo(k)fluoranthene	ND	ug/kg	370	1.1	09/16/02 14:42	RPJ	207-08-9		
Chrysene	ND	ug/kg	370	1.1	09/16/02 14:42	RPJ	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	370	1.1	09/16/02 14:42	RPJ	53-70-3		
Nitrobenzene-d5 (S)	98	%		1.0	09/16/02 14:42	RPJ	4165-60-0		
2-Fluorobiphenyl (S)	86	%		1.0	09/16/02 14:42	RPJ	321-60-8		
Terphenyl-d14 (S)	99	%		1.0	09/16/02 14:42	RPJ	1718-51-0		
Phenol-d5 (S)	71	%		1.0	09/16/02 14:42	RPJ	4165-62-2		
2-Fluorophenol (S)	69	%		1.0	09/16/02 14:42	RPJ	367-12-4		
2,4,6-Tribromophenol (S)	81	%		1.0	09/16/02 14:42	RPJ			
Date Extracted	09/15/02								

**GC/MS Volatiles**

GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Benzene	ND	ug/kg	5.0	1.0	09/19/02 21:11	BCK	71-43-2		
Ethylbenzene	ND	ug/kg	5.0	1.0	09/19/02 21:11	BCK	100-41-4		
Naphthalene	100	ug/kg	5.0	1.0	09/19/02 21:11	BCK	91-20-3		
Toluene	ND	ug/kg	5.0	1.0	09/19/02 21:11	BCK	108-88-3		
m&p-Xylene	ND	ug/kg	10.	1.0	09/19/02 21:11	BCK			
o-Xylene	ND	ug/kg	5.0	1.0	09/19/02 21:11	BCK	95-47-6		
Toluene-d8 (S)	90	%		1.0	09/19/02 21:11	BCK	2037-26-5		
4-Bromofluorobenzene (S)	81	%		1.0	09/19/02 21:11	BCK	460-00-4		
Dibromofluoromethane (S)	118	%		1.0	09/19/02 21:11	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	116	%		1.0	09/19/02 21:11	BCK	17060-07-0		

**REPORT OF LABORATORY ANALYSIS**

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PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- (S) Surrogate

**REPORT OF LABORATORY ANALYSIS**

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QUALITY CONTROL DATA

**Pace Analytical Services, Inc.**  
9800 Kinsey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 922513148 922513155

Parameter	Units	922509690	Spike	MS	MSD	MS	MSD	RPD	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec		
Nitrobenzene-d5 (S)						95	103		
2-Fluorobiphenyl (S)						104	110		
Terphenyl-d14 (S)						136	139	1	
Phenol-d5 (S)						86	91		
2-Fluorophenol (S)						83	87		
2,4,6-Tribromophenol (S)						99	105		

SAMPLE DUPLICATE: 922513130

Parameter	Units	922508874	DUP	RPD	Footnotes
		Result	Result		
Benzo(a)anthracene	ug/kg	ND	ND	NC	
Benzo(b)fluoranthene	ug/kg	ND	ND	NC	
Benzo(k)fluoranthene	ug/kg	ND	ND	NC	
Chrysene	ug/kg	ND	ND	NC	
Dibenz(a,h)anthracene	ug/kg	ND	ND	NC	
Nitrobenzene-d5 (S)	%	81	73		
2-Fluorobiphenyl (S)	%	85	82		
Terphenyl-d14 (S)	%	98	101		
Phenol-d5 (S)	%	73	68		
2-Fluorophenol (S)	%	65	59		
2,4,6-Tribromophenol (S)	%	82	81		

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

**REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627



**QUALITY CONTROL DATA**

**Pace Analytical Services, Inc.**  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

QC Batch: 63352                      Analysis Method: EPA 8260  
QC Batch Method: EPA 8260        Analysis Description: GC/MS VOCs 5035/8260 Low Level  
Associated Lab Samples:            922508874      922508882

METHOD BLANK: 922520747  
Associated Lab Samples:        922508874      922508882

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	10.	
o-Xylene	ug/kg	ND	5.0	
Toluene-d8 (S)	%	103		
4-Bromofluorobenzene (S)	%	97		
Dibromofluoromethane (S)	%	100		
1,2-Dichloroethane-d4 (S)	%	100		

LABORATORY CONTROL SAMPLE & LCSD: 922520754 922520762

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	RPD	Footnotes
Benzene	ug/kg	50.00	48.77	47.96	98	96	2	
Ethylbenzene	ug/kg	50.00	48.12	47.00	96	94	2	
Naphthalene	ug/kg	50.00	76.72	36.29	153	73	72	2,3
Toluene	ug/kg	50.00	47.80	46.89	96	94	2	
m&p-Xylene	ug/kg	100.00	95.91	95.60	96	96	0	
o-Xylene	ug/kg	50.00	49.06	48.22	98	96	2	
Toluene-d8 (S)					101	101		
4-Bromofluorobenzene (S)					99	99		
Dibromofluoromethane (S)					101	99		
1,2-Dichloroethane-d4 (S)					96	102		

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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Laboratory Certification IDs  
LA Wastewater 04034  
VA Drinking Water 213  
FL NELAP E87627





**QUALITY CONTROL DATA**

*Pace Analytical Services, Inc.*  
 9800 Kinsey Avenue, Suite 100  
 Huntersville, NC 28078  
 Phone: 704.875.9092  
 Fax: 704.875.9091

Lab Project Number: 9236496  
 Client Project ID: Interstate Terminal/00332

QC Batch: 63144 Analysis Method: EPA 6010  
 QC Batch Method: EPA 3050 Analysis Description: Metals, Trace ICP  
 Associated Lab Samples: 922508874 922508882

METHOD BLANK: 922513023  
 Associated Lab Samples: 922508874 922508882

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	mg/kg	ND	0.50	

LABORATORY CONTROL SAMPLE: 922513064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/kg	25.00	27.50	110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 922529607 922529615

Parameter	Units	922508874 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	mg/kg	113.0	26.37	27.74	29.73	0	0	7	4,4

SAMPLE DUPLICATE: 922513056

Parameter	Units	922503222 Result	DUP Result	RPD	Footnotes
Lead	mg/kg	6.900	ND	NC	

Date: 09/23/02

Page: 7

**REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

Laboratory Certification IDs  
 LA Wastewater 04034  
 VA Drinking Water 213  
 FL NELAP E87627



QUALITY CONTROL DATA

Lab Project Number: 9236496  
Client Project ID: Interstate Terminal/00332

QC Batch: 63110 Analysis Method: % Moisture  
QC Batch Method: Analysis Description: Percent Moisture  
Associated Lab Samples: 922508874 922508882

SAMPLE DUPLICATE: 922511290

Parameter	Units	922511191 DUP		RPD	Footnotes
		Result	Result		
Percent Moisture	%	27.20	27.30	1	

SAMPLE DUPLICATE: 922511852

Parameter	Units	922509419 DUP		RPD	Footnotes
		Result	Result		
Percent Moisture	%	22.00	17.70	21	

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA PARAMETER FOOTNOTES**

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

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- RPD Relative Percent Difference
- (S) Surrogate
- [1] Base/neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
- [2] The surrogate and/or spike recovery was outside acceptance limits.
- [3] The calculated RPD was outside QC acceptance limits.
- [4] The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

**REPORT OF LABORATORY ANALYSIS**

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The Right Chemistry, The Right Solution®

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

512758

**Required Client Information: Section A**

Company: Geological Resources, Inc.

Address: 4913 Albemarle Rd  
Suite 101  
Charlotte NC

Phone: 704-563-1663 Fax: 704-563-1662

**Required Client Information: Section B**

Report To: Mark Berenbrock

Invoice To: Pat Holland

PO: 408994

Project Name: Interstate Terminal

Project Number: 00332

Page: 1 of 1

**To Be Completed by Pace Analytical and Client Section C**

Quote Reference:

Project Manager:

Project #: 36496

Profile #:

Requested Analysis:

ITEM #	Section D Required Client Information:								MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Preservatives					Remarks / Lab ID	
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE												Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
1	M	U	-	1					SL	9-11-07	1112	6	X	X	X	X	X	X	2508874
2	M	U	-	2					SL	9-11-07	2106	6	X	X	X	X	X	X	2508882
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Sample Condition	Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	<u>1.4</u>		<u>Pat Holland</u>	<u>9-12</u>	<u>14:15</u>	<u>[Signature]</u>	<u>9/12</u>	<u>2:15</u>
Received on ICE:	<u>Y / N</u>			<u>9/12</u>	<u>16:00</u>	<u>[Signature]</u>	<u>9/12</u>	<u>16:00</u>
Sealed Cooler:	<u>Y / N</u>							
Samples Intact:	<u>Y / N</u>							

Additional Comments:

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Soel Lemk

SIGNATURE of SAMPLER: [Signature]

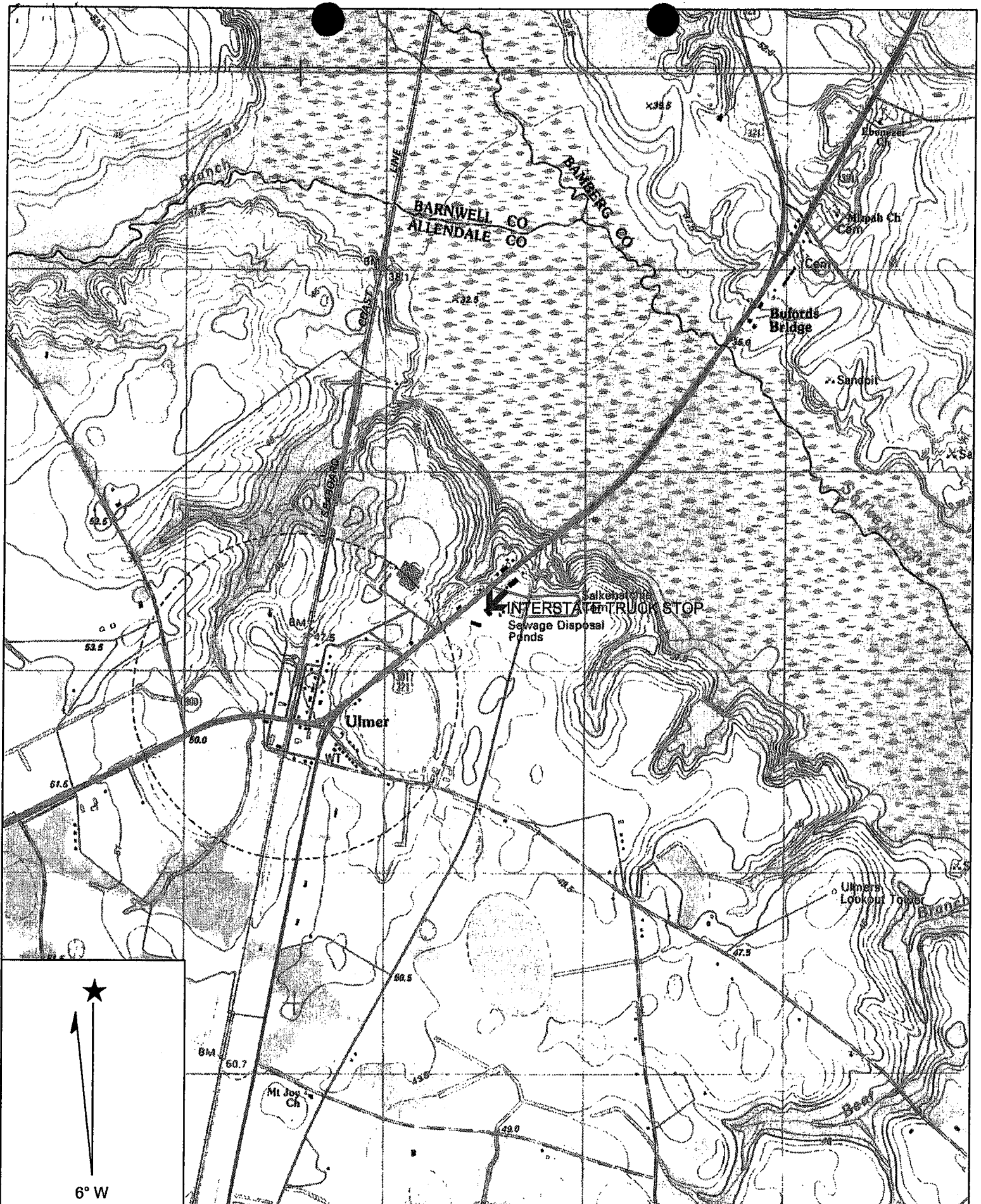
DATE Signed: (MM / DD / YY) 9-11-07

SEE REVERSE SIDE FOR INSTRUCTIONS





**APPENDIX D**



Name: SYCAMORE  
 Date: 10/2/2002  
 Scale: 1 inch equals 2000 feet

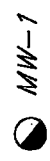
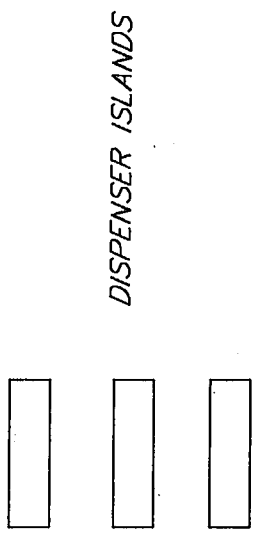
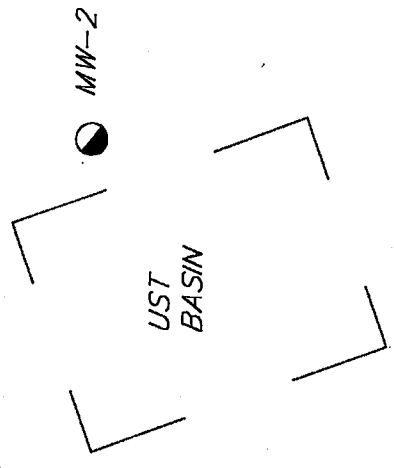
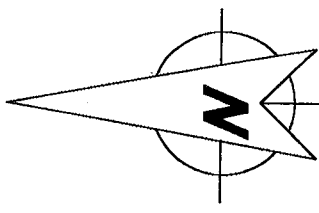
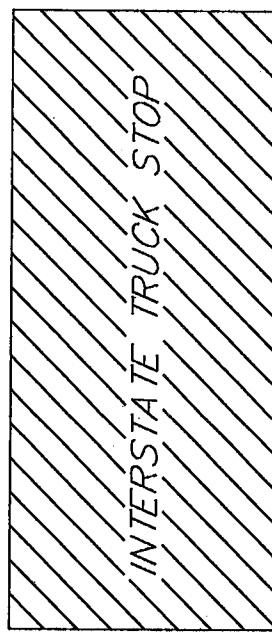
Location: 033° 06' 03.8" N 081° 11' 53.1" W  
 Caption: SITE LOCATION MAP  
 Interstate Truck Stop  
 Figure 1



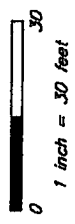
**APPENDIX E**

**LEGEND**

● MW-1 TYPE II MONITORING WELL



MW-1



H W Y 3 0 1

SITE MAP	
Interstate Truck Stop	1375 Capernaum Rd
Ulmer, Allendale County, SC	
Date: 10/02/02	Drawn by: MDE
Figure: 2	
GEOLOGICAL RESOURCES, INC.	

The image features three concentric circles centered on the page. The circles are drawn with thin black lines. The text 'APPENDIX F' is centered within the innermost circle.

**APPENDIX F**



**HAZ~MAT**  
 TRANSPORTATION AND DISPOSAL  
 P. O. BOX 37392 • CHARLOTTE, N.C. 28237  
 (704) 332-5600  
 FAX (704) 375-7183

13618

Manifest No. \_\_\_\_\_

P.O. No. \_\_\_\_\_

Job No. \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE**

**Section I. GENERATOR** (Generator complete all of Section I)

**GENERATOR LOCATION**  
 NAME 7.5000000000000000  
 ORIGINATING ADDRESS 1103 Dalton Ave  
 MAILING ADDRESS \_\_\_\_\_  
 CITY Charlotte ST ATE NC ZIP 28205  
 PHONE NO. 704-332-1168  
 CONTACT NAME Shawn Judd  
 DES. OF WASTE: 112

**WORK CONTRACTED BY**  
 Bill To (If different from Information at left)  
 NAME HAZ-MAT TRANSPORTATION AND DISPOSAL  
 ADDRESS 1103 Dalton Ave  
 CITY Charlotte ST ATE NC ZIP 28205  
 PHONE NO. 704-332-1168  
 CONTACT NAME Shawn Judd

No.	Type	Units	Quantity

**Section II. INVOICE INFORMATION** **GALLONS** **DRUMS**

DESCRIPTION	QUANTITY	LINE TOTAL
1. WATER, OIL & COOLANT PUMPED FROM TANKS OR DRUMS		
2. OFF SPEC LIGHT OIL, WATER & GAS PUMPED FROM TANKS OR DRUMS		
3. 55 GALLON DRUMS REMOVED - SOLID		
4. 55 GALLON DRUMS REMOVED - LIQUID		
5.		
6.		
7.		
8.		
9. SERVICE CHARGE		
10. TRANSPORTATION		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name \_\_\_\_\_ Signature \_\_\_\_\_ Shipment Date 07 20 02

**Section III. TRANSPORTER** (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-j)

**HAZ~MAT**  
 TRANSPORTATION AND DISPOSAL  
 P. O. BOX 37392 • CHARLOTTE, N.C. 28237

a. Driver Name / Title \_\_\_\_\_  
 b. Phone No. \_\_\_\_\_ c. Truck No. \_\_\_\_\_

Hazardous Waste Transporter Permits  
 EPA NCR 000003186  
 EPA NCD048461370

d. Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_

**TRANSPORTER II**

e. Name Global Environmental Services Inc.  
 f. Address 1103 Dalton Ave #100  
 g. Driver Name / Title Shawn Judd  
 h. Phone No. 704-332-1168 i. Truck No. \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_

Driver Signature \_\_\_\_\_ Shipment Date 07 20 02

**Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL**

Site Name: Haz-Mat Transportation & Disposal, Inc. a. Phone No. 704-332-5600  
 Physical Address: 210 Dalton Avenue b. Mailing Address: P.O. Box 37392  
Charlotte, N.C. 28237 Charlotte, N.C. 28237

a. Discrepancy Indication Space \_\_\_\_\_  
 This is to certify that all non-hazardous material removed from above location has been received and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation, then into the CMUD sanitation sewer system under permit IUP#5012. (3) Sludges from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT \_\_\_\_\_ DATE \_\_\_\_\_ MONTH \_\_\_\_\_ DAY \_\_\_\_\_ YEAR \_\_\_\_\_



35638

P.O. Box 18690 • GREENSBORO, NC 27416-0590 • (336) 273-2718

# MATERIAL MANIFEST

MANIFEST # 35638

F.S.E. JOB #                     

Date: 9-11-02

Generator: INTERSTATE TRK STOP  
UMER St

Phone No:                     

EPA ID No:                     

Process which generated material:  
I certify that the materials described below are properly classified, packaged, marked & labeled, and are in the proper condition to be transported as specified by the Department of Transportation. I certify that the material described below is not a hazardous waste in accordance with the Environmental Protection Agency. I certify that the specific material was delivered to the carrier named below for transport to the facility indicated.

Date 9-11-02 Signature [Signature]

HAZ	PROPER SHIPPING NAME AS LISTED ON 172.101 TABLE	HAZ CLASS	DOT I.D. NUMBER	PG GROUP	QUANTITY	CIRCLE UNIT	CONTAINER NO. TYPE	ERG. NO.
	NON-HAZ NON-FLAM	UN 3000	HA	I II III	20	Gals. Pounds Tons Cu. Yds.	TT DT CM DM DF	

## FOUR SEASONS ENVIRONMENTAL USE ONLY

DESCRIPTION OF MATERIAL	CONTAINER NUMBER	CIRCLE FORM	AMOUNT SOLIDS		AMOUNT LIQUIDS	
			GALLONS	TONS	NO. DRUMS	GALLONS
Pollut H2O	DM	SOLID LIQUID SLUDGE				20

### FACILITY USE ONLY

Transporter: GENERAL RESOURCES  
9415 RUSSELL RD  
CAROLINA NC

Unit Number: (s)                     

Phone No:                     

EPA ID No:                     

Vehicle License Tag Number: (s) PWT-353L

Container:                     

Transporter Certification:  
I certify that the specified material was transferred in a registered (licensed) vehicle to the facility named and was accepted.

Pick-up Driver's Signature: [Signature] Date: 9-11-02

Delivering Driver's Signature: [Signature] Date: 9-11-02

Facility: RENEW SURFACES  
4120 OLD DANVILLE RD  
CAROLINA NC

Phone No:                     

Contact: CMR

Handling Method: P75032

Facility Certification:  
I certify that the transporter above delivered the specified material to this facility and was handled in the above listed handling method. We authorize and qualify by the State of NC to handle this material.

Date: 9-11-02 Signature: [Signature]

P.O. BOX 18580 • GREENSBORO, NC 27416-0580 • (336) 273-2718

## MATERIAL MANIFEST

MANIFEST # 35637

F&E JOB # 35637

Date: 9-12-02

Generator: INTERSTATE TRK STOP  
ULMER SC

Phone No: \_\_\_\_\_  
EPA ID No: \_\_\_\_\_

Process which generated material: \_\_\_\_\_  
I certify that the materials described below are properly classified, packaged, marked & labeled, and are in the proper condition to be transported as specified by the Department of Transportation. I certify that the material described below is not a hazardous waste in accordance with the Environmental Protection Agency. I certify that the specific material was delivered to the carrier named below for transport to the facility indicated.

Date 9-11-02 Signature: [Signature]

HAZ	PROPER SHIPPING NAME <small>AS LISTED ON 172.101 TABLE</small>	HAZ CLASS	DOT I.D. NUMBER	PG GROUP	QUANTITY	CIRCLE UNIT <small>Gals. Pounds Tons Cu. Yds.</small>	CONTAINER NO. TYPE	ERG. NO.
	NON-HAZ NON-REG	UN 0000	NA	I II III	1		TT DT CM DM DF	

### FOUR SEASONS ENVIRONMENTAL USE ONLY

DESCRIPTION OF MATERIAL	CONTAINER NUMBER	CIRCLE FORM		AMOUNT SOLIDS		AMOUNT LIQUIDS	
		SOLID	LIQUID	GALLONS	TONS	NO. DRUMS	GALLONS
DRILL CUTTINGS	DM 1	<input checked="" type="radio"/>		55			55

### FACILITY USE ONLY

Transporter: GREENHILL AIR SERVICES, INC  
4415 ALEXANDER DR  
CAROLINA, NC 28205

Whit Number (s): \_\_\_\_\_  
Phone No: \_\_\_\_\_  
EPA ID No: \_\_\_\_\_

Vehicle License Tag Number (s): AP - FWJ - 3636 Container: \_\_\_\_\_

Transporter Certification: [Signature]  
I certify that the specified material was transferred in a registered (licensed) vehicle to the facility named and was accepted.

Pick-up Driver's Signature: [Signature] Date: 9-11-02

Delivering Driver's Signature: [Signature] Date: 9-12-02

Facility: FOUR SEASONS  
1470 SW BIRNIE DR  
CAROLINA, NC

Phone No: \_\_\_\_\_  
Contact: CHAS

Handling Method: P75032 + P75041

Facility Certification: I certify that the transporter above delivered the specified material to this facility and was handled in the above listed handling method. We authorize and qualify by the State of NC to handle this material.

Date: 9-12-02 Signature: [Signature]



00 ● 24, 2002 Hector Avella

size (acres) <sup>.59 acres</sup> ~~2265~~  $ft^2$

zoned? none

# bldgs & size

delinquent? No 2005  
478 97

assessed value? 3,700 land  
12,800 bldg

assessor Harvey Rouse  
803 584-2572

tax collector

Elaine Ferguson  
803 584-4040

UST PROGRAM  
DOCKETING #

43T



RECEIVED

OCT 02 2002

Underground Storage  
Tank Program

September 30, 2002

Mr. Mark Berenbrok, UST Field Coordinator  
Regulatory Compliance Division  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

RE: UST Petroleum Product Removal Contract #SB-20163-7/30/02-EMW  
UST Permit # 00332

Dear Mr. Berenbrok:

Based on the award of the referenced contract, the South Carolina Department of Health and Environmental Control (SCDHEC) provided Purchase Order #424708-2 to H<sub>2</sub>O Environmental, Inc. (H<sub>2</sub>O) to perform petroleum product removal at the Interstate Truck Terminal, Inc. in Ulmer, South Carolina. On September 13, 2002, Nu-Way Industrial Services mobilized to the site and removed 746 gallons of petroleum product. The non-hazardous waste manifest is provided as Attachment 1. An invoice is enclosed.

Should you have any questions or require any additional information, please do not hesitate to contact me at (803) 749-4080.

H<sub>2</sub>O Environmental, Inc.  
Class I Site Rehabilitation Contractor No. 32

Richard D. Gillespie, P.G.  
Senior Geologist

UST PROGRAM  
DOCKETING # 38 R

H<sub>2</sub>O ENVIRONMENTAL, INC.  
ASSESSMENT & REMEDIATION SPECIALISTS

130 Centrum Drive, Suite 3B • Irmo, South Carolina 29063 • 803•749•4080 • Fax 803•749•9911

Sep. 23. 2002 9:40AM

NU-WAY INDUSTRIAL SERVICES

No. 1582 P. 2

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No. 22306

2. Page 1 of 1

3. Generator's Name and Mailing Address

SC DHEC SITE # 00332  
INTERSTATE TRUCK TERMINAL  
HWY 301 & 321  
ULMER, SC 29849

4. Generator's Phone ( 803) 749-4080

5. Transporter 1 Company Name  
NU-WAY INDUSTRIAL SVC., INC.

6. US EPA ID Number  
SCD987596331

A. Transporter's Phone  
803-957-9175

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

NU-WAY ENVIRONMENTAL, INC.  
1741 CALKS FERRY ROAD  
LEXINGTON, SC 29073

10. US EPA ID Number

C. Facility's Phone

803-957-9175

11. Waste Shipping Name and Description

12. Containers

13. Total Quantity

14. Unit Wt/Vol

a. NON-REGULATED, NON-HAZARDOUS MATERIAL  
(WASTE FUEL / WATER)

.001 TT 7.46 G

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

RECEIVED

15. Special Handling Instructions and Additional Information

EMERGENCY CONTACT: CHRIS RABLEY 803-957-9175  
NIS JOB 22672

OCT 02 2002

Underground Storage Tank Program

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Richard Gillespie, H.D.

Signature

*Richard Gillespie*

Month Day Year

10/9/02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

ROBERT TOWNSEND

Signature

*Robert Townsend*

Month Day Year

10/9/02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

CHRIS RABLEY

Signature

*Chris Rabley*

Month Day Year

10/9/02

ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone (803) 896-6240 Fax (803) 896-6245

October 31, 2002

Mr. John Hess, Jr., P.G.  
Geological Resources, Inc.  
4913 Albemarle Road, Suite 101  
Charlotte, North Carolina 28205

Re: Interstate Truck Terminal  
Highways 301 & 321, Ulmer, SC, Allendale County  
Permit ID #00332  
Initial Ground Water Assessment Report dated October 7, 2002

Dear Mr. Hess:

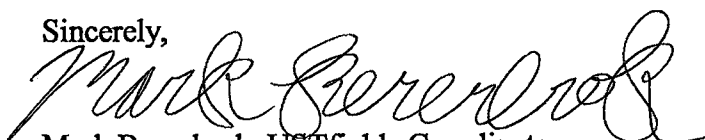
The Underground Storage Tank (UST) Program has reviewed the Initial Ground Water Assessment Report for the Interstate Truck Terminal. Based upon observations made during the installation of the monitoring wells and review of the report, there are several discrepancies that must be addressed.

- The value for **Naphthalene** for the **Soil Analytical Data** table for MW-2 should be 0.100 rather than <0.100;
- The value for **Benzo(a)anthracene** for the **Soil Analytical Data** table for MW-2 should be <0.370 rather than <3.70;
- The value for **Benzo(b)fluoranthene** for the **Soil Analytical Data** table for MW-2 should be <0.370 rather than <0.70;
- Based upon field observations, it appears that MW-1 and MW-2 have been mislabeled on the **Site Map**. MW-1 was installed adjacent to the UST basin, and MW-2 was installed between the dispenser islands and Highway 301.
- Soil samples taken during monitoring well installation (for subsequent analysis) should be split so that a portion of the sample is stored on ice while the remainder of the sample is used for OVA analysis. For those sample(s) subsequently selected for chemical analysis, the portion of the sample that has been stored on ice should be submitted for analysis. This comment had previously been provided to Geological Resources during a telephone conversation with Shawn Judd.

I would appreciate a response and a corrected report if you concur with the above comments. If you have any questions or comments, please contact me at (803) 896-6848.

UST PROGRAM  
DOCKETING # 31 R

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Berenbrok". The signature is written in a cursive style with a large, looping initial "M".

Mark Berenbrok, USTfields Coordinator  
Regulatory Compliance Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management

MKB/mkb  
00332-08:DOC

cc: Robert Hutchinson, UST Program  
Chris Doll, UST Program



C. Earl Hunter, Commissioner

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

**OCT 17 2006**

JOE GIOULD  
CONSULTECH ENVIRONMENTAL  
PO BOX 5306  
CARY NC 27512-5306

Re: Interstate Truck Terminal, Hwy 301 & 321, Ulmer, SC  
UST Permit #00332, CA #28127  
Release Reported June 21, 2002  
Allendale County

Dear Mr. Giould:

The UST Program has reviewed the referenced request and associated cost by Consultech, Environmental, Inc., and agrees the use of another field screening technology for approval, such as a FID is appropriate.

Please submit a separate invoice for costs associated with rental of the FID. Consultech Environmental, Inc. can submit an invoice for direct billing. All rental receipts must be included with the invoice. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

On all correspondence regarding this matter, please reference UST Permit #00332 and CA #28127. If you have any questions concerning this correspondence, please contact me at (803) 896-6395, fax me at (803) 896-6245, or e-mail me at [johnsoms@dhec.sc.gov](mailto:johnsoms@dhec.sc.gov).

Sincerely,

Minda Johnson, Hydrogeologist  
Assessment Section  
Assessment and Corrective Action Division  
Underground Storage Tank program  
Bureau of Land and Waste Management

enc.: Approved Cost Agreement

cc: Technical File (w/enc)

**UST PROGRAM  
DOCKETING #** 317

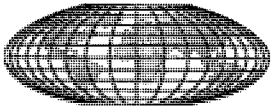
# Approved Cost Agreement 08127

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

JOHNSOMS

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
18 MISCELLANEOUS		RENTAL EQUIPMENT	1.0000	450.00	450.00
19 RPT/PROJECT MNGT & COORDINATIO		PCT PERCENT	0.0300	450.00	13.50
			<b>Total Amount</b>		<b>463.50</b>



# CONSULTECH ENVIRONMENTAL, INC.

October 31, 2006

Ms. Minda Johnson, Hydrogeologist  
Assessment Section  
Assessment & Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land & Waste Management  
South Carolina DHEC  
2600 Bull Street  
Columbia, South Carolina 29201

SCANNED

RE: Tier II Assessment Report  
Interstate Truck Terminal  
Highway 301/ 321  
Ulmer, South Carolina  
SCDHEC Site ID #332, CA#26142

Dear Ms. Johnson,

Consultech is pleased to submit this copy of the Tier II Assessment Report, prepared for the above referenced facility in accordance with the Tier II Assessment Plan (Tier II) document dated March 15, 2000, and contract SB-26861-10/26/04-EMW dated November 15, 2004, as authorized by the South Carolina Department of Health and Environmental Control (SCDHEC).

If you should have any questions about this report, please do not hesitate to contact me at (919) 858-5350.

Sincerely,

CONSULTECH ENVIRONMENTAL, INC.

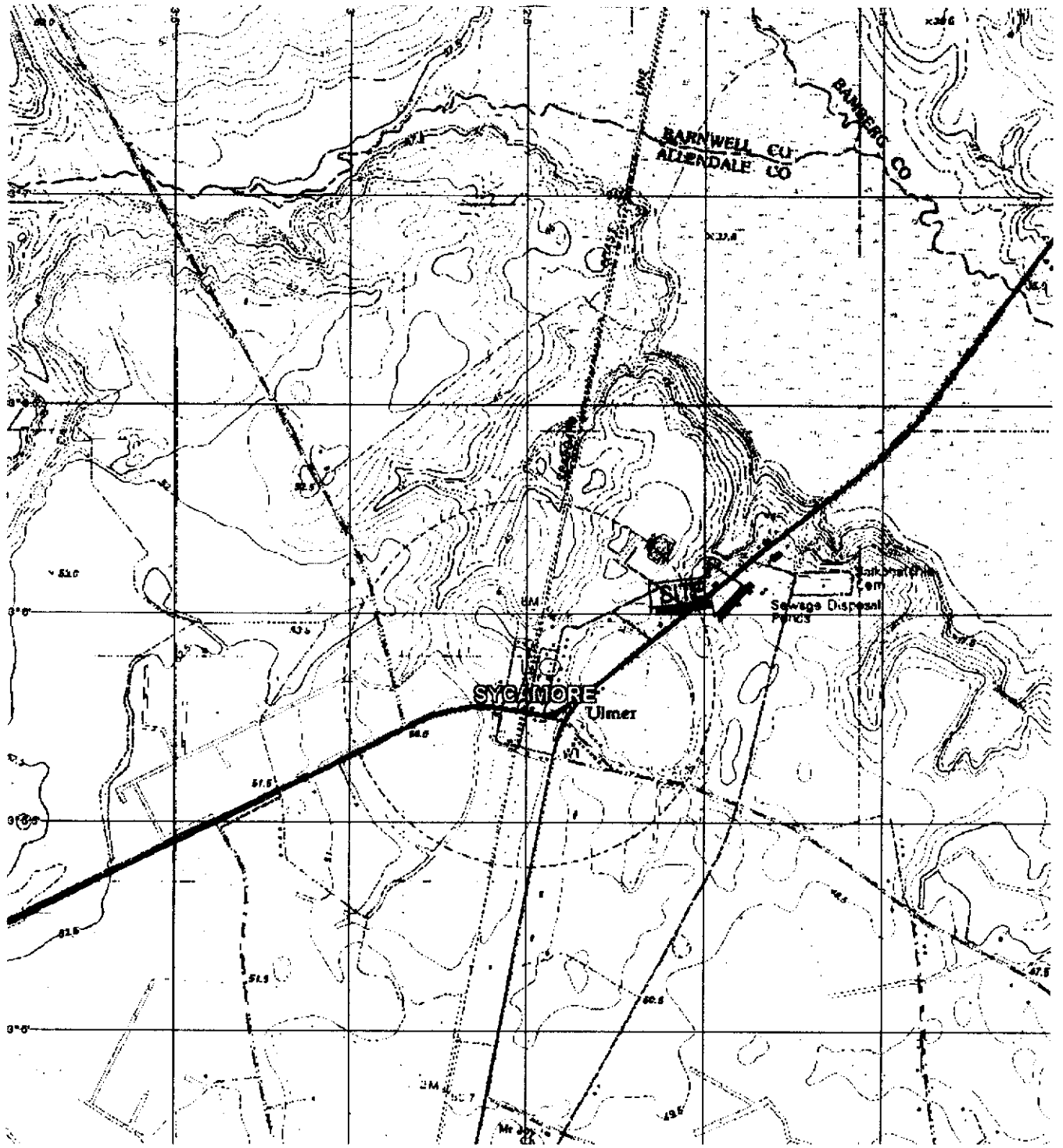
Raj B. Shah, P.E.  
Technical Director

cc: File C-05-05-032

P.O. Box 5306 Cary, NC 27512  
(919) 858-5350 FAX (919) 858-5351

UST PROGRAM  
DOCKETING # 30-J

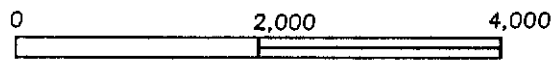




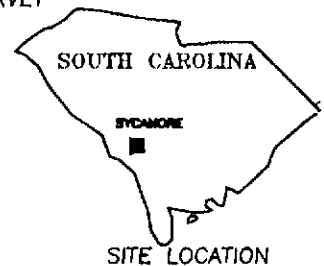
REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP. 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



SCALE 1: 24,000



SCALE IN FEET



DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

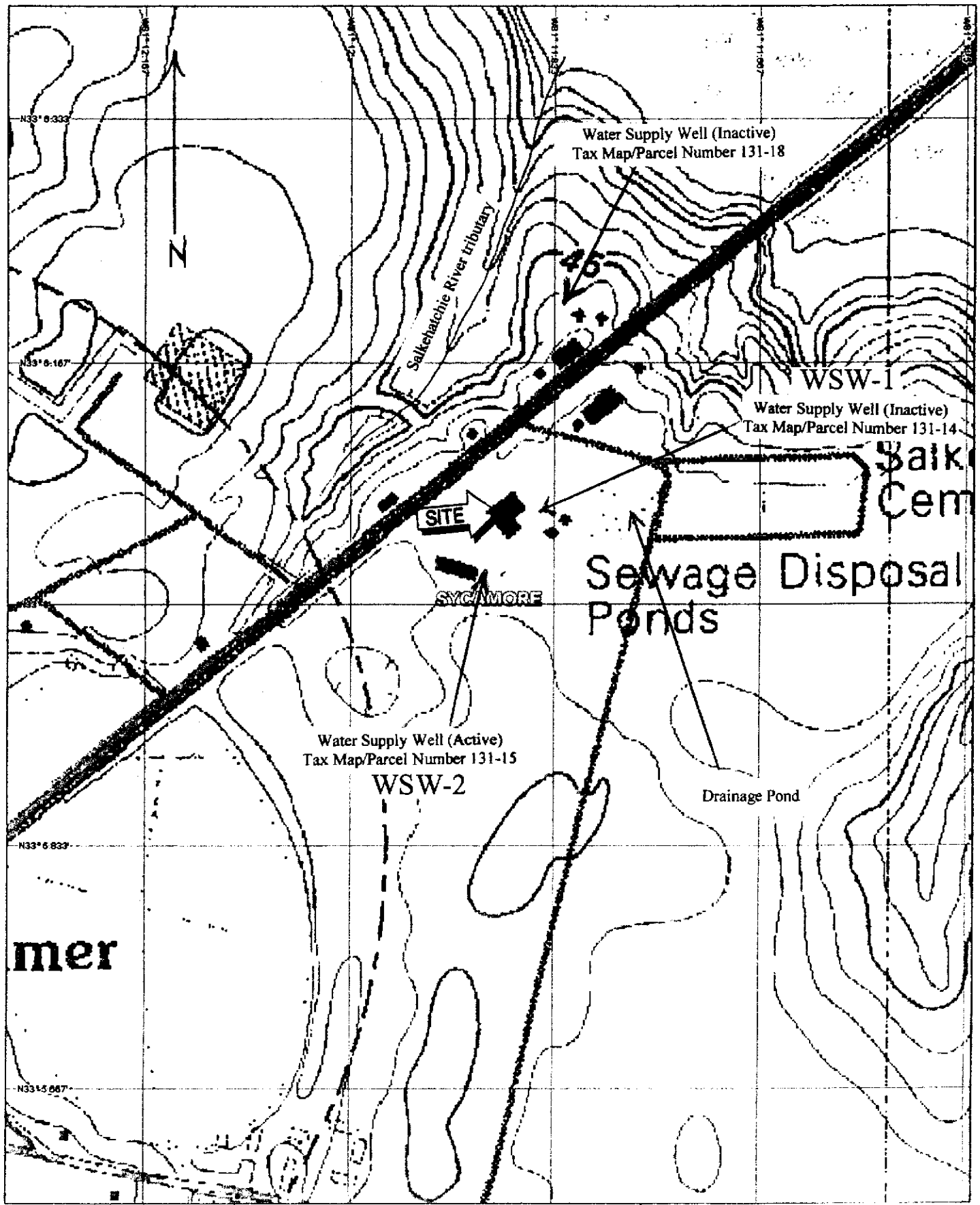
FIGURE 1  
SITE LOCATION MAP

CONSULTECH ENVIRONMENTAL, INC.



Environmental Consulting  
and Engineering  
© 1998

Delivering innovative solutions to today's environmental concerns



APPENDIX 1

APPROXIMATE SCALE 1 INCH = 533 FEET



C. Earl Hunter, Commissioner

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

**JUN 23 2006**

MS MARY ANN JOHNSON  
155 BIRD DOG ROAD  
ERHARDT SOUTH CAROLINA 29081

Re: Interstate Truck Terminal, Hwy 301 & 321, Ulmer, SC  
UST Permit # 00332  
Adjacent property  
Telephone conversation June 16, 2006

Dear Ms. Johnson:

In response to your request for information about environmental conditions and liability associated with the referenced facility and adjacent property, the following is provided.

Our records indicate that nine (9) Underground Storage Tanks (USTs) were registered with the Department by the Julius Moody. The registered UST were emptied on September 13, 2002, but were not properly abandoned. An assessment report received in October 2002 documented a release of petroleum products in the vicinity of the dispenser. Assessment activities were conducted to determine if there were any environmental impacts. A Tier II Assessment report will be submitted to the UST Program upon completion of this assessment.

Should the potential exist for petroleum chemicals of concern to migrate onto an adjacent property, the UST owner/operator and the Department may require access during reasonable hours to perform necessary rehabilitation activities. All rehabilitation activities associated with the petroleum impact are the responsibility of Julius Moody. You should be aware that there are currently no laws or regulations that prohibit the use or development of adjacent properties and properties where a petroleum release has occurred.

If you have any questions, please do not hesitate to call me at (803) 896-6395.

Sincerely,

Minda Johnson, Hydrogeologist  
Assessment Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program

cc: Mr. Julius Moody, Rt. 3 Box 192 B, Bamberg, SC 29003-9501  
Mr. Carlyle Moody, 1375 Capernum Road, Bamberg, SC 29003  
Mr. William Myrick, Jr., PO Box 555, Allendale, SC 29810  
Technical File

UST PROGRAM  
DOCKETING # 337



C. Earl Hunter, Commissioner

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

**APR 12 2006**

**JAMES WILSON  
CONSULTECH ENVIRONMENTAL  
1800 MACLEOD DR STE F  
LAWRENCEVILLE GA 30043-5736**

Re: Interstate Truck Terminal, Hwy 301 & 321, Ulmer, SC  
UST Permit 00332, CA 26142, MWA #UMW- 19702  
Bid Specification SB-26861-10/26/04-EMW; PO #557699  
Tier II Plan received December 8, 2005  
Allendale County

Dear Mr. Wilson:

The Underground Storage Tank (UST) Program has reviewed the Tier II Assessment Plan and associated Cost Agreement for the referenced site. Assessment activities should begin immediately upon receipt of this letter.

Cost agreement number 26142 has been approved in the amount shown on the enclosed cost agreement spreadsheet and will be kept on file so that compensation can begin. **The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with bid number SB-26861-10/26/04-EMW.** Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable. The SCDHEC reserves the right to audit project records at any time during the project or after completion of the work. **The Tier II Assessment Report (1 hardcopy and 1 electronic copy) and invoice should be submitted within 60 days from the date of this correspondence.** Please note the following adjustments to the submitted cost agreement:

- Borings should not exceed the depth of the water table, unless the boring is intended to determine the target depth for the deep monitoring wells.
- The use of a PID to field screen groundwater samples is not appropriate. Please propose another field screening technology for approval, such as a FID.
- Monitoring well installation has been approved for 450 feet for fourteen (if necessary) shallow wells. Please note that the screens of the permanent monitoring wells must bracket the water table, and all monitoring well locations must be technically justified or installation costs will not be approved. Field screening points converted to wells will be compensated at the permanent well installation rate.

A copy of the approved assessment cost agreement is enclosed for your information. Consultech Environmental, Incorporated can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Future invoices and/or other criteria included therein must comply with current SUPERB criteria per Section 44-2-20(2). Please reference cost agreement number 26142 on all pertinent invoices and correspondence. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the Department is obtained. If for any reason there is a change in this cost agreement, any associated changes must be pre-approved by this Department in order for Consultech Environmental, Inc. to seek future cost compensation.

UST PROGRAM  
DOCKETING # 335

Any item(s) not clearly or completely addressed in the report (SC certified driller's number, disposal manifest for soil cuttings, disposal manifests for generated ground water, etc.) WILL NOT be compensated by the SUPERB Account. As agreed to in the referenced contract, the owner/operator of the referenced facility will not be responsible for any costs associated with this assessment.

Monitoring well approval for seventeen (17) monitoring wells is enclosed for your records. Please note that all applicable South Carolina certification requirements regarding laboratory analyses, well installation, and report preparation must be met.

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

On all correspondence regarding this site, please reference the UST Permit # 00332 and Cost Agreement # 26142. If you have questions concerning this correspondence, or would like to submit additional information, please contact me at (803) 896-6395, fax me at (803) 896-6245, or e-mail me at johnsoms@dhec.sc.gov.

Sincerely,



Minda Johnson-Schmiedel, Hydrogeologist

Assessment Section

Assessment & Corrective Action Division

Bureau of Land & Waste Management

enc: Approved Cost Agreement  
Monitoring Well Approval

cc: Mr. William E. Myrick, Jr., PO Box 555, Allendale, SC 29810  
Mr. Carlyle Moody, 1375 Capernaum Rd., Bamberg, SC 29003  
Mr. Julius Moody, 1375 Capernaum Rd, Ulmer, SC 29003  
Technical File (w/ enc.)



C. Earl Hunter, Commissioner

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

## Monitoring Well Approval

**Approval is hereby granted to:** Consultech Environmental, Inc.  
**(On behalf of):** Julius Moody  
**Facility:** Interstate Truck Terminal, US Highway 301/321  
Ulmer, SC  
**UST Permit Number:** 00332  
**County:** Allendale

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

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

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to the Department within 30 days after well completion or abandonment, unless another schedule has been approved by the Department. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to the project manager (tel: (803) 896-6395 or e-mail: johnsoms@scdhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Departmental approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

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

**Date of Issuance:** December 11, 2005

**Approval #:** UMW-19702

Minda Johnson-Schmiedel, Hydrogeologist  
Assessment Section  
Division of Assessment and Corrective Action  
Bureau of Land and Waste Management

# Approved Cost Agreement 26142

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

JOHNSOMS

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A PLAN PREPARATION	1.0000	50.00	50.00
		B TAX MAPS	1.0000	50.00	50.00
02 RECEPTOR SURVEY		RECEPTOR SURVEY	1.0000	50.00	50.00
03 COMPREHENSIVE SURVEY		COMPREHENSIVE SURVEY	1.0000	600.00	600.00
04 MOB/DEMOB		A EQUIPMENT	2.0000	125.00	250.00
		B PERSONNEL	4.0000	30.00	120.00
06 SOIL BORINGS (DRILLED)		A SOIL BORINGS & FLD SCREENING	1,100.0000	10.00	11,000.00
09 WELL INSTALLATION		B WATER TABLE (DRILLED)	450.0000	25.00	11,250.00
		C TELESCOPING	210.0000	30.00	6,300.00
10 SAMPLE COLLECTION		A GROUND WATER	22.0000	30.00	660.00
		C WATER SUPPLY	1.0000	15.00	15.00
		E GAUGE WELL ONLY	5.0000	15.00	75.00
11 ANALYSES	GW GROUNDWATER	A BTEX+NAPTH+MTBE	23.0000	31.50	724.50
		B RUSH BTEX ANALYSIS	6.0000	63.00	378.00
		E LEAD	23.0000	6.50	149.50
		F EDB	23.0000	30.50	701.50
		K NITRATE	22.0000	16.00	352.00
		L SULFATE	22.0000	13.50	297.00
		M FERROUS IRON	22.0000	8.50	187.00
		N METHANE	22.0000	37.00	814.00
		P 8 OXYGENATES	23.0000	63.00	1,449.00
12 AQUIFER CHARACTERIZATION		B SLUG TEST	3.0000	30.00	90.00
15 RISK EVALUATION		B TIER II	1.0000	150.00	150.00
17 DISPOSAL		A1 WASTEWATER - PURGING/SAMPLING	5.0000	90.00	450.00
		C SOIL (TREATMENT/DISPOSAL)	45.0000	50.00	2,250.00
19 RPT/PROJECT MNGT & COORDINATIO		PCT PERCENT	0.0300	38,412.50	1,152.38
				<b>Total Amount</b>	<b>39,564.88</b>



C. Earl Hunter, Commissioner

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

## Monitoring Well Approval

**Approval is hereby granted to:** Consultech Environmental, Inc.  
**(On behalf of):** Julius Moody  
**Facility:** Interstate Truck Terminal, US Highway 301/321  
Ulmer, SC  
**UST Permit Number:** 00332  
**County:** Allendale

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

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

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to the Department within 30 days after well completion or abandonment, unless another schedule has been approved by the Department. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to the project manager (tel: (803) 896-6395 or e-mail: johnsoms@scdhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Departmental approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

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

**Date of Issuance:** December 11, 2005

**Approval #:** UMW-19702

**Minda Johnson-Schmiedel, Hydrogeologist**  
**Assessment Section**  
Division of Assessment and Corrective Action  
Bureau of Land and Waste Management

UST PROGRAM  
DOCKETING # 211



# Approved Cost Agreement 26142

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

JOHNSOMS

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A PLAN PREPARATION	1.0000	50.00	50.00
		B TAX MAPS	1.0000	50.00	50.00
02 RECEPTOR SURVEY		RECEPTOR SURVEY	1.0000	50.00	50.00
03 COMPREHENSIVE SURVEY		COMPREHENSIVE SURVEY	1.0000	600.00	600.00
04 MOB/DEMOB		A EQUIPMENT	2.0000	125.00	250.00
		B PERSONNEL	4.0000	30.00	120.00
06 SOIL BORINGS (DRILLED)		A SOIL BORINGS & FLD SCREENING	1,100.0000	10.00	11,000.00
09 WELL INSTALLATION		B WATER TABLE (DRILLED)	450.0000	25.00	11,250.00
		C TELESCOPING	210.0000	30.00	6,300.00
10 SAMPLE COLLECTION		A GROUND WATER	22.0000	30.00	660.00
		C WATER SUPPLY	1.0000	15.00	15.00
		E GAUGE WELL ONLY	5.0000	15.00	75.00
11 ANALYSES	GW GROUNDWATER	A BTEX+NAPTH+MTBE	23.0000	31.50	724.50
		B RUSH BTEX ANALYSIS	6.0000	63.00	378.00
		E LEAD	23.0000	6.50	149.50
		F EDB	23.0000	30.50	701.50
		K NITRATE	22.0000	16.00	352.00
		L SULFATE	22.0000	13.50	297.00
		M FERROUS IRON	22.0000	8.50	187.00
		N METHANE	22.0000	37.00	814.00
		P 8 OXYGENATES	23.0000	63.00	1,449.00
12 AQUIFER CHARACTERIZATION		B SLUG TEST	3.0000	30.00	90.00
15 RISK EVALUATION		B TIER II	1.0000	150.00	150.00
17 DISPOSAL		A1 WASTEWATER - PURGING/SAMPLING	5.0000	90.00	450.00
		C SOIL (TREATMENT/DISPOSAL)	45.0000	50.00	2,250.00
19 RPT/PROJECT MNGT & COORDINATIO		PCT PERCENT	0.0300	38,412.50	1,152.38
				<b>Total Amount</b>	<b>39,564.88</b>



**UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-896-6240**

**MEMORANDUM**

TO: James Wilson, Consultech Environmental

FROM: Minda Johnson-Schmiedel

RE: NOTICE TO PROCEED

Facility Name: Interstate Truck Terminal

Permit Number: 00332

County: Allendale

Work previously completed:

enc: Permission Form, EFIS Utility Report

UST PROGRAM  
DOCKETING # 35 T



C. Earl Hunter, Commissioner

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

JULIUS MOODY  
1375 CAPERNAUM ROAD  
ULMER, SC 29003

Re: Interstate Truck Terminal, Hwy 301 & 321, Ulmer, SC  
UST Permit 00332, CA 26142, MWA #UMW- 19702  
June 21, 2002  
Assessment Plan received December 8, 2005  
Allendale County

Dear Mr. Moody:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor. The UST Program has reviewed the referenced Tier II Assessment Plan and cost agreement submitted by Consultech, Environmental, Inc.

Assessment activities at the site should begin immediately upon receipt of this letter. Cost agreement number has been approved for the amount shown on the enclosed cost agreement form. Please be aware that the October 10, 2003 SUPERB Allowable Costs sheet states that "If vertical and horizontal extent of chemicals of concern are not fully defined by this tier report, additional mobilizations may not be approved by the Department." **Please contact the department prior to well installation for concurrence regarding the final well locations.** Cost agreement CA# 26142 has been approved for the amount shown on the enclosed cost proposal form.

The following comments are offered for the proposed work plan:

- Borings should not exceed the depth of the water table, unless the boring is intended to determine the target depth for the deep monitoring wells.
- The use of a PID to field screen groundwater samples is not appropriate. Please propose another field screening technology for approval, such as a FID.

Please note the following adjustments to the submitted cost agreement:

- Monitoring well installation has been approved for 450 feet for fourteen **(if necessary)** shallow wells. Please note that the screens of the permanent monitoring wells must bracket the water table, and all monitoring well locations must be technically justified or installation costs will not be approved. Field screening points converted to wells will be compensated at the permanent well installation rate.

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

A Report of Findings and the invoice are due within 90 days from the date of this letter. An interim well drilling invoice may be submitted for this scope of work. 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 you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.**

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

The Department grants pre-approval for transportation of virgin petroleum impacted 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 and scope of work, please reference UST Permit # 00332 and CA # 26142. If you have any questions concerning this correspondence, please contact me at (803) 896-6395, fax me at (803) 896-6245, or e-mail me at [johnsoms@dhec.sc.gov](mailto:johnsoms@dhec.sc.gov).

Sincerely,



Minda Johnson-Schmiedel, Hydrogeologist  
Assessment Section  
Assessment and Corrective Action Division  
Underground Storage Tank program  
Bureau of Land and Waste Management

enc.: Approved Cost Agreement  
Monitoring Well Approval (MWA)(copy)

cc: CONTRACTOR  
(w/Approved Cost Agreement & original MWA)  
Technical File (w/enc)



C. Earl Hunter, Commissioner

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

November 8, 2005

JAMES WILSON  
CONSULTECH ENVIRONMENTAL  
1800 MACLEOD DR STE F  
LAWRENCEVILLE GA 30043-5736

Re: Tier II Assessments  
Contract SB-26281-10/26/04-EMW, Purchase Order # 557699  
Telephone Conversation on November 8, 2005  
Notice to Proceed

Dear Mr. Wilson:

In accordance with the referenced contract, the Underground Storage Tank Program requests a Tier II Assessment Plan and an associated Cost Agreement for the following facilities:

Site name	ID #	County	Priority	Project Manager
Interstate Truck Terminal	00332	Allendale	2B	Minda Johnson-Schmiedel
Nickel Pumper #235	04877	Hampton	2B	Minda Johnson-Schmiedel

As outlined in our conversation, please submit the Tier II Assessment Plan and Assessment Component Cost Agreement to my attention within thirty (30) days from the date of this correspondence. Plan implementation shall not commence prior to receipt of written technical and financial approval from the Department. The reports must be submitted to my attention within 90 days subsequent to the date of the approval letter.

Tier II Assessment Plan, Implementation and Report submittal shall be performed in accordance with the referenced contract. Per Section 12, Special Conditions, a late fee of \$100.00/day may be levied for each report submitted after the deadline established in the Notice to Proceed. On all correspondence, please reference the pertinent UST Permit number.

Sincerely,

Arthur Shrader, Hydrogeologist  
Assessment Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management

enc: Notice to Proceed Package for UST Permits 00332 and 04877

cc: Technical File

UST PROGRAM  
DOCKETING # 36T

GEOLOGICAL RESOURCES, INC.  
2301 CROWN POINT EXECUTIVE DRIVE, SUITE F  
CHARLOTTE, NORTH CAROLINA 28227

TEL. (704) 845-4010  
FAX. (704) 845-4012

DATE: 5/25/05

FAX TRANSMITTAL

TO: Mark Berenbrock

COMPANY: SCDHEC

FAX NO. \_\_\_\_\_

PHONE NO. \_\_\_\_\_

FROM: Shawn Gidd

Total number of pages (including this cover sheet): (3)

MESSAGE: \_\_\_\_\_

Mark:  
Here are the corrected pays for  
Interstate Terminal Trucking  
Let me know if there is anything  
else!  
Thanks

**RECEIVED**

UST PROGRAM  
DOCKETING # 37J

MAY 25 2005  
UNDERGROUND STORAGE  
TANK PROGRAM

**TIER I ASSESSMENT REPORT  
 INTERSTATE TRUCK TERMINAL INC.  
 HIGHWAY 301 & HIGHWAY 321  
 ULMER, SOUTH CAROLINA  
 ALLENDALE COUNTY  
 UST PERMIT #: 00332  
 CA#: 243278**

Prepared For:

Mr. Julius Moody  
 Route 3 Box 192B  
 Bamberg, South Carolina 29003

Prepared By:

Geological Resources, Inc.  
 2301-F Crown Point Executive Drive  
 Charlotte, North Carolina 28227

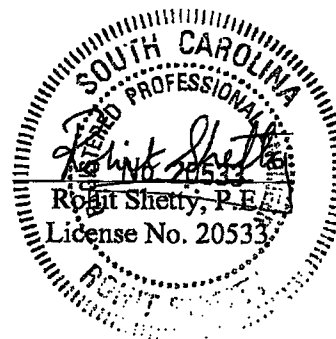
**RECEIVED**

MAY 25 2005

UNDERGROUND STORAGE  
TANK PROGRAM

May 25, 2005

*Nichole Long*  
 Nichole Long  
 Staff Scientist



**TIER I ASSESSMENT REPORT OF FINDINGS**

**I. INTRODUCTION**

**A. Owner/Operator Information**

Name: Mr. Julius Moody

Address: Route 3, Box 192 B, Bamberg, South Carolina 29003

Telephone Number: (803) 245-4470

**B. Property Owner Information**

Name: Mr. Julius Moody

Address: Route 3, Box 192 B, Bamberg, South Carolina 29003

Telephone Number: (803) 245-4470

**C. Contractor Information**

Name: Geological Resources, Inc.

Address: 2301-F Crown Point Executive Drive, Charlotte, North Carolina 28227

Telephone Number: (704) 845-4010

**D. Site Information**

Name: Interstate Truck Terminal Inc.

Address: Highway 301 & Highway 321, Ulmer, South Carolina 29849

Description of Adjacent Land Use: Abandoned/Commercial

Predicted Future Land Use: Abandoned/Commercial

**E. Site History**

Date Release Reported to SCDHEC: 06/21/02

Estimated Quantity of Release: Unknown

Cause of Release: Unknown

UST No.	Product	Date Installed	Currently In Use?	Date Closed
1	Diesel	Unknown	No	NA
2	Diesel	Unknown	No	NA
3	Gasoline	Unknown	No	NA
4	Diesel	Unknown	No	NA
5	Gasoline	Unknown	No	NA
6	Gasoline	Unknown	No	NA
7	Diesel	Unknown	No	NA
8	Diesel	Unknown	No	NA
9	Diesel	Unknown	No	NA

NA: Tanks last used on 4/1/87; all liquid was removed on 9-13-02; Tanks have not been removed.

Other releases at this site?

Yes

No

If yes, date reported to SCDHEC: N/A

Status of release: N/A

No further action date: N/A

**RECEIVED**

MAY 25 2005

UNDERGROUND STORAGE  
TANK PROGRAM



**E. Site Geology****Provide a brief description of the regional geology and hydrogeology.**

The site is located in the Coastal Plain Physiographic Province of South Carolina. The Coastal Plain is part of an extensive geologic province that roughly parallels the Atlantic Ocean and continues northward and southward through the neighboring states. In South Carolina, the Coastal Plain is expressed physiographically in three regional belts: The Upper Coastal Plain, The Middle Coastal Plain and the Lower Coastal Plain. The surface deposits in the Coastal Plain are generally characterized by a recurrent sequence of clean fine to medium sand, muddy fine sand, and clean to muddy, medium to coarse sand or gravelly sand. These textures represent changes in depositional environments from beach to backbarrier, to river, respectively. The major aquifer systems in the Middle and Lower Coastal Plain are the Middendorf Aquifer System, the Black Creek Aquifer System, the Tertiary Aquifer System and the Surficial Aquifer System. The Surficial Aquifer System consists mostly of beds of unconsolidated sand, shelly sand and shell. In places, clay beds are sufficiently thick and continuous to divide the system into two or three aquifers. However, the system is mostly undivided. Complex interbedding of fine-and coarse-grained textured sediments is typical of the system. The thickness of the Surficial Aquifer System is typically less than 50 feet and thickens coastward. The sediments that comprise the Surficial Aquifer System range from late Miocene to Holocene in age.

**Provide a brief description of the site specific geology and stratigraphy:**

The site is underlain by fine sands grading downward through fine sandy silts to a depth of approximately 35 feet. The percentages of sand, silt and gravel in a soil sample collected from MW-3 at a depth of 30.0 foot were 84.0%, 15.5% and 0.5%, respectively. Based on data obtained on April 5, 2005, the triangulated direction of ground water flow was toward the northeast.

**F. Soil Boring Data**

**Drilling Date(s):** 04/5/05 and 04/6/05

**Provide a brief justification for the location of the soil borings.**

SB-1 - UST Basin

SB-2 - UST Basin

SB-3 - Product Piping

SB-4 - Product Piping/Dispenser Island

SB-5 - Product Piping

SB-6 - UST Basin

SB-7 - UST Basin

SB-8 - Background Boring



C. Earl Hunter, Commissioner

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

**MAY 05 2005**

**MR WILLIAM E MAYRICK JR  
P O BOX 555  
ALLENDALE SC 29810-0555**

Re: Interstate Truck Terminal, Inc., Hwy 301 & Hwy 321, Ulmar, SC  
UST Permit # 00332  
Release reported on June 21, 2002  
Tier I Assessment Report received May 2, 2005  
Allendale County

Dear Mr. Mayrick:

The Underground Storage Tank Program has reviewed the referenced report submitted by Geological Resources, Inc. The next scope of work deemed necessary is additional assessment for plume delineation before corrective action and remediation of the contaminated plume present at the referenced facility.

Based on Mr. Moody's signed permission form SCDHEC will procure the services of an environmental contractor on his behalf. Your continued cooperation as Mr. Moody's representative is appreciated.

Please contact the undersigned if you have any questions at 803 896-6664 or (800) 826-5435 (within SC only), by fax at (803) 896-6245 or by email at milenkmp@dhec.sc.gov.

Sincerely,

Maia Milenkova, Hydrogeologist  
Assessment Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management

enc: Tier I Assessment Report  
cc: Technical File

DHEC/UST/05/03/05/MPM

UST PROGRAM  
DOCKETING # 38T

mm



C. Earl Hunter, Commissioner

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

APR 04 2005

**TERRY KENNEDY  
 GEOLOGICAL RESOURCES INC  
 2301 CROWN POINT EXECUTIVE DR STE F  
 CHARLOTTE NC 28227-6725**

Re: Bid # SB-19189-04/30/02-EMW; PO#408994  
 Notice to Proceed

Dear Mr. Kennedy:

Based on the award of the referenced bid package, enclosed are the information packets to conduct an Initial Groundwater Assessment (IGWA) and Tier I Assessments at two facilities. The packets contain the necessary approval for work to begin. The facilities have been assigned Cost Agreement (CA) numbers as listed below. Please reference the CA numbers and Purchase Order #408994 on the appropriate invoice submitted for payment against the facility. As specified in the referenced bid, **the completed invoice form and associated report (include contract certification number) are expected on or before the designated due date (see below).**

UST Permit#	Facility	County	Release #	Work Scope	Due Date*	CA #	Approved Amt
05366	Bobby Jones Grocery	Kershaw	1	IGWA	60 days	24327	\$500.00
00332	Interstate Truck Terminal Inc.	Allendale	2	Tier I	60 days	24328	\$2,750.00

\*From receipt of letter

Geological Resources, Inc. will perform services at the sites on behalf of the sites UST owner; however, payments will be made from the SUPERB Account. The sites UST owners have no obligation for payment for these scopes of work. **Please note, if there are any changes in the established cost agreement amounts (e.g., additional water supply wells sampled, additional well footage, etc.) contact the site's project manager for technical and/or financial approval. Failure to do so prior to submittal of invoice may result in delay of payment.**

The Bureau grants preapproval for transportation of drums of virgin petroleum contaminated soil and drums of groundwater from the referenced site to a permitted treatment facility. The contaminated soil and/or groundwater must be properly stored in labeled 55-gallon drums or equivalent containers. The contaminated soil and/or groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included as an appendix to the final report. Please note, transportation of waste oil contaminated soil must receive preapproval from the Division of Waste Assessment & Emergency Response.

UST PROGRAM DOCKETING # 40T

Mr. Kennedy  
Page 2

Please provide this office with a schedule of drilling dates and coordinate all work with me before commencing work at the facility. If you have any questions or need further assistance, please contact me at (800) 826-5435 (within SC only) or (803) 896-6647.

Sincerely,



Konstantine T. Akhvlediani, Hydrogeologist  
Assessment Section  
Assessment & Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management

enc: Information Packets  
Monitoring Well Approvals  
Approved Cost Agreements

cc: Technical Files (w/copy of MWA)

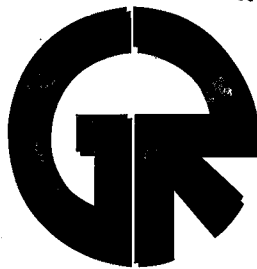
# Approved Cost Agreement 24328

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

MILENKMP

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
20 TIER I		TIER I	1.0000	2,750.00	2,750.00
<b>Total Amount</b>					<b>2,750.00</b>



## Geological Resources, Inc.

April 27, 2005

Ms. Maia Milenkova  
Division of UST Management  
South Carolina DHEC  
2600 Bull Street  
Columbia, South Carolina 29201-1708

Re: Interstate Truck Terminal Inc.  
UST Permit # 00332  
CA # 24328

Dear Ms. Milenkova:

Please find enclosed the original plus one copy of the Tier I report for the above referenced site. The original invoice has been submitted to Ms. Pat Holland of the Finance Section.

If you have any questions, please call me at (704) 845-4010.

Sincerely,

*Kathy Sanders for*

Shawn L. Judd  
Project Coordinator

**RECEIVED**

MAY 02 2005

UNDERGROUND STORAGE  
TANK PROGRAM

UST PROGRAM  
DOCKETING # 397

2301 Crown Point Executive Drive Suite F Charlotte, NC 28227  
Phone: (704) 845-4010 / (888) 870-4133 Fax: (704) 845-4012

**TIER I ASSESSMENT REPORT  
INTERSTATE TRUCK TERMINAL INC.  
HIGHWAY 301 & HIGHWAY 321  
ULMER, SOUTH CAROLINA  
ALLENDALE COUNTY  
UST PERMIT #: 00332  
CA #: 24328**

Prepared For:

Mr. Julius Moody  
Route 3 Box 192 B  
Bamberg, South Carolina 29003

Prepared By:

Geological Resources, Inc.  
2301-F Crown Point Executive Drive  
Charlotte, North Carolina 28227

April 27, 2005

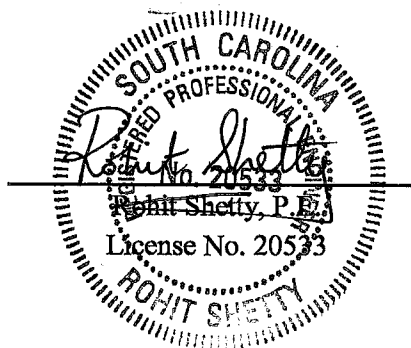
**RECEIVED**

MAY 02 2005

**UNDERGROUND STORAGE  
TANK PROGRAM**



Shawn Judd  
Project Coordinator



**TIER I ASSESSMENT REPORT OF FINDINGS**

**I. INTRODUCTION**

**A. Owner/Operator Information**

**Name:** Mr. Julius Moody

**Address:** Route 3, Box 192 B, Bamberg, South Carolina 29003

**Telephone Number:** (803) 245-4470

**B. Property Owner Information**

**Name:** Mr. Julius Moody

**Address:** Route 3, Box 192 B, Bamberg, South Carolina 29003

**Telephone Number:** (803) 245-4470

**C. Contractor Information**

**Name:** Geological Resources, Inc.

**Address:** 2301-F Crown Point Executive Drive, Charlotte, North Carolina 28227

**Telephone Number:** (704) 845-4010

**D. Site Information**

**Name:** Interstate Truck Terminal Inc.

**Address:** Highway 301 & Highway 321, Ulmer, South Carolina 29849

**Description of Adjacent Land Use:** Abandoned/Commercial

**Predicted Future Land Use:** Abandoned/Commercial

**E. Site History**

**Date Release Reported to SCDHEC:** 06/21/02

**Estimated Quantity of Release:** Unknown

**Cause of Release:** Unknown

UST No.	Product	Date Installed	Currently In Use?	Date Closed
1	Diesel	Unknown	No	09/13/02
2	Diesel	Unknown	No	09/13/02
3	Gasoline	Unknown	No	09/13/02
4	Diesel	Unknown	No	09/13/02
5	Gasoline	Unknown	No	09/13/02
6	Gasoline	Unknown	No	09/13/02
7	Diesel	Unknown	No	09/13/02
8	Diesel	Unknown	No	09/13/02
9	Diesel	Unknown	No	09/13/02



**II SITE CHARACTERISTICS**

**A. Site Geography:** The site is located along Highway 301/321 in Ulmer, Allendale County at latitude 33° 06' 03.0" north and longitude 81° 11' 56.0" west. A vacant building is currently located on-site. The properties to the south and east are largely residential, mixed with open lots and some commercial properties. The property to the north contains an open lot which was a former petroleum retail facility. Woods are located to the west of the site. In addition a vacant restaurant is located southwest of the site and may have been a former petroleum retail facility. Please note that there are two former UST basins at the site and each contained gasoline and diesel USTs. The former dispenser island is located northwest of the on-site structure. Concrete and asphalt covers both UST basins as well as the areas to the north, west, east and south of the site.

**B. Mean Elevation of Site:** Approximately 40 feet above mean sea level.

**Additional Comments:** N/A

**C. Exposure Analysis**

**Describe all potential receptors and preferred pathways within a 1,000-foot radius of the site.** Three private water wells (WSW-1 through WSW-3) were identified within a 1,000-foot of the source area. Two wells (WSW-1 and WSW-2) are located within a 500-foot radius of the source area. Water supply well WSW-1 is not in use. Water supply well WSW-2 is active and used as a potable water source. Water supply well WSW-3 is located at an abandoned hotel approximately 700 feet north of the source area and is no longer active. A possible wetland is located approximately 250 feet west of the site across Highway 301/321. However, it is unknown if this area would be defined as a wetland under the ACOE standards. In addition, a drainage pond is located approximately 600 feet northeast of the source area.

**Additional Comments:** According to Mr. Gene Smith, Zoning officer at the Allendale County Zoning Department, the site, adjacent properties and properties within a 1,000-foot radius of the site are currently not zoned

**D. Utilities Survey**

List the utilities on-site, and adjacent to the site within a 250-foot radius, that could serve as exposure points or ingestion pathways.

Utility	On-site or Distance/Direction from Site	Depth to Utility
Telephone	On-site/Along Highway 321, approximately 40 feet west of the source area.	~3'
Water	On-site/Approximately 80 feet north of UST basin #1 and along Highways 321/301.	~3'

**Additional Comments:**

**E. Site Geology**

**Provide a brief description of the regional geology and hydrogeology.**

The site is located in the Coastal Plain Physiographic Province of South Carolina. The Coastal Plain is part of an extensive geologic province that roughly parallels the Atlantic Ocean and continues northward and southward through the neighboring states. In South Carolina, the Coastal Plain is expressed physiographically in three regional belts: The Upper Coastal Plain, The Middle Coastal Plain and the Lower Coastal Plain. The surface deposits in the Coastal Plain are generally characterized by a recurrent sequence of clean fine to medium sand, muddy fine sand, and clean to muddy, medium to coarse sand or gravelly sand. These textures represent changes in depositional environments from beach to backbarrier, to river, respectively. The major aquifer systems in the Middle and Lower Coastal Plain are the Middendorf Aquifer System, the Black Creek Aquifer System, the Tertiary Aquifer System and the Surficial Aquifer System. The Surficial Aquifer System consists mostly of beds of unconsolidated sand, shelly sand and shell. In places, clay beds are sufficiently thick and continuous to divide the system into two or three aquifers. However, the system is mostly undivided. Complex interbedding of fine- and coarse-grained textured sediments is typical of the system. The thickness of the Surficial Aquifer System is typically less than 50 feet and thickens coastward. The sediments that comprise the Surficial Aquifer System range from late Miocene to Holocene in age.

**Provide a brief description of the site specific geology and stratigraphy:**

The site is underlain by fine sands grading downward through fine sandy silts to a depth of approximately 35 feet. The percentages of sand, silt and gravel in a soil sample collected from MW-3 at a depth of 30.0 foot were 84.0%, 15.5% and 0.5%, respectively. Based on data obtained on April 5, 2005, the triangulated direction of ground water flow was toward the northeast.

**F. Soil Boring Data**

**Drilling Date(s):** 04/5/05 and 04/6/05

**Provide a brief justification for the location of the soil borings.**

- SB-1 - Former UST Basin
- SB-2 - Former UST Basin
- SB-3 - Former Product Piping
- SB-4 - Former Product Piping/Dispenser Island
- SB-5 - Former Product Piping
- SB-6 - Former UST Basin
- SB-7 - Former UST Basin
- SB-8 - Background Boring

**Background Boring:**

Borehole: SB-8/MW-5

Sampling Date: 04/6/05

Sample Depth: 25'

Sampling Interval	Field Screening Results (ppm-v)	Lithology	Soil Conditions
0-25'	N/A	Reddish brown friable fine silty sand.	Dry; No odor.
25-35'	N/A	Light brown loose coarse sand.	Wet; minor petroleum odor.

**Former UST Area Borings:**

Borehole: SB-1

Sampling Date: 04/5/05

Sample Depth: 15'

Sampling Interval	Field Screening Results (ppm-v)	Lithology	Soil Conditions
0-13'	30.4 (5') 64.3 (10')	Red orange to reddish brown loose fine silty sand.	Dry; minor petroleum odor.
13-25'	92.4 (15') 49.3 (20') 35.1 (25')	Reddish brown friable fine silt.	Dry; no odor.

Borehole: SB-2/MW-3

Sampling Date: 04/5/05

Sample Depth: 25'

Sampling Interval	Field Screening Results (ppm-v)	Lithology	Soil Conditions
0-15'	25.6 (5') 42.2 (10') 80.6 (15')	Red orange to reddish brown loose fine silty sand.	Dry; minor petroleum odor.
15-20'	116 (20')	Reddish brown friable fine silt.	Dry; minor petroleum odor.
20-34'	447 (25')	Light brown loose coarse sand.	Wet; petroleum odor.

Borehole: SB-6

Sampling Date: 04/5/05

Sample Depth: 6'

Sampling Interval	Field Screening Results (ppm-v)	Lithology	Soil Conditions
0-10'	2.8 (2') 33.9 (4') 46.9 (6') 29.6 (8') 31.2 (10')	Reddish brown loose to sandy slightly friable fine silt.	Dry; no odor.

Borehole: SB-7

Sampling Date: 04/5/05

Sample Depth: 4'

Sampling Interval	Field Screening Results (ppm-v)	Lithology	Soil Conditions
0-7'	31.6 (2') 34.4 (4') 30.6 (6')	Brown loose fine sand.	Dry; no odor.
7-10'	33.6 (8') 17.8 (10')	Reddish brown loose to slightly friable fine sand silt.	Dry; no odor.

**Former Product Piping/Dispenser Island Borings:**

Borehole: SB-3

Sampling Date: 04/5/05

Sample Depth: 8'

Sampling Interval	Field Screening Results (ppm-v)	Lithology	Soil Conditions
0-6'	22.8 (2') 27.8 (4') 28.5 (6')	Brown to reddish brown loose to slightly friable fine sand.	Dry; no odor.
6-10'	35.8 (8') 28.1 (10')	Reddish brown friable fine silty sand.	Dry; no odor.

Borehole: SB-4

Sampling Date: 04/5/05

Sample Depth: 8'

Sampling Interval	Field Screening Results (ppm-v)	Lithology	Soil Conditions
0-10'	29.4 (2') 32.5 (4') 36.6 (6') 41.7 (8') 35.6 (10')	Brown loose fine sand.	Dry; no odor.

Borehole: SB-5

Sampling Date: 04/5/05

Sample Depth: 6'

Sampling Interval	Field Screening Results (ppm-v)	Lithology	Soil Conditions
0-10'	31.8 (2') 40.50 (4') 40.50 (6') 31.30 (8') 18.5 (10')	Reddish brown loose sandy to slightly friable fine silt.	Dry; no odor.

**Soil Analytical Data (mg/kg):**

COC	RBSL <sup>1</sup>	SB-1	SB-2/ MW-3	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8/ MW-5
Benzene	0.007	<0.0017 <sup>2</sup>	<0.0018	<0.0014	<0.0016	<0.0016	<0.0017	<0.0015	NR
Toluene	1.450	<0.0017	0.0025	<0.0014	<0.0016	<0.0016	<0.0017	<0.0015	NR
Ethylbenzene	1.150	<0.0017	0.0292	<0.0014	<0.0016	<0.0016	<0.0017	<0.0015	NR
Xylenes	14.500	<0.0017	0.185	<0.0014	<0.0016	<0.0016	<0.0017	<0.0015	NR
Total BTEX	---	<0.0068	0.2167	<0.0056	<0.0064	<0.0064	<0.0068	<0.006	NR
Naphthalene	0.036	<0.00424	0.00470	<0.00716	<0.00408	<0.00405	<0.00427	<0.00383	NR
Benzo(a) anthracene	0.066	<0.066	<0.067	<0.067	<0.067	<0.067	<0.067	<0.066	NR
Benzo(b) fluoranthene	0.066	<0.066	<0.067	<0.067	<0.067	<0.067	<0.067	<0.066	NR
Benzo(k) fluoranthene	0.066	<0.066	<0.067	<0.067	<0.067	<0.067	<0.067	<0.066	NR
Chrysene	0.066	<0.066	<0.067	<0.067	<0.067	<0.067	<0.067	<0.066	NR
Dibenzo(a,h) anthracene	0.066	<0.066	<0.067	<0.067	<0.067	<0.067	<0.067	<0.066	NR
TPH 3550	---	NR <sup>3</sup>	604	NR	NR	NR	NR	NR	NR
TOC (background boring)	---	NR	NR	NR	NR	NR	NR	NR	<1,000

**Notes:**

1. May 2001 Risk-Based Screening Levels for sandy soil for all separation distances.
2. Less than the report limit specified in the laboratory report.
3. Analysis not requested.

**Discuss the horizontal and vertical extent of COC in soil.**

No concentrations of requested method constituents that exceeded the RBSLs were reported in soil samples collected from SB-1 through SB-8 at the site.

**Additional Comments: NA**

**G. Chemicals of Concern - Ground Water  
Well Installation Information**

Well No.	Installation Date	Development Date	Sampling Date
MW-1	Unknown 9/11/02	Unknown	04/06/05
MW-2	Unknown 9/11/02	Unknown	04/06/05
MW-3	04/05/05	04/06/05	04/06/05
MW-4	04/06/05	04/06/05	04/06/05
MW-5	04/06/05	04/06/05	04/06/05

**Soil Analytical Data - Monitoring Wells**

Soil samples were collected from SB-2 and SB-8 during the installation of MW-3 and MW-5, respectively. Please refer to the table containing soil analytical data for the results of analyses.

**Summary of Monitoring Well and Ground Water Data (feet)**

Well No.	TOC Elevation	Depth to Water	Water Table Elevation	Screened Interval
MW-1	100.00	28.11	71.89	Unknown
MW-2	100.93	28.18	72.75	Unknown
MW-3	101.08	28.52	72.56	24-34'
MW-4	99.10	25.63	73.47	24-34'
MW-5	101.69	30.66	71.03	25-35'

**Dissolved Oxygen Measurements (mg/L)**

	MW-1	MW-2	MW-3	MW-4	MW-5
Dissolved Oxygen	3.2	3.5	3.8	2.3	3.7

**Ground Water Analytical Data<sup>1</sup>**

COC	RBSL <sup>2</sup>	MW-1	MW-2	MW-3	MW-4	MW-5
Free Product Thickness	---	---	---	---	---	---
Benzene	5	<b>78.4<sup>3</sup></b>	2.4	<b>6.1</b>	<b>5.7</b>	4.6
Toluene	1,000	<b>3,400</b>	4.7	132	79.0	17.7
Ethylbenzene	700	<b>1,730</b>	17.8	532	352	248
Xylenes	10,000	7,880	35.5	2,590	702	999
Total BTEX	---	13,088.4	60.4	3,260.1	1,138.7	1,269.3
MTBE	40	<1.0 <sup>4</sup>	<1.0	<1.0	<1.0	<1.0
Naphthalene	25	<b>153</b>	2.40 <sup>6</sup>	<b>171</b>	<b>55.0</b>	<b>123</b>
EDB	0.05	NR <sup>5</sup>	NR	<b>0.09</b>	<0.02	<0.02
Lead	15	NR	NR	<b>42.0</b>	<b>31.0</b>	<b>23.0</b>
Filtered lead	15	<b>100</b>	<3.3	NR	NR	NR
Benzo(a)anthracene	10	NR	NR	<2.0	<2.0	<2.0
Benzo(b)fluoranthene	10	NR	NR	<2.0	<2.0	<2.0
Benzo(k)fluoranthene	10	NR	NR	<2.0	<2.0	<2.0
Chrysene	10	NR	NR	<2.0	<2.0	<2.0
Dibenzo(a,h)anthracene	10	NR	NR	<2.0	<2.0	<2.0
Methane	---	NR	NR	<0.026	<0.026	<0.026
Nitrate	---	NR	NR	1.70	1.04	1.40
Sulfate	---	NR	NR	2.69	4.14	2.51
Ferrous Iron	---	NR	NR	30.4	12.3	33.7

Notes:

1. COC concentrations reported in µg/l; natural attenuation parameter concentrations reported in mg/l.
2. May 2001 Risk-Based Screening Levels.
3. Concentrations in bold face type exceeded the RBSLs.
4. Less than the report limit specified in the laboratory report.
5. Analysis not requested.
6. J indicates values between the method detection limit and the quantitation limit.

**Additional Comments:** NA

**H. Aquifer Characteristics**

**Hydraulic Conductivity:**  $8.55 \times 10^{-7}$  to  $1.19 \times 10^{-4}$  feet/minute ( $1.23 \times 10^{-3}$  to 0.17 feet/day)

**Hydraulic Gradient:** 0.01 feet/foot

**Effective Porosity:** 0.24

**Estimated Seepage Velocity:**  $5.13 \times 10^{-5}$  to  $7.08 \times 10^{-3}$  feet/day ( $1.87 \times 10^{-2}$  to 2.60 feet/year)

**Additional Comments:** N/A

**II. TIER I EVALUATION**

**A. Current Land Use**

Identify any potential receptors or human exposure pathways (e.g. basements, contaminated soils from UST closures, etc.) within a 1,000-foot radius for current land use.

Media (For Exposure)	Exposure Route	Pathway Selected for Evaluation (Yes/No)	Exposure Point or Reason for Non-Selection	Data Requirements (IF Pathway Selected)
Air	Inhalation Explosion Hazard	Yes <u>No</u> Yes <u>No</u>	Utilities are not confined spaces.	None
Ground Water	Ingestion Dermal Contact Volatile Inhalation	<u>Yes</u> No <u>Yes</u> No <u>Yes</u> No	One potable water supply well was identified within a 1,000-foot radius of the source area.	Tier II Evaluation
Surface Water	Ingestion Dermal Contact Volatile Inhalation	<u>Yes</u> No <u>Yes</u> No <u>Yes</u> No	A drainage pond is located approximately 600 feet northeast of the source area.	Tier II Evaluation
Surficial Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Ground Water	Yes <u>No</u> Yes <u>No</u> Yes <u>No</u> Yes <u>No</u>	Soil COC concentrations do not exceed the RBSLs for inhalation, ingestion, dermal contact or leaching to ground water.	None
Subsurface Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Ground Water	Yes <u>No</u> Yes <u>No</u> Yes <u>No</u> Yes <u>No</u>	Soil COC concentrations do not exceed the RBSLs for inhalation, ingestion, dermal contact or leaching to ground water.	None



**B. Future Land Use**

Identify any potential receptors or human exposure pathways (e.g. basements, contaminated soils from UST closures, etc.) within a 1,000-foot radius for future land use.

Media (For Exposure)	Exposure Route	Pathway Selected for Evaluation (Yes/No)	Exposure Point or Reason for Non-Selection	Data Requirements (IF Pathway Selected)
Air	Inhalation Explosion Hazard	Yes <u>No</u> Yes <u>No</u>	Utilities are not confined spaces.	None
Ground Water	Ingestion Dermal Contact Volatile Inhalation	<u>Yes</u> No <u>Yes</u> No <u>Yes</u> No	One potable water supply well was identified within a 1,000-foot radius of the source area.	Tier II Evaluation
Surface Water	Ingestion Dermal Contact Volatile Inhalation	<u>Yes</u> No <u>Yes</u> No <u>Yes</u> No	A drainage pond is located approximately 600 feet northeast of the source area.	Tier II Evaluation
Surficial Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Ground Water	Yes <u>No</u> Yes <u>No</u> Yes <u>No</u> Yes <u>No</u>	Soil COC concentrations do not exceed the RBSLs for inhalation, ingestion, dermal contact or leaching to ground water.	None
Subsurface Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Ground Water	Yes <u>No</u> Yes <u>No</u> Yes <u>No</u> Yes <u>No</u>	Soil COC concentrations do not exceed the RBSLs for inhalation, ingestion, dermal contact or leaching to ground water.	None

**Recommendations for Further Action:**

Concentrations of benzene, toluene, ethylbenzene, naphthalene, EDB, filtered lead and lead that exceeded the RBSLs were reported in one or more ground water samples collected at the site. Due to the presence of one potable water supply well and surface water within a 1,000 foot radius of the site, a Tier II evaluation should be performed.

**Attachments:**

**Figures:**

Figure 1: USGS Topographic Map

Figure 2: Site Location Map

Figure 3: Site Map

Figure 4: Soil Quality Map

Figure 5: Ground Water Quality Map

**Appendices:**

Appendix A: Well Construction Records

Appendix B: Ground Water Sampling Data Sheets

Appendix C: Laboratory Reports

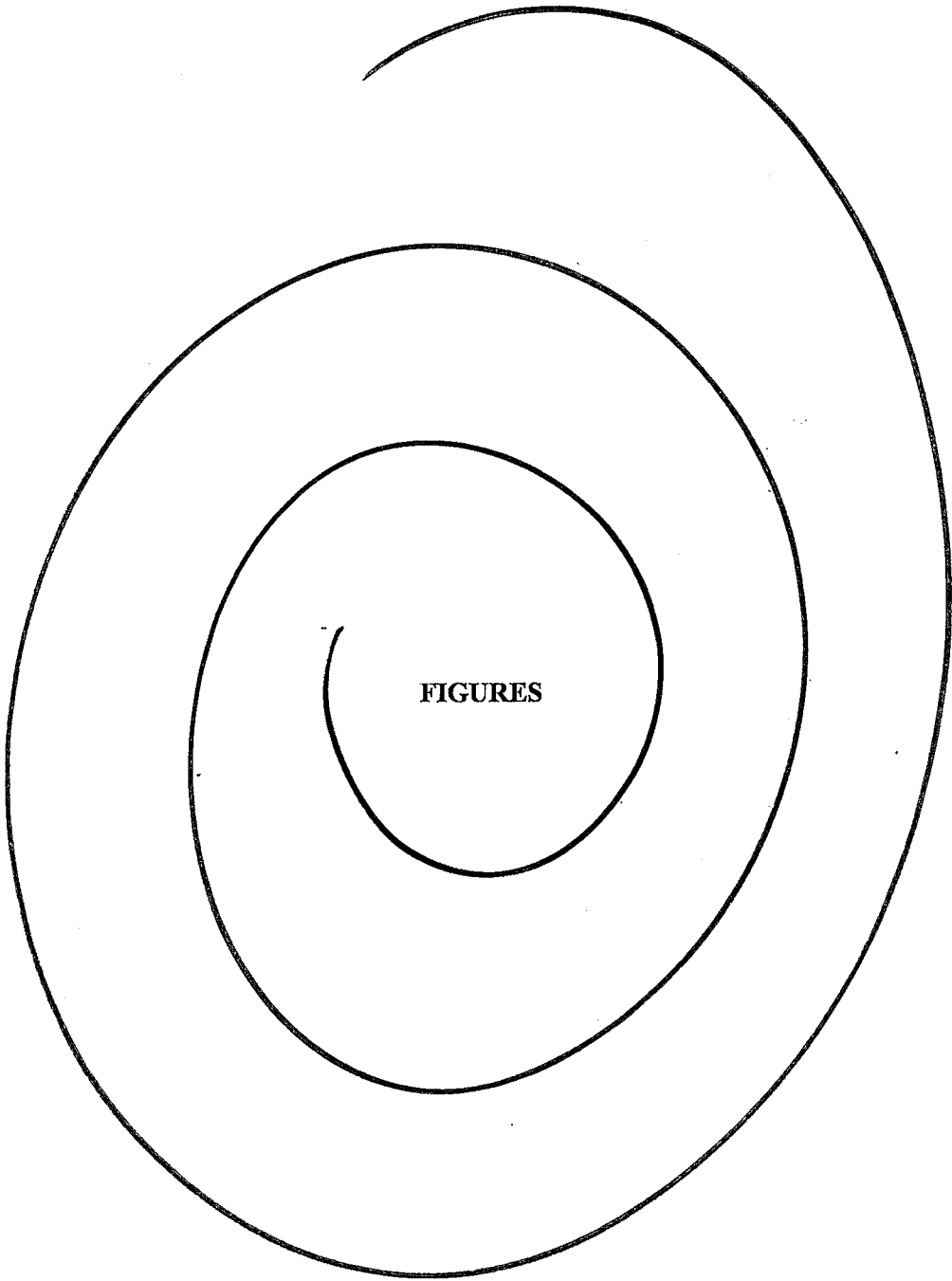
Appendix D: Slug Test Data

Appendix E: Certificate of Disposal

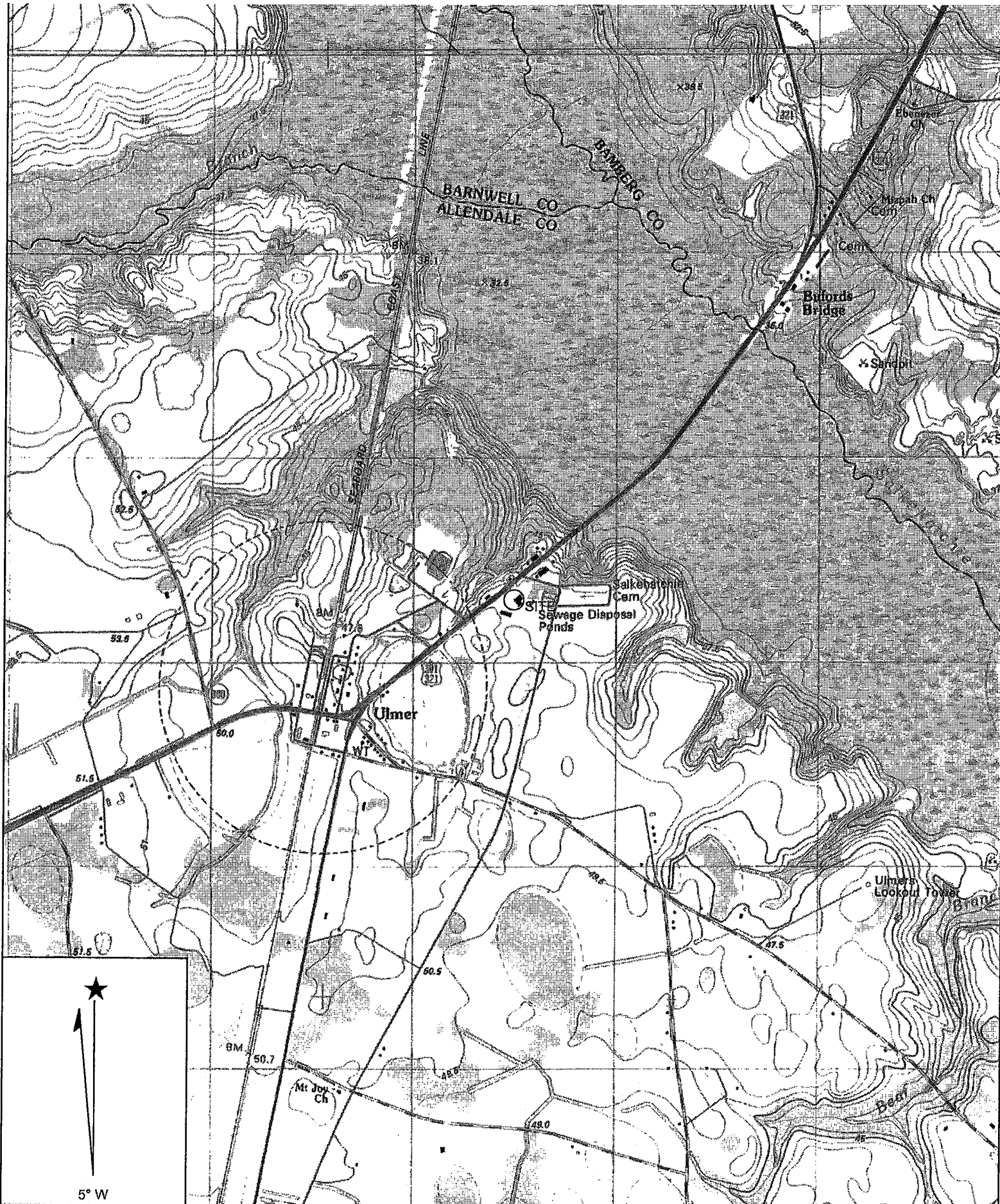
Appendix F: Allendale County Tax Assessor's Office & Zoning Officials

Appendix G: Summary of Adjacent Property Owner Information

Appendix H: Summary of Water Supply Well Owner Information



**FIGURES**

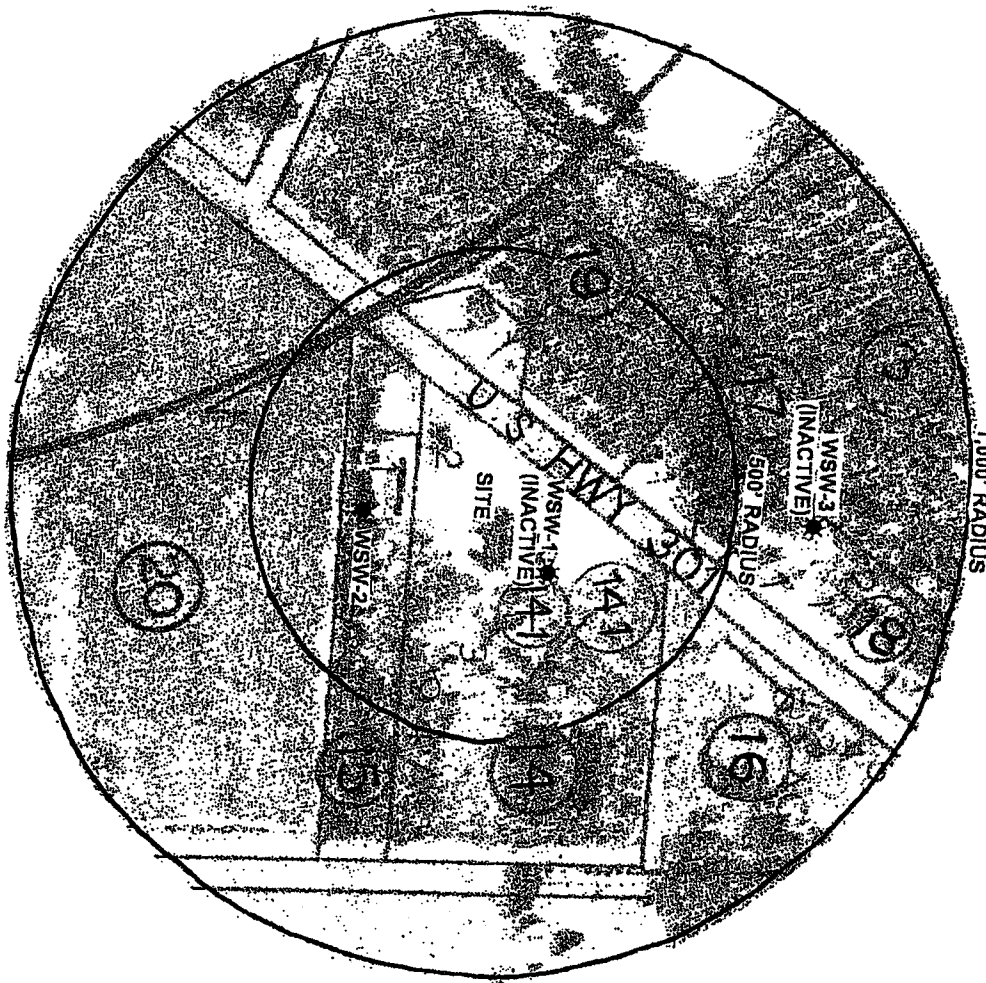


Name: SYCAMORE  
Date: 4/20/105  
Scale: 1 inch equals 2000 feet

Location: 033° 06' 03.0" N 081° 11' 56.0" W  
Caption: USGS TOPOGRAPHIC MAP  
Interstate Truck Terminal Inc.  
Figure 1 UST Permit# 00332

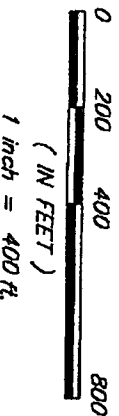
**LEGEND**

- J21 ALLENDALE COUNTY TAX MAP
- 14 ALLENDALE COUNTY LOT NUMBER
- PROPERTY LINE
- ★ WATER SUPPLY WELL



Geological Resources, Inc.

*Entrepreneurial and Utility Geologists*  
 ■ Charlotte, North Carolina  
 □ Greensboro, North Carolina



**SITE VICINITY MAP**

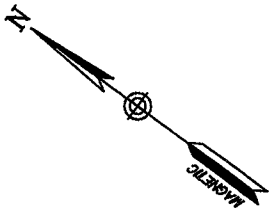
Inlandville Truck Terminal Inc  
 Union, Alameda County, SC

Highways 301 & J21  
 USF Permit # 000132

Date:

04/30/05 Drawn by:

LAM Figure:



LEGEND	
●	TYPE III MONITORING WELL
□	WATER SUPPLY WELL
⊠	WATER METER
—W—	UNDERGROUND WATER LINE

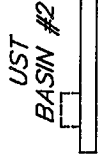
HIGHWAY 301 / HIGHWAY 321

SIDEWALK

WOODS

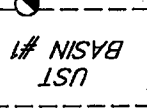
MW-4 ●

ASPHALT/CONCRETE



MW-1 ●

FORMER DISPENSER ISLANDS

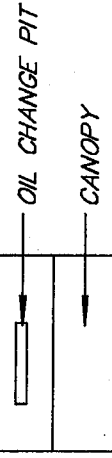
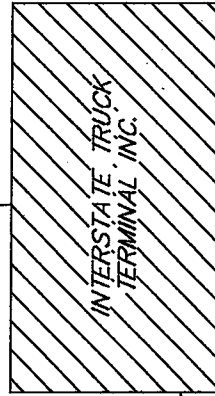


MW-3 ●

CONCRETE

MW-2 ●

MW-5 ●



GRASS

WSW-1 (INACTIVE) □

WSW-2 □  
~165'



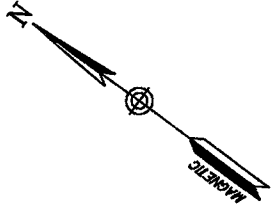
SITE MAP

Environmental and Mining Ecologists  
Charlotte, North Carolina  
Greensboro, North Carolina

Interstate Truck Terminal Inc.  
Ulmer, Alameda County, SC  
Highways 301 & 321  
UST Permit # 00332

Geological Resources, Inc.

Date: 04/20/05  
Drawn by: LAM  
Figure: 3



**LEGEND**

- TYPE III MONITORING WELL
- WATER SUPPLY WELL
- ⊠ WATER METER
- W— UNDERGROUND WATER LINE
- SOIL SAMPLE LOCATION

15
<0.0018
0.0025
0.0292
0.185
0.00470
<0.33

CONCENTRATIONS IN mg/kg

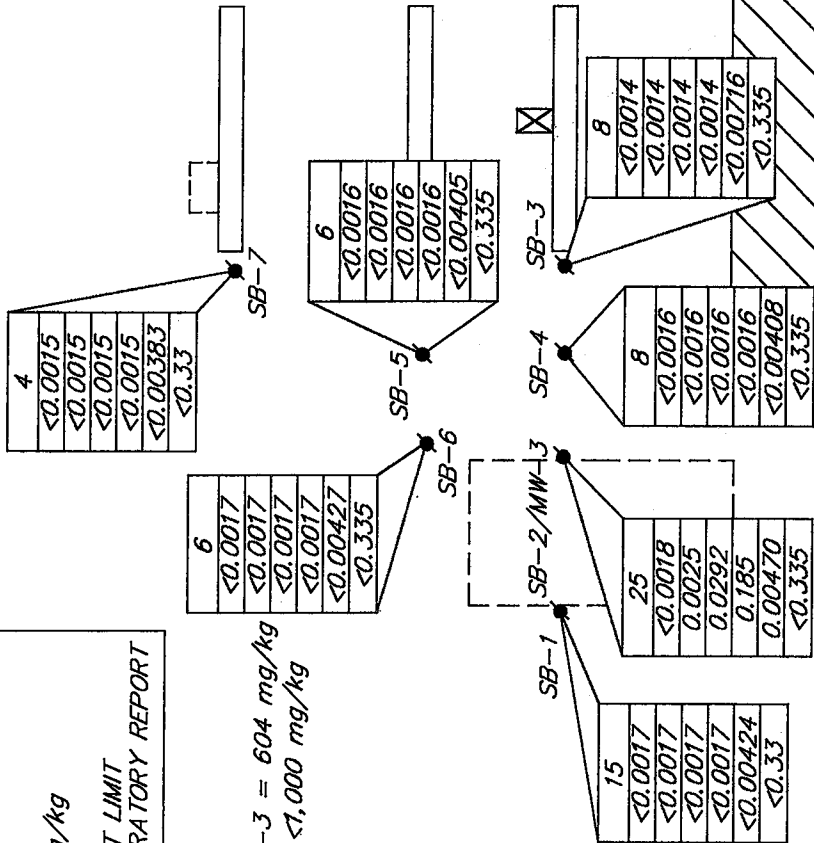
LESS THAN THE REPORT LIMIT SPECIFIED IN THE LABORATORY REPORT

<0.33

**NOTES:**

TPH 3550 CONCENTRATION IN SB-2/MW-3 = 604 mg/kg

TOC CONCENTRATION IN SB-8/MW-5 = <1,000 mg/kg



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Environmental and Mining Geologists  
 Charlotte, North Carolina  
 Greensboro, North Carolina

40 0 20 40 80  
 ( IN FEET )  
 1 inch = 40 ft.

SOIL QUALITY MAP (04/05/06)

Interstate Truck Terminal Inc. Highways 301 & 337  
 Ulmer, Allemande County, SC UST Permit # 00332

Date: 04/20/05 Drawn by: L.M. Figure: 4

**LEGEND**

- TYPE III MONITORING WELL
- ◻ WATER SUPPLY WELL
- ⊗ WATER METER
- UNDERGROUND WATER LINE

78.4	BENZENE
3,400	TOLUENE
1,730	ETHYLBENZENE
7,880	XYLENES
<1.0	MTBE
153	NAPHTHALENE
NR	EDB
NR	TOTAL LEAD
100	FILTERED LEAD
NR	TOTAL PAHS

CONCENTRATIONS IN ug/l

<0.02 LESS THAN THE REPORT LIMIT SPECIFIED IN THE LABORATORY REPORT

NR ANALYSIS NOT REQUESTED

(71.89) GROUND WATER ELEVATION (ft)

72.56 - - - WATER TABLE SURFACE CONTOUR

— GROUND WATER FLOW DIRECTION

(NS) NOT SAMPLED

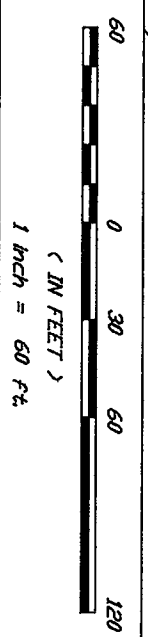
ESTIMATED CONCENTRATION BETWEEN METHOD DETECTION LIMIT AND QUANTITATION LIMIT

MSW-2 ◻  
~165' (NS)

**Environmental and Mining Geologists**

Charlotte, North Carolina  
Greensboro, North Carolina

**Geological Resources, Inc.**

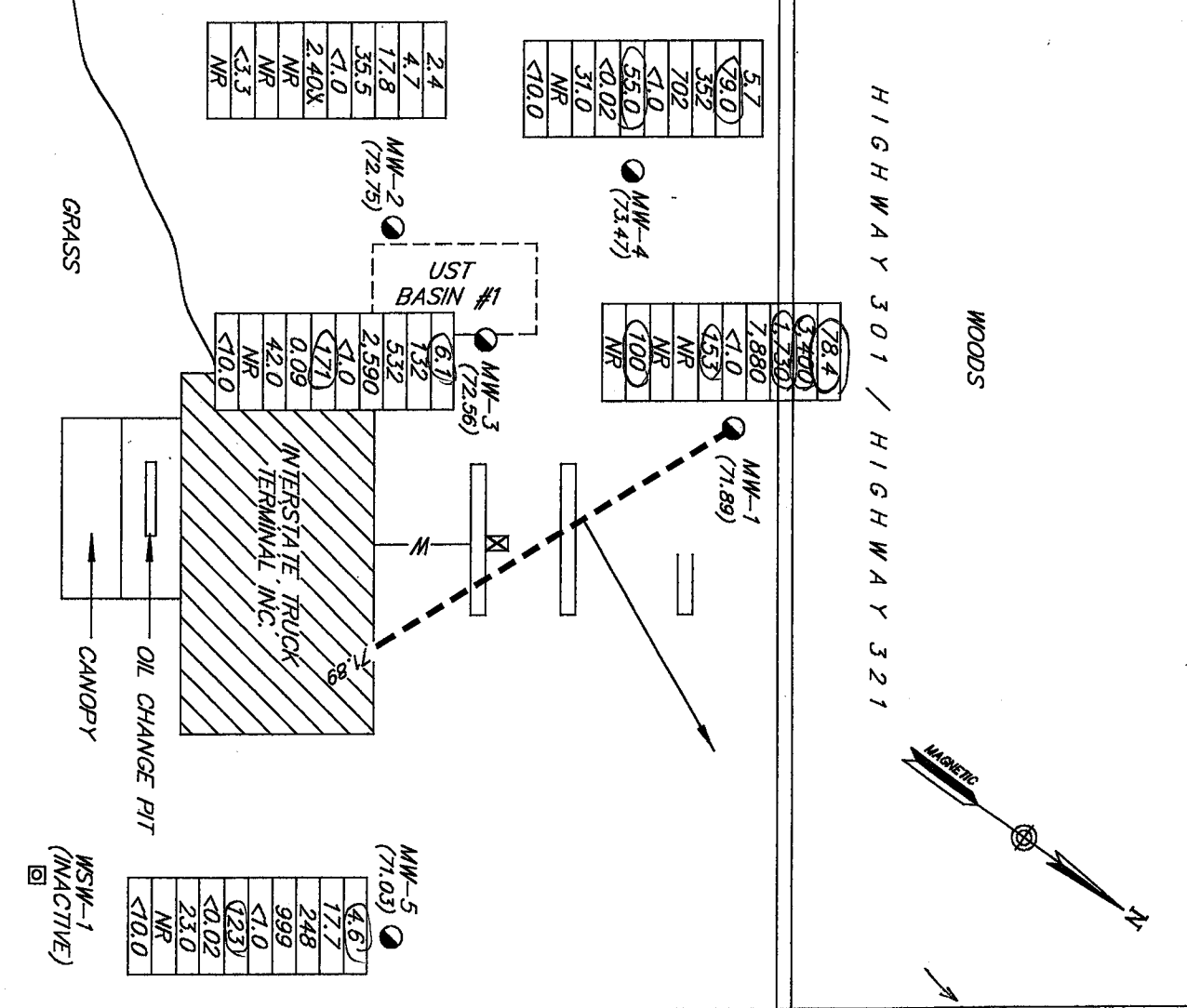


**GROUND WATER QUALITY MAP (04/06/05)**

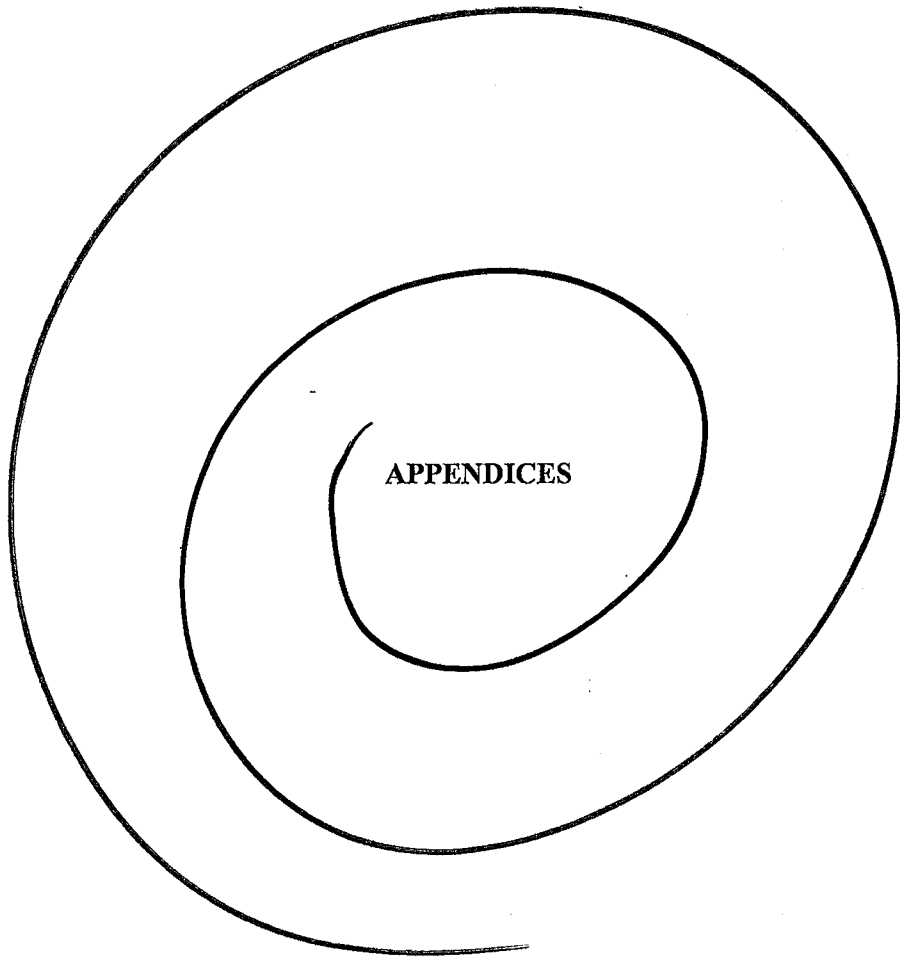
Interstate Truck Terminal Inc  
Ulmer, Alameda County, SC

Highways 301 & 321  
UST Permit # 00332

Date: 04/20/05 Drawn by: LM Figure: 5







**APPENDICES**

**APPENDIX A**  
**Well Construction Records**

soil boring logs? (pg <sup>rel</sup> 15 of 15)



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

1. WELL OWNER INFORMATION:  
Name: JULIUS MOODY  
(last) (first)  
Address: ROUTE 3 BOX 192 B  
City: Barnberg State: SC Zip: 29003  
Telephone: Work: Home: 803-245-4470

2. LOCATION OF WELL: COUNTY: Allendale  
Name: former Interstate Truck Terminal  
Street Address: 1375 Capernaum Rd.  
City: Barnberg, SC Zip: \_\_\_\_\_  
Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
033° 06' 03.0" N 081° 11' 56.0" W

3. PUBLIC SYSTEM NAME: Interstate Truck Terminal MW-3  
PUBLIC SYSTEM NUMBER: \_\_\_\_\_

4. ABANDONMENT:  Yes  No  
Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

7. PERMIT NUMBER: \_\_\_\_\_

8. USE:  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  Monitor Well  Replacement

9. WELL DEPTH (completed) \_\_\_\_\_ ft. Date Started: 4/15/05  
Date Completed: 4/15/05

10. CASING:  Threaded  Welded  
Diam.: 2" Height: Above  Below  \_\_\_\_\_ ft.  
Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
0 in. to 24 ft. depth Drive Shoe?  Yes  No  
\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

11. SCREEN:  
Type: Sch 40 Diam.: 2"  
Slot/Gauge: 0.01 Length: 10'  
Set Between: 24 ft. and 34 ft. NOTE: MULTIPLE SCREENS  
\_\_\_\_\_ ft. and \_\_\_\_\_ ft. USE SECOND SHEET  
Sieve Analysis  Yes (please enclose)  No

12. STATIC WATER LEVEL 5.105 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 22 ft. to 34 ft.  
Effective size #2 Uniformity Coefficient \_\_\_\_\_

16. WELL GROUDED?  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
Depth: From 0 ft. to 20 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: Burt Brown CERT. NO.: 1695  
Address: (Print) 2301-t crown point ex. D. Level:  A  B  C  D (circle one)  
Charlotte, NC 28227  
Telephone No.: 704-845-4010 Fax No.: 704-845-4012

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: H. Burt Brown Date: 4/15/05  
Well Driller

If D Level Driller, provide supervising driller's name: \_\_\_\_\_

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
red orange to reddish brown loose fine silty sand - drt, minor petroleum odor	0	15
reddish brown friable fine silt minor petroleum odor	15	16
Corey fine sand & clay	16	17
reddish brown friable fine silt w/ minor petroleum odor	17	20
light brown loose coarse sand wct, petroleum odor	20	34

\*Indicate Water Bearing Zones  
(Use a 2nd sheet if needed)

5. REMARKS:  
MW-3  
Bentonite 20-22

6. TYPE:  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other augered



## Water Well Record Bureau of Water

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

### 1. WELL OWNER INFORMATION:

Name: Julius Moody (last) (first)

Address: Route 3 Box 192B

City: Bamberg State: SC Zip: 29003

Telephone: Work: \_\_\_\_\_ Home: 803-245-4470

### 2. LOCATION OF WELL:

COUNTY: Allendale

Name: former Interstate Truck Terminal

Street Address: 1375 Capernaum Road

City: Bamberg, SC Zip: \_\_\_\_\_

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

033° 16' 03.0" W 081° 11' 56.0" W

### 3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

Interstate Truck Terminal MW-4

### 4. ABANDONMENT: Yes No

Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
<u>red orange to reddish brown loose, fine silty sand, dirt halodan</u>	<u>0</u>	<u>10</u>
<u>reddish brown, friable fine silty clay, petroleum odor</u>	<u>10</u>	<u>25</u>
<u>light brown loose coarse sand wet</u>	<u>25</u>	<u>34</u>

\*Indicate Water Bearing Zones

(Use a 2nd sheet if needed)

### 6. REMARKS:

MW-4  
Bentonite 20-22

6. TYPE:  Mud Rotary  Jelled  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other augered

### 7. PERMIT NUMBER:

### 8. USE:

- Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  Monitor Well  Replacement

### 9. WELL DEPTH (completed)

34 ft.

Date Started: 4/16/05

Date Completed: 4/16/05

### 10. CASING: Threaded Welded

Diam.: \_\_\_\_\_

Type:  PVC  Galvanized

Steel  Other

0 in. to 24 ft. depth

\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

Height: Above  Below

Surface \_\_\_\_\_ ft.

Weight \_\_\_\_\_ lb./ft.

Drive Shoe?  Yes  No

### 11. SCREEN:

Type: Sch 40 Diam.: 2"

Slot/Gauge: 0.01 Length: 10

Set Between: 24 ft. and 34 ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET

\_\_\_\_\_ ft. and \_\_\_\_\_ ft.

Sieve Analysis  Yes (please enclose)  No

### 12. STATIC WATER LEVEL 9.07 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 22 ft. to 34 ft.

Effective size #2 Uniformity Coefficient \_\_\_\_\_

### 16. WELL GROUTED? Yes No

Neat Cement  Bentonite  Bentonite/Cement  Other

Depth: From 0 ft. to 20 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: Burt Brown CERT. NO.: 1495

Address: (Print) 230-f. Crown Point Executive Drive Level:  A  B  C  D (circle one)

Charlotte, NC 28227

Telephone No.: 704-845-4022 Fax No.: 704-845-4012

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: H. Burt Brown Date: 4/16/05  
 Well Driller

If D Level Driller, provide supervising driller's name:



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

1. WELL OWNER INFORMATION:  
Name: Julius Moody (last) (first)  
Address: Route 3, Box 192B  
City: Bamberg State: SC Zip: 29003  
Telephone: Work: \_\_\_\_\_ Home: 803-245-4170

2. LOCATION OF WELL: COUNTY: Allendale  
Name: former Interstate Truck Terminal  
Street Address: 1375 Capernaum rd  
City: Bamberg, SC Zip: \_\_\_\_\_  
Latitude: \_\_\_\_\_ Longitude: 083° 06' 03.0" W 081° 11' 56.0" W

3. PUBLIC SYSTEM NAME: \_\_\_\_\_ PUBLIC SYSTEM NUMBER: \_\_\_\_\_  
Interstate Truck Terminal MW-5

4. ABANDONMENT:  Yes  No  
Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
<u>reddish brown friable fine silty sand</u>	<u>0</u>	<u>25</u>
<u>dry - no odor</u>		
<u>light brown coarse coarse sand</u>	<u>25-</u>	<u>35-</u>
<u>wet, minor petroleum odor</u>		

\*Indicate Water Bearing Zones  
(Use a 2nd sheet if needed)

5. REMARKS:  
MW-5  
Bentonite 21-23

6. TYPE:  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other augered

7. PERMIT NUMBER: \_\_\_\_\_

8. USE:  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  Monitor Well  Replacement

9. WELL DEPTH (completed) \_\_\_\_\_ ft. Date Started: 4/6/05  
Date Completed: 4/6/05

10. CASING:  Threaded  Welded  
Diam.: 2"  
Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 25 ft. depth  
\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
Height: Above  Below   
Surface \_\_\_\_\_ ft.  
Weight \_\_\_\_\_ lb./ft.  
Drive Shoe?  Yes  No

11. SCREEN: Type: SCH40 Diam.: 8"  
Slot/Gauge: 2-01 Length: 10"  
Set Between: 25 ft. and 35 ft. NOTE: MULTIPLE SCREENS  
USE SECOND SHEET  
\_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
Sieve Analysis  Yes (please enclose)  No

12. STATIC WATER LEVEL 3.89 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 23 ft. to 35 ft.  
Effective size #2 Uniformity Coefficient \_\_\_\_\_

16. WELL GROUTED?  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
Depth: From 0 ft. to 21 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: Burt Brown CERT. NO.: 11695  
Address: (Print) 2301 - Crown Point Level:  A  B  C  D (circle one)  
Executive Drive  
Cherokee, NC 28027  
Telephone No.: 704-845-4012 Fax No.: 704-845-4012

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: H. Burt Brown Date: 4/6/05  
Well Driller

If D Level Driller, provide supervising driller's name: \_\_\_\_\_

**APPENDIX B**  
**Ground Water Sampling Data Sheets**













**APPENDIX C**  
**Laboratory Reports**



Client Name : GRI

Cooler Received/Opened On: 04/08/05 Accessioned By: Benjamin C. Wright

[Signature]  
Log-in Personnel Signature

1. Temperature of Cooler when triaged: 0.2 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO...NA  
a. If yes, how many and where: \_\_\_\_\_
3. Were custody seals on containers ?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None
10. Did all containers arrive in good condition ( unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA  
b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA

If not, record standard ID of preservative used here \_\_\_\_\_

17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

6047

Fed-Ex    UPS    Velocity    DHL    Route    Off-street    Misc.

19. If a Non-Conformance exists, see attached or comments below:

# Test America

ANALYTICAL TESTING CORPORATION

412118

Client Name: GRI

Client #:

2110

Address: 230 E. Crown Point Exec Dr

City/State/Zip Code: Charlotte NC 28227

Project Manager: Shawn Judd

Telephone Number: (704) 845-4010 Fax: (704) 845-4012

Sampler Name: (Print Name) Ken Pimentas

Sampler Signature: Ken Pimentas

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?  
Compliance Monitoring \_\_\_\_\_

Project Name: Interstate Trucking

Project #: 000532

Site/Location ID: Ulmer State: SC

Report To: Shawn Judd

Invoice To: Carrie Kennedy

Quote #: 4207217199 PO#:

NCH 21810

TAT <input type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply) Date Needed: _____ Fax Results: Y N	Date Sampled	Time Sampled	G = Grab, C = Composite Field Filtered	Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	Preservation & # of Containers									Analyze For: BTEX + Naph 8260 PAHs 8270 TPH TOC	QC Deliverables <input type="checkbox"/> None <input type="checkbox"/> Level 2 (Batch QC) <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: _____	REMARKS	
					HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None	Other (Specify)	1	2				3
SAMPLE ID																	
SB-1 (15')	4/5/05	937		S													49810
SB-2 (25')		1120		S													Y 11
SB-3 (8')		1200		S													12
SB-4 (8')		1230		S													13
SB-5 (6')		1355		S													14
SB-6 (6')		1412		S													15
SB-7 (4')	4/5/05	1439		S													16
SB-8/mw-5 (25')	4/6/05	1130		S													49809

Special Instructions:

SCSL

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp:

Custody Seals: Y N N/A  
Bottles Supplied by Test America: Y N

Method of Shipment:

Relinquished By: <u>Ken Pimentas</u>	Date: <u>4/6/05</u>	Time: <u>2030</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: <u>4/6/05</u>	Time: <u>2005</u>

# TestAmerica

ANALYTICAL TESTING CORPORATION

2000 FOSTER CREIGHTON DRIVE • NASHVILLE, TENNESSEE 37204  
800-765-0980 • 615-726-3404 FAX

## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
JOHN BROWN  
2301 CROWN POINT EXEC.DR, STE F  
CHARLOTTE, NC 28227

Lab Number: 05-A49809  
Sample ID: SB-8/MW-5(25')  
Sample Type: Soil  
Site ID:

Project: 00332  
Project Name: INTESTATE TRUCKING  
Sampler: KEN PIMIENTA

Date Collected: 4/ 6/05  
Time Collected: 11:30  
Date Received: 4/ 8/05  
Time Received: 8:05

Analyte	Result	Units	Report Limit	Dil Factor	Date	Time	Analyst	Method	Batch
TOC	ND	mg/kg	1000	1	4/ 8/05	19:04	S. Prayter	9060M	4620

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
Extracted TOC result corrected for dry weight.

End of Sample Report.

## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
JOHN BROWN  
2301 CROWN POINT EXEC.DR, STE F  
CHARLOTTE, NC 28227

Lab Number: 05-A49810  
Sample ID: SB-1(15')  
Sample Type: Soil  
Site ID:

Project: 00332  
Project Name: INTERSTATE TRUCKING  
Sampler: KEN PIMIENTA

Date Collected: 4/ 5/05  
Time Collected: 9:37  
Date Received: 4/ 8/05  
Time Received: 8:05

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<b>*GENERAL CHEMISTRY PARAMETERS*</b>									
% Dry Weight	76.0	%		1.0	4/12/05		A. Runnels	CLP	8232
<b>*ORGANIC PARAMETERS*</b>									
Naphthalene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Acenaphthene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Anthracene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Fluoranthene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Fluorene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Pyrene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Benzo(a)anthracene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Benzo(a)pyrene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Benzo(b)fluoranthene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Benzo(k)fluoranthene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Chrysene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Dibenzo(a,h)anthracene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Acenaphthylene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Benzo(g,h,i)perylene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
Phenanthrene	ND	mg/kg	0.066	1.0	4/12/05	17:37	M.Schott	8270C	6928
<b>*VOLATILE ORGANICS*</b>									
Benzene	ND	mg/kg	0.0017	1.0	4/10/05	19:48	J. Bundy	8260B	6685
Ethylbenzene	ND	mg/kg	0.0017	1.0	4/10/05	19:48	J. Bundy	8260B	6685
Naphthalene	ND	mg/kg	0.00424	1.0	4/10/05	19:48	J. Bundy	8260B	6685
Toluene	ND	mg/kg	0.0017	1.0	4/10/05	19:48	J. Bundy	8260B	6685
Xylenes (Total)	ND	mg/kg	0.0017	1.0	4/10/05	19:48	J. Bundy	8260B	6685



## ANALYTICAL REPORT

Laboratory Number: 05-A49810  
Sample ID: SB-1(15')  
Project: 00332  
Page 2

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Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	30.1 gm	1.0 ml	4/ 9/05		J. Davis	3550
Volatile Organics	5.89 g	5.0 ml	4/ 5/05	9:37	J. Bundy	5035

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCAd4	90.	72. - 125.
VOA Surr Toluene-d8	98.	80. - 124.
VOA Surr, 4-BFB	101.	25. - 185.
VOA Surr, DBFM	97.	73. - 124.
BNA Surr-Nitrobenzene-d5	99.	10. - 153.
BNA Surr-2-Fluorobiphenyl	101.	35. - 106.
BNA Surr-Terphenyl-d14	109.	41. - 117.

LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
All results reported on a wet weight basis.

# TestAmerica

ANALYTICAL TESTING CORPORATION

2960 FOSTER CREEK ROAD DRIVE • NASHVILLE, TENNESSEE 37204  
800-765-0980 • 615-726-3401 FAX

## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
JOHN BROWN  
2301 CROWN POINT EXEC.DR, STE F  
CHARLOTTE, NC 28227

Lab Number: 05-A49811  
Sample ID: SB-2(25')  
Sample Type: Soil  
Site ID:

Project: 00332  
Project Name: INTERSTATE TRUCKING  
Sampler: KEN PIMIENTA

Date Collected: 4/ 5/05  
Time Collected: 11:20  
Date Received: 4/ 8/05  
Time Received: 8:05

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
*GENERAL CHEMISTRY PARAMETERS*									
% Dry Weight	82.5	%		1.0	4/12/05		A. Runnels	CLP	8232
*ORGANIC PARAMETERS*									
TPH (Diesel Range)	604.	mg/kg	100.	10.0	4/12/05	9:53	B. Yanna	8015B	6853
Naphthalene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Acenaphthene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Anthracene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Fluorene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Pyrene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Benzo(a)anthracene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Benzo(a)pyrene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Benzo(b)fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Benzo(k)fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Chrysene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Dibenzo(a,h)anthracene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Acenaphthylene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Benzo(g,h,i)perylene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
Phenanthrene	ND	mg/kg	0.067	1.0	4/12/05	17:58	M.Schott	8270C	6928
*VOLATILE ORGANICS*									
Benzene	ND	mg/kg	0.0018	1.0	4/10/05	20:18	J. Bundy	8260B	6685
Ethylbenzene	0.0292	mg/kg	0.0018	1.0	4/10/05	20:18	J. Bundy	8260B	6685
Naphthalene	0.00470	mg/kg	0.00461	1.0	4/12/05	3:00	J. Adams	8260B	7390
Toluene	0.0025	mg/kg	0.0018	1.0	4/10/05	20:18	J. Bundy	8260B	6685
Xylenes (Total)	0.185	mg/kg	0.0018	1.0	4/10/05	20:18	J. Bundy	8260B	6685

Sample report continued . . .

## ANALYTICAL REPORT

Laboratory Number: 05-A49811

Sample ID: SB-2(25')

Project: 00332

Page 2

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### Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	30.0 gm	1.0 ml	4/ 9/05		J. Davis	3550
EPH/DRO	25.0 gm	1.0 ml	4/ 9/05		K. Turner	3550
Volatile Organics	5.42 g	5.0 ml	4/ 5/05	11:20	J. Bundy	5035

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Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCAd4	93.	72. - 125.
VOA Surr Toluene-d8	99.	80. - 124.
VOA Surr, 4-BFB	104.	25. - 185.
VOA Surr, DBFM	97.	73. - 124.
BNA Surr-Nitrobenzene-d5	93.	10. - 153.
BNA Surr-2-Fluorobiphenyl	90.	35. - 106.
BNA Surr-Terphenyl-d14	106.	41. - 117.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

The TRPH-Diesel surrogate was diluted out due to sample matrix.

## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
JOHN BROWN  
2301 CROWN POINT EXEC.DR, STE F  
CHARLOTTE, NC 28227

Lab Number: 05-A49812  
Sample ID: SB-3(8')  
Sample Type: Soil  
Site ID:

Project: 00332  
Project Name: INTERSTATE TRUCKING  
Sampler: KEN PIMIENTA

Date Collected: 4/ 5/05  
Time Collected: 12:00  
Date Received: 4/ 8/05  
Time Received: 8:05

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<b>*GENERAL CHEMISTRY PARAMETERS*</b>									
% Dry Weight	80.8	%		1.0	4/12/05		A. Runnels	CLP	8232
<b>*ORGANIC PARAMETERS*</b>									
Naphthalene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Acenaphthene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Anthracene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Fluorene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Pyrene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Benzo(a)anthracene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Benzo(a)pyrene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Benzo(b)fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Benzo(k)fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Chrysene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Dibenzo(a,h)anthracene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Acenaphthylene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Benzo(g,h,i)perylene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
Phenanthrene	ND	mg/kg	0.067	1.0	4/12/05	18:19	M.Schott	8270C	6928
<b>*VOLATILE ORGANICS*</b>									
Benzene	ND	mg/kg	0.0014	1.0	4/10/05	20:48	J. Adams	8260B	7115
Ethylbenzene	ND	mg/kg	0.0014	1.0	4/10/05	20:48	J. Adams	8260B	7115
Naphthalene	ND	mg/kg	0.00716	1.0	4/10/05	20:48	J. Adams	8260B	7115
Toluene	ND	mg/kg	0.0014	1.0	4/10/05	20:48	J. Adams	8260B	7115
Xylenes (Total)	ND	mg/kg	0.0014	1.0	4/10/05	20:48	J. Adams	8260B	7115

## ANALYTICAL REPORT

Laboratory Number: 05-A49812

Sample ID: SB-3(8')

Project: 00332

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### Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	30.0 gm	1.0 ml	4/ 9/05		J. Davis	3550
Volatile Organics	6.98 g	5.0 ml	4/ 5/05	12:00	J. Bundy	5035

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Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCAd4	90.	72. - 125.
VOA Surr Toluene-d8	98.	80. - 124.
VOA Surr, 4-BFB	100.	25. - 185.
VOA Surr, DBFM	95.	73. - 124.
BNA Surr-Nitrobenzene-d5	90.	10. - 153.
BNA Surr-2-Fluorobiphenyl	93.	35. - 106.
BNA Surr-Terphenyl-d14	103.	41. - 117.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
JOHN BROWN  
2301 CROWN POINT EXEC.DR, STE F  
CHARLOTTE, NC 28227

Lab Number: 05-A49813  
Sample ID: SB-4(8')  
Sample Type: Soil  
Site ID:

Project: 00332  
Project Name: INTERSTATE TRUCKING  
Sampler: KEN PIMIENTA

Date Collected: 4/ 5/05  
Time Collected: 12:30  
Date Received: 4/ 8/05  
Time Received: 8:05

Analyte	Result	Units	Report Limit	Dil Factor	Analysis		Analyst	Method	Batch
					Date	Time			
<b>*GENERAL CHEMISTRY PARAMETERS*</b>									
% Dry Weight	88.9	%		1.0	4/12/05		A. Runnels	CLP	8232
<b>*ORGANIC PARAMETERS*</b>									
Naphthalene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Acenaphthene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Anthracene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Fluorene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Pyrene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Benzo(a)anthracene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Benzo(a)pyrene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Benzo(b)fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Benzo(k)fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Chrysene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Dibenzo(a,h)anthracene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Acenaphthylene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Benzo(g,h,i)perylene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
Phenanthrene	ND	mg/kg	0.067	1.0	4/12/05	18:40	M.Schott	8270C	6928
<b>*VOLATILE ORGANICS*</b>									
Benzene	ND	mg/kg	0.0016	1.0	4/10/05	22:19	J. Bundy	8260B	6685
Ethylbenzene	ND	mg/kg	0.0016	1.0	4/10/05	22:19	J. Bundy	8260B	6685
Naphthalene	ND	mg/kg	0.00408	1.0	4/10/05	22:19	J. Bundy	8260B	6685
Toluene	ND	mg/kg	0.0016	1.0	4/10/05	22:19	J. Bundy	8260B	6685
Xylenes (Total)	ND	mg/kg	0.0016	1.0	4/10/05	22:19	J. Bundy	8260B	6685

## ANALYTICAL REPORT

Laboratory Number: 05-A49813

Sample ID: SB-4(8')

Project: 00332

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### Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	29.9 gm	1.0 ml	4/ 9/05		J. Davis	3550
Volatile Organics	6.12 g	5.0 ml	4/ 5/05	12:30	J. Bundy	5035

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Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCAd4	93.	72. - 125.
VOA Surr Toluene-d8	98.	80. - 124.
VOA Surr, 4-BFB	101.	25. - 185.
VOA Surr, DBFM	94.	73. - 124.
BNA Surr-Nitrobenzene-d5	90.	10. - 153.
BNA Surr-2-Fluorobiphenyl	93.	35. - 106.
BNA Surr-Terphenyl-d14	102.	41. - 117.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

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## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
JOHN BROWN  
2301 CROWN POINT EXEC.DR, STE F  
CHARLOTTE, NC 28227

Lab Number: 05-A49814  
Sample ID: SB-5(6')  
Sample Type: Soil  
Site ID:

Project: 00332  
Project Name: INTERSTATE TRUCKING  
Sampler: KEN PIMIENTA

Date Collected: 4/ 5/05  
Time Collected: 13:55  
Date Received: 4/ 8/05  
Time Received: 8:05

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<b>*GENERAL CHEMISTRY PARAMETERS*</b>									
% Dry Weight	84.8	%		1.0	4/12/05		A. Runnels	CLP	8232
<b>*ORGANIC PARAMETERS*</b>									
Naphthalene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Acenaphthene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Anthracene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Fluorene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Pyrene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Benzo(a)anthracene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Benzo(a)pyrene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Benzo(b)fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Benzo(k)fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Chrysene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Dibenzo(a,h)anthracene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Acenaphthylene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Benzo(g,h,i)perylene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
Phenanthrene	ND	mg/kg	0.067	1.0	4/12/05	19:01	M.Schott	8270C	6928
<b>*VOLATILE ORGANICS*</b>									
Benzene	ND	mg/kg	0.0016	1.0	4/10/05	21:49	J. Bundy	8260B	6685
Ethylbenzene	ND	mg/kg	0.0016	1.0	4/10/05	21:49	J. Bundy	8260B	6685
Naphthalene	ND	mg/kg	0.00405	1.0	4/10/05	21:49	J. Bundy	8260B	6685
Toluene	ND	mg/kg	0.0016	1.0	4/10/05	21:49	J. Bundy	8260B	6685
Xylenes (Total)	ND	mg/kg	0.0016	1.0	4/10/05	21:49	J. Bundy	8260B	6685



## ANALYTICAL REPORT

Laboratory Number: 05-A49814  
Sample ID: SB-5(6')  
Project: 00332  
Page 2

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### Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	29.8 gm	1.0 ml	4/ 9/05		J. Davis	3550
Volatile Organics	6.17 g	5.0 ml	4/ 5/05	13:55	J. Bundy	5035

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Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCAd4	92.	72. - 125.
VOA Surr Toluene-d8	97.	80. - 124.
VOA Surr, 4-BFB	100.	25. - 185.
VOA Surr, DBFM	96.	73. - 124.
BNA Surr-Nitrobenzene-d5	96.	10. - 153.
BNA Surr-2-Fluorobiphenyl	92.	35. - 106.
BNA Surr-Terphenyl-d14	99.	41. - 117.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
All results reported on a wet weight basis.

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## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
JOHN BROWN  
2301 CROWN POINT EXEC.DR, STE F  
CHARLOTTE, NC 28227

Lab Number: 05-A49815  
Sample ID: SB-6(6')  
Sample Type: Soil  
Site ID:

Project: 00332  
Project Name: INTERSTATE TRUCKING  
Sampler: KEN PIMIENTA

Date Collected: 4/ 5/05  
Time Collected: 14:12  
Date Received: 4/ 8/05  
Time Received: 8:05

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<b>*GENERAL CHEMISTRY PARAMETERS*</b>									
% Dry Weight	78.6	%		1.0	4/12/05		A. Runnels	CLP	8232
<b>*ORGANIC PARAMETERS*</b>									
Naphthalene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Acenaphthene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Anthracene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Fluorene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Pyrene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Benzo(a)anthracene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Benzo(a)pyrene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Benzo(b)fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Benzo(k)fluoranthene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Chrysene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Dibenzo(a,h)anthracene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Acenaphthylene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Benzo(g,h,i)perylene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
Phenanthrene	ND	mg/kg	0.067	1.0	4/12/05	19:22	M. Schott	8270C	6928
<b>*VOLATILE ORGANICS*</b>									
Benzene	ND	mg/kg	0.0017	1.0	4/10/05	21:19	J. Bundy	8260B	6685
Ethylbenzene	ND	mg/kg	0.0017	1.0	4/10/05	21:19	J. Bundy	8260B	6685
Naphthalene	ND	mg/kg	0.00427	1.0	4/10/05	21:19	J. Bundy	8260B	6685
Toluene	ND	mg/kg	0.0017	1.0	4/10/05	21:19	J. Bundy	8260B	6685
Xylenes (Total)	ND	mg/kg	0.0017	1.0	4/10/05	21:19	J. Bundy	8260B	6685

## ANALYTICAL REPORT

Laboratory Number: 05-A49815  
Sample ID: SB-6(6')  
Project: 00332  
Page 2

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### Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	29.8 gm	1.0 ml	4/ 9/05		J. Davis	3550
Volatile Organics	5.85 g	5.0 ml	4/ 5/05	14:12	J. Bundy	5035

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Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCAd4	83.	72. - 125.
VOA Surr Toluene-d8	99.	80. - 124.
VOA Surr, 4-BFB	101.	25. - 185.
VOA Surr, DBEM	94.	73. - 124.
BNA Surr-Nitrobenzene-d5	96.	10. - 153.
BNA Surr-2-Fluorobiphenyl	96.	35. - 106.
BNA Surr-Terphenyl-d14	103.	41. - 117.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
All results reported on a wet weight basis.

# TestAmerica

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## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
 JOHN BROWN  
 2301 CROWN POINT EXEC.DR, STE F  
 CHARLOTTE, NC 28227

Lab Number: 05-A49816  
 Sample ID: SB-7(4')  
 Sample Type: Soil  
 Site ID:

Project: 00332  
 Project Name: INTERSTATE TRUCKING  
 Sampler: KEN PIMIENIA

Date Collected: 4/ 5/05  
 Time Collected: 14:39  
 Date Received: 4/ 8/05  
 Time Received: 8:05

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<b>*GENERAL CHEMISTRY PARAMETERS*</b>									
% Dry Weight	92.3	%		1.0	4/12/05		A. Runnels	CLP	6779
<b>*ORGANIC PARAMETERS*</b>									
Naphthalene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Acenaphthene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Anthracene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Fluoranthene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Fluorene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Pyrene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Benzo(a)anthracene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Benzo(a)pyrene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Benzo(b)fluoranthene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Benzo(k)fluoranthene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Chrysene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Dibenzo(a,h)anthracene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Acenaphthylene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Benzo(g,h,i)perylene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
Phenanthrene	ND	mg/kg	0.066	1.0	4/12/05	19:43	M. Schott	8270C	6928
<b>*VOLATILE ORGANICS*</b>									
Benzene	ND	mg/kg	0.0015	1.0	4/10/05	22:49	J. Bundy	8260B	6685
Ethylbenzene	ND	mg/kg	0.0015	1.0	4/10/05	22:49	J. Bundy	8260B	6685
Naphthalene	ND	mg/kg	0.00383	1.0	4/10/05	22:49	J. Bundy	8260B	6685
Toluene	ND	mg/kg	0.0015	1.0	4/10/05	22:49	J. Bundy	8260B	6685
Xylenes (Total)	ND	mg/kg	0.0015	1.0	4/10/05	22:49	J. Bundy	8260B	6685

## ANALYTICAL REPORT

Laboratory Number: 05-A49816  
Sample ID: SB-7(4')  
Project: 00332  
Page 2

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### Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	30.1 gm	1.0 ml	4/ 9/05		J. Davis	3550
Volatile Organics	6.52 g	5.0 ml	4/ 5/05	14:39	J. Bundy	5035

---

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCAd4	87.	72. - 125.
VOA Surr Toluene-d8	99.	80. - 124.
VOA Surr, 4-BFB	101.	25. - 185.
VOA Surr, DBFM	95.	73. - 124.
BNA Surr-Nitrobenzene-d5	87.	10. - 153.
BNA Surr-2-Fluorobiphenyl	89.	35. - 106.
BNA Surr-Terphenyl-d14	96.	41. - 117.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
All results reported on a wet weight basis.

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## PROJECT QUALITY CONTROL DATA

Project Number: 00332

Project Name: INTERSTATE TRUCKING

Page: 1

Laboratory Receipt Date: 4/ 8/05

### Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
**UST ANALYSIS**								
TPH (Diesel Range)	mg/kg	98.8	172.	40.0	183#	28. - 143.	6853	05-A49962
Naphthalene	mg/kg	< 0.066	1.48	1.67	89	23. - 121.	6928	'49346
Acenaphthene	mg/kg	< 0.066	1.52	1.67	91	41. - 112.	6928	'49346
Anthracene	mg/kg	< 0.066	1.68	1.67	101	47. - 123.	6928	'49346
Fluoranthene	mg/kg	< 0.066	1.65	1.67	99	45. - 126.	6928	'49346
Fluorene	mg/kg	< 0.066	1.58	1.67	95	38. - 121.	6928	'49346
Pyrene	mg/kg	< 0.066	1.62	1.67	97	38. - 141.	6928	'49346
Benzo(a)anthracene	mg/kg	< 0.066	1.68	1.67	101	36. - 138.	6928	'49346
Benzo(a)pyrene	mg/kg	< 0.066	1.68	1.67	101	34. - 138.	6928	'49346
Benzo(b)fluoranthene	mg/kg	< 0.066	1.48	1.67	89	30. - 137.	6928	'49346
Benzo(k)fluoranthene	mg/kg	< 0.066	1.85	1.67	111	28. - 142.	6928	'49346
Chrysene	mg/kg	< 0.066	1.58	1.67	95	33. - 137.	6928	'49346
Dibenzo(a,h)anthracene	mg/kg	< 0.066	1.75	1.67	105	19. - 149.	6928	'49346
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.066	1.72	1.67	103	21. - 146.	6928	'49346
Acenaphthylene	mg/kg	< 0.066	1.65	1.67	99	42. - 116.	6928	'49346
Benzo(g,h,i)perylene	mg/kg	< 0.066	1.65	1.67	99	16. - 147.	6928	'49346
Phenanthrene	mg/kg	< 0.066	1.58	1.67	95	42. - 123.	6928	'49346
**VOA PARAMETERS**								
Benzene	mg/kg	< 0.0020	0.0665	0.0500	133	53 - 136	6685	48312
Benzene	mg/kg	< 0.0008	0.0665	0.0500	133	53 - 136	7115	blank
Toluene	mg/kg	0.0009	0.0662	0.0500	131	43 - 139	6685	48312
Toluene	mg/kg	< 0.0005	0.0662	0.0500	132	43 - 139	7115	blank
VOA Surr, 1,2-DCAd4	% Rec				85	72 - 125	6685	
VOA Surr, 1,2-DCAd4	% Rec				85	72 - 125	7115	
VOA Surr Toluene-d8	% Rec				101	80 - 124	6685	
VOA Surr Toluene-d8	% Rec				101	80 - 124	7115	
VOA Surr, 4-BFB	% Rec				99	25 - 185	6685	
VOA Surr, 4-BFB	% Rec				99	25 - 185	7115	
VOA Surr, DBFM	% Rec				97	73 - 124	6685	
VOA Surr, DBFM	% Rec				97	73 - 124	7115	

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PROJECT QUALITY CONTROL DATA  
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 Page: 2  
 Laboratory Receipt Date: 4/ 8/05

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
**UST PARAMETERS**						
TPH (Diesel Range)	mg/kg	172.	194.	12.02	51.	6853
Naphthalene	mg/kg	1.48	1.52	2.67	37.	6928
Acenaphthene	mg/kg	1.52	1.58	3.87	34.	6928
Anthracene	mg/kg	1.68	1.72	2.35	28.	6928
Fluoranthene	mg/kg	1.65	1.68	1.80	33.	6928
Fluorene	mg/kg	1.58	1.58	0.00	30.	6928
Pyrene	mg/kg	1.62	1.68	3.64	33.	6928
Benzo(a)anthracene	mg/kg	1.68	1.72	2.35	31.	6928
Benzo(a)pyrene	mg/kg	1.68	1.72	2.35	31.	6928
Benzo(b)fluoranthene	mg/kg	1.48	1.58	6.54	40.	6928
Benzo(k)fluoranthene	mg/kg	1.85	1.78	3.86	33.	6928
Chrysene	mg/kg	1.58	1.62	2.50	31.	6928
Dibenzo(a,h)anthracene	mg/kg	1.75	1.75	0.00	34.	6928
Indeno(1,2,3-cd)pyrene	mg/kg	1.72	1.75	1.73	34.	6928
Acenaphthylene	mg/kg	1.65	1.75	5.88	30.	6928
Benzo(g,h,i)perylene	mg/kg	1.65	1.72	4.15	36.	6928
Phenanthrene	mg/kg	1.58	1.62	2.50	33.	6928
**VOA PARAMETERS**						
Benzene	mg/kg	0.0665	0.0567	15.91	34.	6685
Benzene	mg/kg	0.0665	0.0567	15.91	34.	7115
Toluene	mg/kg	0.0662	0.0562	16.34	39.	6685
Toluene	mg/kg	0.0662	0.0562	16.34	39.	7115
VOA Surr, 1,2-DCAd4	% Rec		90.			6685
VOA Surr, 1,2-DCAd4	% Rec		90.			7115
VOA Surr Toluene-d8	% Rec		99.			6685
VOA Surr Toluene-d8	% Rec		99.			7115
VOA Surr, 4-BFB	% Rec		97.			6685
VOA Surr, 4-BFB	% Rec		97.			7115
VOA Surr, DBFM	% Rec		97.			6685
VOA Surr, DBFM	% Rec		97.			7115

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 00332**  
**Project Name: INTERSTATE TRUCKING**  
**Page: 3**  
**Laboratory Receipt Date: 4/ 8/05**

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
<b>**UST PARAMETERS**</b>						
TPH (Diesel Range)	mg/kg	40.0	39.1	98	54 - 126	6853
<b>**UST PARAMETERS**</b>						
Naphthalene	mg/kg	1.67	1.52	91	43 - 107	6928
Acenaphthene	mg/kg	1.67	1.58	95	52 - 108	6928
Anthracene	mg/kg	1.67	1.72	103	56 - 123	6928
Fluoranthene	mg/kg	1.67	1.65	99	58 - 118	6928
Fluorene	mg/kg	1.67	1.58	95	50 - 115	6928
Pyrene	mg/kg	1.67	1.68	101	39 - 141	6928
Benzo(a)anthracene	mg/kg	1.67	1.75	105	41 - 138	6928
Benzo(a)pyrene	mg/kg	1.67	1.72	103	39 - 138	6928
Benzo(b)fluoranthene	mg/kg	1.67	1.52	91	34 - 136	6928
Benzo(k)fluoranthene	mg/kg	1.67	1.78	107	32 - 142	6928
Chrysene	mg/kg	1.67	1.62	97	38 - 135	6928
Dibenzo(a,h)anthracene	mg/kg	1.67	1.78	107	25 - 149	6928
Indeno(1,2,3-cd)pyrene	mg/kg	1.67	1.75	105	25 - 146	6928
Acenaphthylene	mg/kg	1.67	1.72	103	54 - 111	6928
Benzo(g,h,i)perylene	mg/kg	1.67	1.68	101	19 - 147	6928
Phenanthrene	mg/kg	1.67	1.58	95	55 - 115	6928
<b>**VOA PARAMETERS**</b>						
Benzene	mg/kg	0.0500	0.0555	111	76 - 124	6685
Benzene	mg/kg	0.0500	0.0555	111	76 - 124	7115
Ethylbenzene	mg/kg	0.0500	0.0515	103	70 - 128	6685
Ethylbenzene	mg/kg	0.0500	0.0515	103	70 - 128	7115
Naphthalene	mg/kg	0.0500	0.0532	106	59 - 152	6685
Naphthalene	mg/kg	0.0500	0.0532	106	59 - 152	7115
Naphthalene	mg/kg	0.0500	0.0534	107	59 - 152	7390
Toluene	mg/kg	0.0500	0.0531	106	72 - 125	6685
Toluene	mg/kg	0.0500	0.0531	106	72 - 125	7115
Xylenes (Total)	mg/kg	0.150	0.152	101	71 - 129	6685
Xylenes (Total)	mg/kg	0.150	0.152	101	71 - 129	7115



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PROJECT QUALITY CONTROL DATA  
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VOA Surr, 1,2-DCAd4	% Rec			90	72 - 125	6685
VOA Surr, 1,2-DCAd4	% Rec			90	72 - 125	7115
VOA Surr, 1,2-DCAd4	% Rec			95	72 - 125	7390
VOA Surr Toluene-d8	% Rec			101	80 - 124	6685
VOA Surr Toluene-d8	% Rec			101	80 - 124	7115
VOA Surr Toluene-d8	% Rec			101	80 - 124	7390
VOA Surr, 4-BFB	% Rec			100	25 - 185	6685
VOA Surr, 4-BFB	% Rec			100	25 - 185	7115
VOA Surr, 4-BFB	% Rec			103	25 - 185	7390
VOA Surr, DBFM	% Rec			99	73 - 124	6685
VOA Surr, DBFM	% Rec			99	73 - 124	7115
VOA Surr, DBFM	% Rec			98	73 - 124	7390
**MISC PARAMETERS**						
TOC	mg/kg	29900	27300	91	90 - 110	4620

### Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
TOC	mg/kg	3690	3540	4.15	25.	4620	05-A48702

### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
**UST PARAMETERS**					
TPH (Diesel Range)	< 0.10	mg/kg	6853	4/11/05	19:10
Naphthalene	< 0.066	mg/kg	6928	4/13/05	12:53
Acenaphthene	< 0.066	mg/kg	6928	4/13/05	12:53
Anthracene	< 0.066	mg/kg	6928	4/13/05	12:53
Fluoranthene	< 0.066	mg/kg	6928	4/13/05	12:53
Fluorene	< 0.066	mg/kg	6928	4/13/05	12:53
Pyrene	< 0.066	mg/kg	6928	4/13/05	12:53
Benzo(a)anthracene	< 0.066	mg/kg	6928	4/13/05	12:53
Benzo(a)pyrene	< 0.066	mg/kg	6928	4/13/05	12:53
Benzo(b)fluoranthene	< 0.066	mg/kg	6928	4/13/05	12:53
Benzo(k)fluoranthene	< 0.066	mg/kg	6928	4/13/05	12:53

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PROJECT QUALITY CONTROL DATA  
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Project Name: INTERSTATE TRUCKING  
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## Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Chrysene	< 0.066	mg/kg	6928	4/13/05	12:53
Dibenzo(a,h)anthracene	< 0.066	mg/kg	6928	4/13/05	12:53
Indeno(1,2,3-cd)pyrene	< 0.066	mg/kg	6928	4/13/05	12:53
Acenaphthylene	< 0.066	mg/kg	6928	4/13/05	12:53
Benzo(g,h,i)perylene	< 0.066	mg/kg	6928	4/13/05	12:53
Phenanthrene	< 0.066	mg/kg	6928	4/13/05	12:53
**VOA PARAMETERS**					
Benzene	< 0.0008	mg/kg	6685	4/10/05	14:48
Benzene	< 0.0008	mg/kg	7115	4/10/05	14:48
Ethylbenzene	< 0.0005	mg/kg	6685	4/10/05	14:48
Ethylbenzene	< 0.0005	mg/kg	7115	4/10/05	14:48
Naphthalene	< 0.00130	mg/kg	6685	4/10/05	14:48
Naphthalene	< 0.00130	mg/kg	7115	4/10/05	14:48
Naphthalene	< 0.00130	mg/kg	7390	4/11/05	21:55
Toluene	< 0.0005	mg/kg	6685	4/10/05	14:48
Toluene	< 0.0005	mg/kg	7115	4/10/05	14:48
Xylenes (Total)	< 0.0013	mg/kg	6685	4/10/05	14:48
Xylenes (Total)	< 0.0013	mg/kg	7115	4/10/05	14:48
VOA Surr, 1,2-DCAd4	88.	% Rec	6685	4/10/05	14:48
VOA Surr, 1,2-DCAd4	88.	% Rec	7115	4/10/05	14:48
VOA Surr, 1,2-DCAd4	101.	% Rec	7390	4/11/05	21:55
VOA Surr Toluene-d8	100.	% Rec	6685	4/10/05	14:48
VOA Surr Toluene-d8	100.	% Rec	7115	4/10/05	14:48
VOA Surr Toluene-d8	100.	% Rec	7390	4/11/05	21:55
VOA Surr, 4-BFB	101.	% Rec	6685	4/10/05	14:48
VOA Surr, 4-BFB	101.	% Rec	7115	4/10/05	14:48
VOA Surr, 4-BFB	101.	% Rec	7390	4/11/05	21:55
VOA Surr, DBFM	94.	% Rec	6685	4/10/05	14:48
VOA Surr, DBFM	94.	% Rec	7115	4/10/05	14:48
VOA Surr, DBFM	101.	% Rec	7390	4/11/05	21:55
**MISC PARAMETERS**					
TOC	< 1000	mg/kg	4620	4/ 8/05	19:04

# = Value outside Laboratory historical or method prescribed QC limits.

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4/20/05

**GEOLOGICAL RESOURCES 2110**  
**JOHN BROWN**  
**2301 CROWN POINT EXEC.DR, STE F**  
**CHARLOTTE, NC 28227**

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: INTERSTATE TRUCKING  
Project Number: 00332.  
Laboratory Project Number: 412118.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
SB-8/MW-5(25')	05-A49809	4/ 6/05
SB-1(15')	05-A49810	4/ 5/05
SB-2(25')	05-A49811	4/ 5/05
SB-3(8')	05-A49812	4/ 5/05
SB-4(8')	05-A49813	4/ 5/05
SB-5(6')	05-A49814	4/ 5/05
SB-6(6')	05-A49815	4/ 5/05
SB-7(4')	05-A49816	4/ 5/05

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Page 2

Sample Identification

Lab Number

Collection Date

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These results relate only to the items tested.  
This report shall not be reproduced except in full and with  
permission of the laboratory.

Report Approved By:

*Gail A. Lage*

Report Date: 4/20/05

Johnny A. Mitchell, Laboratory Director  
Michael H. Dunn, M.S., Technical Director  
Pamela A. Langford, Senior Project Manager  
Eric S. Smith, QA/QC Director  
Sandra McMillin, Technical Services

Gail A. Lage, Senior Project Manager  
Glenn L. Norton, Technical Services  
Kelly S. Comstock, Technical Services  
Roxanne L. Connor, Senior Project Manager  
Mark Hollingsworth, Director of Project

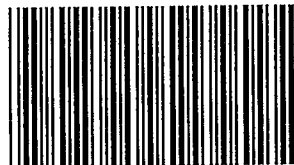
Laboratory Certification Number: 84009

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Nashville Division

COOLER RECEIPT FORM

BC#



412014

Client Name : GRI

Cooler Received/Opened On: 04/08/05 Accessioned By: Benjamin C. Wright

Log<sup>n</sup> Personnel Signature

1. Temperature of Cooler when triaged: 0.7 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES  NO  NA 
  - a. If yes, how many and where: \_\_\_\_\_
3. Were custody seals on containers ?..... NO  YES  NA
4. Were the seals intact, signed, and dated correctly?..... YES  NO  NA
5. Were custody papers inside cooler?..... YES  NO  NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES  NO  NA
7. Did you sign the custody papers in the appropriate place?..... YES  NO  NA
8. What kind of packing material used?  Bubblewrap  Peanuts  Vermiculite  Other  None
9. Cooling process:  Ice  Ice-pack  Ice (direct contact)  Dry ice  Other  None
10. Did all containers arrive in good condition ( unbroken)?..... YES  NO  NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES  NO  NA
12. Did all container labels and tags agree with custody papers?..... YES  NO  NA
13. Were correct containers used for the analysis requested?..... YES  NO  NA
14. a. Were VOA vials received?..... YES  NO  NA 
  - b. Was there any observable head space present in any VOA vial?..... NO  YES  NA
15. Was sufficient amount of sample sent in each container?..... YES  NO  NA
16. Were correct preservatives used?..... YES  NO  NA

If not, record standard ID of preservative used here \_\_\_\_\_

17. Was residual chlorine present?..... NO  YES  NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

2031

Fed-Ex    UPS    Velocity    DHL    Route    Off-street    Misc.

19. If a Non-Conformance exists, see attached or comments below:

# Test America

ANALYTICAL TESTING CORPORATION

## 412014

Client Name: GRI Client #: Q1W

Address: 2301-F Crowl Point Exec Dr

City/State/Zip Code: Charlotte NC 28227

Project Manager: ~~Shawn Judd~~ Shawn Judd

Telephone Number: (704) 845-4016 Fax: (704) 845-4012

Sampler Name: (Print Name) Ken Pimenton

Sampler Signature: [Signature]

To assist us in using the proper analytical methods,  
is this work being conducted for regulatory purposes?  
Compliance Monitoring \_\_\_\_\_

Project Name: Inerstate Trucking

Project #: 00332

Site/Location ID: Ulmer State: SC

Report To: ~~Shawn Judd~~ Shawn Judd

Invoice To: Carrie Kennedy

Quote #: 4204217199 PO#:

NCH 26784

TAT <input type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed:	Fax Results: Y N	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix Preservation & # of Containers										Analyze For:				QC Deliverables <input type="checkbox"/> None <input type="checkbox"/> Level 2 (Batch QC) <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: _____					
							SL - Sludge	DW - Drinking Water	GW - Groundwater	S - Soil/Solid	WWW - Wastewater	Specify Other	HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None	Other (Specify)	BTEX Napht, MTBE		Filtered Lead	Nitrates/Sulfate	EDB 8011	Ferrous Iron	Methane
SAMPLE ID																									REMARKS	
MW-1			4/6/05	1530			GW		3																	
MW-2				1548			GW		3																	
MW-3				1610			GW	1	10																	
MW-4				1429			GW	1	10																	
MW-5			4/10/05	1707			GW	1	10																	
WSW-2			4/6/05	1530																						ownes kept off property
Special Instructions: <u>SC SL MW-1 + MW-2 Filtered Pb in Amber liter</u>																							LABORATORY COMMENTS: Init Lab Temp: Rec Lab Temp: Custody Seals: Y N N/A Bottles Supplied by Test America: Y N Method of Shipment:			
Relinquished By: <u>[Signature]</u>	Date: <u>4/6/05</u>	Time: <u>2030</u>	Received By:	Date:	Time:																					
Relinquished By:	Date:	Time:	Received By:	Date:	Time:																					
Relinquished By:	Date:	Time:	Received By: <u>[Signature]</u>	Date: <u>4/8</u>	Time: <u>805</u>																					

## Sample NonConformance/COC Revision Form

**Initiated by:** Bwright      **Phone:** 704 392 1164      **NC Closed**   
**Client Name:** GEOLOGICAL RE      **Sample Range:** 49268-72      **Date Closed** 4/8/2005  
**Client Contact:** SHAWN JUDD      **SDG:** 412014  
**Client Account:** 2110      **Analyst:** 280  
**Date Created:** 4/8/2005      **Supervisor:** Paul Buckingham  
**NC #:** 49272      **NC Type:** NC Analytical 1  
**Project Name:** INTERSTATE TUDDING      **Terminal Manager:**  
**Project Number:** 00332  
**Project Origin** SC  
**Regulatory :**

**Process:** Other NC/Process: See Comment Section Below

**Corrected By:** Kenny Bundy

**Action:** Process Completed

**Closed:**  kbundy

**Comments:** Comment added by: Bwright on 4/8/2005 3:54:01 PM  
OK

\*\*\*\*\*

Comment added by: kbundy on 4/8/2005 3:45:57 PM  
Updated without Comment

\*\*\*\*\*

Comment added by: kbundy on 4/8/2005 3:45:44 PM  
Per Candace Patterson, the client wants to run PAH on the last 3 samples using the South Carolina list (5 compounds).

\*\*\*\*\*

CLIENT SENT IN EXTRA LITER(MARKED PAH) DO THEY WANT TO RUN PAH?

## Sample NonConformance/COC Revision Form

Initiated by: Bwright Phone: 704 392 1164 NC Closed   
Client Name: GEOLOGICAL RE Sample Range: 49268-72 Date Closed 4/11/2005  
Client Contact: SHAWN JUDD SDG: 412014  
Client Account: 2110 Analyst: 280  
Date Created: 4/8/2005 Supervisor: Paul Buckingham  
NC #: 49272 NC Type: NC Analytical 1  
Project Name: INTERSTATE TUDDING Terminal Manager:  
Project Number: 00332  
Project Origin SC  
Regulatory :

Process: Other NC/Process: See Comment Section Below

Corrected By: Kenny Bundy

Action: Process Completed

Closed:  kbundy

Process: Change/Verify Method

Corrected By: Mark Beasley

Action: Corrected action not chosen

Closed:  mbeasley

Comments: Comment added by: mbeasley on 4/11/2005 9:56:25 AM  
Changed #49268-69 back to filtered lead

\*\*\*\*\*

Comment added by: kbundy on 4/11/2005 9:45:40 AM  
Please change the samples back to Lead Filtered per Candace patterson, the last 3 samples should be Total Lead, and the first 2 samples are filtered lead. 49268-269.

\*\*\*\*\*

Comment added by: kbundy on 4/11/2005 9:31:04 AM  
NC closed with out comments

\*\*\*\*\*

Comment added by: mbeasley on 4/11/2005 9:27:09 AM  
NC closed with out comments

\*\*\*\*\*

Comment added by: mbeasley on 4/11/2005 9:26:57 AM  
DONE

\*\*\*\*\*

Comment added by: kbundy on 4/11/2005 9:00:11 AM  
Please change the Filtered Lead to Total Lead per Candace Patterson.

\*\*\*\*\*

Comment added by: Bwright on 4/8/2005 3:54:01 PM  
OK

\*\*\*\*\*

Comment added by: kbundy on 4/8/2005 3:45:57 PM  
Updated without Comment

\*\*\*\*\*

Comment added by: kbundy on 4/8/2005 3:45:44 PM  
Per Candace Patterson, the client wants to run PAH on the last 3 samples using the South Carolina list (5 compounds).



\*\*\*\*\*

CLIENT SENT IN EXTRA LITER(MARKED PAH) DO THEY WANT TO RUN PAH?

A large, stylized handwritten signature in black ink, consisting of three distinct, overlapping loops that resemble a cursive 'Z' or 'S' shape.

4/14/05

GEOLOGICAL RESOURCES 2110  
JOHN BROWN  
2301 CROWN POINT EXEC.DR, STE F  
CHARLOTTE, NC 28227

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: INTERSTATE TRUCKING  
Project Number: 00332.  
Laboratory Project Number: 412014.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Page 1

Sample Identification	Lab Number	Collection Date
MW-1	05-A49268	4/ 6/05
MW-2	05-A49269	4/ 6/05
MW-3	05-A49270	4/ 6/05
MW-4	05-A49271	4/ 6/05
MW-5	05-A49272	4/ 6/05

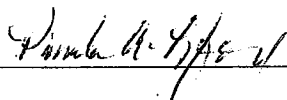
Sample Identification

Lab Number

Collection Date

These results relate only to the items tested.  
This report shall not be reproduced except in full and with  
permission of the laboratory.

Report Approved By:



Report Date: 4/14/05

Johnny A. Mitchell, Laboratory Director  
Michael H. Dunn, M.S., Technical Director  
Pamela A. Langford, Senior Project Manager  
Eric S. Smith, QA/QC Director

Gail A. Lage, Senior Project Manager  
Glenn L. Norton, Technical Services  
Kelly S. Comstock, Technical Services  
Roxanne L. Connor, Senior Project Manager

Laboratory Certification Number: 84009

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## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
JOHN BROWN  
2301 CROWN POINT EXEC.DR, STE F  
CHARLOTTE, NC 28227

Lab Number: 05-A49268  
Sample ID: MW-1  
Sample Type: Water  
Site ID:

Project: 00332  
Project Name: INTERSTATE TRUCKING  
Sampler: KEN PIMIENTA

Date Collected: 4/ 6/05  
Time Collected: 15:30  
Date Received: 4/ 8/05  
Time Received: 8:05

Parameter	Result	Flag	Units	Limit of Quantitation	Limit of Detection	Dilution Factor	Date	Time	Method	Analyst	Batch
<b>**Metals</b>											
Lead, dissolved	100.		ug/l	3.0	1.2	1.	4/14/05	11:00	7421	R.Street	6905
<b>**Volatile Organics</b>											
Benzene	78.4		ug/l	1.0	0.3	1.0	4/10/05	19:05	8260B	C. Wani	6747
Ethylbenzene	1730		ug/l	50.0	10.0	50.0	4/10/05	19:35	8260B	C. Wani	6750
Naphthalene	153.		ug/l	5.00	1.19	1.0	4/10/05	19:05	8260B	C. Wani	6747
Toluene	3400		ug/l	50.0	10.0	50.0	4/10/05	19:35	8260B	C. Wani	6750
Xylenes (Total)	7880		ug/l	50.0	30.0	50.0	4/10/05	19:35	8260B	C. Wani	6750
Methyl-t-butyl ether	ND		ug/l	1.0	0.2	1.	4/10/05	19:05	8260B	C. Wani	6747

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	102.	70. - 130.
VOA Surr Toluene-d8	94.	78. - 121.
VOA Surr, 4-BFB	91.	78. - 126.
VOA Surr, DBFM	100.	79. - 122.

### LABORATORY COMMENTS:

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- U = Analyte analyzed for but not detected.
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- B = Analyte was detected in the method blank.
- E = Estimated Value above the calibration limit of the instrument.

## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
JOHN BROWN  
2301 CROWN POINT EXEC.DR, STE F  
CHARLOTTE, NC 28227

Lab Number: 05-A49269  
Sample ID: MW-2  
Sample Type: Water  
Site ID:

Project: 00332  
Project Name: INTERSTATE TRUCKING  
Sampler: KEN PIMIENTA

Date Collected: 4/ 6/05  
Time Collected: 15:48  
Date Received: 4/ 8/05  
Time Received: 8:05

Parameter	Result	Flag	Units	Limit of Quantitation	Limit of Detection	Dilution Factor	Date	Time	Method	Analyst	Batch
<b>**Metals</b>											
Lead, dissolved	ND		ug/l	3.3	1.2	1.	4/14/05	11:00	7421	R.Street	6905
<b>**Volatile Organics</b>											
Benzene	2.4		ug/l	1.0	0.3	1.0	4/10/05	12:01	8260B	C. Wani	6747
Ethylbenzene	17.8		ug/l	1.0	0.2	1.0	4/10/05	12:01	8260B	C. Wani	6747
Naphthalene	2.40	J	ug/l	5.00	1.19	1.0	4/10/05	12:01	8260B	C. Wani	6747
Toluene	4.7		ug/l	1.0	0.2	1.0	4/10/05	12:01	8260B	C. Wani	6747
Xylenes (Total)	35.5		ug/l	1.0	0.6	1.0	4/10/05	12:01	8260B	C. Wani	6747
Methyl-t-butyl ether	ND		ug/l	1.0	0.2	1.	4/10/05	12:01	8260B	C. Wani	6747

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	106.	70. - 130.
VOA Surr Toluene-d8	93.	78. - 121.
VOA Surr, 4-BFB	88.	78. - 126.
VOA Surr, DBFM	106.	79. - 122.

### LABORATORY COMMENTS:

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- U = Analyte analyzed for but not detected.
- # = Recovery outside Laboratory historical or method prescribed limits.
- J = All results evaluated to the Limit of Detection for reporting. Values below the Limit of Quantitation but above the Limit of Detection are qualified with J as estimated.
- B = Analyte was detected in the method blank.
- E = Estimated Value above the calibration limit of the instrument.

## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
 JOHN BROWN  
 2301 CROWN POINT EXEC.DR, STE F  
 CHARLOTTE, NC 28227

Lab Number: 05-A49270  
 Sample ID: MW-3  
 Sample Type: Water  
 Site ID:

Project: 00332  
 Project Name: INTERSTATE TRUCKING  
 Sampler: KEN PIMIENTA

Date Collected: 4/ 6/05  
 Time Collected: 16:10  
 Date Received: 4/ 8/05  
 Time Received: 8:05

Parameter	Result	Flag	Units	Limit of Quantitation	Limit of Detection	Dilution Factor	Date	Time	Method	Analyst	Batch
<b>**Metals</b>											
Ferrous Iron	30400		ug/l	1000	420.	10.	4/ 8/05	18:49	3500D	W. Choate	7774
Lead	42.0		ug/l	3.0	1.2	1.	4/14/05	11:00	7421	R. Street	6906
<b>**PAH's</b>											
Benzo(a)anthracene	ND		ug/l	2.0	0.8	1.	4/12/05	14:53	8270C	D. Harris	6920
Benzo(b)fluoranthene	ND		ug/l	2.0	0.6	1.	4/12/05	14:53	8270C	D. Harris	6920
Benzo(k)fluoranthene	ND		ug/l	2.0	0.5	1.	4/12/05	14:53	8270C	D. Harris	6920
Chrysene	ND		ug/l	2.0	0.4	1.	4/12/05	14:53	8270C	D. Harris	6920
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.6	1.	4/12/05	14:53	8270C	D. Harris	6920
<b>**Volatile Organics</b>											
Benzene	6.1		ug/l	1.0	0.3	1.0	4/10/05	12:31	8260B	C. Wani	6747
Ethylbenzene	532.		ug/l	20.0	4.0	20.0	4/11/05	15:42	8260B	C. Wani	6830
Naphthalene	171.		ug/l	5.00	1.19	1.0	4/10/05	12:31	8260B	C. Wani	6747
Toluene	132.		ug/l	1.0	0.2	1.0	4/10/05	12:31	8260B	C. Wani	6747
Xylenes (Total)	2590		ug/l	20.0	12.0	20.0	4/11/05	15:42	8260B	C. Wani	6830
Methyl-t-butyl ether	ND		ug/l	1.0	0.2	1.	4/10/05	12:31	8260B	C. Wani	6747
Ethylene Dibromide	0.09		ug/l	0.02	0.01	1.0	4/13/05	22:36	8011	M. Ricke	6833
<b>**Miscellaneous Parameters</b>											
Nitrate-N as N	1.70		mg/l	0.10	0.05	1.0	4/ 8/05	12:53	9056	G. Baun	4144
Sulfate	2.69		mg/l	1.00	0.500	1.0	4/ 8/05	12:53	9056	G. Baun	4144
Methane	ND		ug/L	26.	5.	1.	4/13/05	9:59	RSK175M	K. Roberso	5479

## ANALYTICAL REPORT

Laboratory Number: 05-A49270  
Sample ID: MW-3

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### Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	1000 ml	1.0 ml	4/ 9/05		K. Turner	3510/625

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	108.	70. - 130.
VOA Surr Toluene-d8	95.	78. - 121.
VOA Surr, 4-BFB	90.	78. - 126.
VOA Surr, DBFM	108.	79. - 122.
BNA Surr-Nitrobenzene-d5	59.	31. - 112.
BNA Surr-2-Fluorobiphenyl	62.	33. - 101.
BNA Surr-Terphenyl-d14	56.	31. - 111.
BNA Surr-Phenol-d5	10.	10. - 48.
BNA Surr-2-Fluorophenol	16.	10. - 64.
BNA Surr-2,4,6-Tribromophenol	87.	32. - 118.
Surr., 1,3-DCB	127.	83. - 134.
Surr - Acetylene	98.0	70. - 130.

### LABORATORY COMMENTS:

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 # = Recovery outside Laboratory historical or method prescribed limits.  
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 B = Analyte was detected in the method blank.  
 E = Estimated Value above the calibration limit of the instrument.  
 Sample for Ferrous Iron analysis received outside method prescribed holding time.

## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
 JOHN BROWN  
 2301 CROWN POINT EXEC.DR, STE F  
 CHARLOTTE, NC 28227

Lab Number: 05-A49271  
 Sample ID: MW-4  
 Sample Type: Water  
 Site ID:

Project: 00332  
 Project Name: INTERSTATE TRUCKING  
 Sampler: KEN PIMIENTA

Date Collected: 4/ 6/05  
 Time Collected: 14:29  
 Date Received: 4/ 8/05  
 Time Received: 8:05

Parameter	Result	Flag	Units	Limit of Quantitation	Limit of Detection	Dilution Factor	Date	Time	Method	Analyst	Batch
<b>**Metals</b>											
Ferrous Iron	12300		ug/l	1000	420.	10.	4/ 8/05	18:49	3500D	W. Choate	7774
Lead	31.0		ug/l	3.0	1.2	1.	4/14/05	11:00	7421	R.Street	6906
<b>**PAH's</b>											
Benzo(a)anthracene	ND		ug/l	2.0	0.8	1.	4/12/05	15:24	8270C	D. Harris	6920
Benzo(b)fluoranthene	ND		ug/l	2.0	0.6	1.	4/12/05	15:24	8270C	D. Harris	6920
Benzo(k)fluoranthene	ND		ug/l	2.0	0.5	1.	4/12/05	15:24	8270C	D. Harris	6920
Chrysene	ND		ug/l	2.0	0.4	1.	4/12/05	15:24	8270C	D. Harris	6920
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.6	1.	4/12/05	15:24	8270C	D. Harris	6920
<b>**Volatile Organics</b>											
Benzene	5.7		ug/l	1.0	0.3	1.0	4/10/05	13:01	8260B	C. Wani	6747
Ethylbenzene	352.		ug/l	10.0	2.0	10.0	4/11/05	16:13	8260B	C. Wani	6830
Naphthalene	55.0		ug/l	5.00	1.19	1.0	4/10/05	13:01	8260B	C. Wani	6747
Toluene	79.0		ug/l	1.0	0.2	1.0	4/10/05	13:01	8260B	C. Wani	6747
Xylenes (Total)	702.		ug/l	10.0	6.0	10.0	4/11/05	16:13	8260B	C. Wani	6830
Methyl-t-butyl ether	ND		ug/l	1.0	0.2	1.	4/10/05	13:01	8260B	C. Wani	6747
Ethylene Dibromide	ND		ug/l	0.02	0.01	1.	4/13/05	22:55	8011	M. Ricke	6833
<b>**Miscellaneous Parameters</b>											
Nitrate-N as N	1.04		mg/l	0.10	0.05	1.0	4/ 8/05	12:53	9056	G. Baun	4144
Sulfate	4.14		mg/l	1.00	0.500	1.0	4/ 8/05	12:53	9056	G. Baun	4144
Methane	ND		ug/L	26.	5.	1.	4/13/05	10:04	RSK175M	K. Roberso	5479



## ANALYTICAL REPORT

Laboratory Number: 05-A49271

Sample ID: MW-4

Page 2

### Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	1000 ml	1.0 ml	4/ 9/05		K. Turner	3510/625

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	106.	70. - 130.
VOA Surr Toluene-d8	95.	78. - 121.
VOA Surr, 4-BFB	90.	78. - 126.
VOA Surr, DBFM	107.	79. - 122.
BNA Surr-Nitrobenzene-d5	64.	31. - 112.
BNA Surr-2-Fluorobiphenyl	65.	33. - 101.
BNA Surr-Terphenyl-d14	62.	31. - 111.
BNA Surr-Phenol-d5	12.	10. - 48.
BNA Surr-2-Fluorophenol	20.	10. - 64.
BNA Surr-2,4,6-Tribromophenol	89.	32. - 118.
Surr., 1,3-DCB	93.0	83. - 134.
Surr - Acetylene	95.0	70. - 130.

### LABORATORY COMMENTS:

ND = Not detected at the limit of Quantitation.

U = Analyte analyzed for but not detected.

# = Recovery outside Laboratory historical or method prescribed limits.

J = All results evaluated to the Limit of Detection for reporting. Values below the Limit of Quantitation but above the Limit of Detection are qualified with J as estimated.

B = Analyte was detected in the method blank.

E = Estimated Value above the calibration limit of the instrument.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

## ANALYTICAL REPORT

GEOLOGICAL RESOURCES 2110  
 JOHN BROWN  
 2301 CROWN POINT EXEC.DR, STE F  
 CHARLOTTE, NC 28227

Lab Number: 05-A49272  
 Sample ID: MW-5  
 Sample Type: Water  
 Site ID:

Project: 00332  
 Project Name: INTERSTATE TRUCKING  
 Sampler: KEN PIMIENIA

Date Collected: 4/ 6/05  
 Time Collected: 17:04  
 Date Received: 4/ 8/05  
 Time Received: 8:05

Parameter	Result	Flag	Units	Limit of Quantitation	Limit of Detection	Dilution Factor	Date	Time	Method	Analyst	Batch
<b>**Metals</b>											
Ferrous Iron	33700		ug/l	3000	1260	30.	4/ 8/05	18:49	3500D	W. Choate	7774
Lead	23.0		ug/l	3.0	1.2	1.	4/14/05	11:00	7421	R.Street	6906
<b>**PAH's</b>											
Benzo(a)anthracene	ND		ug/l	2.0	0.8	1.	4/12/05	15:55	8270C	D. Harris	6920
Benzo(b)fluoranthene	ND		ug/l	2.0	0.6	1.	4/12/05	15:55	8270C	D. Harris	6920
Benzo(k)fluoranthene	ND		ug/l	2.0	0.5	1.	4/12/05	15:55	8270C	D. Harris	6920
Chrysene	ND		ug/l	2.0	0.4	1.	4/12/05	15:55	8270C	D. Harris	6920
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.6	1.	4/12/05	15:55	8270C	D. Harris	6920
<b>**Volatile Organics</b>											
Benzene	4.6		ug/l	1.0	0.3	1.0	4/10/05	13:31	8260B	C. Wani	6747
Ethylbenzene	248.		ug/l	5.0	1.0	5.0	4/11/05	16:43	8260B	C. Wani	6830
Naphthalene	123.		ug/l	5.00	1.19	1.0	4/10/05	13:31	8260B	C. Wani	6747
Toluene	17.7		ug/l	1.0	0.2	1.0	4/10/05	13:31	8260B	C. Wani	6747
Xylenes (Total)	999.		ug/l	5.0	3.0	5.0	4/11/05	16:43	8260B	C. Wani	6830
Methyl-t-butyl ether	ND		ug/l	1.0	0.2	1.	4/10/05	13:31	8260B	C. Wani	6747
Ethylene Dibromide	ND		ug/l	0.02	0.01	1.	4/13/05	23:14	8011	M. Ricke	6833
<b>**Miscellaneous Parameters</b>											
Nitrate-N as N	1.40		mg/l	0.10	0.05	1.0	4/ 8/05	12:53	9056	G. Baun	4144
Sulfate	2.51		mg/l	1.00	0.500	1.0	4/ 8/05	12:53	9056	G. Baun	4144
Methane	ND		ug/L	26.	5.	1.	4/13/05	10:07	RSK175M	K. Roberso	5479

## ANALYTICAL REPORT

Laboratory Number: 05-A49272  
Sample ID: MW-5

Page 2

### Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
BNA's	1000 ml	1.0 ml	4/ 9/05		K. Turner	3510/625

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	104.	70. - 130.
VOA Surr Toluene-d8	97.	78. - 121.
VOA Surr, 4-BPB	92.	78. - 126.
VOA Surr, DBFM	105.	79. - 122.
BNA Surr-Nitrobenzene-d5	56.	31. - 112.
BNA Surr-2-Fluorobiphenyl	60.	33. - 101.
BNA Surr-Terphenyl-d14	66.	31. - 111.
BNA Surr-Phenol-d5	13.	10. - 48.
BNA Surr-2-Fluorophenol	19.	10. - 64.
BNA Surr-2,4,6-Tribromophenol	95.	32. - 118.
Surr., 1,3-DCB	89.0	83. - 134.
Surr - Acetylene	75.0	70. - 130.

### LABORATORY COMMENTS:

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B = Analyte was detected in the method blank.

E = Estimated Value above the calibration limit of the instrument.

Sample for Ferrous Iron analysis received outside method prescribed holding time.

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 00332**  
**Page: 1**

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
<b>**UST ANALYSIS**</b>								
Benzo (a) anthracene	mg/l	< 0.0008	0.0240	0.0500	48	28. - 144.	6920	Blank
Benzo (a) anthracene	mg/l	< 0.0008	0.0380	0.0500	76	28. - 144.	6920	M:Blank
Benzo (b) fluoranthene	mg/l	< 0.0006	0.0260	0.0500	52	26. - 140.	6920	Blank
Benzo (b) fluoranthene	mg/l	< 0.0006	0.0360	0.0500	72	26. - 140.	6920	M:Blank
Benzo (k) fluoranthene	mg/l	< 0.0005	0.0330	0.0500	66	28. - 137.	6920	Blank
Benzo (k) fluoranthene	mg/l	< 0.0005	0.0500	0.0500	100	28. - 137.	6920	M:Blank
Chrysene	mg/l	< 0.0004	0.0240	0.0500	48	29. - 138.	6920	Blank
Chrysene	mg/l	< 0.0004	0.0380	0.0500	76	29. - 138.	6920	M:Blank
Dibenzo (a,h) anthracene	mg/l	< 0.0006	0.0230	0.0500	46	21. - 153.	6920	Blank
Dibenzo (a,h) anthracene	mg/l	< 0.0006	0.0390	0.0500	78	21. - 153.	6920	M:Blank

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
<b>**VOA PARAMETERS**</b>								
Benzene	mg/l	< 0.0010	0.0495	0.0500	99	62. - 146.	6747	05-A50125
Benzene	mg/l	< 0.0010	0.0468	0.0500	94	62. - 146.	6747	M:05A50125
Toluene	mg/l	0.180	0.196	0.0500	32#	68. - 141.	6747	05-A50125
Toluene	mg/l	0.180	0.173	0.0500	-14#	68. - 141.	6747	M:05A50125
VOA Surr 1,2-DCA-d4	% Rec				102	70. - 130.	6747	
VOA Surr 1,2-DCA-d4	% Rec				102	70. - 130.	6747	
VOA Surr 1,2-DCA-d4	% Rec				101	70. - 130.	6830	
VOA Surr 1,2-DCA-d4	% Rec				102	70. - 130.	6830	
VOA Surr Toluene-d8	% Rec				95	78. - 121.	6747	
VOA Surr Toluene-d8	% Rec				96	78. - 121.	6747	
VOA Surr Toluene-d8	% Rec				96	78. - 121.	6830	
VOA Surr Toluene-d8	% Rec				97	78. - 121.	6830	
VOA Surr, 4-BFB	% Rec				90	78. - 126.	6747	
VOA Surr, 4-BFB	% Rec				90	78. - 126.	6747	
VOA Surr, 4-BFB	% Rec				95	78. - 126.	6830	

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 00332**  
**Page: 2**

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA Surr, 4-BFB	% Rec				90	78. - 126.	6830	
VOA Surr, DBFM	% Rec				105	79. - 122.	6747	
VOA Surr, DBFM	% Rec				107	79. - 122.	6747	
VOA Surr, DBFM	% Rec				103	79. - 122.	6830	
VOA Surr, DBFM	% Rec				104	79. - 122.	6830	
BNA Surr-Nitrobenzene-d5	% Rec				43	31. - 112.	6920	
BNA Surr-Nitrobenzene-d5	% Rec				63	31. - 112.	6920	
BNA Surr-2-Fluorobiphenyl	% Rec				47	33. - 101.	6920	
BNA Surr-2-Fluorobiphenyl	% Rec				70	33. - 101.	6920	
BNA Surr-Terphenyl-d14	% Rec				51	31. - 111.	6920	
BNA Surr-Terphenyl-d14	% Rec				74	31. - 111.	6920	
BNA Surr-Phenol-d5	% Rec				8	10. - 48.	6920	
BNA Surr-Phenol-d5	% Rec				9	10. - 48.	6920	
BNA Surr-2-Fluorophenol	% Rec				4	10. - 64.	6920	
BNA Surr-2-Fluorophenol	% Rec				4	10. - 64.	6920	
BNA Surr-2,4,6-Tribromopheno	% Rec				15	32. - 118.	6920	
BNA Surr-2,4,6-Tribromopheno	% Rec				10	32. - 118.	6920	

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
**METALS**								
Ferrous Iron	mg/l	2.59	4.62	2.00	102	80 - 120	7774	05-A49409
Ferrous Iron	mg/l	2.59	4.60	2.00	100	80 - 120	7774	05-A49409
Lead	mg/l	< 0.0030	0.0480	0.0500	96	80 - 120	6906	05-A48956
Lead	mg/l	< 0.0030	0.0480	0.0500	96	80 - 120	6906	M:05A48956

**PROJECT QUALITY CONTROL DATA**

Project Number: 00332

Page: 3

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
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Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
---------	-------	------------	--------	------------	----------	--------------	------------	--------------

\*\*MISC PARAMETERS\*\*

Nitrate-N as N	mg/l	1.70	4.55	3.00	95	80 - 120	4144	05-A49270
Nitrate-N as N	mg/l	1.70	4.53	3.00	94	80 - 120	4144	M:05A49270
Sulfate	mg/l	2.69	17.4	15.0	98	80 - 120	4144	05-A49270
Sulfate	mg/l	2.69	17.2	15.0	97	80 - 120	4144	M:05A49270

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
---------	-------	------------	--------	------------	----------	--------------	------------	--------------

\*\*MISC PARAMETERS\*\*

Ethylene Dibromide	mg/l	< 0.00002	0.00025	0.00029	86	40 - 140	6833	05-A48336
Ethylene Dibromide	mg/l	< 0.00002	0.00036	0.00029	124	40 - 140	6833	M:05A48336
Methane	mg/L	< 0.026	1.43	1.33	108	40 - 140	5479	'49270
Methane	mg/L	< 0.026	1.36	1.33	102	40 - 140	5479	M:'49270

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
---------	-------	------------	-----------	-----	-------	------------

\*\*UST PARAMETERS\*\*

Benzo (a) anthracene	mg/l	0.0240	0.0380	45.16#	28.	6920
Benzo (b) fluoranthene	mg/l	0.0260	0.0360	32.26#	32.	6920
Benzo (k) fluoranthene	mg/l	0.0330	0.0500	40.96#	31.	6920
Chrysene	mg/l	0.0240	0.0380	45.16#	29.	6920
Dibenzo (a, h) anthracene	mg/l	0.0230	0.0390	51.61#	37.	6920

PROJECT QUALITY CONTROL DATA  
Project Number: 00332  
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
**VOA PARAMETERS**						
Benzene	mg/l	0.0495	0.0468	5.61	25.	6747
Toluene	mg/l	0.196	0.173	12.47	29.	6747
VOA Surr 1,2-DCA-d4	% Rec		102.			6747
VOA Surr 1,2-DCA-d4	% Rec		102.			6830
VOA Surr Toluene-d8	% Rec		96.			6747
VOA Surr Toluene-d8	% Rec		97.			6830
VOA Surr, 4-BFB	% Rec		90.			6747
VOA Surr, 4-BFB	% Rec		90.			6830
VOA Surr, DBFM	% Rec		107.			6747
VOA Surr, DBFM	% Rec		104.			6830
BNA Surr-Nitrobenzene-d5	% Rec		63.			6920
BNA Surr-2-Fluorobiphenyl	% Rec		70.			6920
BNA Surr-Terphenyl-d14	% Rec		74.			6920
BNA Surr-Phenol-d5	% Rec		9.			6920
BNA Surr-2-Fluorophenol	% Rec		4.			6920
BNA Surr-2,4,6-Tribromophenol	% Rec		10.			6920

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
**METALS**						
Ferrous Iron	mg/l	4.62	4.60	0.43	20	7774
Lead	mg/l	0.0480	0.0480	0.00	20	6906

**PROJECT QUALITY CONTROL DATA**  
**Project Number: 00332**  
**Page: 5**

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----

**\*\*MISC PARAMETERS\*\***

Ethylene Dibromide	mg/l	0.00025	0.00036	36.07	50	6833
Methane	mg/L	1.43	1.36	5.02	50	5479

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----

**\*\*MISC PARAMETERS\*\***

Nitrate-N as N	mg/l	4.55	4.53	0.44	20	4144
Sulfate	mg/l	17.4	17.2	1.16	20	4144

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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**\*\*UST PARAMETERS\*\***

Benzo (a) anthracene	mg/l	0.0500	0.0390	78	34 - 136	6920
Benzo (b) fluoranthene	mg/l	0.0500	0.0400	80	31 - 132	6920
Benzo (k) fluoranthene	mg/l	0.0500	0.0510	102	34 - 132	6920
Chrysene	mg/l	0.0500	0.0390	78	34 - 132	6920
Dibenzo (a, h) anthracene	mg/l	0.0500	0.0400	80	28 - 146	6920



**PROJECT QUALITY CONTROL DATA**

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
**VOA PARAMETERS**						
Benzene	mg/l	0.0500	0.0459	92	76 - 127	6747
Ethylbenzene	mg/l	0.0500	0.0486	97	80 - 124	6747
Ethylbenzene	mg/l	0.0500	0.0486	97	80 - 124	6750
Ethylbenzene	mg/l	0.0500	0.0500	100	80 - 124	6830
Naphthalene	mg/l	0.0500	0.0589	118	61 - 143	6747
Toluene	mg/l	0.0500	0.0480	96	79 - 124	6747
Toluene	mg/l	0.0500	0.0480	96	79 - 124	6750
Xylenes (Total)	mg/l	0.150	0.151	101	80 - 125	6747
Xylenes (Total)	mg/l	0.150	0.151	101	80 - 125	6750
Xylenes (Total)	mg/l	0.150	0.152	101	80 - 125	6830
Methyl-t-butyl ether	mg/l	0.0500	0.0539	108	66 - 136	6747
Ethylene Dibromide	mg/l	0.00029	0.00033	114	70 - 133	6833
Methane	mg/L	1.33	1.38	104	79 - 121	5479
VOA Surr 1,2-DCA-d4	% Rec			104	70 - 130	6747
VOA Surr 1,2-DCA-d4	% Rec			104	70 - 130	6750
VOA Surr 1,2-DCA-d4	% Rec			102	70 - 130	6830
VOA Surr Toluene-d8	% Rec			95	78 - 121	6747
VOA Surr Toluene-d8	% Rec			95	78 - 121	6750
VOA Surr Toluene-d8	% Rec			98	78 - 121	6830
VOA Surr, 4-BFB	% Rec			90	78 - 126	6747
VOA Surr, 4-BFB	% Rec			90	78 - 126	6750
VOA Surr, 4-BFB	% Rec			92	78 - 126	6830
VOA Surr, DBFM	% Rec			106	79 - 122	6747
VOA Surr, DBFM	% Rec			106	79 - 122	6750
VOA Surr, DBFM	% Rec			106	79 - 122	6830
BNA Surr-Nitrobenzene-d5	% Rec			62	31 - 112	6920
BNA Surr-2-Fluorobiphenyl	% Rec			69	33 - 101	6920
BNA Surr-Terphenyl-d14	% Rec			76	31 - 111	6920
BNA Surr-Phenol-d5	% Rec			10	10 - 48	6920
BNA Surr-2-Fluorophenol	% Rec			4	10 - 64	6920
BNA Surr-2,4,6-Tribromophenol	% Rec			12	32 - 118	6920

**PROJECT QUALITY CONTROL DATA**

Project Number: 00332

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
<b>**METALS**</b>						
Ferrous Iron	mg/l	1.00	0.993	99	80 - 120	7774
Lead	mg/l	0.0500	0.0480	96	80 - 120	6906
Lead,dissolved	mg/l	0.0500	0.0480	96	80 - 120	6905

Continuing Calibration Verification

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
<b>**METALS**</b>						

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
<b>**MISC PARAMETERS**</b>						
Ethylene Dibromide	mg/l	0.00029	0.00033	114	70 - 133	6833
Methane	mg/L	1.33	1.38	104	79 - 121	5479

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
<b>**MISC PARAMETERS**</b>						
Nitrate-N as N	mg/l	3.00	3.06	102	90 - 110	4144
Sulfate	mg/l	15.0	14.9	99	90 - 110	4144

**PROJECT QUALITY CONTROL DATA**

Project Number: 00332

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Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
Ferrous Iron	mg/l	33.7	33.5	0.60	15.	7774	05-A49272

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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**\*\*UST PARAMETERS\*\***

Benzo (a) anthracene	< 0.0008	mg/l	6920	4/12/05	11:28
Benzo (b) fluoranthene	< 0.0006	mg/l	6920	4/12/05	11:28
Benzo (k) fluoranthene	< 0.0005	mg/l	6920	4/12/05	11:28
Chrysene	< 0.0004	mg/l	6920	4/12/05	11:28
Dibenzo (a,h) anthracene	< 0.0006	mg/l	6920	4/12/05	11:28

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
---------	-------------	-------	------------	---------------	---------------

**\*\*VOA PARAMETERS\*\***

Benzene	< 0.0003	mg/l	6747	4/10/05	11:30
Ethylbenzene	< 0.0002	mg/l	6747	4/10/05	11:30
Ethylbenzene	< 0.0002	mg/l	6750	4/10/05	11:30
Ethylbenzene	< 0.0002	mg/l	6830	4/11/05	13:01
Naphthalene	< 0.00120	mg/l	6747	4/10/05	11:30
Toluene	< 0.0002	mg/l	6747	4/10/05	11:30
Toluene	< 0.0002	mg/l	6750	4/10/05	11:30
Xylenes (Total)	< 0.0006	mg/l	6747	4/10/05	11:30
Xylenes (Total)	< 0.0006	mg/l	6750	4/10/05	11:30
Xylenes (Total)	< 0.0006	mg/l	6830	4/11/05	13:01
Methyl-t-butyl ether	< 0.0002	mg/l	6747	4/10/05	11:30

**PROJECT QUALITY CONTROL DATA**

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VOA Surr 1,2-DCA-d4	109.	% Rec	6747	4/10/05	11:30
VOA Surr 1,2-DCA-d4	109.	% Rec	6750	4/10/05	11:30
VOA Surr 1,2-DCA-d4	107.	% Rec	6830	4/11/05	13:01
VOA Surr Toluene-d8	94.	% Rec	6747	4/10/05	11:30
VOA Surr Toluene-d8	94.	% Rec	6750	4/10/05	11:30
VOA Surr Toluene-d8	96.	% Rec	6830	4/11/05	13:01
VOA Surr, 4-BFB	92.	% Rec	6747	4/10/05	11:30
VOA Surr, 4-BFB	92.	% Rec	6750	4/10/05	11:30
VOA Surr, 4-BFB	90.	% Rec	6830	4/11/05	13:01
VOA Surr, DBFM	108.	% Rec	6747	4/10/05	11:30
VOA Surr, DBFM	108.	% Rec	6750	4/10/05	11:30
VOA Surr, DBFM	108.	% Rec	6830	4/11/05	13:01
BNA Surr-Nitrobenzene-d5	65.	% Rec	6920	4/12/05	11:28
BNA Surr-2-Fluorobiphenyl	68.	% Rec	6920	4/12/05	11:28
BNA Surr-Terphenyl-d14	73.	% Rec	6920	4/12/05	11:28
BNA Surr-Phenol-d5	6.	% Rec	6920	4/12/05	11:28
BNA Surr-2-Fluorophenol	3.	% Rec	6920	4/12/05	11:28
BNA Surr-2,4,6-Tribromophenol	7.	% Rec	6920	4/12/05	11:28

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
**METALS**					
Ferrous Iron	< 0.100	mg/l	7774	4/ 8/05	18:49
Lead	< 0.0012	mg/l	6906	4/14/05	11:00
Lead,dissolved	< 0.0030	mg/l	6905	4/14/05	11:00

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
**MISC PARAMETERS**					
Nitrate-N as N	< 0.10	mg/l	4144	4/ 8/05	12:53
Sulfate	< 1.00	mg/l	4144	4/ 8/05	12:53

PROJECT QUALITY CONTROL DATA  
Project Number: 00332  
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
**MISC PARAMETERS**					
Ethylene Dibromide	< 0.00002	mg/l	6833	4/13/05	15:11
Methane	< 0.026	mg/L	5479	4/13/05	9:59

# = Value outside Laboratory historical or method prescribed QC limits.

**APPENDIX D**  
**Slug Test Data**



## Summary of Slug Test

### Division of Underground Storage Tank Management

#### Site Data

UST Permit #: 00332 County: Allendale  
 Facility Name: Interstate Truck Terminal Inc.

#### Slug Data

See Appendix \_\_\_\_\_ Table \_\_\_\_\_ Figure \_\_\_\_\_ for a list of all data measurements. [water level logs, etc. (complete as appropriate)].

Water Level Recovery Data was measured by Hermit 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	MW-3	MW-4		
Initial Rise/Drawdown in Well (feet)	1.62	1.02		
Radius of Well Casing (feet)	0.083	0.083		
Effective Radius of Well (feet)	0.208	0.208		
Static Saturated Aquifer Thickness (feet)	5.48	8.38		
Length of Well Screen (feet)	10	10		
Static Height of Water Column in Well (ft)	5.48	8.38		

#### Calculations

See Appendix \_\_\_\_\_ Table \_\_\_\_\_ Figure \_\_\_\_\_ for calculations (complete as appropriate).

The method for aquifer calculations was Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.).

Calculated values by well were as follows:

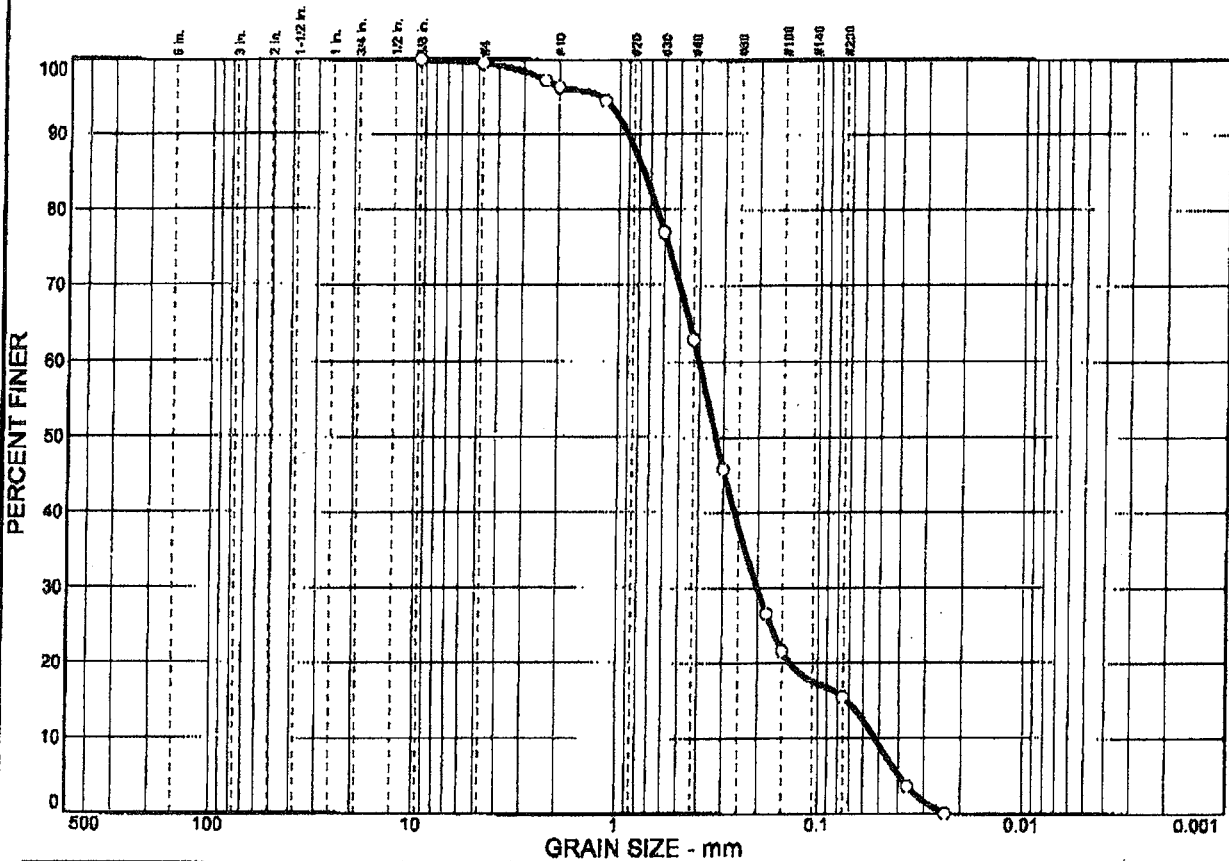
Slug Test Conducted in Well(s) Number	MW-3	MW-4	
Hydraulic Conductivity (K)	$8.55 \times 10^{-7}$ ft/min	$1.19 \times 10^{-4}$ ft/min	

Thickness of the aquifer used to calculate hydraulic conductivity was 5.48 and 8.38 feet.

The aquifer is \_\_\_\_\_ confined \_\_\_\_\_ semi-confined  water table (check as appropriate).

The estimated seepage velocity is  $1.87 \times 10^{-2}$  and 2.60 feet per year based on a hydraulic conductivity of  $8.55 \times 10^{-7}$  ft/min &  $1.19 \times 10^{-4}$  ft/min, a hydraulic gradient of 0.01, and a porosity of 24 percent for silty sand soil (list type i.e., silty sand, clay, etc.).

# Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.5	3.1	33.6	(47.3)	(15.5)	0.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8 in.	100.0		
#4	99.5		
#8	97.3		
#10	96.4		
#16	94.6		
#30	77.0		
#40	62.8		
#50	45.7		
#80	26.5		
#100	21.6		
#200	15.5		

**Soil Description**

Reddish-Tan poorly graded fine to medium Silty SAND with trace coarse sand (SM)

**Atterberg Limits**

PL= NT      LL= NT      PI= NT

**Coefficients**

$D_{85} = 0.759$        $D_{60} = 0.401$        $D_{50} = 0.328$   
 $D_{30} = 0.201$        $D_{15} = 0.0716$        $D_{10} = 0.0524$   
 $C_u = 7.65$        $C_c = 1.92$

**Classification**

USCS= SM      AASHTO= A-2-4(0)

**Remarks**

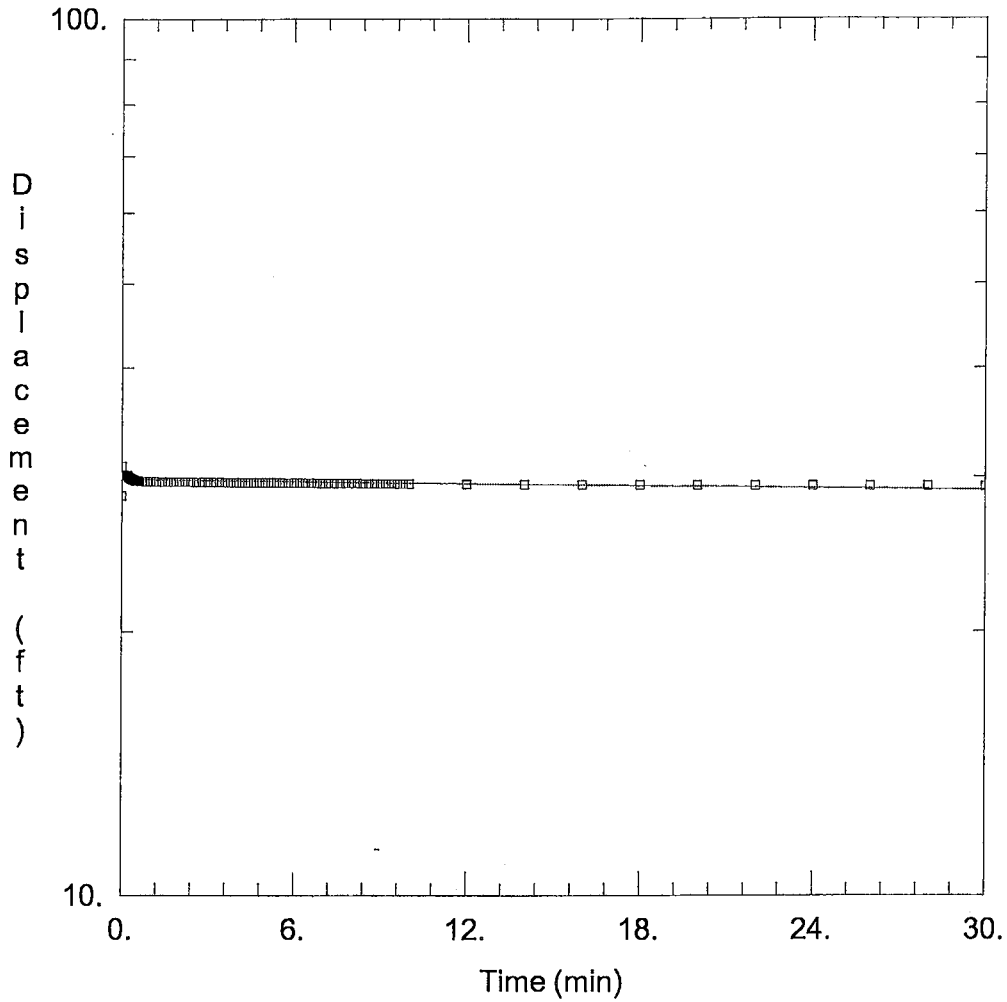
Interstate Trucking  
MW-3

\* (no specification provided)

Sample No.: MW-3      Source of Sample:      Date: 2-21-05  
 Location: Interstate Trucking      Elev./Depth: 30-feet

<h2 style="margin: 0;">GET SOLUTIONS, INC.</h2>	Client: Geological Resources, Inc. Project: Soils Laboratory Services; Various Sites Project No: OB03-119T
Figure	





TEST 18 MW-3

Data Set: F:\Temp Work Folder\Projects\SC State Lead\Interstate Trucking Tier 1\Slug Tests\mw-3.aqt  
 Date: 04/22/05 Time: 08:28:23

PROJECT INFORMATION

Company: Geological Resources, Inc.  
 Client: Interstate Truck Terminal Inc.  
 Project: 00332  
 Test Location: Ulmer, SC  
 Test Well: MW-3  
 Test Date: 04/06/05

AQUIFER DATA

Saturated Thickness: 5.48 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-3)

Initial Displacement: 1.62 ft Casing Radius: 0.083 ft  
 Wellbore Radius: 0.208 ft Well Skin Radius: 0.208 ft  
 Screen Length: 10. ft Total Well Penetration Depth: 5.48 ft  
 Gravel Pack Porosity: 0.045

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice  
 K = 8.551E-07 ft/min y0 = 29.82 ft

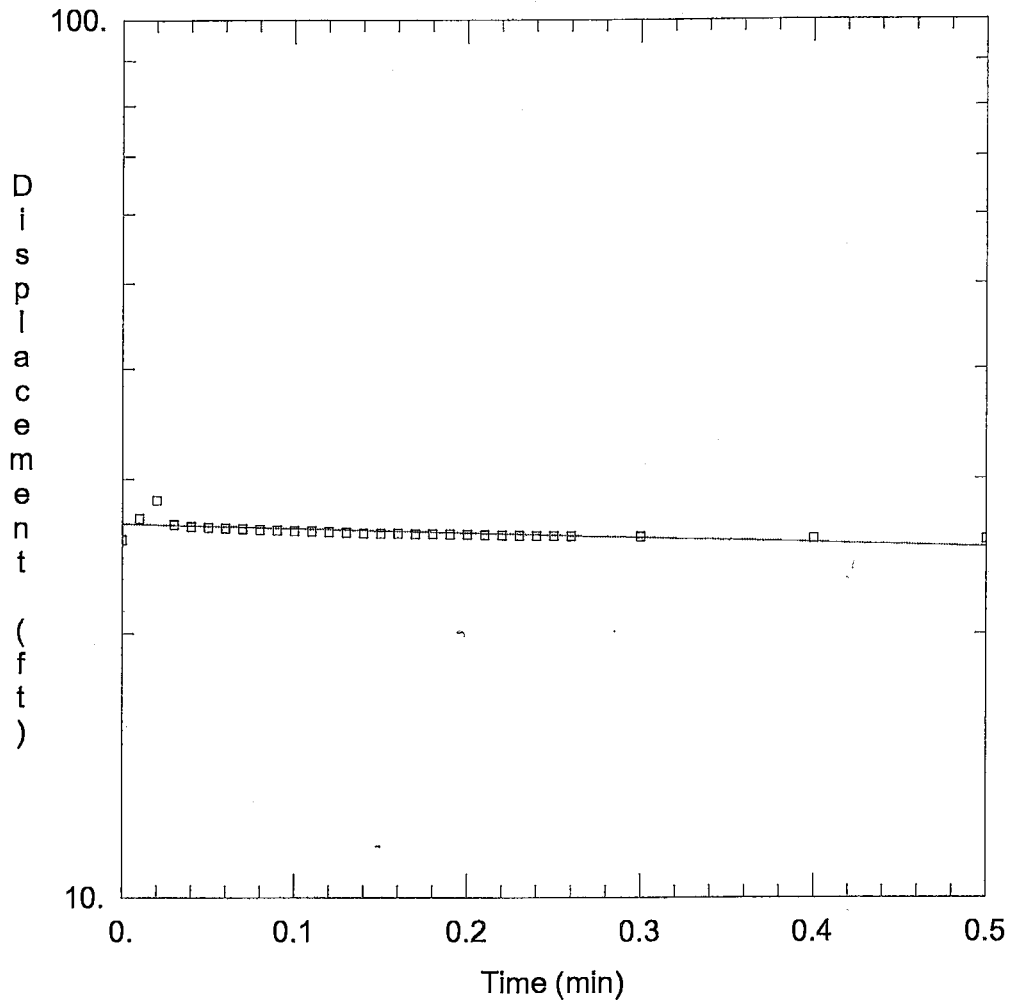
Test # 18 Ref #: 28.52 MW-3 TD = 34.20 (34)

0.00	28.52	0.11	30.12	0.22	30.03	0.33	29.83	0.51	29.67
0.01	28.52	0.12		0.23	30.01	0.35	29.81	0.53	29.67
0.02	30.85	0.13		0.24	29.99	0.36	29.78	0.55	29.66
→ 0.03	30.14	0.14	↓	0.25	29.96	0.38	29.76	0.56	29.65
0.04	30.14	0.15	30.11	0.26	29.94	0.40	29.75	0.58	29.65
0.05	30.13	0.16		0.27	29.92	0.41	29.73	0.60	29.64
0.06	30.13	0.17		0.28	29.90	0.43	29.72	0.70	29.62
0.07	30.12	0.18		0.29	29.89	0.45	29.70	0.80	
0.08		0.19		0.30	29.87	0.46	29.69	0.90	
0.09		0.20		0.31	29.86	0.48	29.68	1.00	
0.10		0.21		0.32	29.84	0.50	29.68	1.20	

Cont'd...

1.40	29.61	4.20	29.56	7.00	29.51	9.80	29.46
1.60	29.61	4.40	29.55	7.20	29.51	10.00	29.46
1.80	29.60	4.60	29.54	7.40	29.50	12.00	29.43
2.00	29.60	4.80		7.60	29.50	14.00	29.40
2.20	29.59	5.00		7.80	29.49	16.00	29.37
2.40	29.59	5.20		8.00		18.00	29.35
2.60	29.58	5.40	↓	8.20	↓	20.00	29.33
2.80		5.60	29.53	8.40	29.48	22.00	29.31
3.00	↓	5.80		8.60		24.00	29.29
3.20	29.57	6.00	↓	8.80		26.00	29.27
3.40	29.57	6.20	29.52	9.00	↓	28.00	29.24
3.60	29.56	6.40		9.20	29.47	30.00	29.22
3.80		6.60	↓	9.40	29.47		
4.00	↓	6.80	29.51	9.60	29.46		

Sat. Thickness = 34 - 28.52 = 5.48  
 Unit. Disp. = 30.14 - 28.52 = 1.62  
 $K = 8.55 \times 10^{-7}$  ft/min /  $1.23 \times 10^5$  ft/day  
 $V = 3.56 \times 10^{-8}$  ft/min  
 $= 5.13 \times 10^{-5}$  ft/day  
 $= 1.87 \times 10^{-2}$  ft/yr.



TEST 18 MW-4

Data Set: F:\Temp Work Folder\Projects\SC State Lead\Interstate Trucking Tier 1\Slug Tests\mw-4.aqt  
 Date: 04/22/05 Time: 08:34:36

PROJECT INFORMATION

Company: Geological Resources, Inc.  
 Client: Interstate Truck Terminal Inc.  
 Project: 00332  
 Test Location: Ulmer, SC  
 Test Well: MW-4  
 Test Date: 04/06/05

AQUIFER DATA

Saturated Thickness: 8.38 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-4)

Initial Displacement: 1.02 ft Casing Radius: 0.083 ft  
 Wellbore Radius: 0.208 ft Well Skin Radius: 0.208 ft  
 Screen Length: 10. ft Total Well Penetration Depth: 8.38 ft  
 Gravel Pack Porosity: 0.045

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice  
 K = 0.0001189 ft/min y0 = 26.69 ft

Interstate Truck Terminal Tui

Test # 19 Ref #: 25.62 MW-4 TD = 34.70 (34)

0.00	25.61	0.16	26.02
0.01	27.04	0.17	25.98
0.02	28.39	0.18	25.97
→ 0.03	26.64	0.19	25.95
0.04	26.50	0.20	25.93
0.05	26.43	0.21	25.91
0.06	26.38	0.22	25.89
0.07	26.33	0.23	25.87
0.08	26.27	0.24	25.85
0.09	26.24	0.25	25.84
0.10	26.21	0.26	25.83
0.11	26.17	0.30	25.77
0.12	26.14	0.40	25.68
0.13	26.07	0.50	25.62
0.14	26.05		
0.15	26.02		

$$\text{Sat. Thick.} = 34 - 25.62 = 8.38$$

$$\text{Init. Disp.} = 26.64 - 25.62 = 1.02$$

$$K = 1.19 \times 10^{-4} \text{ ft/min} / 0.17 \text{ ft/day}$$

$$V = 4.96 \times 10^{-6} \text{ ft/min}$$

$$= 7.14 \times 10^{-3} \text{ ft/day}$$

$$= 2.60 \text{ ft/yr}$$

**APPENDIX E**  
**Certificate of Disposal**



# HAZ~MAT

TRANSPORTATION AND DISPOSAL  
P.O. BOX 37392 • CHARLOTTE, N.C. 28237  
(704) 332-5600  
FAX (704) 375-7183

Manifest No. 24759  
P.O. No. \_\_\_\_\_  
Job No. 05-2857  
275

## NON-HAZARDOUS SPECIAL WASTE

### Section I. GENERATOR (Generator completes all of Section I)

GENERATOR LOCATION: Interstate Trucking, Bobby Jones, Bucks WORK CONTRACTED BY: \_\_\_\_\_  
 NAME: Interstate Trucking Bill To (If different from information at left): \_\_\_\_\_  
 ORIGINATING ADDRESS: 341 Kwik Stop NAME: \_\_\_\_\_  
 MAILING ADDRESS: 1 Rhode Rite, Nickel Pumper, Gayard ADDRESS: \_\_\_\_\_  
 CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
 PHONE NO.: \_\_\_\_\_ PHONE NO.: \_\_\_\_\_  
 CONTACT NAME: \_\_\_\_\_ CONTACT NAME: \_\_\_\_\_  
 DES. OF WASTE: \_\_\_\_\_

No.	Type	Units	Quantity

### Section II. INVOICE INFORMATION GALLONS DRUMS

DESCRIPTION	QUANTITY	LINE TOTAL
1. PETROLEUM CONTACT WATER PUMPED FROM TANKS, DRUMS OR AFVR		
2. OFF-SPEC LIGHT OIL, DIESEL OR GAS PUMPED FROM TANKS OR DRUMS		
3. SOLUBLE OILS OR COOLANTS PUMPED FROM STORAGE		
4. SEDIMENT OR SOLIDS VACUUMED FROM CONTAINMENT AREA		
5. 55-GALLON DRUM REMOVED - SOLID OR EMPTY	4	(1) Interstate Trucking
6. 55-GALLON DRUM REMOVED - LIQUID	3	(1) " "
7.		
8.		
9.		
10. ARRIVAL TIME: _____ DEPARTURE TIME: _____		

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: Ken Ponzetta Signature: \_\_\_\_\_ Shipment Date: 041805

### Section III. TRANSPORTER (Transporter completes all of Section III)

**HAZ~MAT**  
TRANSPORTATION AND DISPOSAL  
P.O. BOX 37392 • CHARLOTTE, N.C. 28237

**TRANSPORTER II**

e. Name: \_\_\_\_\_  
 f. Address: 102 - 23rd St, Charlotte, NC 28227  
 g. Driver Name/Title: Michael King  
 h. Phone No.: \_\_\_\_\_ i. Truck No.: \_\_\_\_\_  
 j. Transporter II Permit Nos. \_\_\_\_\_

a. Driver Name/Title: \_\_\_\_\_  
 b. Phone No.: \_\_\_\_\_ c. Truck No.: \_\_\_\_\_

Hazardous Waste Transporter Permits  
 EPA NCR 000003186  
 EPA NCD048461370

d. Driver Signature: \_\_\_\_\_ Shipment Date: \_\_\_\_\_  
 Driver Signature: Ken Ponzetta Shipment Date: 041805

### Section IV. FACILITY INFORMATION AND CERTIFICATE OF DISPOSAL

Site Name: Haz-Mat Transportation & Disposal, Inc. a. Phone No. 704-332-5600  
 Physical Address: 210 Dalton Avenue b. Mailing Address: P.O. Box 37392  
Charlotte, N.C. 28206 Charlotte, N.C. 28237

e. Discrepancy Indication Space  
This is to certify that all non-hazardous material removed from above location has been received and will be disposed of in accordance with applicable local, state and federal regulations in the following manner: (1) Petroleum products are blended into a beneficial reusable fuel for use in large industrial burners. (2) Waste waters are to be treated with polymers, pH adjusters, and a flocculant, then flows through a dissolved air flotation system for pretreatment separation, then into the CMUD sanitation sewer system under permit IUP#5012. (3) Sludges from treatment systems are hauled to E.P.A. approved facilities for proper disposal. Manifest and certificate of disposal are on file. (4) Our treatment system operates on a first in, first out basis and product should be processed within seven days.

SIGNATURE OF FACILITY AGENT: Michael Puckett DATE: \_\_\_\_\_ MONTH: 4 DAY: 18 YEAR: 05

**APPENDIX F**  
**Allendale County Tax Office and Planning Officials**

**ALLENDALE COUNTY TAX OFFICE & PLANNING OFFICIALS**

**Tax Assessor's Office**

526 Memorial Avenue

P.O.Box 507

Allendale, South Carolina 29810

Office: (803) 584-2572

Mr. Harvey E. Rouse

Tax Assessor

[www.allendalecounty.com/government.htm](http://www.allendalecounty.com/government.htm)

**Zoning Department**

526 Memorial Avenue

P.O. Box 190

Allendale, South Carolina 29810

Office: (803)584-5085

Mr. Gene Smith

Zoning Officer

[www.allendalecounty.com/government.htm](http://www.allendalecounty.com/government.htm)



**APPENDIX G**  
**Adjacent Property Owner Information**

**SUMMARY OF ADJACENT PROPERTY OWNER INFORMATION  
INTERSTATE TRUCK TERMINAL INC.**

Tax Map/Lot Number	Name	Address
131-14 (Site)	Carlyle Moody	1375 Capernaum Road Bamberg, South Carolina
131-15	Francesa Maracle	P.O Box 6 Ulmer, South Carolina 29849
131-16	Mary Ann Johnson	155 Bird Dog Road Ehrardt, South Carolina
131-17 & 131-33	Town of Ulmer	P.O. Box 128 Ulmer, South Carolina 29849
131-19	Hector F. Avelar	P.O.Box 1907 Hardeeville, South Carolina 29927

**APPENDIX H**  
**Water Supply Well Owner Information**

**SUMMARY OF WATER SUPPLY WELL OWNER INFORMATION  
INTERSTATE TRUCK TERMINAL INC.**

Well No.	Tax Map/Parcel Number	Name	Address
WSW-1	131-14 (Site)	Carlyle Moody	1375 Capernaum Road Bamberg, South Carolina
WSW-2	131-15	Frances A. Maracle	P.O. Box 6 Ulmer, South Carolina 29849
WSW-3	131-18	Town of Ulmer	P.O. Box 382 Ulmer, South Carolina 29849

# **TIER II ASSESSMENT REPORT**

*received 11/6/06*

**Interstate Truck Terminal  
Highway 301/ 321  
Ulmer, South Carolina  
UST Permit #332, CA #26142**

**Prepared for:**

**South Carolina Department of Health  
And Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201**

**Prepared by:**

**Consultech Environmental, Inc.  
P.O. Box 5306  
Cary, North Carolina 27512**

**Consultech Project No. C-05-05-032**

**October 2006**

**UST PROGRAM  
DOCKETING #**

*29T*

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- 2 Soil Boring Logs and Monitoring Well Construction Details
- 3 Waste Disposal Manifest
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# TIER II ASSESSMENT CERTIFICATION

## Tier II Assessment Report (Tier II) Certification

I hereby certify that the information contained in this plan and the associated attachments are true, accurate, and complete, and the plan satisfies all the criteria and requirements of the Tier II assessment guidelines dated March 15, 2000.

I hereby certify that I have directed the fieldwork and preparation of this plan in accordance with State Rules and Regulations. As a professional engineer, I certify that I am a qualified groundwater professional, as defined by the South Carolina Board of Registration for Engineers. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

  
Raj B. Shah, P.E. (Consultech Environmental, Inc.)  
Technical Director



11/3/06  
Date

## **1.0 PROJECT BACKGROUND INFORMATION**

This section presents the purpose of the Tier II Assessment Report (Tier II), a description of the site, and the site assessment history.

### **1.1 Purpose**

The purpose of this Tier II assessment is to provide the South Carolina Department of Health and Environmental Control (SCDHEC) with sufficient information to determine if the petroleum release reported in the previous Tier I Assessment conducted by Geological Resources, Inc. at the Interstate Truck Terminal site poses a potential risk to human health or to the environment. This Tier II specifically provides information outlined in the scope of work as defined in the SCDHEC Tier II Assessment Plan (Tier II) guidance document, dated March 15, 2000. Please reference Consultech's Standard Operating Procedures document, dated December 2004. This report presents the extent of petroleum hydrocarbons released to the environment and an evaluation of the risk of exposure to potential receptors.

### **1.2 Site Description**

The subject site, the Interstate Truck Terminal, is located on the east side of Highway 301/321 in Allendale County (Figures 1 and 2). It currently contains a vacant building and reportedly had nine (9) gasoline and diesel underground storage tanks (USTs) that were closed on September 13, 2002.

### **1.3 Site Assessment History**

Groundwater contaminated with petroleum was discovered in a previous assessment received by the South Carolina UST Assessment Section on October 9, 2002. A Tier I Assessment Report was completed by Geological Resources, Inc. that was dated April 27, 2005.

## **2.0 POTENTIAL RECEPTOR SURVEY**

The receptor survey included a private and public groundwater supply well search, a surface water body search in the area of the site, an underground utility survey, and a discussion of current and future uses of the site and down gradient properties.

### **2.1 Location of Drinking Water Supplies**

Three private water supply wells (Appendix 1) are located within 1000 feet of the site. One well is located at an abandoned motel/restaurant approximately 600 feet to the north

and is inactive. A second well (WSW-1) is located approximately 60 feet east of the on-site building and is not in use. A third well (WSW-2) is located approximately 500 feet south of the on-site building and supplies groundwater to three homes. This well was sampled by Consultech on September 6, 2006, but contaminants were not detected.

## **2.2 Location of Surface Water Bodies**

An area of marshland and a tributary of the Salkehatchie River are located approximately 250 feet northwest of the site. A drainage pond is located approximately 500 feet east of the site.

## **2.3 Underground Utility Survey**

Telephone and water lines run along Highway 301/321 adjacent to the site.

## **2.4 Current and Future Uses of the Site and Downgradient Properties**

The site is bordered by woods, an active gas station, and an inactive gas station across Highway 301/321 to the north and west. A former retail petroleum facility is located to the north. Properties to the south and east are residential and commercial. Future uses of the surrounding area are likely to remain the same.

# **3.0 HYDROGEOLOGY AND GEOLOGY**

## **3.1 Regional Geology and Hydrogeology**

The subject site occupies a portion of the Atlantic Coastal Plain Physiographic Province and consists of Lower Cretaceous to recent age sediments overlying older igneous and metamorphic crystalline rocks. These sediments form a wedge that dips seaward from the fall line, and thickens towards the coast. Surface sediments at the site are marine or fluvial deposits. Deeper sediments consist of a wedge of unconsolidated to poorly consolidated sand and clay. Sediments below the site consist of aquifers and confining units based on their relative permeability and lithology. The major aquifer systems are the Middendorf Aquifer System, the Black Creek Aquifer System, the Tertiary Aquifer System, and the Surficial Aquifer System. The Surficial Aquifer System is usually less than 50 feet in thickness and thickens towards the coast.

## **3.2 Site Hydrogeology**

For this site, a benchmark was established with an assumed elevation of 100.00 feet above the National Geodetic Vertical Datum (NGVD) at the site. The most recent groundwater elevations were measured on September 18, 2006, in monitoring wells MW-1 through MW-14 and DW-1 through DW-4, in order to determine static water levels, to

establish the groundwater gradient, and to check for liquid phase hydrocarbons (LPH). The groundwater elevations in the on-site shallow monitoring wells ranged from 71.20 feet (MW-14) to 75.32 feet (MW-3), with respect to a relative datum elevation of 100.00 feet. LPH were not detected in monitoring wells at the site. A summary of the measurement data collected from the monitoring wells is presented in Table 1.

### **3.3 Site Geology**

Soils from borings and the monitoring wells at the site consist predominantly of fine sandy silt from the surface to approximately 12 feet below the ground surface (bgs). A silty clay is present from 12 feet to approximately 17 feet bgs. Coarse to fine silty sand is present from 17 feet to 35 feet bgs. Soil types appear to be generally similar laterally across the site at each depth. Stratigraphic cross-sections A-A' and B-B' (locations shown on Figure 3) are presented on Figures 4 and 5, respectively.

### **3.4 Site Topography**

The elevation at the subject property, as evidenced by the U.S.G.S. 7.5-minute quadrangle topographic map for the area (Sycamore, South Carolina, Figure 1) appears to be approximately 48 feet above mean sea level. The general direction of surface water drainage in the site vicinity appears to be to the west. An area of marshland and a tributary of the Salkehatchie River are located approximately 250 feet northwest of the site.

## **4.0 INVESTIGATIVE METHODS AND SAMPLING**

### **4.1 Field Screening**

The soil was collected at five-foot intervals bgs from 31 soil borings (SB-1 through SB-31) and then scanned with a calibrated Flame Ionization Detector (FID). Field screening results are presented in Table 2, on boring logs in Appendix 2, and on a FID field-screening map provided as Figure 6. Six groundwater samples (GW-1 through GW-6) were collected from borings during the field screening and were analyzed for the presence of benzene, toluene, ethyl benzene, and total xylenes (BTEX).

### **4.2 Monitoring Well Installation**

Soil samples were described on the basis of lithology, color, and texture. Fifteen monitoring wells were installed for this investigation. The shallow monitoring wells, MW-4R through MW-14 are two-inch diameter PVC wells drilled to 35 ft bgs with 10 feet of screen. Four deep wells were also installed at the site. DW-1 through DW-4 were installed with a six-inch isolation casing cemented at 60 feet bgs. The wells were drilled to a total depth of 70 feet bgs and completed with two inch PVC casing screened from 65 to 70 feet bgs. Well construction diagrams are included with the soil boring logs in

Appendix 2. Existing monitoring wells (MW-1, MW-2, and MW-3) installed by previous contractors were also utilized for this investigation.

### **4.3 Soil Sampling**

Soil was not sampled for this investigation. The soil cuttings generated during Consultech's drilling activities were placed in 55-gallon drums. The soil cuttings were then disposed of in accordance with local, state and federal laws (Appendix 3).

### **4.4 Groundwater Sampling**

Prior to groundwater sampling, groundwater field parameters including dissolved oxygen, pH, temperature, and conductivity were collected from 18 groundwater monitoring wells at the site. The results are presented in Table 3.

On August 22, 2006 water samples were obtained from borings GW-1 through GW-6 and analyzed for BTEX. Analysis results for these samples are presented in Table 4.

Groundwater samples were collected on September 6, 7, 13, and 14, 2006 and October 2, 2006 from shallow monitoring wells MW-1 through MW-14, deep wells DW-1 through DW-4 and the adjacent water supply well (WSW-2), and sent to the lab for analysis. The monitoring wells and water supply wells were analyzed for BTEX, ethylene dibromide (EDB), methyl tertiary butyl ether (MTBE), 1,2-dichloroethane (1,2-DCA), naphthalene, lead, and 8 oxygenates. MW-1 through MW-14 and DW-1 through DW-4 were sampled for nitrate, dissolved iron, methane, and sulfate. The laboratory reports are included in Appendix 4 and summarized in Tables 4 and 5.

## **5.0 PHYSICAL AQUIFER CHARACTERISTICS**

### **5.1 Hydraulic Conductivity Tests**

Consultech conducted in-situ hydraulic conductivity tests in monitoring wells MW-3, MW-5R, and MW-7 (Appendix 5). The hydraulic conductivity tests were conducted by using a bailer or pump to bail out as much water as possible. Using an oil/water interface probe, the water levels were then recorded over time as the water levels in the wells returned to their static levels. The recovery data and completion details of the wells were used to determine the in-situ hydraulic conductivity using the Bouwer and Rice method for the case of a semi-confined aquifer, partially penetrated by a well. The hydraulic conductivities calculated by this method are considered estimated values based on several assumptions, most notably homogenous, isotropic aquifer flow with minimal sand pack recharge.

## 5.2 Direction and Rate of Groundwater Flow

On September 18, 2006, groundwater depths for monitoring wells MW-1 through MW-14 and DW-1 through DW-4 were measured and their corresponding elevations are presented in Table 1. All wells were gauged for the presence of LPH using an oil/water interface probe with LPH not indicated in any monitoring wells.

The groundwater elevations taken on September 18, 2006 are illustrated in the groundwater potentiometric map on Figure 7 and indicate that the shallow groundwater flow direction appears to be towards the northeast. Based on the groundwater elevations in monitoring wells MW-2 and MW-6, and the distances between these wells, the average hydraulic gradient (referenced as "i") is estimated to be 0.011 feet per foot (ft/ft).

The shallow groundwater flow velocity (V) was estimated for the site using the Darcy equation,  $V=(K \times i)/n_{eff}$ , with the average K (20.49 feet per day), the gradient i (0.011 ft/ft), and the estimated effective porosity ( $n_{eff}$ ) of 0.30. This equation assumes a homogeneous, isotropic aquifer that is infinite in a real extent (i.e., no boundary conditions). Based on this calculation, the average groundwater velocity is estimated to be 0.75 ft/day or 274 ft/yr (Appendix 5).

## 6.0 HORIZONTAL AND VERTICAL EXTENT OF PETROLEUM HYDROCARBONS

### 6.1 Extent of Petroleum Contamination in Soil

The delineation of the soil contamination at the site was not a part of this investigation.

### 6.2 Extent of Petroleum Contamination in Groundwater

Groundwater samples were collected on September 6, 7, 13, and 14, 2006 and October 2, 2006 from shallow monitoring wells MW-1 through MW-14 and deep wells DW-1 through DW-4. Table 4 presents the analytical results for BTEX, MTBE, 1,2-DCA, and naphthalene in groundwater at the site. Figure 8 demonstrates that benzene was detected in groundwater above the risk based screening level (RBSL) of 5.0 micrograms per liter ( $\mu\text{g/l}$ ) in monitoring wells MW-2 (180  $\mu\text{g/l}$ ), MW-4R (68  $\mu\text{g/l}$ ), MW-5R (14  $\mu\text{g/l}$ ), MW-6 (160  $\mu\text{g/l}$ ), MW-9 (180  $\mu\text{g/l}$ ), and MW-14 (79  $\mu\text{g/l}$ ).

Toluene (Figure 9) was detected in the groundwater above the RBSL of 1,000  $\mu\text{g/l}$  in monitoring wells MW-2 (4,400  $\mu\text{g/l}$ ), MW-4R (1,300  $\mu\text{g/l}$ ), MW-6 (2,500  $\mu\text{g/l}$ ), MW-9 (2,900  $\mu\text{g/l}$ ), and MW-14 (4,800  $\mu\text{g/l}$ ). Ethylbenzene (Figure 10) was detected in groundwater above the RBSL of 700  $\mu\text{g/l}$  in monitoring wells MW-2 (2,200  $\mu\text{g/l}$ ), MW-

4R (1,200 ug/l), MW-9 (750 ug/l), and MW-14 (1,500 ug/l). Figure 11 indicates that total xylenes were detected above the RBSL of 10,000 ug/l in MW-2 (11,000 ug/l).

Naphthalene (Figure 12) was detected in groundwater above the RBSL of 25.0 µg/l in monitoring wells MW-2 (200 ug/l), MW-4R (130 ug/l), MW-5R (250 ug/l), MW-6 (150 ug/l), MW-9 (290 ug/l), and MW-14 (150 ug/l).

Deep monitoring wells DW-1, DW-2, and DW-3 contained contaminants at concentrations below their RBSL. Contaminants were not detected in groundwater in DW-4.

Table 5 presents natural attenuation parameters, and EDB and lead concentrations, that were measured during the September 6, 7, 13, and 14, 2006 and October 2, 2006 sampling events, in monitoring wells MW-1 through MW-14, DW-1 through DW-4, and in water supply well WSW-2. Lead was present above the RBSL of 0.015 milligrams per liter (mg/l) in monitoring wells MW-2 (0.109 mg/l), MW-4R (0.0726 mg/l), MW-5R (0.0273 mg/l), MW-6 (0.063 mg/l), MW-7 (0.0274 mg/l), MW-10 (0.016 mg/l), MW-11 (0.0364 mg/l), MW-14 (0.0427 mg/l), and DW-1 (0.0209 mg/l). EDB was present above the RBSL of 0.05 ug/l in monitoring wells MW-2 (0.24 µg/l), MW-4R (0.23 ug/l), and MW-14 (0.18 ug/l). The eight oxygenates were not detected in groundwater at the site. The total of the eight oxygenates (TO) for each monitoring well are presented in Table 5.

Natural attenuation will be discussed in section 8.2.

### **6.3 Extent of LPH Plume**

LPH were not detected in any monitoring wells.

## **7.0 GROUNDWATER MODELING**

### **7.1 Domenico's Model**

The Domenico's Model will be utilized by South Carolina DHEC to determine site-specific target levels (SSTLs) for the source area.

### **7.2 Fate and Transport Modeling**

South Carolina DHEC will conduct fate and Transport modeling.

## **8.0 TIER II SITE EVALUATION**

### **8.1 Site Conceptual Model and Exposure Points**

A site conceptual exposure model was completed for the site which identified exposure pathways using information obtained during this assessment, including facility operations, measured hydrogeologic conditions, potential receptors, type of source, and the identified release. The results of this model are included as Tables 6 and 7 for the source area.

A release from USTs has resulted in groundwater contamination with concentrations above the RBSLs. The site is down gradient from three homes that share a potable water supply well. There remains some potential for this well to become impacted in the future. Until the contaminant plume has been fully delineated, the threat to down gradient surface water remains unknown.

### **8.2 Site Specific Point of Compliance**

The horizontal extent of groundwater contamination has not been fully delineated. Consultech does not recommend establishing points of compliance until additional assessment activities have been conducted.

### **8.3 Natural Attenuation Parameters Evaluation**

Dissolved oxygen (DO) concentrations measured in each monitoring well ranged from 0.1 mg/l in monitoring well MW-11 to 5.4 mg/l in monitoring well MW-7. A comparison of Tables 3 and 4 shows that there is no apparent correlation between DO concentrations and dissolved concentrations of the petroleum fuel related compounds.

Tables 4 and 5 were compared to determine if a correlation can be shown between the concentrations of natural attenuation parameters within and outside of the contaminant plume. Nitrate was present in the groundwater at the site at concentrations ranging from <0.10 mg/l (MW-4R) to 16 mg/l (MW-6). MW-6 lies within the benzene plume and there is little evidence that areas of depleted nitrate correlate with the elevated BTEX concentrations in the groundwater. Petroleum hydrocarbons beneath the site are likely not being biodegraded through denitrification.

Ferrous iron (FI) concentrations ranged from <0.10 mg/l in several monitoring wells to 51.2 mg/l in MW-9. The monitoring wells with the highest concentrations of BTEX and naphthalene also had high levels of iron. With the exception of MW-7 that had a high concentration of dissolved iron outside the groundwater petroleum contamination plume, there does appear to be a relationship between high FI concentrations and contaminants. Ferric iron ( $\text{Fe}^{+3}$ ) oxides appear to be being reduced to ferrous iron ( $\text{Fe}^{+2}$ ) during biodegradation of petroleum hydrocarbons.



Sulfate concentrations ranged from 1.0 mg/l in monitoring well MW-4R to 84 mg/l in monitoring well DW-4. There appears to be a correlation between sulfate concentrations and the presence of hydrocarbons, with the lowest sulfate concentrations present in monitoring wells inside the contaminant plume. Therefore, anaerobic biodegradation of petroleum hydrocarbons may be occurring by sulfate reduction.

Methane concentrations ranged from <0.03 mg/l in several monitoring wells to 0.043 mg/l in monitoring well MW-2. With the exception of monitoring well MW-7, methane was not present outside the BTEX and naphthalene contaminant plumes. With the exception of MW-6, the highest concentrations of methane in the monitoring wells generally corresponded with the highest benzene concentrations. Therefore, anaerobic biodegradation of petroleum hydrocarbons may be occurring by methane reduction.

#### **8.4 Calculation of Site Specific Target Levels**

South Carolina DHEC will calculate SSTL's.

#### **8.5 RBCA Site Classification**

Based on the SCDHEC document "Risk Based Corrective Action for Petroleum Releases" dated May 15, 2001, Appendix A – RBCA Site Priority Classification System, Consultech classifies this release as a 2b because potable supply wells are located within 1,000 feet of the site.

### **9.0 RECOMMENDATIONS**

The groundwater contaminant plume has been mostly delineated but additional assessment is recommended. Consultech recommends continued monitoring of water supply well WSW-2. Continued monitoring of water supply well WSW-1 is recommended if the Site becomes active.

## 10.0 REFERENCES

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**Table 1**  
**Well Construction Details, Groundwater Elevation Data**  
**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**  
**Consultech Project C-05-05-032**

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
MW-1	09/18/06	25'-35'	103.24		28.88	74.36
MW-2	09/18/06	25'-35'	102.49		28.64	73.85
MW-3	09/18/06	24'-34'	103.46		28.14	75.32
MW-4R	09/18/06	25'-35'	101.87		27.35	74.52
MW-5R	09/18/06	25'-35'	103.94		31.16	72.78
MW-6	09/18/06	25'-35'	101.38		28.51	72.87
MW-7	09/18/06	25'-35'	104.36		31.10	73.26
MW-8	09/18/06	25'-35'	102.76		30.03	72.73
MW-9	09/18/06	25'-35'	99.67		28.12	71.55
MW-10	09/18/06	25'-35'	102.33		28.01	74.32
MW-11	09/18/06	25'-35'	100.40		25.31	75.09
MW-12	09/18/06	25'-35'	99.29		25.79	73.50
MW-13	09/18/06	25'-35'	99.71		26.82	72.89
MW-14	09/18/06	25'-35'	99.32		28.12	71.20
DW-1	09/18/06	65'-70'	102.22		23.92	78.30
DW-2	09/18/06	65'-70'	102.59		28.90	73.69
DW-3	09/18/06	65'-70'	99.53		28.41	71.12
DW-4	09/18/06	65'-70'	99.86		28.79	71.07

All measurements reported in feet

**Table 2**

**FID Field Readings**

**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**

**Consultech Project C-05-05-032**

Sample	Date	5'	10'	15'	20'	25'	30'	35'	40'	45'
SB-01	08/21/06	1.1	1.2	1.1	1.4	1.1	1.1			
SB-02	08/21/06	1.2	1.3	1.1	1.2	1.1	1.1			
SB-03	08/21/06	1.1	1.1	5.8	323	2469	2954			
SB-04	08/21/06	1.2	1.1	1.5	4.1	1.2	1.3			
SB-05	08/21/06	1.3	1.2	1.1	1.1	1.2	1.2			
SB-06	08/21/06	1.3	1.3	1.3	1.1	1.2	1.1	1.1	1.2	1.2
SB-07	08/21/06	1.1	1.1	2.1	96.2	589	725			
SB-08	08/21/06	1.2	1.1	1.3	1.6	2.7	9.9			
SB-09	08/21/06	1.2	1.1	1.2	1.2	1.1	1.1			
SB-10	08/22/06	1.1	1.1	1.2	94.9	1949	2759			
SB-11	08/22/06	1.1	1.1	1.2	10.3	573	791			
SB-12	08/22/06	0.9	1.1	1.1	1.4	10.6	24.5			
SB-13	08/22/06	0.9	1.1	1.1	1.4	1.2	1.1			
SB-14	08/22/06	1.5	1.3	79.9	68.3	3290	3200			
SB-15	08/22/06	1.3	1.2	75.8	71.3	3390	3310			
SB-16	08/22/06	1.3	1.2	65.8	48.7	3370	3350			
SB-17	08/22/06	1.1	1.2	35.7	37.7	1579	1829			
SB-18	08/22/06	1.2	1.1	1.3	1.1	23.1	32.9			
SB-19	08/22/06	1.3	1.3	90.6	41.4	3390	3390			
SB-20	08/22/06	1.1	1.3	1.2	1.1	1.1	1.2			
SB-21	08/22/06	1.1	1.1	1.2	1.2	7.9	14.2			
SB-22	08/22/06	1.2	1.1	1.2	4.6	29.9	74.2			
SB-23	08/22/06	1.1	1.1	1.1	1.2	1.3	1.1			
SB-24	08/26/06	1.2	1.1	1.1	1.2	1.5	2.1	1.8	1.4	1.4
SB-25	08/26/06	1.2	1.1	1.1	1.2	4.3	9.8			
SB-26	08/26/06	1.2	1.2	1.3	1.1	212	545			
SB-27	08/26/06	1.1	1.4	2.1	12.9	1845	2765			
SB-28	08/26/06	1.2	1.1	1.1	1.4	6.1	27.9			
SB-29	08/26/06	1.3	1.1	1.2	1.3	1.1	1.3			
SB-30	08/26/06	1.1	1.1	1.1	1.3	2.1	3.7			
SB-31	08/26/06	1.1	1.1	1.1	1.3	1.5	2.9			

FID reading in parts per million

**Table 3****Groundwater Field Parameter Results****Interstate Truck Terminal, Ulmer, SC - Facility # 00332****Consultech Project C-05-05-032**

Well Number	Date	Dissolved Oxygen (parts per million)	pH	Temperature (°C)	Conductivity (us/cm*)
MW-1	09/13/06	1.8	5.9	23	90
MW-2	09/13/06	1.3	6.0	24	340
MW-3	09/13/06	3.2	6.5	24	110
MW-4R	09/13/06	0.5	6.5	23	190
MW-5R	09/13/06	0.0	6.4	22	220
MW-6	09/13/06	0.7	6.7	23	230
MW-7	09/13/06	5.4	6.4	21	120
MW-8	09/13/06	3.7	6.4	21	300
MW-9	09/13/06	3.8	6.5	21	240
MW-10	09/13/06	4.7	6.6	23	110
MW-11	09/13/06	0.1	6.5	22	170
MW-12	09/13/06	0.9	6.4	21	110
MW-13	09/13/06	1.9	6.4	21	130
MW-14	09/13/06	0.2	6.7	23	210
DW-1	09/13/06	2.3	5.8	23	150
DW-2	09/13/06	4.7	6.5	22	150
DW-3	09/13/06	4.5	6.2	23	240
DW-4	10/02/06	4.0	6.0	21	190

\*us/cm - microsiemens per centimeter

**Table 4**  
**BTEX and PNA Groundwater Analytical Results (ug/l)**  
**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**  
**Consultech Project C-05-05-032**

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Napthalenes	1,2 DCA
<i>RBSL</i>		5.0	1,000.0	700.0	10,000.0	40.0	25.0	NA
MW-1	09/06/06	<1.0	1.2	1.4	2.9	<1.0	<5.0	<5.0
	04/06/05	<b>78.4</b>	<b>3,400</b>	<b>1,730</b>	7,880	<1.0	<b>153</b>	NS
MW-2	09/06/06	<b>180</b>	<b>4,400</b>	<b>2,200</b>	<b>11,000</b>	<20	<b>200</b>	<100
	04/06/05	2.4	4.7	17.8	35.5	<1.0	2.40	NS
MW-3	09/06/06	<20	29	130	650	<20	<100	<100
	04/06/05	6.1	132	532	2,590	<1.0	<b>171</b>	NS
MW-4R	09/07/06	<b>68</b>	<b>1,300</b>	<b>1,200</b>	6,200	<10	<b>130</b>	<50
MW-4*	04/06/05	5.7	79.0	352	702	<1.0	<b>55.0</b>	NS
MW-5R	09/07/06	<b>14</b>	35	430	1,900	<10	<b>250</b>	<50
MW-5*	04/06/05	4.6	17.7	248	999	<1.0	<b>123</b>	NS
MW-6	09/13/06	<b>160</b>	<b>2,500</b>	680	5,600	<10	<b>150</b>	<50
MW-7	09/07/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
MW-8	09/13/06	<1.0	2.0	<1.0	2.0	<1.0	<5.0	<5.0
MW-9	09/07/06	<b>180</b>	<b>2,900</b>	<b>750</b>	5,000	<10	<b>290</b>	<50
MW-10	09/07/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
MW-11	09/13/06	1.1	3.4	1.8	8.2	<1.0	<5.0	<5.0
MW-12	09/13/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
MW-13	09/13/06	<1.0	1.3	<1.0	1.1	<1.0	<5.0	<5.0
MW-14	09/07/06	<b>79</b>	<b>4,800</b>	<b>1,500</b>	8,100	<10	<b>150</b>	<50
DW-1	09/14/06	1.5	14	35	150	<1.0	<5.0	<5.0
DW-2	09/14/06	<1.0	2.9	2.0	14	<1.0	<5.0	<5.0
DW-3	09/14/06	1.2	17	5.5	29	<1.0	<5.0	<5.0
DW-4	10/02/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0
WSW-2	09/06/06	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0

\*Previously constructed monitoring wells that lie adjacent to replacement monitoring wells constructed for this investigation. Only replacement well locations are shown on report maps.

**Analytical Groundwater Screening Results**

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes
<i>RBSL</i>		5.0	1,000.0	700.0	10,000.0
GW-1	08/22/06	1.4	14	2.1	11.0
GW-2	08/22/06	2.5	19	2.7	13
GW-3	08/22/06	1.8	16	2.5	13
GW-4	08/22/06	<b>150</b>	<b>2900</b>	340	1500
GW-5	08/22/06	<1.0	7.6	1.2	5.1
GW-6	08/22/06	<1.0	2.5	<1.0	<1.0

All concentrations in parts per billion  
 Concentrations in bold exceed Risk Based Screening Levels (RBSL)  
 NS- Monitoring well not sampled for analyte indicated

**Table 5**  
**Groundwater Natural Attenuation, EDB, Total Oxygenates, and Lead Results**  
**Interstate Truck Terminal, Ulmer, SC - Facility # 00332**  
**Consultech Project C-05-05-032**

Well Number	Date	EDB (ug/l)	Total 8-Oxygenates	Total Lead (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Iron (mg/l)	Methane (mg/l)
RBSL		0.05	NA	0.015	NA	NA	NA	NA
MW-1	09/06/06	<0.020	<100	<0.0100	2.4	7.3	<0.100	<0.003
MW-2	09/06/06	0.24	<2000	0.1090	0.73	1.8	20.7	0.043
MW-3	09/06/06	<0.020	<2000	<0.0100	1.2	3.3	7.46	<0.003
	04/06/05	0.09	-	0.0420	1.70	2.69	30.4	<0.026
MW-4R	09/07/06	0.23	<1000	0.0726	<0.10	1.0	12.7	<0.003
MW-4*	04/06/05	<0.020	-	0.0310	1.04	4.14	12.3	<0.026
MW-5R	09/07/06	<0.019	<1000	0.0273	3.1	3.4	22.1	<0.003
MW-5*	04/06/05	<0.020	-	0.0230	1.40	2.51	33.7	<0.026
MW-6	09/13/06	<0.019	<1000	0.0630	16	1.8	11.2	0.005
MW-7	09/07/06	<0.019	<100	0.0274	3.0	24	14.5	0.007
MW-8	09/13/06	<0.019	<100	<0.0100	6.3	4.5	3.96	<0.003
MW-9	09/07/06	<0.021	<1000	0.0142	0.77	1.8	51.2	0.019
MW-10	09/07/06	<0.019	<100	0.0160	1.3	4.1	2.82	<0.003
MW-11	09/13/06	<0.019	<100	0.0364	0.92	3.1	21.9	0.005
MW-12	09/13/06	<0.019	<100	<0.0100	1.7	2.4	7.84	<0.003
MW-13	09/13/06	<0.020	<100	<0.0100	1.3	3.4	10.0	<0.003
MW-14	09/07/06	0.18	<1000	0.0427	2.6	1.8	16.3	0.012
DW-1	09/14/06	<0.019	<100	0.0209	1.3	5.0	<0.100	<0.003
DW-2	09/14/06	<0.020	<100	<0.0100	2.6	32	<0.100	<0.003
DW-3	09/14/06	<0.020	<100	0.0122	2.0	44	<0.100	<0.003
DW-4	10/02/06	<0.019	<100	<0.0100	0.78	84	<0.100	<0.003
WSW-2	09/06/06	<0.019	<100	<0.0100	NS	NS	NS	NS

\*Previously constructed monitoring wells that lie adjacent to replacement monitoring wells constructed for this investigation. Only replacement well locations are shown on report maps.

NS- Well not sampled for analyte indicated  
ug/l- micrograms per liter  
mg/l- milligrams per liter

**Table 6**  
**Site Conceptual Exposure Model - Current Land Use**

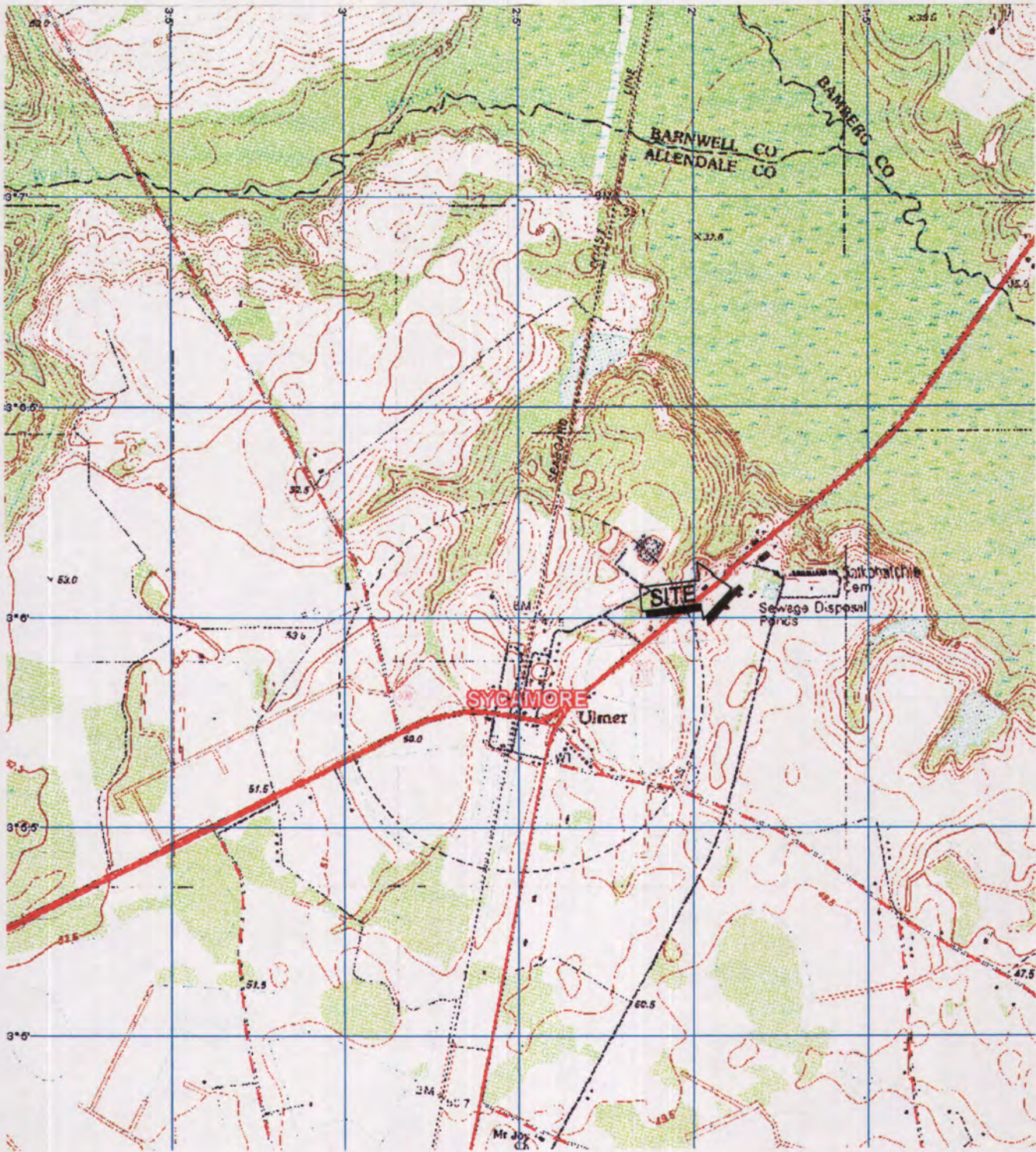
Media (for exposure)	Exposure Route	Pathway Selected for Evaluation?	Exposure Point/ Reason for Non-Selection	Data Requirments (If Pathway Selected)
Air	Inhalation	NO	No in-use structures, basements, or sewer lines over contaminant plume.	
	Explosion Hazard	NO		
Groundwater	Ingestion	YES	Active up gradient water supply well.	Continued sampling of monitoring wells and water supply well.
	Dermal Contact	YES		
	Volatile Inhalation	YES		
Surface Water	Ingestion	YES	A drainage pond and marshland are located east and north of the site.	Additional delineation of contaminant plume.
	Dermal Contact	YES		
	Volatile Inhalation	YES		
Surficial Soil	Ingestion	NO	The Tier I Assessment detected relatively minor soil contamination at the site.	
	Dermal Contact	NO		
	Volatile Inhalation	NO		
	Leaching to Groundwater	NO		
Subsurface Soil	Ingestion	NO	Ingestion unlikely with subsurface soil. The Tier I Assessment detected relatively minor soil contamination at the site.	
	Dermal Contact	NO		
	Volatile Inhalation	NO		
	Leaching to Groundwater	NO		



**Table 7**  
**Site Conceptual Exposure Model - Future Land Use**

Media (for exposure)	Exposure Route	Pathway Selected for Evaluation?	Exposure Point / Reason for Non-Selection	Data Requirments (If Pathway Selected)
Air	Inhalation	NO	No in-use structures, basements, or sewer lines over contaminant plume.	
	Explosion Hazard	NO		
Groundwater	Ingestion	YES	Up gradient water supply well in-use Side gradient well not in-use but status of well could change in the future.	Continued sampling of monitoring wells and water supply well.
	Dermal Contact	YES		
	Inhalation	YES		
Surface Water	Ingestion	YES	A drainage pond and marshland are located east and north of the site.	Additional delineation of contaminant plume.
	Dermal Contact	YES		
	Inhalation	YES		
Surficial Soil	Ingestion	NO	The Tier I Assessment detected relatively minor soil contamination at the site.	
	Dermal Contact	NO		
	Volatile Inhalation	NO		
	Leaching to Groundwater	NO		
Subsurface Soil	Ingestion	NO	Ingestion unlikely with subsurface soil. The Tier I Assessment detected relatively minor soil contamination at the site.	
	Dermal Contact	NO		
	Volatile Inhalation	NO		
	Leaching to Groundwater	NO		

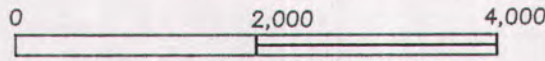




REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP. 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 1  
SITE LOCATION MAP

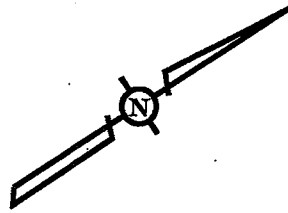
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Delivering innovative solutions to today's environmental concerns





WOODED  
MW-11

MW-12

MW-13  
DW-4

WOODED

HIGHWAY 301 / HIGHWAY 321

SIDEWALK

DW-1 MW-2

MW-4R

MW-6

MW-14 DW-3

MW-3

CONCRETE

MW-9

ASPHALT/CONCRETE

MW-1

MW-5R

SC-S-3-190

INTERSTATE TRUCK

MW-10 DW-2

MW-8





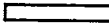
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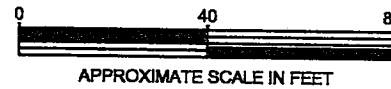
GRASS


MW-7

WSW-1  
(INACTIVE)

**LEGEND**

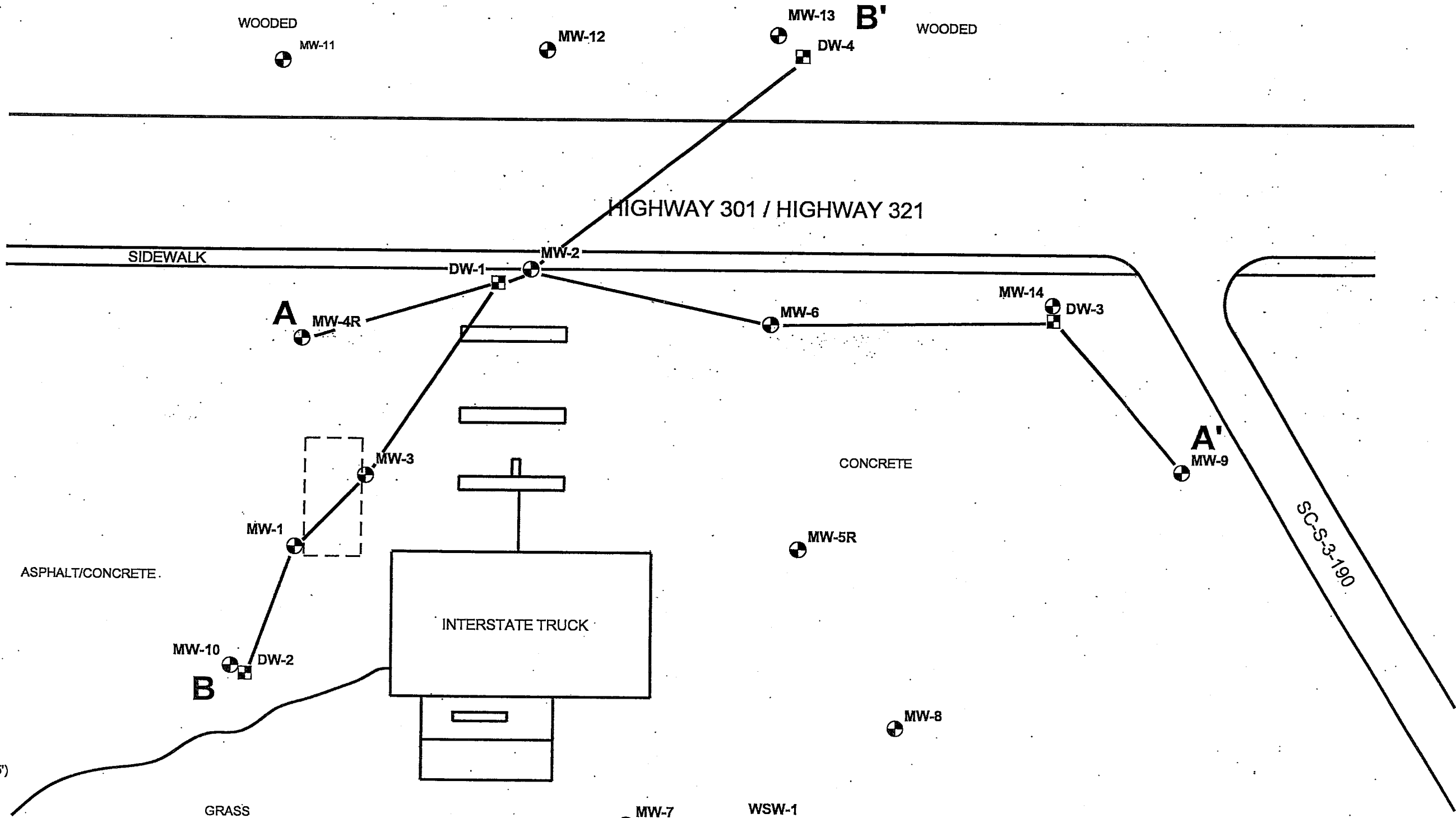
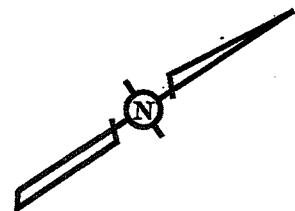
-  MW-7 SHALLOW MONITORING WELL
-  DW-2 DEEP MONITORING WELL
-  WSW-1 WATER SUPPLY WELL
-  FORMER UST PIT
-  DISPENSER ISLAND



 <p>CONSULTECH ENVIRONMENTAL, INC. Environmental Consulting and Engineering © 1999 Delivering innovative solutions to today's environmental concerns</p>	DRAWN: MAC DATE: 10/24/06
	SITE ID # 00332
	PROJECT: INTERSTATE TRUCK PROJECT No.: C-05-05-032
	LOCATION: ULMER, SOUTH CAROLINA

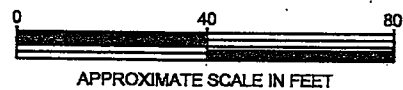
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**FIGURE 2  
SITE PLAN MAP**



**LEGEND**

- MW-2 SHALLOW MONITORING WELL
- DW-2 DEEP MONITORING WELL
- FORMER UST PIT



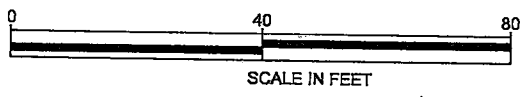
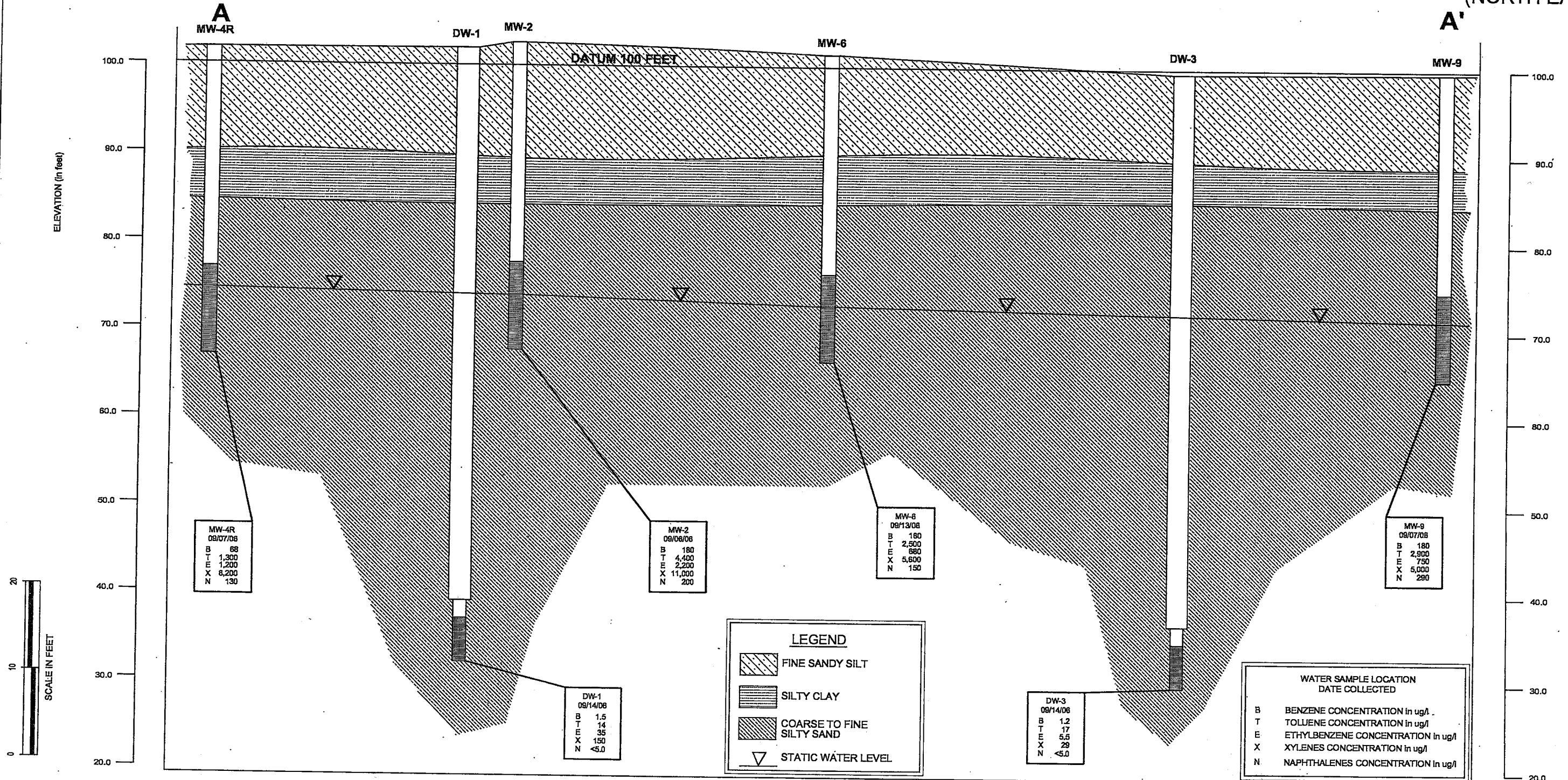
<p>Environmental Consulting and Engineering © 1999 Delivering innovative solutions to today's environmental concerns</p>	DRAWN: MAC      DATE: 10/24/06
	SITE ID # 00332
	PROJECT: INTERSTATE TRUCK
	PROJECT No.: C-05-05-032
LOCATION: ULMER, SOUTH CAROLINA	

**FIGURE 3**  
STRATAGRAPHIC CROSS SECTION  
LOCATION MAP

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(SOUTH WEST)

(NORTH EAST)



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REV.: 0

PROJECT: INTERSTATE TRUCK

PROJECT No.: C-05-05-032

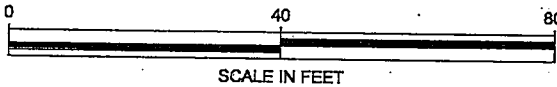
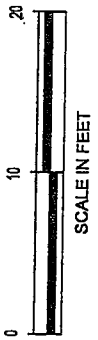
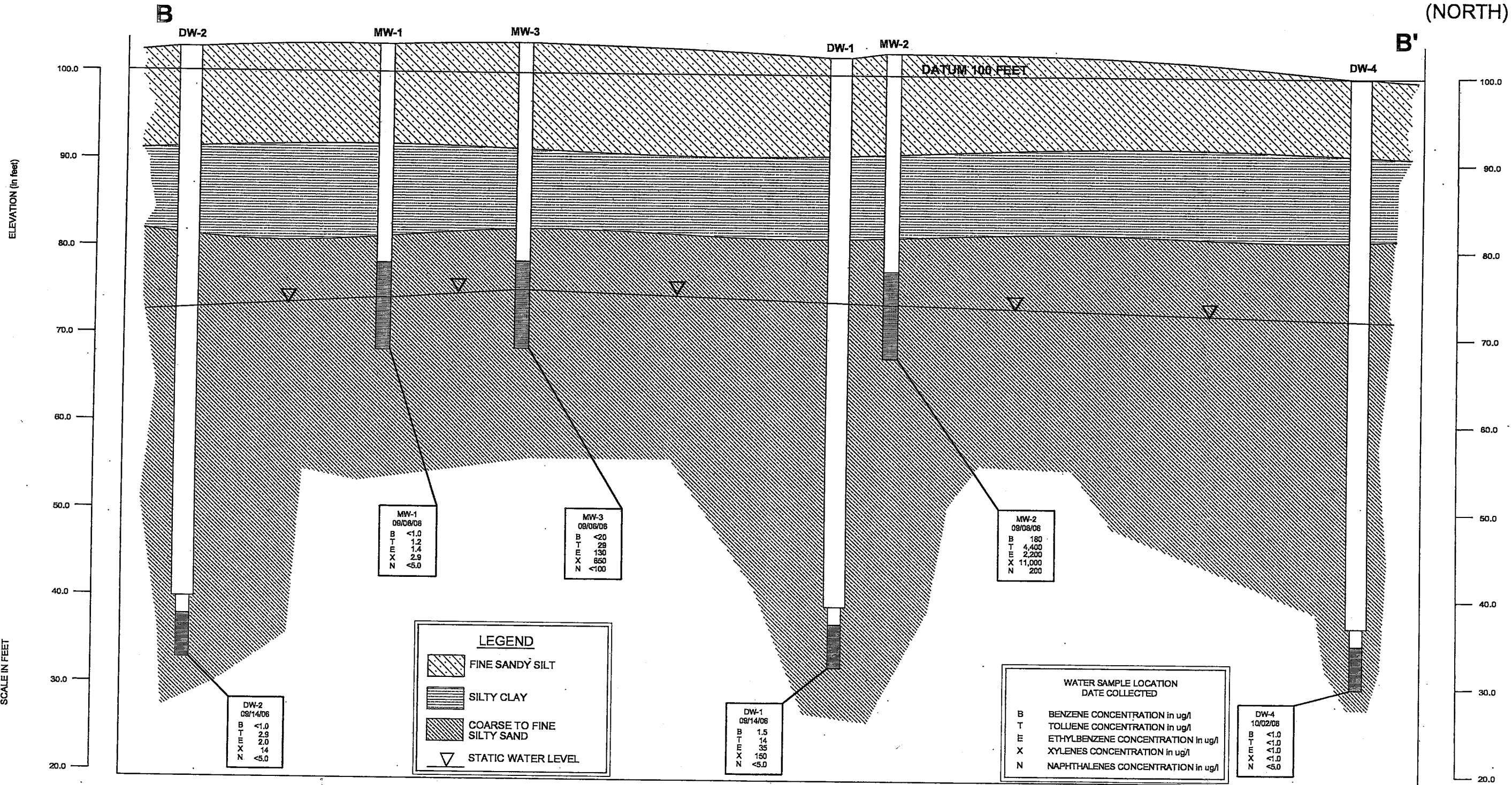
LOCATION: ULMER, SOUTH CAROLINA

FIGURE 4 VERTICAL EXTENT OF BTEX/PNA COMPOUNDS IN GROUNDWATER (SECTION A-A')

CAD FILE = C-05-05-032.dwg.

(SOUTH)

(NORTH)



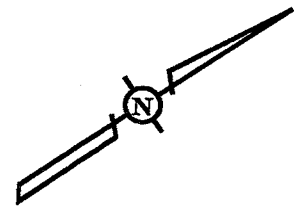
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REV.: 0	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

CAD FILE = C-05-05-032.dwg.

FIGURE 5  
VERTICAL EXTENT OF BTEX/PNA  
COMPOUNDS IN GROUNDWATER  
(SECTION B-B')



# GW-1 (28.5) SB-23 (1.1) SB-24 (2.1) SB-25 (9.8) SB-29 (1.3) # GW-6 (2.5) SB-30 (3.7) SB-31 (2.9) # GW-5 (13.9)  
 SB-26 (545) SB-27 (2765) SB-28 (27.9)

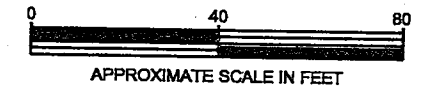
HIGHWAY 301 / HIGHWAY 321

SB-21 (14.2) SB-22 (74.2) SB-19 SB-14 (3390) SB-15 (3390) SB-16 (3390) SB-17 (1829) SB-18 (32.9) # GW-4 (4,890)  
 SB-20 (1.2) SB-10 (2759) SB-11 (791) SB-12 (24.5) SB-13 (1.1)  
 MW-2 MW-3 SB-3 (2954) SB-7 (725) SB-8 (9.9) SB-9 (1.1)  
 SB-1 (1.1) # GW-2 (37.2) SB-2 (1.1) INTERSTATE TRUCK TERMINAL, INC. SB-4 (1.3) SB-5 (1.2) SB-6 (1.2) # GW-3 (33.3)

SC-S-3-190

**LEGEND**

- SB-18 (32.9) SOIL BORING LOCATION FID READING (ppm)
- # GW-4 (4,890) GROUNDWATER SAMPLE TOTAL BTEX (ug/l)
- ⊕ MW-1 MONITORING WELL
- FORMER UST PIT
- ▭ DISPENSER ISLAND



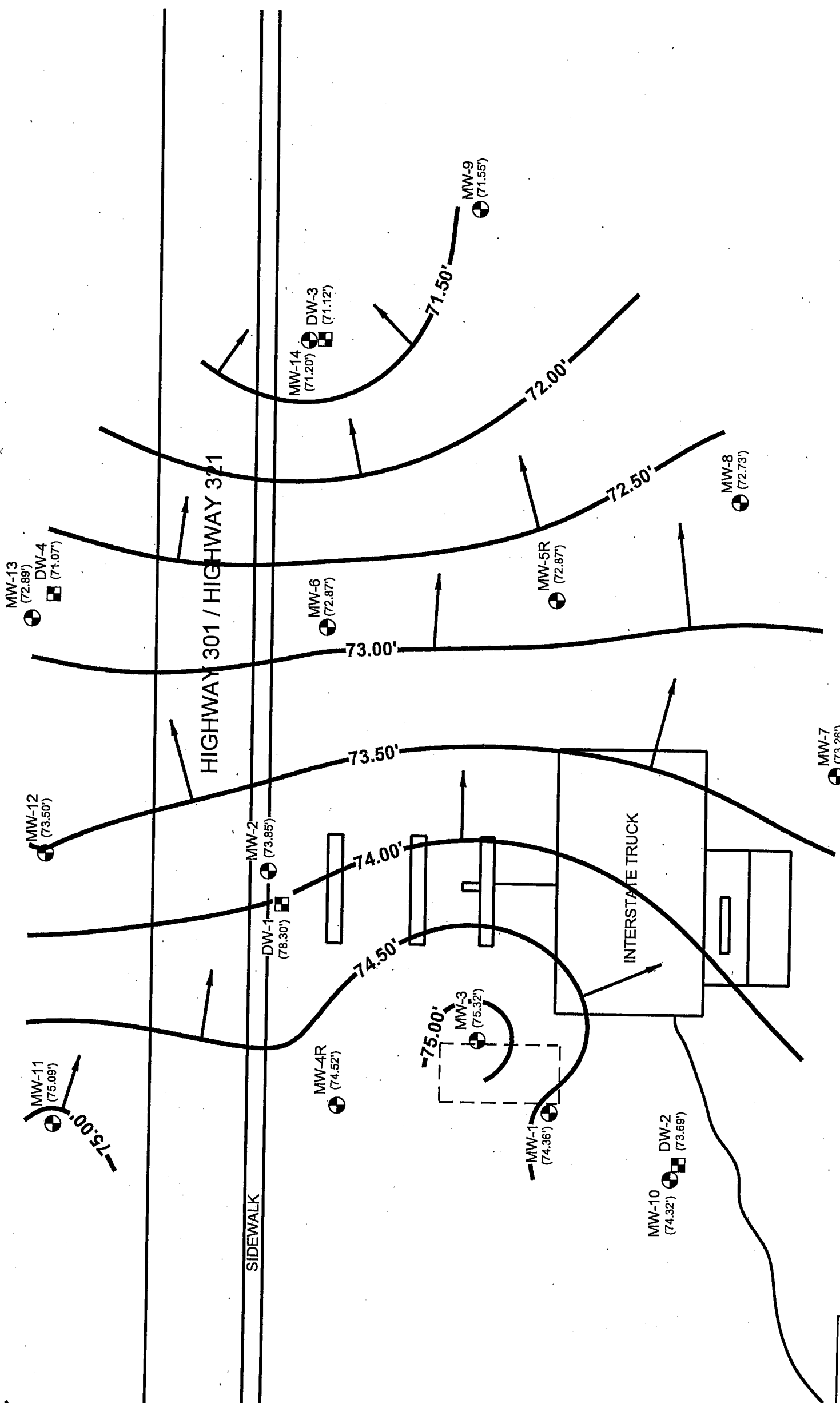
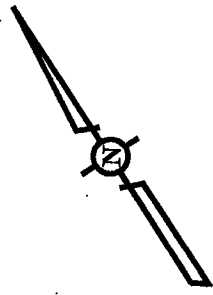
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SITE ID # 00332	
PROJECT: INTERSTATE TRUCKING	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

CAD FILE: C-05-05-032ste.dwg

**FIGURE 6**  
FIELD SCREENING RESULTS



**LEGEND**

- MW-2 SHALLOW MONITORING WELL  
(73.85') GROUNDWATER ELEVATION
- DW-2 DEEP MONITORING WELL
- FORMER UST PIT



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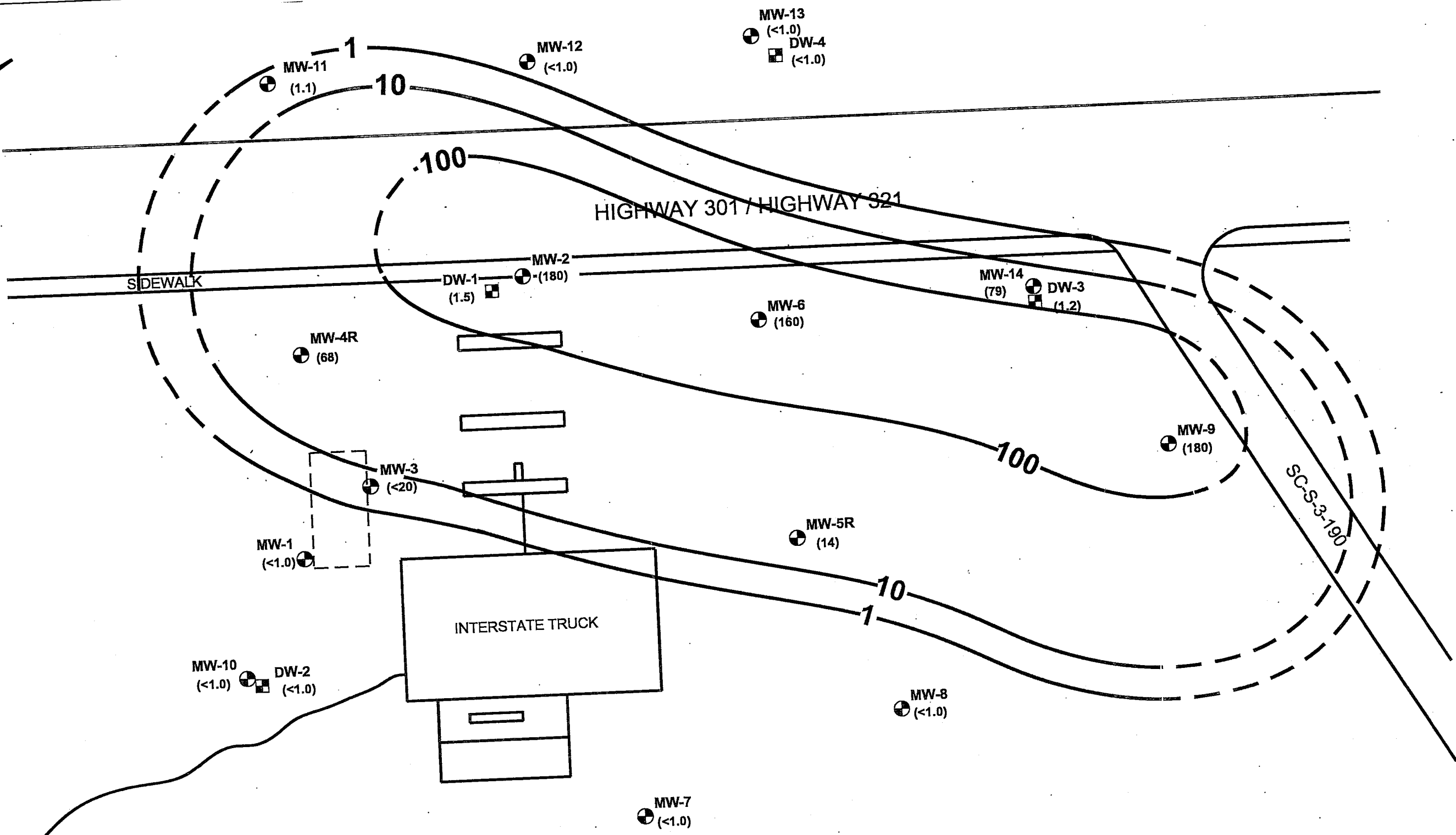
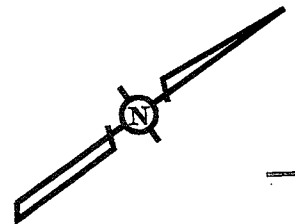
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DRAWN: MAC	DATE: 10/24/06
SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

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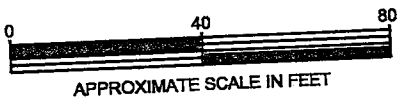
**FIGURE 7**  
**GROUNDWATER POTENTIOMETRIC**  
**SURFACE MAP**





**LEGEND**

- (<1.0) SHALLOW MONITORING WELL  
CONTAMINANT CONCENTRATION (ug/l)
- (2.0) DEEP MONITORING WELL  
CONTAMINANT CONCENTRATION (ug/l)
- FORMER UST PIT

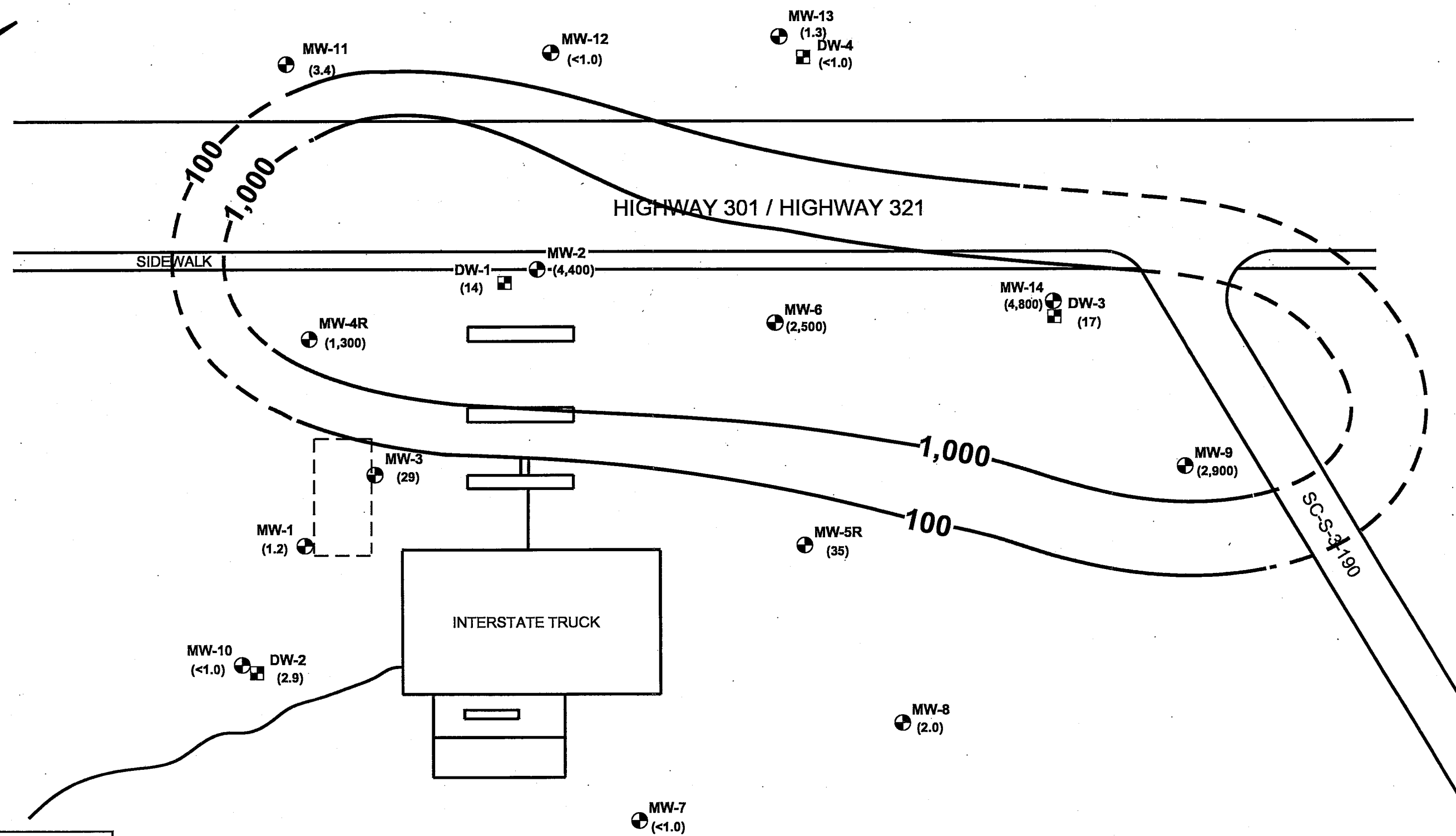
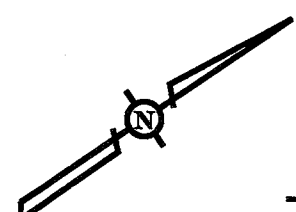


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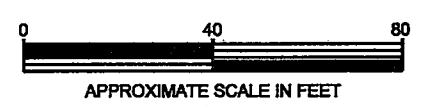
DRAWN: MAC	DATE: 10/24/06
SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

**FIGURE 8**  
 DISSOLVED BENZENE  
 ISOCONCENTRATION MAP

CAD FILE = C-05-05-032.dwg.



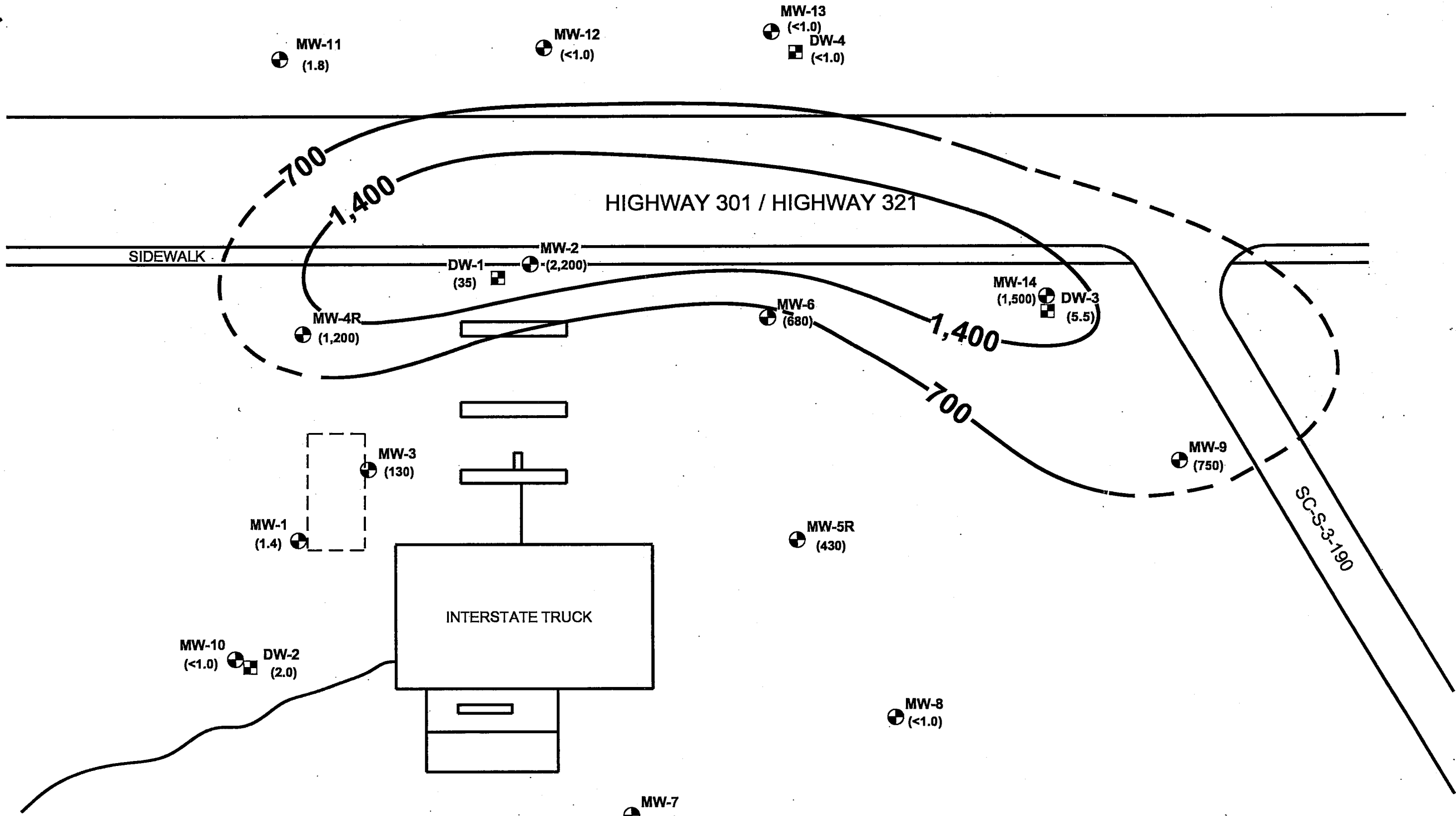
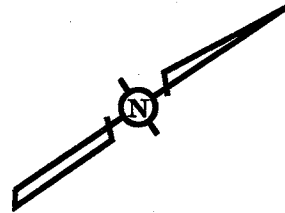
LEGEND	
	MW-7 SHALLOW MONITORING WELL
	(<1.0) CONTAMINANT CONCENTRATION (ug/l)
	DW-2 DEEP MONITORING WELL
	(2.9) CONTAMINANT CONCENTRATION (ug/l)
	FORMER UST PIT



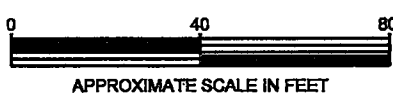
<p>CONSULTECH ENVIRONMENTAL, INC. Environmental Consulting and Engineering © 1999 Delivering innovative solutions to today's environmental concerns</p>	DRAWN: MAC	DATE: 10/24/06
	SITE ID # 00332	
	PROJECT: INTERSTATE TRUCK	
	PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA		

CAD FILE = C-05-05-032.dwg.

**FIGURE 9  
DISSOLVED TOLUENE  
ISOCONCENTRATION MAP**



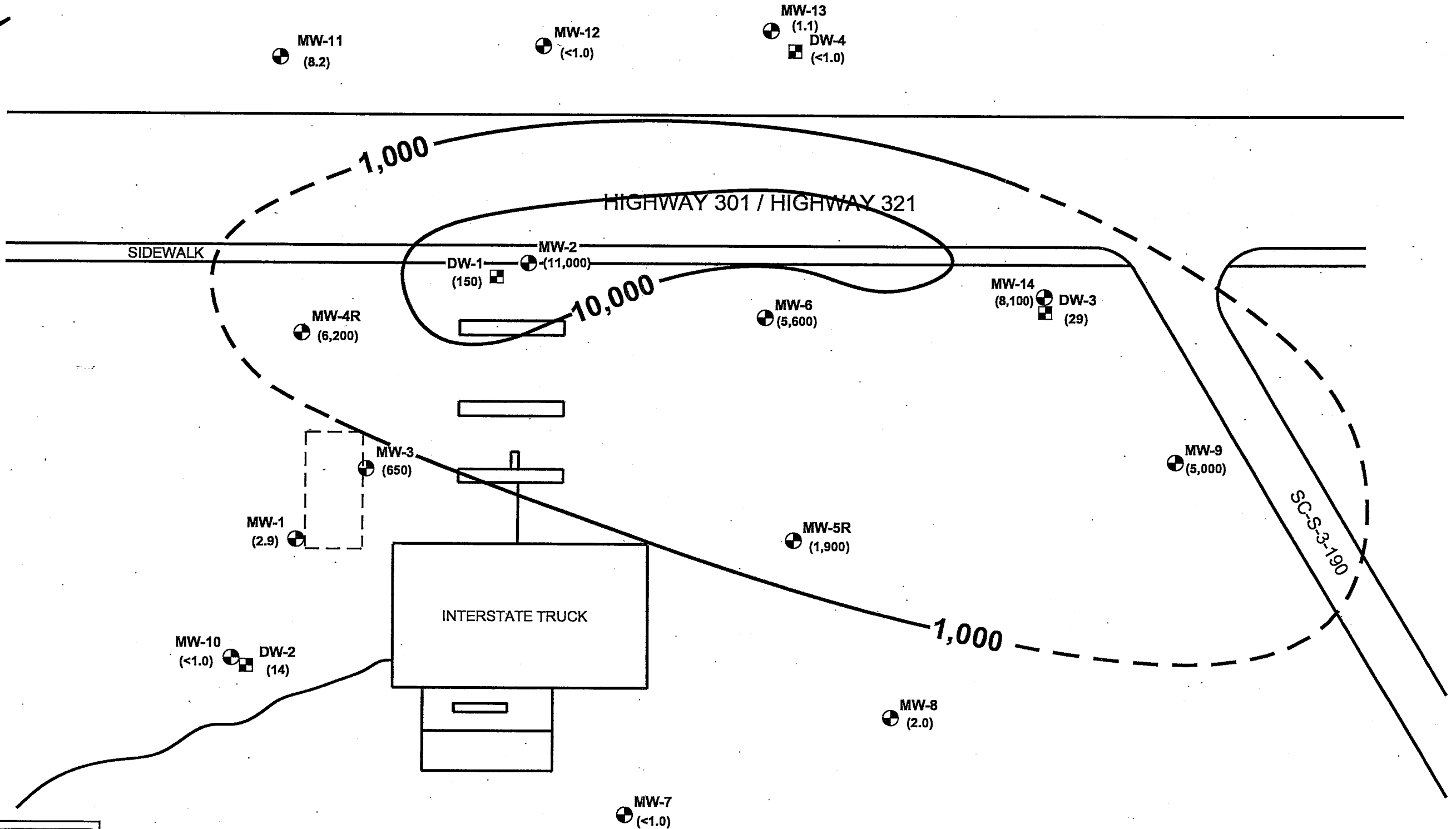
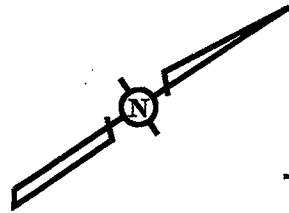
LEGEND	
	MW-7 SHALLOW MONITORING WELL
	<1.0 CONTAMINANT CONCENTRATION (ug/l)
	DW-2 DEEP MONITORING WELL
	2.0 CONTAMINANT CONCENTRATION (ug/l)
	FORMER UST PIT



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	SITE ID # 00332	
	PROJECT: INTERSTATE TRUCK	
	PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA		

CAD FILE = C-05-05-032.dwg.

**FIGURE 10**  
**DISSOLVED ETHYLBENZENE**  
**ISOCONCENTRATION MAP**



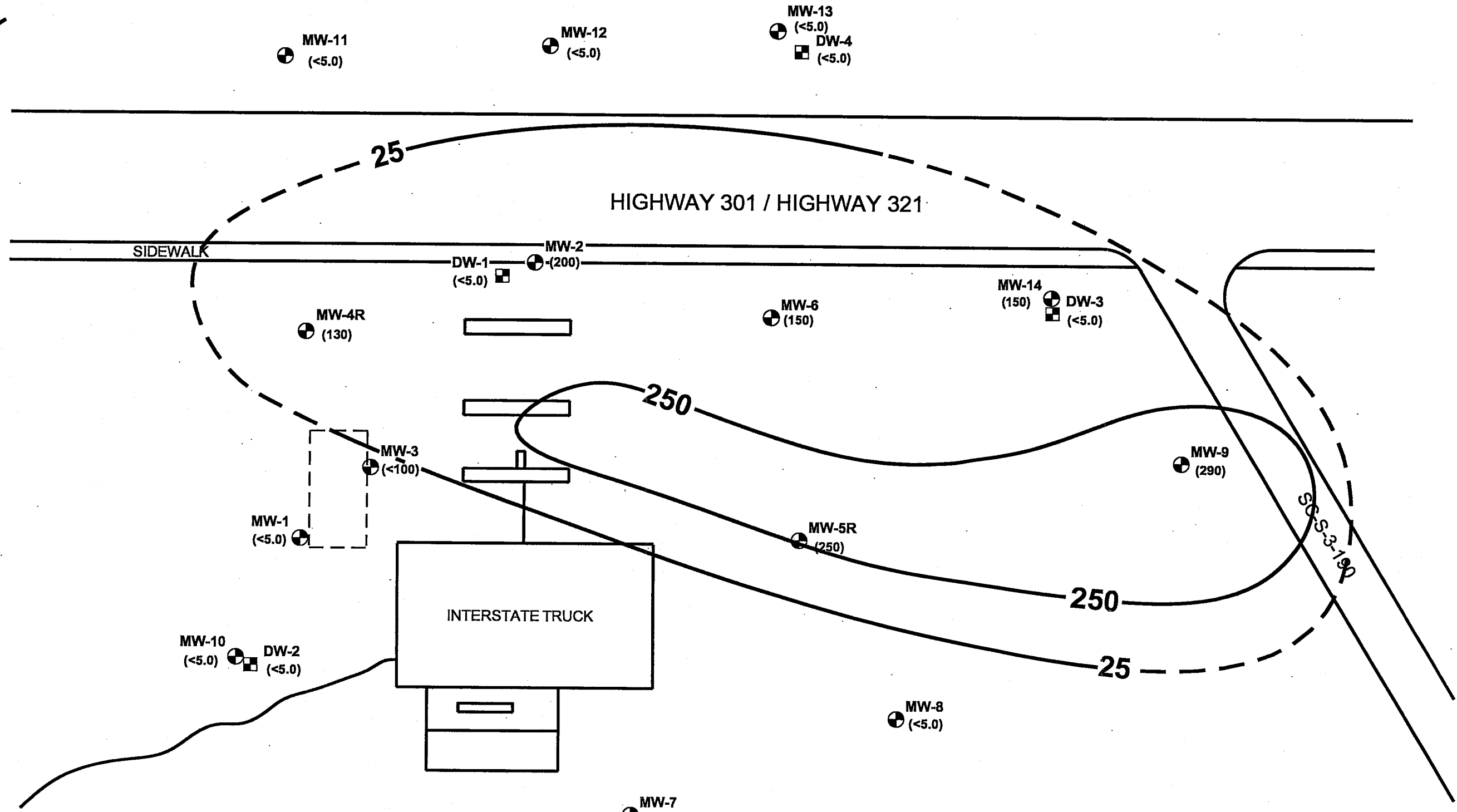
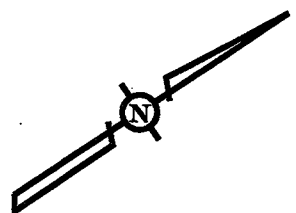
LEGEND	
	MW-7 SHALLOW MONITORING WELL
	<1.0> CONTAMINANT CONCENTRATION (ug/l)
	DW-2 DEEP MONITORING WELL
	(14) CONTAMINANT CONCENTRATION (ug/l)
	FORMER UST PIT



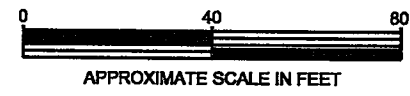
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	PROJECT: INTERSTATE TRUCK	
	PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA		

CAD FILE = C-05-05-032.dwg.

**FIGURE 11**  
DISSOLVED TOTAL XYLENES  
ISOCONCENTRATION MAP



LEGEND	
	MW-7 SHALLOW MONITORING WELL
	<5.0> CONTAMINANT CONCENTRATION (ug/l)
	DW-2 DEEP MONITORING WELL
	<5.0> CONTAMINANT CONCENTRATION (ug/l)
	FORMER UST PIT



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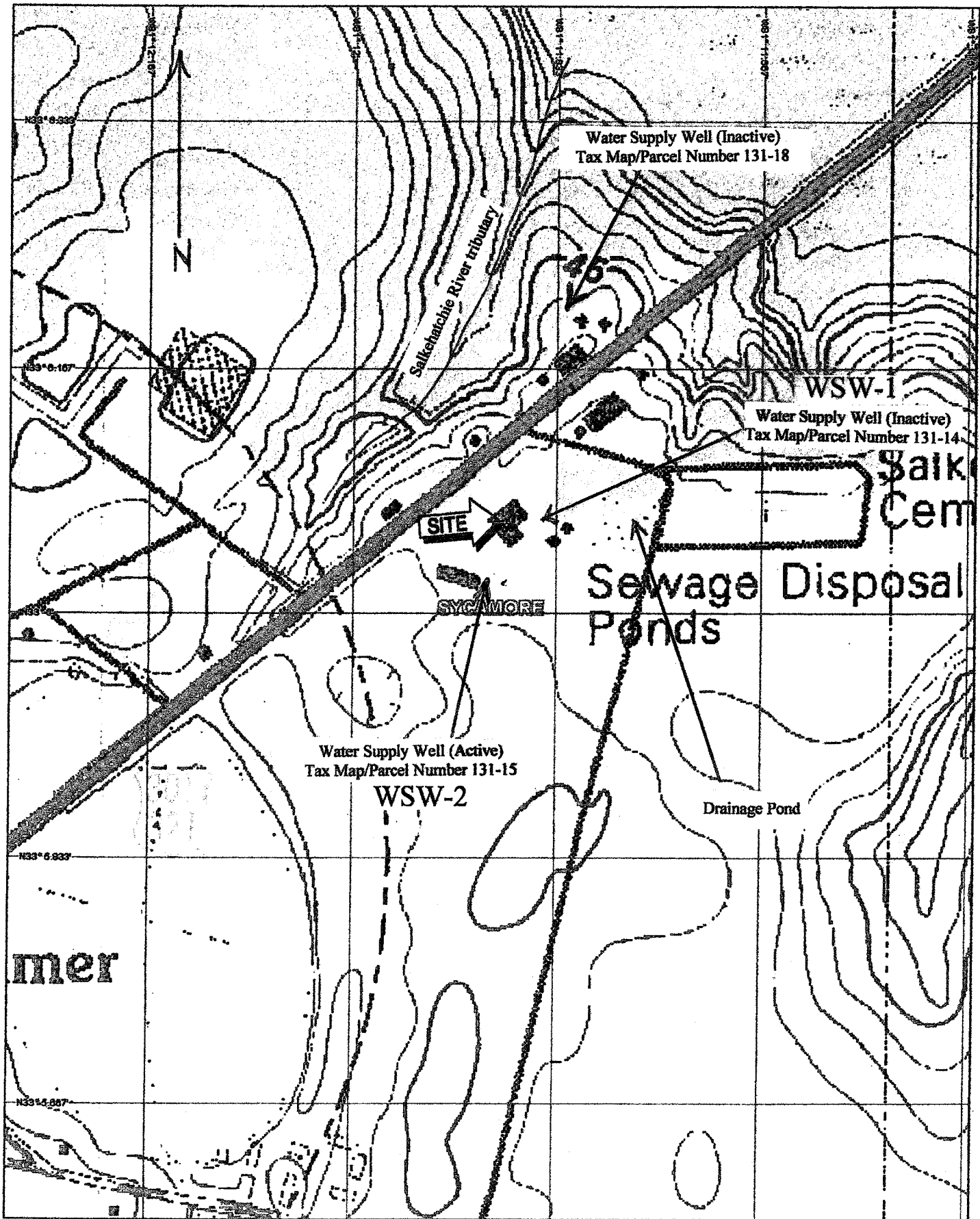
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DRAWN: MAC	DATE: 10/24/06
SITE ID # 00332	
PROJECT: INTERSTATE TRUCK	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 12  
DISSOLVED NAPHTHALENE  
ISOCONCENTRATION MAP

CAD FILE = C-05-05-032.dwg.

**APPENDIX 1**  
**WATER SUPPLY WELL RECEPTORS**



APPENDIX 1

APPROXIMATE SCALE 1 INCH = 533 FEET

**APPENDIX 2**  
**SOIL BORING LOGS AND MONITORING**  
**WELL CONSTRUCTION DETAILS**





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

**1. WELL OWNER INFORMATION:**

Name: SCDHEC  
 Address: 2600 BULL STREET  
 City: COLUMBIA State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL:**

COUNTY: Allendale

Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33\* 06.114 Longitude: 081\* 11.903

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
tan sand	3	3
brown sand	6	9
tan clay/ brown sand	8	17
sand	16	33
tan white sand	9	42
gray sandy clay	6	48
tan sand	22	70

\*Indicate Water Bearing Zones  
 (Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
 DW-4

**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)** Date Started (MM/DD/YYYY): 9-11-06  
70 ft. Date Completed (MM/DD/YYYY): 9-12-06

**10. CASING:**  Threaded  Welded  
 Diam: 2 & 6 inches Height Above/Below Surface \_\_\_\_\_ ft.  
 Type:  PVC  Galvanized Weight \_\_\_\_\_ lb./ft.  
 Steel  Other  
0 in. to 60 ft. depth Drive Shoe?  Yes  No  
0 in. to 65 ft. depth

**11. SCREEN:**  
 Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 5 ft.  
 Set Between: 65 ft. and 70 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 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 63 ft. to 70 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUDED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other  
 Depth: From 0 ft. to 63 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:**  
 Name: Kelly Grant CERT. NO.: 01568  
 Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.  
 Signed: Kelly Grant Date: 9-13-06  
 Well Driller (MM/DD/YYYY)



## Water Well Record

### Bureau of Water

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

#### WELL OWNER INFORMATION:

Name: SCDHEC  
 Address: 2600 BULL STREET  
 City: COLUMBIA State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

#### 2. LOCATION OF WELL: COUNTY: Allendale

Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33° 06.087 Longitude: 081° 11.912

#### 3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER

#### 4. ABANDONMENT: Yes No

Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
tan sand	2	2
red brown sand	6	8
brown sand	4	12
lt. brown sand	2	14
tan brown sandy clay	5	19
tan sand	17	36
white sand	13	49
gray sandy clay	3	52
tan sand	18	70

\*Indicate Water Bearing Zones

(Use a 2<sup>nd</sup> sheet if needed)

#### 5. REMARKS:

DW-1

6. TYPE:  Mud Rotary  Jettied  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) 70 ft. Date Started (MM/DD/YYYY): 9-11-06  
 Date Completed (MM/DD/YYYY): 9-12-06

10. CASING:  Threaded  Welded  
 Diam: 2 & 6 inches Height Above/Below Surface \_\_\_\_\_ ft.  
 Type:  PVC  Galvanized Weight \_\_\_\_\_ lb./ft.  
 Steel  Other Drive Shoe?  Yes  No  
0 in. to 60 ft. depth  
0 in. to 65 ft. depth

#### 11. SCREEN:

Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 5 ft.  
 Set Between: 65 ft. and 70 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 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 63 ft. to 70 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

#### 16. WELL GROUTED? Yes No

Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 63 ft.

#### 17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. \_\_\_\_\_ direction

Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

#### 18. PUMP: Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:

Name: Kelly Grant CERT. NO.: 01568  
 Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

#### 20. WATER DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Kelly Grant Date: 9-12-06  
 Well Driller (MM/DD/YYYY)



## Water Well Record Bureau of Water

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

**1. WELL OWNER INFORMATION:**Name: SCDHEC

Address: 2600 BULL STREET

City: COLUMBIA State: SC Zip: 29201Telephone: Work: 803-898-4300 Home: \_\_\_\_\_**2. LOCATION OF WELL:**COUNTY: AllendaleName: Interstate TruckingStreet Address: 1111 Hwy 301/321 NCity: Ulmer Zip: 29849Latitude: 33° 06.051 Longitude: 081° 11.904**3. PUBLIC SYSTEM NAME****PUBLIC SYSTEM NUMBER****4. ABANDONMENT:** Yes No

Grouted Depth: from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
tan sand	1	1
red brown sand	10	11
tan red sandy clay	5	16
tan sand	18	34
brown sand	5	39
gray sandy clay	7	46
tan sand	24	70

\*Indicate Water Bearing Zones

(Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**

DW-2

**7. PERMIT NUMBER:****8. USE:** Residential Public Supply Process Irrigation Air conditioning Emergency Test Well Monitor Well Replacement**9. Well Depth (completed)**

70 ft.

Date Started (MM/DD/YYYY): 9-11-06Date Completed (MM/DD/YYYY): 9-12-06**10. CASING:** Threaded  WeldedDiam: 2 & 6 inches

Height Above/Below

Type:  PVC  Galvanized

Surface \_\_\_\_\_ ft.

 Steel  Other

Weight \_\_\_\_\_ lb./ft.

0 in. to 60 ft. depth

Drive Shoe?  Yes  No

0 in. to 65 ft. depth

**11. SCREEN:**Type: PVC Diam.: 2 in.Slot/Gauge: .010 Length: 5 ft.Set Between: 65 ft. and 70 ft. NOTE: MULTIPLE SCREENS  
\_\_\_\_ ft. and \_\_\_\_ ft. USE SECOND SHEETSieve Analysis  Yes (please enclose)  No**12. STATIC WATER LEVEL:**

\_\_\_\_\_ ft. below land surface after 24 hours

**13. PUMPING LEVEL:** Below surface.

\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.

Pumping Test:  Yes (please enclose)  No

Yield: \_\_\_\_\_

**14. WATER QUALITY:**Chemical Analysis:  Yes  NoBacterial Analysis:  Yes  No

Please enclose lab results

**15. ARTIFICIAL FILTER (filter pack)**  Yes  NoInstalled from 63 ft. to 70 ft.Effective size #3 Uniformity Coefficient \_\_\_\_\_**16. WELL GROUTED?** Yes  No Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_Depth: From 0 ft. to 63 ft.**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:**

\_\_\_\_\_ ft. \_\_\_\_\_ direction

Type: \_\_\_\_\_

Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_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:**CERT. NO.: 01568Name: Kelly Grant

Level: A B C D

    (check one)Address: 324 Fields Drive, Suite C City: AberdeenState: North Carolina Zip: 28315Telephone No.: 910-944-3140 Fax: 910-944-3150**20. WATER DRILLER'S CERTIFICATION:**

This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Kelly Grant Date: 9-12-06

Well Driller

(MM/DD/YYYY)



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

**1. WELL OWNER INFORMATION:**  
Name: SCDHEC  
Address: \_\_\_\_\_ (last) \_\_\_\_\_ (first)  
2600 BULL STREET  
City: COLUMBIA State: SC Zip: 29201  
Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**7. PERMIT NUMBER:**  
**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air conditioning  Emergency  
 Test Well  Monitor Well  Replacement

**2. LOCATION OF WELL:** COUNTY: Allendale  
Name: Interstate Trucking  
Street Address: 1111 Hwy 301/321 N  
City: Ulmer Zip: 29849  
Latitude: 33° 06.110 Longitude: 081° 11.866

**9. Well Depth (completed)** Date Started (MM/DD/YYYY): 9-11-06  
70 ft. Date Completed (MM/DD/YYYY): 9-12-06

**10. CASING:**  Threaded  Welded  
Diam: 2 & 6 inches Height Above/Below  
Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
0 in. to 60 ft. depth Drive Shoe?  Yes  No  
0 in. to 65 ft. depth

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**11. SCREEN:**  
Type: PVC Diam.: 2 in.  
Slot/Gauge: .010 Length: 5 ft.  
Set Between: 65 ft. and 70 ft. NOTE: MULTIPLE SCREENS  
\_\_\_\_\_ ft. and \_\_\_\_\_ ft. USE SECOND SHEET  
Sieve Analysis  Yes (please enclose)  No

**4. ABANDONMENT:**  Yes  No  
Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**12. STATIC WATER LEVEL:** \_\_\_\_\_ ft. below land surface after 24 hours

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
tan sand	3	3
brown sand	13	16
tan sand	20	36
brown sand	8	44
gray sandy clay	7	51
tan sand	19	70

**13. PUMPING LEVEL:** Below 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 63 ft. to 70 ft.  
Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other  
Depth: From 0 ft. to 63 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
Type: \_\_\_\_\_  
Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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

\*Indicate Water Bearing Zones  
(Use a 2<sup>nd</sup> sheet if needed)

**19. WELL DRILLER:** CERT. NO.: 01568  
Name: Kelly Grant Level: A B C D  
Address: 324 Fields Drive, Suite C City: Aberdeen  
State: North Carolina Zip: 28315  
Telephone No.: 910-944-3140 Fax: 910-944-3150

**5. REMARKS:**  
DW-3

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.  
Signed: Kelly Grant Date: 9-13-06  
Well Driller (MM/DD/YYYY)

DHEC 1903 (07/2003)



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

**WELL OWNER INFORMATION:**

Name: SC DHEC  
 (last) (first)  
 Address: 2600 Bull Street  
 City: Columbia State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL:**

COUNTY: Allendale

Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33\* 06.073 Longitude: 081\* 11.921

**3. PUBLIC SYSTEM NAME**

**PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**

Yes  No

Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Top soil	0	2
Yellowish sandy clay	5	7
Redish orange clay	9	16
Orange & Tan sandy clay	12	28
Tanish grey sandy clay	7	35

\*Indicate Water Bearing Zones

(Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
 MW-4R

- 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)**

Date Started (MM/DD/YYYY): 9/6/06

35 ft.

Date Completed (MM/DD/YYYY): 9/6/06

**10. CASING:**  Threaded  Welded

Diam: 2 inches Height Above  Below   
 Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
2 in. to 25 ft. depth Drive Shoe?  Yes  No  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**

Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 10 ft.  
 Set Between: 25 ft. and 35 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 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 23 ft. to 35 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No

Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 23 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction

Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:**

CERT. NO.: 01676

Name: Wesley W. Herman Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under

my direction and this report is true to the best of my knowledge and belief.

Signed: Wesley W. Herman Date: \_\_\_\_\_  
 Well Driller (MM/DD/YYYY)



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

**1. WELL OWNER INFORMATION:**  
 Name: SC DHEC  
 Address: 2600 Bull Street  
 City: Columbia State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL:** COUNTY: Allendale  
 Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33° 06.088 Longitude: 081° 11.873

**3. PUBLIC SYSTEM NAME** PUBLIC SYSTEM NUMBER \_\_\_\_\_

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Brownish yellow top soil	0	1
Yellow sandy clay	7	8
Redish orange sandy clay	10	17
Orange & Tan sandy clay	11	28
Tanish grey sandy clay	7	35

\*Indicate Water Bearing Zones  
 (Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
 MW-5R

**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)** \_\_\_\_\_ Date Started (MM/DD/YYYY): 9/6/06  
35 ft. Date Completed (MM/DD/YYYY): 9/6/06

**10. CASING:**  Threaded  Welded  
 Diam: 2 inches Height Above  Below   
 Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
2 in. to 25 ft. depth Drive Shoe?  Yes  No  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**  
 Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 10 ft.  
 Set Between: 25 ft. and 35 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 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 23 ft. to 35 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 23 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:** CERT. NO.: 01676  
 Name: Wesley W. Herman Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.  
 Signed: Wesley W. Herman Date: \_\_\_\_\_  
 Well Driller (MM/DD/YYYY)



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

1. WELL OWNER INFORMATION:
Name: SC DHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201
Telephone: Work: 803-898-4300 Home:

2. LOCATION OF WELL: COUNTY: Allendale
Name: Interstate Trucking
Street Address: 1111 Hwy 301/321 N
City: Ulmer Zip: 29849
Latitude: 33\* 06.095 Longitude: 081\* 11.882

3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER

4. ABANDONMENT: [ ] Yes [X] No
Grouted Depth: from: ft. to ft.

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Rows include: Brown top soil, Yellow orange sandy clay, Reddish orange sandy clay, Orange & Tan sandy clay, Tanish grey sandy clay.

\*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS: MW-6

6. TYPE: [ ] Mud Rotary [ ] Jetted [X] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable tool [ ] Other

7. PERMIT NUMBER:
8. USE:
[ ] Residential [ ] Public Supply [ ] Process
[ ] Irrigation [ ] Air conditioning [ ] Emergency
[ ] Test Well [X] Monitor Well [ ] Replacement

9. Well Depth (completed) Date Started (MM/DD/YYYY): 9/7/06
35 ft. Date Completed (MM/DD/YYYY): 9/7/06

10. CASING: [X] Threaded [ ] Welded
Diam: 2 inches Height Above [ ] Below [ ]
Type: [X] PVC [ ] Galvanized Surface \_\_\_\_\_ ft.
[ ] Steel [ ] Other Weight \_\_\_\_\_ lb./ft.
2 in. to 25 ft. depth Drive Shoe? [ ] Yes [ ] No
\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

11. SCREEN:
Type: PVC Diam.: 2 in.
Slot/Gauge: .010 Length: 10 ft.
Set Between: 25 ft. and 35 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 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) [X] Yes [ ] No
Installed from 23 ft. to 35 ft.
Effective size #3 Uniformity Coefficient \_\_\_\_\_

16. WELL GROUTED? [X] Yes [ ] No
[X] Neat Cement [X] Bentonite [ ] Bentonite/Cement [ ] Other
Depth: From 0 ft. to 23 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. \_\_\_\_\_ direction
Type: \_\_\_\_\_
Well Disinfected: [ ] Yes [ ] No Type: \_\_\_\_\_ Amount \_\_\_\_\_

18. PUMP: Date installed (mm/dd/yyyy): \_\_\_\_\_ 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: CERT. NO.: 01676
Name: Wesley W. Herman Level: A B C D
[ ] [X] [ ] [ ] (check one)
Address: 324 Fields Drive, Suite C City: Aberdeen
State: North Carolina Zip: 28315
Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER 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: \_\_\_\_\_
Well Driller (MM/DD/YYYY)



## Water Well Record

### Bureau of Water

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

**1. WELL OWNER INFORMATION:**  
 Name: SC DHEC  
 Address: 2600 Bull Street  
 City: Columbia State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home: \_\_\_\_\_

**2. LOCATION OF WELL: COUNTY: Allendale**  
 Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33° 06.061 Longitude: 081° 11.867

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Top soil	0	2
Yellowish sandy clay	5	7
Reddish orange clay	10	17
Orange & Tan sandy clay	12	29
Tanish grey sandy clay	6	35

\*Indicate Water Bearing Zones  
 (Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
 MW-7

**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) Date Started (MM/DD/YYYY): 9/6/06**  
35 ft. Date Completed (MM/DD/YYYY): 9/6/06

**10. CASING:**  Threaded  Welded  
 Diam: 2 inches Height Above  Below   
 Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
2 in. to 25 ft. depth Drive Shoe?  Yes  No  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**  
 Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 10 ft.  
 Set Between: 25 ft. and 35 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 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 23 ft. to 35 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUDED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 23 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:** CERT. NO.: 01676  
 Name: Wesley W. Herman Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under  
 my direction and this report is true to the best of my knowledge and belief.  
 Signed: Wesley W. Herman Date: \_\_\_\_\_  
 Well Driller (MM/DD/YYYY)





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

WELL OWNER INFORMATION:
Name: SC DHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201
Telephone: Work: 803-898-4300 Home:

2. LOCATION OF WELL: COUNTY: Allendale
Name: Interstate Trucking
Street Address: 1111 Hwy 301/321 N
City: Ulmer Zip: 29849
Latitude: 33\* 06.077 Longitude: 081\* 11.854

3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER

4. ABANDONMENT: [ ] Yes [X] No
Grouted Depth: from: ft. to: ft.

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Rows include Asphalt w/gravel/brown top soil, Yellow orange sandy clay, Redish orange sandy clay, Orange & Tan sandy clay, Tanish grey sandy clay.

\*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-8

6. TYPE: [ ] Mud Rotary [ ] Jetted [X] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable tool [ ] Other

7. PERMIT NUMBER:
8. USE: [ ] Residential [ ] Public Supply [ ] Process
[ ] Irrigation [ ] Air conditioning [ ] Emergency
[ ] Test Well [X] Monitor Well [ ] Replacement

9. Well Depth (completed) Date Started (MM/DD/YYYY): 9/7/06
35 ft. Date Completed (MM/DD/YYYY): 9/7/06

10. CASING: [X] Threaded [ ] Welded
Diam: 2 inches Height Above [ ] Below [ ]
Type: [X] PVC [ ] Galvanized Surface ft.
[ ] Steel [ ] Other Weight lb./ft.
2 in. to 25 ft. depth Drive Shoe? [ ] Yes [ ] No
in. to ft. depth

11. SCREEN:
Type: PVC Diam.: 2 in.
Slot/Gauge: .010 Length: 10 ft.
Set Between: 25 ft. and 35 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 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) [X] Yes [ ] No
Installed from 23 ft. to 35 ft.
Effective size #3 Uniformity Coefficient

16. WELL GROUTED? [X] Yes [ ] No
[X] Neat Ccment [X] Bentonite [ ] Bentonite/Ccment [ ] Other
Depth: From 0 ft. to 23 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: [ ] Yes [ ] No Type: Amount

18. PUMP: Date installed (mm/dd/yyyy): 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: CERT. NO.: 01676
Name: Wesley W. Herman Level: A B C D
[X] [ ] [ ] [ ] (check one)
Address: 324 Fields Drive, Suite C City: Aberdeen
State: North Carolina Zip: 28315
Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER DRILLER'S CERTIFICATION: This well was drilled under
my direction and this report is true to the best of my knowledge and belief.
Signed: [Signature] Date: (MM/DD/YYYY)
Well Driller



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

1. WELL OWNER INFORMATION:
Name: SC DHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201
Telephone: Work: 803-898-4300 Home:

2. LOCATION OF WELL: COUNTY: Allendale
Name: Interstate Trucking
Street Address: 1111 Hwy 301/321 N
City: Ulmer Zip: 29849
Latitude: 33\* 06.109 Longitude: 081\* 11.848

3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER

4. ABANDONMENT: Yes No
Grouted Depth: from ft. to ft.

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Rows include Asphalt gravel/brown top soil, Yellow orange sandy clay, Redish orange sandy clay, Orange & Tan sandy clay, Tanish grey sandy clay.

5. REMARKS: MW-9
6. TYPE: Mud Rotary, Dug, Cable tool, Jetted, Air Rotary, Other, Bored, Driven

7. PERMIT NUMBER:

8. USE: Residential, Irrigation, Test Well, Public Supply, Air conditioning, Monitor Well, Process, Emergency, Replacement

9. Well Depth (completed) 35 ft. Date Started (MM/DD/YYYY): 9/6/06 Date Completed (MM/DD/YYYY): 9/6/06

10. CASING: Threaded, Welded, Diam: 2 inches, Type: PVC, Steel, Other, Height Above Surface, Weight, Drive Shoe?

11. SCREEN: Type: PVC, Diam.: 2 in., Slot/Gauge: .010, Length: 10 ft., Set Between: 25 ft. and 35 ft., Sieve Analysis

12. STATIC WATER LEVEL: ft. below land surface after 24 hours

13. PUMPING LEVEL: Below surface. Pumping Test: Yes No, Yield:

14. WATER QUALITY: Chemical Analysis: Yes No, Bacterial Analysis: Yes No

15. ARTIFICIAL FILTER (filter pack) Yes No, Installed from 23 ft. to 35 ft., Effective size #3, Uniformity Coefficient

16. WELL GROUTED? Yes No, Neat Cement, Bentonite, Bentonite/Cement, Other, Depth: From 0 ft. to 23 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: Type, Well Disinfected: Yes No, Type, Amount

18. PUMP: Date installed (mm/dd/yyyy), Mfr. Name, Model No., H.P., Volts, Length of drop pipe, Capacity, Type: Submersible, Jet (shallow), Turbine, Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Name: Wesley W. Herman, CERT. NO.: 01676, Level: A B C D, Address: 324 Fields Drive, Suite C, City: Aberdeen, State: North Carolina, Zip: 28315, Telephone No.: 910-944-3140, Fax: 910-944-3150

20. WATER DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief. Signed: [Signature] Date: (MM/DD/YYYY)



# Water Well Record Bureau of Water

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

**WELL OWNER INFORMATION:**  
Name: SC DHEC (last) (first)  
Address: 2600 Bull Street  
City: Columbia State: SC Zip: 29201  
Telephone: Work: 803-898-4300 Home: \_\_\_\_\_**2. LOCATION OF WELL:** COUNTY: Allendale  
Name: Interstate Trucking  
Street Address: 1111 Hwy 301/321 N  
City: Ulmer Zip: 29849  
Latitude: 33\* 06.049 Longitude: 081\* 11.905**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER****4. ABANDONMENT:**  Yes  No  
Grouted Depth: from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Brown Top soil	0	2
Yellowish sandy clay	6	8
Redish orange clay	8	16
Orange & Tan sandy clay	13	29
Tanish grey sandy clay	6	35

\*Indicate Water Bearing Zones  
(Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
MW-10**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) Date Started (MM/DD/YYYY):** 9/6/06  
35 ft. **Date Completed (MM/DD/YYYY):** 9/6/06**10. CASING:**  Threaded  Welded  
Diam: 2 inches Height Above  Below   
Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
2 in. to 25 ft. depth Drive Shoe?  Yes  No  
\_\_\_\_ in. to \_\_\_\_\_ ft. depth**11. SCREEN:**  
Type: PVC Diam.: 2 in.  
Slot/Gauge: .010 Length: 10 ft.  
Set Between: 25 ft. and 35 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 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 23 ft. to 35 ft.  
Effective size #3 Uniformity Coefficient \_\_\_\_\_**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other  
Depth: From 0 ft. to 23 ft.**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
Type: \_\_\_\_\_  
Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:** CERT. NO.: 01676  
Name: Wesley W. Herman Level: A B C D  
    (check one)  
Address: 324 Fields Drive, Suite C City: Aberdeen  
State: North Carolina Zip: 28315  
Telephone No.: 910-944-3140 Fax: 910-944-3150**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.  
Signed: [Signature] Date: \_\_\_\_\_  
Well Driller (MM/DD/YYYY)



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

WELL OWNER INFORMATION:
Name: SC DHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201
Telephone: Work: 803-898-4300 Home:

7. PERMIT NUMBER:
8. USE:
Residential Public Supply Process
Irrigation Air conditioning Emergency
Test Well Monitor Well Replacement

2. LOCATION OF WELL: COUNTY: Allendale
Name: Interstate Trucking
Street Address: 1111 Hwy 301/321 N
City: Ulmer Zip: 29849
Latitude: 33\* 06.087 Longitude: 081\* 11.939

9. Well Depth (completed) Date Started (MM/DD/YYYY): 9/7/06
35 ft. Date Completed (MM/DD/YYYY): 9/7/06

10. CASING: Threaded Welded
Diam: 2 inches Height Above Surface ft.
Type: PVC Galvanized
Steel Other Weight lb/ft.
2 in. to 25 ft. depth Drive Shoe? Yes No
in. to ft. depth

3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER

11. SCREEN:
Type: PVC Diam.: 2 in.
Slot/Gauge: .010 Length: 10 ft.
Set Between: 25 ft. and 35 ft. NOTE: MULTIPLE SCREENS
ft. and ft. USE SECOND SHEET
Sieve Analysis Yes (please enclose) No

4. ABANDONMENT: Yes No
Grouted Depth: from ft. to ft.

12. STATIC WATER LEVEL: ft. below land surface after 24 hours

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Rows include Brown top soil, Yellow orange sandy clay, Redish orange sandy clay, Orange & Tan sandy clay, Tanish grey sandy clay.

13. PUMPING LEVEL: Below 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 23 ft. to 35 ft.
Effective size #3 Uniformity Coefficient

16. WELL GROUTED? Yes No
Neat Cement Bentonite Bentonite/Cement Other
Depth: From 0 ft. to 23 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Yes No Type: Amount

18. PUMP: Date installed (mm/dd/yyyy): 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

\*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

19. WELL DRILLER: CERT. NO.: 01676
Name: Wesley W. Herman Level: A B C D
Address: 324 Fields Drive, Suite C City: Aberdeen
State: North Carolina Zip: 28315
Telephone No.: 910-944-3140 Fax: 910-944-3150

5. REMARKS:
MW-11

20. WATER DRILLER'S CERTIFICATION: This well was drilled under
my direction and this report is true to the best of my knowledge and belief.
Signed: [Signature] Date: (MM/DD/YYYY)

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Other



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

**WELL OWNER INFORMATION:**  
 Name: SC DHEC  
 Address: 2600 Bull Street  
 City: Columbia State: SC Zip: 29201  
 Telephone: Work: 803-898-4300 Home:

**2. LOCATION OF WELL: COUNTY: Allendale**  
 Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33° 06.100 Longitude: 081° 11.920

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Brown top soil w/grass roots	0	2
Yellow orange sandy clay	6	8
Redish orange sandy clay	9	17
Orange & Tan sandy clay	11	28
Tanish grey sandy clay	7	35

\*Indicate Water Bearing Zones  
 (Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
 MW-12

**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) Date Started (MM/DD/YYYY): 9/7/06**  
 35 ft. Date Completed (MM/DD/YYYY): 9/7/06

**10. CASING:**  Threaded  Welded  
 Diam: 2 inches Height Above  Below   
 Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
 2 in. to 25 ft. depth Drive Shoe?  Yes  No  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**  
 Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 10 ft.  
 Set Between: 25 ft. and 35 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 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 23 ft. to 35 ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other  
 Depth: From 0 ft. to 23 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_

**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:** CERT. NO.: 01676  
 Name: Wesley W. Herman Level: A B C D  
    (check one)  
 Address: 324 Fields Drive, Suite C City: Aberdeen  
 State: North Carolina Zip: 28315  
 Telephone No.: 910-944-3140 Fax: 910-944-3150

**20. WATER 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: \_\_\_\_\_  
 Well Driller (MM/DD/YYYY)





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

**WELL OWNER INFORMATION:**  
 Name: SC DHEC  
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 Telephone: Work: 803-898-4300 Home:

**2. LOCATION OF WELL: COUNTY: Allendale**  
 Name: Interstate Trucking  
 Street Address: 1111 Hwy 301/321 N  
 City: Ulmer Zip: 29849  
 Latitude: 33° 06.111 Longitude: 081° 11.866

**3. PUBLIC SYSTEM NAME PUBLIC SYSTEM NUMBER**

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Brownish top soil	0	2
Yellow sandy clay	7	9
Redish orange sandy clay	8	17
Orange & Tan sandy clay	11	28
Tanish grey sandy clay	7	35

\*Indicate Water Bearing Zones  
 (Use a 2<sup>nd</sup> sheet if needed)

**5. REMARKS:**  
 MW-14

**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)** \_\_\_\_\_ ft. Date Started (MM/DD/YYYY): 9/6/06  
 Date Completed (MM/DD/YYYY): 9/6/06

**10. CASING:**  Threaded  Welded  
 Diam: 2 inches Height Above  Below   
 Type:  PVC  Galvanized Surface \_\_\_\_\_ ft.  
 Steel  Other Weight \_\_\_\_\_ lb./ft.  
 2 in. to 25 ft. depth Drive Shoe?  Yes  No  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

**11. SCREEN:**  
 Type: PVC Diam.: 2 in.  
 Slot/Gauge: .010 Length: 10 ft.  
 Set Between: 25 ft. and 35 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 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 23 \_\_\_\_\_ ft. to 35 \_\_\_\_\_ ft.  
 Effective size #3 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other  
 Depth: From 0 \_\_\_\_\_ ft. to 23 \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type: \_\_\_\_\_  
 Well Disinfected:  Yes  No Type: \_\_\_\_\_ Amount \_\_\_\_\_


**18. PUMP:** Date installed (mm/dd/yyyy): \_\_\_\_\_ 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:** CERT. NO.: 01676  
 Name: Wesley W. Herman Level: A B C D  
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**20. WATER DRILLER'S CERTIFICATION:** This well was drilled under  
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 Signed: Wesley W. Herman Date: \_\_\_\_\_  
 Well Driller (MM/DD/YYYY)

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-01	PAGE 1 OF 1
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PROJECT: Interstate Trucking 05-05-032	LOCATION:
DATE INSTALLED: 23-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-01
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: GW-15	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
						<p data-bbox="654 1596 1461 1649">DPT groundwater sample collected - no soil samples collected</p> <p data-bbox="1201 1957 1331 1989">H2O 30'</p>



Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-02	PAGE 1 OF 1
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PROJECT: Interstate Trucking 05-05-032	LOCATION:
DATE INSTALLED: 23-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-02
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: GW-15	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	P I D / F I D (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
						<p data-bbox="654 1596 1461 1649">DPT groundwater sample collected - no soil samples collected</p> <p data-bbox="1201 1957 1331 1996">H2O 30'</p>

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-03	PAGE 1 OF 1
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PROJECT: Interstate Trucking 05-05-032	LOCATION:
DATE INSTALLED: 23-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-03
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: GW-15	LOGGED BY: KVDV

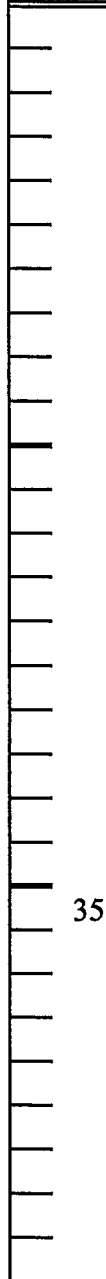
D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	P I D / F I D  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
						<p data-bbox="662 1604 1461 1642">DPT groundwater sample collected - no soil samples collected</p> <p data-bbox="1208 1966 1328 1996">H2O 30'</p>

PROJECT: Interstate Trucking 05-05-032	LOCATION:
DATE INSTALLED: 23-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-04
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: GW-15	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	P I D / F I D  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
35						DPT groundwater sample collected - no soil samples collected

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-05	PAGE 1 OF 1
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PROJECT: Interstate Trucking 05-05-032	LOCATION:
DATE INSTALLED: 23-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-05
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: GW-15	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K	P I D / F I D  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
						<p data-bbox="662 1606 1461 1649">DPT groundwater sample collected - no soil samples collected</p> <p data-bbox="1209 1968 1331 2000" style="text-align: right;">H2O 30'</p>

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-06	PAGE 1 OF 1
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PROJECT: Interstate Trucking 05-05-032	LOCATION:
DATE INSTALLED: 23-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-06
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: GW-15	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K	P I D / F I D  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
						<p data-bbox="662 1613 1461 1649">DPT groundwater sample collected - no soil samples collected</p> <p data-bbox="1209 1968 1331 2000" style="text-align: right;">H2O 30'</p>

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	<b>SOIL BORING</b> No. SB-01	PAGE 1 OF 1
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<b>PROJECT:</b> Interstate Trucking Terminal 05-05-03	<b>LOCATION:</b>
<b>DATE INSTALLED:</b> 21-Aug-06	<b>ELEVATION:</b> <b>TOC:</b>
<b>DRILLING METHOD:</b> Direct Push	<b>TOTAL DEPTH OF BORING:</b> 30'
<b>DRILLING COMPANY:</b> Bear Environmental	<b>BORING:</b> SB-01
<b>DRILLER:</b> Kevin Van De Vusse	<b>DEPTH TO WATER FROM TOC:</b> 29'
<b>SAMPLER TYPE:</b> MacroCore	<b>LOGGED BY:</b> KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	P I D / F I D (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.2		Red silty clay
15				1.1		Red clay
20				1.4		Beige / Orange silty sand
25				1.1		Orange sand
30				1.1		Red silty sand

H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-02

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-02
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.3		Red silty clay
15				1.1		Red clay
20				1.2		Red silty sand
25				1.1		Red sand
30				1.1		Red silty sand

H2O 29'

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-03
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	P I D / F I D  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.1		Red silty clay
15				5.8		Red clay
20				323		Red silty sand
25				2469		Red sand
30				2954		Red silty sand
						H2O 29'



PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-04
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O W S /6"	P I D / F I D  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.5		Red clay
20				4.1		Red silty sand
25				1.2		Red silty sand
30				1.3		Beige / Orange sand

Consultech Environmental, Inc.  
 1800 MacLeod Drive, Suite F  
 Lawrenceville, GA 30043

SOIL BORING  
 No. SB-05

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-05
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.3		Tan silty sand
10				1.2		Red silty clay
15				1.1		Red clay
20				1.1		Red silty sand
25				1.2		Red silty sand
30				1.2		Red silty sand

H2O 29'

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-06
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

	D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5					1.3		Tan silty sand
10					1.3		Red silty clay
15					1.3		Red clay
20					1.1		Red silty sand
25					1.2		Red silty sand
30					1.1		Beige sand
35					1.1		Beige silty sand
40					1.2		Red silty clay
45					1.2		Orange/Beige sandy silt

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SOIL BORING  
 No. SB-07

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03

LOCATION:

DATE INSTALLED: 21-Aug-06

ELEVATION: TOC:

DRILLING METHOD: Direct Push

TOTAL DEPTH OF BORING: 30'

DRILLING COMPANY: Bear Environmental

BORING: SB-07

DRILLER: Kevin Van De Vusse

DEPTH TO WATER FROM TOC: 29'

SAMPLER TYPE: MacroCore

LOGGED BY: KVDV

D	S	N	B	PID	U
E	A	U	L	/	S
P	M	M	O	FID	C
T	P	B	W		S
H	L	E	S	(ppm)	
(ft)	E	R	/6"		(sym)

GEOLOGIC DESCRIPTION / COMMENTS

5				1.1	U	Tan silty sand
10				1.1	C	Red silty clay
15				2.1	S	Red clay
20				96.2		Pink silty sand
25				589		Pink sand
30				725		Pink sand

H2O 29'

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-08
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

	D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5					1.2		Tan silty sand
10					1.1		Red silty clay
15					1.3		Red silty sand
20					1.6		Beige / Orange sand
25					2.7		Orange silty sand
30					9.9		Red silty sand
							H2O 29'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-09	PAGE 1 OF 1
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PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 21-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-09
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red silty sand
20				1.2		Beige / Orange sand
25				1.1		Orange silty sand
30				1.1		Red silty sand
						H2O 29'

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-10
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	P I D / F I D  (ppm)	U N D E R  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red silty sand
20				94.9		Red sand
25				1949		Red silty sand
30				2759		Red silty sand
						H2O 29'

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SOIL BORING  
No. SB-11

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-11
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E S	N U M B E R	B L O C K S	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red silty sand
20				10.3		Red silty sand
25				573		Red silty sand
30				791		Red silty sand



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SOIL BORING  
 No. SB-12

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<b>PROJECT:</b> Interstate Trucking Terminal 05-05-03	<b>LOCATION:</b>
<b>DATE INSTALLED:</b> 22-Aug-06	<b>ELEVATION:</b> <b>TOC:</b>
<b>DRILLING METHOD:</b> Direct Push	<b>TOTAL DEPTH OF BORING:</b> 30'
<b>DRILLING COMPANY:</b> Bear Environmental	<b>BORING:</b> SB-12
<b>DRILLER:</b> Kevin Van De Vusse	<b>DEPTH TO WATER FROM TOC:</b> 29'
<b>SAMPLER TYPE:</b> MacroCore	<b>LOGGED BY:</b> KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	<b>GEOLOGIC DESCRIPTION / COMMENTS</b>
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5				0.9		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty clay
20				1.4		Pink silty sand
25				10.6		Red silty sand
30				24.5		Red silty sand

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SOIL BORING  
No. SB-13

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PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-13
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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5				0.9		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty clay
20				1.4		Orange silty sand
25				1.2		Orange sand
30				1.1		Red silty sand

H2O 29'

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SOIL BORING  
No. SB-14

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PROJECT: Interstate Trucking Terminal 05-05-032

LOCATION:

DATE INSTALLED: 22-Aug-06

ELEVATION: TOC:

DRILLING METHOD: Direct Push

TOTAL DEPTH OF BORING: 30'

DRILLING COMPANY: Bear Environmental

BORING: SB-14

DRILLER: Kevin Van De Vusse

DEPTH TO WATER FROM TOC: 29'

SAMPLER TYPE: MacroCore

LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O W S / 6"	PID / FID  (ppm)	U S C S  (sym)
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GEOLOGIC DESCRIPTION / COMMENTS

5

1.5

Tan silty sand

10

1.3

Red silty clay

15

79.9

Red clay

20

68.3

Red silty sand

25

3290

White sand

30

3200

Beige sand

H2O 29'

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SOIL BORING  
No. SB-15

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PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-15
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.3		Tan silty sand
10				1.2		Red silty clay
15				75.8		Red clay
20				71.3		Red silty sand
25				3390		White sand
30				3310		Beige / Green sand

H2O 29'

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SOIL BORING  
No. SB-16

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-16
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / RID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.3		Tan silty sand
10				1.2		Red silty clay
15				65.8		Red clay
20				48.7		Red silty sand
25				3370		White sand
30				3350		Beige / Green sand

H2O 29'

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SOIL BORING  
No. SB-17

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-17
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.2		Red silty clay
15				35.7		Red clay
20				37.7		Red silty sand
25				1579		White sand
30				1829		Beige / Green sand

H2O 29'

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SOIL BORING  
 No. SB-18

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PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-18
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.3		Red clay
20				1.1		Red silty sand
25				23.1		Pink silty sand
30				32.9		Beige / Green sand

H2O 29'

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SOIL BORING  
 No. SB-19

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PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-19
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.3		Tan silty sand
10				1.3		Red silty clay
15				90.6		Red clay
20				41.4		Red silty sand
25				3390		Pink silty sand
30				3390		Beige / Green sand

H2O 29'



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SOIL BORING  
 No. SB-20

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PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-20
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.3		Red silty clay
15				1.2		Red clay
20				1.1		Red sandy silt
25				1.1		Orange silty sand
30				1.2		Red silty sand
						H2O 29'

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SOIL BORING  
 No. SB-21

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PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-21
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red clay
20				1.2		Red sandy silt
25				7.9		Orange silty sand
30				14.2		Red silty sand
						H2O 29'

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SOIL BORING  
No. SB-22

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PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-22
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red clay
20				4.6		Red sandy silt
25				29.9		Orange silty sand
30				74.2		Red silty sand

H2O 29'

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SOIL BORING  
No. SB-23

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PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 22-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-23
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty clay
20				1.2		Red sandy silt
25				1.3		Orange silty sand
30				1.1		Red silty sand

H2O 29'

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SOIL BORING  
No. SB-24

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PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-24
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty clay
20				1.2		Red sandy silt
25				1.5		White sand
30				2.1		Red silty sand
35				1.8		Red silty clay
40				1.4		Red silty clay
45				1.4		Orange/Beige sandy silt

H2O 29'

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SOIL BORING  
 No. SB-25

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PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-25
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / RID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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5				1.2		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty clay
20				1.2		Red sandy silt
25				4.3		White sand
30				9.8		Red silty sand

H2O 29'

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SOIL BORING  
 No. SB-26

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PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-26
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O W S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.2		Red silty clay
15				1.3		Red silty clay
20				1.1		Red sandy silt
25				212		White sand
30				545		Red silty sand

H2O 29'

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SOIL BORING  
 No. SB-27

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PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-27
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	D E P T H S Y M	S A M P L E R	N U M B E R	B L O C K	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
10					1.4		Red silty clay
15					2.1		Red silty clay
20					12.9		Red sandy silt
25					1845		Orange silty sand
30					2765		Red silty sand

H2O 29'



Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-28	PAGE 1 OF 1
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PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-28
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.2		Tan silty sand
10				1.2		Red silty clay
15				1.1		Red silty sand
20				1.4		Red sandy silt
25				6.1		Orange silty sand
30				27.9		Red silty sand

H2O 29'

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SOIL BORING  
 No. SB-29

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PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-29
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S / 6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
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5				1.3		Tan silty sand
10				1.1		Red silty clay
15				1.2		Red silty sand
20				1.3		Red sandy silt
25				1.1		Orange silty sand
30				1.3		Red silty sand

H2O 29'

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SOIL BORING  
 No. SB-30

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PROJECT: Interstate Trucking Terminal 05-05-03	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-30
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID (ppm)	U S C S (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty sand
20				1.3		Red sandy silt
25				2.1		Orange silty sand
30				3.7		Red silty sand
						H2O 29'

Consultech Environmental, Inc.  
1800 MacLeod Drive, Suite F  
Lawrenceville, GA 30043

SOIL BORING  
No. SB-31

PAGE 1 OF 1

PROJECT: Interstate Trucking Terminal 05-05-032	LOCATION:
DATE INSTALLED: 26-Aug-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: SB-31
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 29'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

D E P T H (ft)	S A M P L E R	N U M B E R	B L O C K S /6"	PID / FID  (ppm)	U S C S  (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.1		Tan silty sand
10				1.1		Red silty clay
15				1.1		Red silty sand
20				1.3		Red sandy silt
25				1.5		Orange silty sand
30				2.9		Red silty sand
35				2.1		Red silty clay
40				1.4		Red silty clay
45				1.1		Orange/Beige sandy silt

H2O 29'

**APPENDIX 3**  
**WASTE DISPOSAL MANIFEST**



# CONSULTECH ENVIRONMENTAL, INC.

October 31, 2006

Ms. Minda Johnson, Hydrogeologist  
Assessment Section  
Assessment & Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land & Waste Management  
South Carolina DHEC  
2600 Bull Street  
Columbia, South Carolina 29201

RE: Tier II Assessment Report  
Interstate Truck Terminal  
Highway 301/ 321  
Ulmer, South Carolina  
SCDHEC Site ID #332, CA#26142

Dear Ms. Johnson,

This letter serves as certification that all water and soil encountered during our Tier II work was handled in a manner that complies with all conditions established by DHEC for treatment of small amounts of petroleum hydrocarbon contaminated soils and groundwater.

**Source:**

Soil and groundwater obtained as a result of soil sampling, well development and groundwater sampling.

**Conditions:**


- No free product was disposed of separately from the drums of water.
- Analytical results show an average concentration of less than 5 ppb Benzene and less than 250 ppb total BTEX.
- The water obtained was containerized on site, for a period of less than 30 days, prior to treatment by the activated carbon canisters.
- Records of carbon canister usage are maintained by Consultech.
- The carbon canisters have an expected life of 5,000 gallons before replacement is required.
- Recommendations and conditions issued by the canister manufacturer and SCDHEC have been followed.
- All water obtained was treated on site using an up-flow treatment drum consisting of 90 lbs. of activated carbon. Manufacturer's suggested treatment life is 5,000 gallons of water.

**Specific site conditions of referenced site:**

- Seven 55-gallon drums of soil were removed from the referenced site and disposed of at the Oakridge Landfill in Dorchester, SC. See attached manifest.

Should you have any questions, please contact me at 919-858-5350.

Sincerely,  
**Consultech Environmental, Inc.**

  
\_\_\_\_\_  
Raj B. Shah P.E.  
Technical Director



OAKRIDGE LANDFILL  
A WASTE MANAGEMENT COMPANY

SPECIAL WASTE MANIFEST

Approval # CK 867456

Expiration: 05/31/2007

Generator: INTERSTATE TRUCKING

Account Number: 490 -

Location/Address: ~~2201 CANNON RD~~ <sup>ULMER, SC</sup> ~~HUGER SC (08)~~

Tele Number: 919-622-1164 Contact: JOHN KLEIN

Generator Signature: John Klein AS AGENT FOR

\*\*\*\*\* TO BE COMPLETED BY TRANSPORTER \*\*\*\*\*

Transporter of Waste: THREE R

Truck: 618  
Drums: 7

Date: 9-27-06

Driver's Signature: [Signature]

\*\*\*\*\* TO BE COMPLETED BY OAKRIDGE LANDFILL \*\*\*\*\*

Disposal Site: Oakridge Landfill DWP 130

Description of Waste: SOL/SOIL CUTTINGS FROM UST SITE

Ticket Number: 17588

Tonnage: 5.63

Received By: [Signature]

Date: 9-27-06

2183 HWY 78, (POB 145), DORCHESTER, SC 29437  
TEL: 843-563-2607, FAX: 843-563-4158

7



Interstate Trucking



No. 17588

EDGE LANDFILL, INC.  
A Waste Management Company  
183 Highway 78  
Jorchester, SC 29437  
(843) 553-2607

Customer # \_\_\_\_\_ Date 9-27-06

Customer Name Consultech

Truck # 617 (3R) 7 drums

Material Type SOIL Approval # CK 867456

Description SOIL CUTTINGS from UST Site

Gross Weight 28360

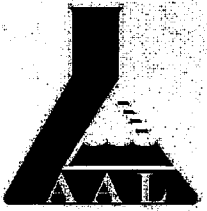
Truck Weight \_\_\_\_\_

Net Weight \_\_\_\_\_

Tons \_\_\_\_\_ Gals. \_\_\_\_\_

Driver Basler

**APPENDIX 4**  
**LABORATORY ANALYTICAL RESULTS**



10-OCT-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10985  
Project Name :Interstate Trucking Ulmer, SC  
Project Number: C-05-05-032

Dear Joe Ghiold :

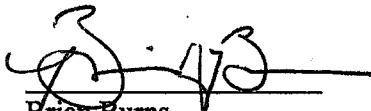
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46204 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46204 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 ▪ NC Certification #483

SC Certification #98015 ▪ Utah Certification #AALI1

USACE Approved ▪ Navy Certification Code NFESC 413

*Case Narrative*

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**AAL Work Order # 10985**

**Client Project: Interstate Trucking Ulmer, SC / C-05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, 4 analytical results pages, and 2 Surrogate recovery pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. The sample was filtered upon receipt at the laboratory, and its filtrate preserved to pH less than 2 with Nitric Acid, for the Dissolved Iron by SW6010B analysis.

Michael F. Broome

Receiving

October 03, 2006

Date

**Anions by SW9056 Notations:**

1. The Matrix spike Duplicate recovery was outside the method specified limits for Sulfate.

Lisandra Betancourt

Wet Chemistry Analyst

October 05, 2006

Date

**VOCs by SW8260B Notations:**

1. The pH of the water samples for work order # 10985 was <2.0 prior to the VOC analysis.

Mei Liang

Senior Analyst

October 09, 2006

Date

**Project Manager's Notations:**

These Case Narrative Notations have been generated, reviewed, and edited by:

  
\_\_\_\_\_  
Brian Burns  
Project Manager

October 09, 2006

Date



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Consultech Env. Billing address:
Address: Cary NC P.O.# (if required):

Results Sent to: (Client Contact): Joe Ghould
Email address:
Contact Phone #: 919.261.4314 Fax#: 4317
For Laboratory Use Only: AAL LIMS System ID: 14638
QC Level: 2 3 4 CLP-Like Receiver's Initials/Temp:
Custody Seal(s): (N) (T) AAL Work Order #: 10985

Project (Site) Name: Interstate Trucking Ulmer, SC
Project Number: C-05-05-032 Preservation Code: (See below)
Analysis Requested
Field Comments:

Table with columns: Line No., Sample ID #, Sample Date / Time, Composite, Grab, Matrix (See below), Sample Location, No. of Containers. Includes handwritten entries for sample 1: DW 4, 10/20/200, x CW Ulmers SC, 8 containers.

1) Relinquished By: Von T Chisholm Date / Time: 10/20/200
2) Received By: [Signature] Date / Time: 10/30/2005
Delivered by: (Circle One) Fed Ex / UPS / DHL / AAL Pickup / Hand / Other
3) Relinquished By: Date / Time:
4) Received By: Date / Time:
Turnaround Time Requested: STD

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)
Preservation Codes: 1=HCL / 2=HNO3 / 3=H2SO4 / 4=NaOH+NaAsO2 / 5=NaOH+ZnAc / 6=Na2S2O3 / 7=NaHSO4 / 8=MeOH



# Certificate of Analytical Results 10985

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: DW-4	Matrix: WATER	% Moisture:					
Lab Sample Id: 10985-001	Date Collected: Oct-02-06 12:00	Date Received: Oct-03-06 10:25					
Sample Depth:							
Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A					
Date Analyzed: Oct-04-06 12:30	Analyst: FAR01	Date Prep: Oct-03-06 11:00					
	Seq Number: 33719	Tech: MSN01					
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1
Analytical Method: EDB by SW8011		Prep Method: EXT_SW8011					
Date Analyzed: Oct-06-06 02:31	Analyst: BDW01	Date Prep: Oct-04-06 08:00	Tech: BPR01				
	Seq Number: 33741						
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0048	ug/L		1
Analytical Method: Lead by SW6010B		Prep Method: SW3010A					
Date Analyzed: Oct-05-06 13:03	Analyst: FAR01	Date Prep: Oct-04-06 09:00	Tech: MSN01				
	Seq Number: 33733						
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1
Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B					
Date Analyzed: Oct-05-06 10:47	Analyst: MDS01	Date Prep: Oct-05-06 10:15	Tech: MDS01				
	Seq Number: 33730						
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:					
Date Analyzed: Oct-04-06 10:35	Analyst: LJB01	Date Prep:	Tech: LJB01				
	Seq Number: 33725						
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	0.78	0.10	0.027	mg/L		1
Sulfate	14808-79-8	84	1.0	0.062	mg/L		1



# Certificate of Analytical Results 10985

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, SC

Sample Id: <b>DW-4</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10985-001</b>	Date Collected: <b>Oct-02-06 12:00</b>	Date Received: <b>Oct-03-06 10:25</b>
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>		Prep Method: <b>SW5030B</b>	
Date Analyzed: <b>Oct-06-06 13:55</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Oct-06-06 07:20</b>	Tech: <b>MJL01</b>
Seq Number: <b>33755</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: <b>30990 BLK</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>30990 BLK</b>	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: <b>Dissolved Iron by SW6010B</b>		Prep Method: <b>SW3005A</b>	
Date Analyzed: <b>Oct-04-06 11:32</b>	Analyst: <b>FAR01</b>	Date Prep: <b>Oct-03-06 11:00</b>	Tech: <b>MSN01</b>
Seq Number: <b>33719</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

Sample Id: <b>31002 BLK</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>31002 BLK</b>	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: <b>Lead by SW6010B</b>		Prep Method: <b>SW3010A</b>	
Date Analyzed: <b>Oct-05-06 12:17</b>	Analyst: <b>FAR01</b>	Date Prep: <b>Oct-04-06 09:00</b>	Tech: <b>MSN01</b>
Seq Number: <b>33733</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1



# Certificate of Analytical Results 10985

**Consultech Environmental, Inc., Cary, NC**  
**Interstate Trucking Ulmer, SC**

Sample Id: <b>31008 BLK</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>31008 BLK</b>	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: <b>Methane by Mod. RSK 175</b>		Prep Method: <b>SW5030B</b>	
Date Analyzed: <b>Oct-05-06 10:27</b>	Analyst: <b>MDS01</b>	Date Prep: <b>Oct-05-06 10:15</b>	Tech: <b>MDS01</b>
Seq Number: <b>33730</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Sample Id: <b>31009 BLK</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>31009 BLK</b>	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: <b>EDB by SW8011</b>		Prep Method: <b>EXT_SW8011</b>	
Date Analyzed: <b>Oct-06-06 01:38</b>	Analyst: <b>BDW01</b>	Date Prep: <b>Oct-04-06 08:00</b>	Tech: <b>BPR01</b>
Seq Number: <b>33741</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

Sample Id: <b>31025 BLK</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>31025 BLK</b>	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>		Prep Method: <b>SW5030B</b>	
Date Analyzed: <b>Oct-06-06 08:59</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Oct-06-06 07:20</b>	Tech: <b>MJL01</b>
Seq Number: <b>33755</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1





# Certificate of Analytical Results 10985

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: 33725 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33725 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056	Prep Method:		
Date Analyzed: Oct-04-06 10:02	Analyst: LJB01	Date Prep:	Tech: LJB01
	Seq Number: 33725		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1

# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, SC

Report Date: 10/10/06 09:57

Project ID: C-05-05-032

Work Order #: 10985

Lab Batch #: 33741

Sample: 10985-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.0	4.9	102	60-140	

Lab Batch #: 33741

Sample: 10985-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.3	4.9	88	60-140	

Lab Batch #: 33741

Sample: 31009 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.5	5.0	90	60-140	

Lab Batch #: 33741

Sample: 31009 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.8	5.0	76	60-140	

Lab Batch #: 33755

Sample: 10985-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	44.21	50.00	88	53-159	
Bromofluorobenzene	48.81	50.00	98	30-186	
Toluene-d8	49.61	50.00	99	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



## Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, SC

Report Date: 10/10/06 09:57

Project ID: C-05-05-032

Work Order #: 10985

Lab Batch #: 33755

Sample: 31025 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	42.72	50.00	85	65-125	
Bromofluorobenzene	47.91	50.00	96	66-148	
Toluene-d8	49.80	50.00	100	86-127	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



09-OCT-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10966  
Project Name :Interstate Trucking Terminal  
Project Number: C-05-05-032

Dear Joe Ghiold :

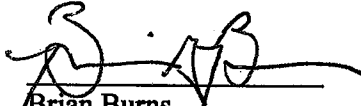
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46248 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

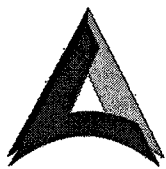
The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46248 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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**AAL Work Order # 10966**

**Client Project: Interstate Trucking Terminal / C-05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, and 4 analytical results pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. The samples were filtered upon receipt at the laboratory, and their filtrates preserved to pH less than 2 with Nitric Acid, for the Dissolved Iron by SW6010B analyses.

Michael F. Broome

Receiving

September 29, 2006

Date

**Anions by SW9056 Notations:**

1. Recoveries of the Sulfate spike standard in the Matrix Spike and its Duplicate were outside laboratory control limits due to possible matrix interferences. The relative percent difference between these recoveries was also outside laboratory control limits.
2. The relative percent difference between concentrations of Sulfate detected in the Method Duplicate and its parent sample was outside laboratory control limits. Except as noted in Statement #1 above, all other related QC was within acceptable limits; therefore the data was accepted.

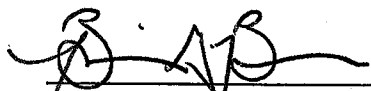
Lisandra Betancourt

Wet Chemistry Analyst

October 5, 2006

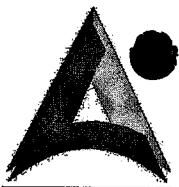
Date

This Case Narrative & Notations have been generated, reviewed, and edited by:

  
Brian Burns  
Project Manager

October 9, 2006

Date



# ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

## CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071  
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Consultech Env. Inc  
 Address: P.O. Box 5611 Cary NC 27512  
 Results Sent to: (Client Contact): Joe Ghiold  
 Email address: \_\_\_\_\_  
 Contact Phone #: 1919 861 4316 Fax#: 1919 861-4316

Billing address: \_\_\_\_\_  
 P.O.# (if required): \_\_\_\_\_  
 For Laboratory Use Only: AAL LIMS System ID: 14639  
 QC Level: 1 2 3 4 CLP-Like Receiver's Initials/Temp: \_\_\_\_\_  
 Custody Seal(s): Y  Other AAL Work Order #: 10966

Project (Site) Name: Interstate trucking terminal  
 Project Number: C-05-03-032 Dimer, SC Preservation Code: (See below)

Analysis Requested  
 Field Comments:

Sampler(s): (signature) [Signature] Sampler(s): (printed) Bobby McAllister

Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	Analysis Requested										Field Comments	AAL Lab ID:			
1	MW-1	9/28/06 10:30					3															10966
2	MW-2	↓ 11:00					3															001
3	MW-3	↓ 11:30					3															002
4																						003
5																						
6																						
7																						
8																						
9																						
10																						

1) Relinquished By: [Signature] 9/28/06 16:00 Date / Time  
 2) Received By: [Signature] 9/29/06 09:50 Date / Time  
 Delivered by: (Circle One) Fed Ex (UPS) DHL / AAL Pickup / Hand / Other  
 3) Relinquished By: \_\_\_\_\_ Date / Time  
 4) Received By: \_\_\_\_\_ Date / Time  
 Turnaround Time Requested: Standard

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)  
 Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH



# Certificate of Analytical Results 10966

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Terminal

Sample Id: MW-1	Matrix: WATER	% Moisture:					
Lab Sample Id: 10966-001	Date Collected: Sep-28-06 10:30	Date Received: Sep-29-06 09:50					
Sample Depth:							
Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A					
Date Analyzed: Oct-04-06 11:53	Analyst: FAR01	Date Prep: Oct-03-06 11:00					
	Seq Number: 33719	Tech: MSN01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1
Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B					
Date Analyzed: Oct-02-06 11:17	Analyst: MDS01	Date Prep: Oct-02-06 10:45		Tech: MDS01			
	Seq Number: 33682						
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Methane	74-82-8	BRL	0.003	0.002	mg/L		1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:					
Date Analyzed: Sep-29-06 11:42	Analyst: LJB01	Date Prep:		Tech: LJB01			
	Seq Number: 33724						
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Nitrate	14797-55-8	2.4	0.10	0.027	mg/L		1
Sulfate	14808-79-8	7.3	1.0	0.062	mg/L		1



# Certificate of Analytical Results 10966

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Terminal

Sample Id: MW-2	Matrix: WATER	% Moisture:					
Lab Sample Id: 10966-002	Date Collected: Sep-28-06 11:00	Date Received: Sep-29-06 09:50					
Sample Depth:							
Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A					
Date Analyzed: Oct-04-06 12:19	Analyst: FAR01	Date Prep: Oct-03-06 11:00					
	Seq Number: 33719	Tech: MSN01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Iron (Dissolved)	7439-89-6	20.7	0.100	0.0167	mg/L		1
Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B					
Date Analyzed: Oct-02-06 11:19	Analyst: MDS01	Date Prep: Oct-02-06 10:45					
	Seq Number: 33682	Tech: MDS01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Methane	74-82-8	0.043	0.003	0.002	mg/L		1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:					
Date Analyzed: Sep-29-06 12:47	Analyst: LJB01	Date Prep:					
	Seq Number: 33724	Tech: LJB01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Nitrate	14797-55-8	0.73	0.10	0.027	mg/L		1
Sulfate	14808-79-8	1.8	1.0	0.062	mg/L		1





# Certificate of Analytical Results 10966

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Terminal

Sample Id: MW-3	Matrix: WATER	% Moisture:
Lab Sample Id: 10966-003	Date Collected: Sep-28-06 11:30	Date Received: Sep-29-06 09:50
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Oct-04-06 12:24	Analyst: FAR01	Date Prep: Oct-03-06 11:00	Tech: MSN01
	Seq Number: 33719		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	7.46	0.100	0.0167	mg/L		1

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Oct-02-06 11:25	Analyst: MDS01	Date Prep: Oct-02-06 10:45	Tech: MDS01
	Seq Number: 33682		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-29-06 13:04	Analyst: LJB01	Date Prep:	Tech: LJB01
	Seq Number: 33724		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	1.2	0.10	0.027	mg/L		1
Sulfate	14808-79-8	3.3	1.0	0.062	mg/L		1

Sample Id: 30976 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30976 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Oct-02-06 10:56	Analyst: MDS01	Date Prep: Oct-02-06 10:45	Tech: MDS01
	Seq Number: 33682		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Sample Id: 30990 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30990 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Oct-04-06 11:32	Analyst: FAR01	Date Prep: Oct-03-06 11:00	Tech: MSN01
	Seq Number: 33719		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1



# Certificate of Analytical Results 10966

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Terminal

Sample Id: 33724 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33724 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-29-06 11:09	Analyst: LJB01	Date Prep:	Tech: LJB01
	Seq Number: 33724		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1

\*



27-SEP-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10896  
Project Name :Interstate Trucking Ulmer, SC  
Project Number: C-05-05-032

Dear Joe Ghiold :

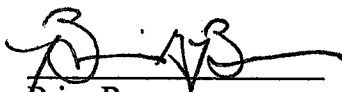
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46035 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46035 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
\_\_\_\_\_  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

---

**AAL Work Order # 10896**

**Client Project: Interstate Trucking Ulmer, SC / C-05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 2 page case narrative, 1 Chain of Custody page, a 2 page copy of the Sample Receipt Checklist, 1 email printout, 8 analytical results pages, and 3 QC surrogate recovery pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. The samples were filtered, and their filtrates preserved to pH less than 2 with Nitric Acid, upon receipt at the laboratory for the Dissolved Iron by SW6010B analyses.

Michael F. Broome

Receiving

September 15, 2006

Date

**Nitrate and Sulfate by SW 9056 Notations:**

1. Recovery of the Sulfate spike standard in the Matrix Spike was outside laboratory control limits due to possible matrix interferences. Recovery in the Matrix Spike Duplicate was within acceptable limits; therefore the data was accepted.
2. The Relative Percent Difference between concentrations of Nitrate detected in the Method Duplicate and its parent sample was outside laboratory control limits.
3. Recovery of the Nitrate spike standard in the Matrix Spike was outside laboratory control limits due to possible matrix interferences. Recovery in the Matrix Spike Duplicate and, except as noted in Statement #2 above, all other related QC for the batch was within acceptable limits; therefore the data was accepted.

Deepa Pendafwar

IC Analyst

September 25, 2006

Date

**Select VOCs by SW8260B Notations:**

1. The pH of each sample was <2.0 prior to analysis.

---

*This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.*  
NELAP Accredited Certificate #-E87429 - Effective 7/01/06, Expires 6/30/07



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

---

2. Xylenes (Total) were detected in the Method Blank. Xylenes (Total) were also detected in the samples but at concentrations greater than 10 times that in the Blank; therefore the results are unaffected.

Tamara Young

VOC Analyst

September 18, 2006

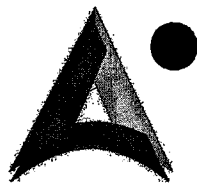
Date

These Case Narrative Notations have been generated, reviewed, and edited by:

  
Brian Burns  
Client Services

September 27, 2006

Date



# ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Page 7 of 1

6017 Financial Drive, Norcross, GA 30071  
Phone # (770) 449-8800 Fax # (770) 449-5477

## CHAIN OF CUSTODY

Company Name: Consultech  
Address: Cary, NC

Billing address: \_\_\_\_\_  
P.O.# (if required): \_\_\_\_\_

Results Sent to: (Client Contact): Joe Ghould

For Laboratory Use Only: AAL LIMS System ID: 14638  
QC Level: (1) 2 3 4 CLP-Like Receiver's Initials/Temp: \_\_\_\_\_  
Custody Seal(s): YN AAL Work Order #: 10896

Email address: \_\_\_\_\_

Contact Phone #: 919-861-4313 Fax#: 4317

Project (Site) Name: Interstate Trucking Ulmer, SC

Project Number: C.05.05-032 Preservation Code: (See below)

Sampler(s): (signature)		Sampler(s): (printed)		Analysis Requested										Field Comments:																
<u>Van &amp; Chisholm</u>		<u>Van Chisholm</u>		EDB	Methane	Lead	nitrate/sulfate	Fe	Cu	Pb	As	Se	Cr		Mn	Co	Ni	Zn	Hg	Cd	Mg	Ca	Na	K	Other	AAL Lab ID:				
Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	EDB	Methane	Lead	nitrate/sulfate	Fe	Cu	Pb	As	Se	Cr	Mn	Co	Ni	Zn	Hg	Cd	Mg	Ca	Na	K	Other	AAL Lab ID:	
1	DW. 1	9.14/1000		X	GW	Ulmer, S.C.	9	3	2	2	1	1																	10896	
2	DW. 2	9.14/1200		X	GW	↓	9	3	2	2	1	1																		1001
3	DW. 3	9.14/1300		X	GW		9	3	2	2	1	1																		1002
4	DW. 4	9.14/1400		X	GW		9	3	2	2	1	1																		1003
5																														NO SAMPLE
6																														
7																														
8																														
9																														
10																														

1) Relinquished By: Van & Chisholm Date / Time: 9.14.06/1600 2) Received By: [Signature] Date / Time: 9/15/06 1028  
 3) Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_ 4) Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 Delivered by: (Circle One) Fed Ex  UPS  DHL  AAL Pickup  Hand  Other  
 Turnaround Time Requested: STD

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)  
 Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH

Client Project Name: Interstate Trucking

ACCURA Work Order#: 10896

Are there EnCores, tests with 48Hr hold times, or RUSH LATS requested? YES NO
YES, you must communicate RUSH analyses to the appropriate analyst(s) immediately!!! / or preserve EnCores (see #16 below)!!!
Preliminary Examination: Initials: JSm Date received: 9/15/06 Date cooler was opened: 9/15/06

- 1. Did cooler/package come with a shipping slip (airbill, Etc.)? YES NO
Describe type of packing in cooler:
\*\*\*\*If cooler was hand delivered, CIRCLE HERE, skip to item #5\*\*\*\*
2. Were custody seals on outside of cooler? YES NO
If YES, how many: seal dated: seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? YES N/A NO
4. Were custody papers sealed in a plastic bag to prevent damage to chain of custody? YES NO
5. If required, was enough ice used? (Internal cooler temperature, 28) YES N/A NO
6. Did you sign custody papers in the appropriate place? YES NO
7. Was project identifiable from custody papers? YES NO
If YES, enter project name at the top.

Complete project file with green sheet, proper file tag, and shipping documentation. Line up samples following chain. Complete Container Receipt Verification form (include extra containers for dissolved metals filtrates). Complete login in XENCO and generate AAL ID Labels.

- 8. Did all containers arrive unbroken and were labels in good condition? YES NO
9. Were custody papers filled out properly and did all labels agree with custody papers? YES NO
10. Were correct containers and sufficient amount of sample sent for the test indicated? YES NO
All samples collected within three days of date received for these analyses (Reactive Cn & S, Solids in H2O, Sulfide, sulfite, ALLI extractable Organic Waters)? YES N/A NO
If NO, coordinate with the project manager to ensure that no samples go out of hold!!!
12. No residual chlorine found in waters for these analyses: (Cyanide, PAH, SVOC, Pesticides, PCB's, Herbicides)? YES N/A NO
Checked by: (Initials)
13. Were samples properly chemically preserved, if required, upon receipt? YES N/A NO
(For example: pH checked for waters for all Metals, Wet Chemistry, Pesticides, PCB's, Herbicides, and VOC/BTEX samples submitted with HCL for waters and in either Encore samplers or NaHSO4 labeled vials for soils)
Preservation checked by: (Initials)
14. Were air bubbles (>1/4 inch) absent in VOC/BTEX samples? YES N/A NO
If NO, list ID # on back and label vials with Do Not Use Until Notified By Management.
15. If there are samples for dissolved metals, were they field filtered? YES N/A NO
If NO, list date and time samples were filtered and preserved in lab: 9/15/06 11am By metals Dept.
16. Were Encore samplers included? YES NO
If YES, date and time preserved with NaHSO4: By whom:
17. Does this submittal contain soil NaHSO4 vials for BTEX/GRO/VOC'S? YES NO
If YES, vials weighed by and entered into vial database by:
18. Initials of laboratory personnel responsible for labeling laboratory I.D. numbers on containers: JSm

Keep samples and chain out. Before moving samples to their appropriate location, another person must review the entire project ensuring that information on the AAL ID Barcode label matches the container label, and that all information is consistent with the chain.
Final check and samples logged to locations by: (Initials)

- 19. Was it necessary to call the assigned project manager in order to proceed with login? YES NO
If YES, give details on the back of this form.
20. Who was called? JSm By whom? JSm Date/Time: 09/15/06 See email

Project Mgr. Review: JSm (Initials) 09/15/06 (Date)

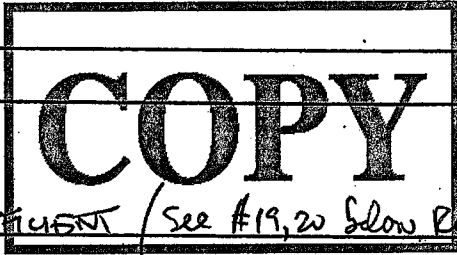
ACCURA ANALYTICAL LABORATORY, INC.  
SAMPLE RECEIPT VARIANCE FORM

Item # Discrepancies Noted:

1 COC states there are (3) containers each for BTEX analysis Rec'd only (2) containers each for BTEX+NAP+PHE analysis. MB, Coc also states that there are (4) samples, only (3) samples Rec'd no DW-4 sample Rec'd.

1,2

(see "DW-4" above)



Item # Actions Taken:

1-1 CONTAINERS REC'D ARE SUFFICIENT (see #19,20 below RE: "DW-4")

1,2 See email attached - cross of COC

Project Mgr. Review: SP (Initials) 09/20/06 (Date)





# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, SC

Sample Id: DW-1	Matrix: WATER	% Moisture:					
Lab Sample Id: 10896-001	Date Collected: Sep-14-06 11:00	Date Received: Sep-15-06 10:28					
Sample Depth:							
Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A					
Date Analyzed: Sep-15-06 13:55	Analyst: OKC01	Date Prep: Sep-15-06 09:55					
	Seq Number: 33495	Tech: FAR01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1
Analytical Method: EDB by SW8011		Prep Method: SW8011					
Date Analyzed: Sep-18-06 19:00	Analyst: BDW01	Date Prep: Sep-18-06 09:00					
	Seq Number: 33529	Tech: BDW01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1
Analytical Method: Lead by SW6010B		Prep Method: SW3010A					
Date Analyzed: Sep-21-06 18:29	Analyst: OKC01	Date Prep: Sep-18-06 09:45					
	Seq Number: 33595	Tech: MSN01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Lead	7439-92-1	0.0209	0.0100	0.00390	mg/L		1
Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B					
Date Analyzed: Sep-19-06 10:18	Analyst: MDS01	Date Prep: Sep-19-06 09:30					
	Seq Number: 33533	Tech: MDS01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Methane	74-82-8	BRL	0.003	0.002	mg/L		1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:					
Date Analyzed: Sep-15-06 22:11	Analyst: DP01	Date Prep:					
	Seq Number: 33565	Tech: DP01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Nitrate	14797-55-8	1.3	0.10	0.027	mg/L		1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:					
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:					
	Seq Number: 33564	Tech: DP01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Sulfate	14808-79-8	5.0	1.0	0.062	mg/L		1

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# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, SC

Sample Id: DW-1	Matrix: WATER	% Moisture:
Lab Sample Id: 10896-001	Date Collected: Sep-14-06 11:00	Date Received: Sep-15-06 10:28
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-15-06 18:54	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.5	1.0	0.67	ug/L		1
Toluene	108-88-3	14	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	35	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	150	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, SC

Sample Id: DW-2	Matrix: WATER	% Moisture:
Lab Sample Id: 10896-002	Date Collected: Sep-14-06 12:00	Date Received: Sep-15-06 10:28
Sample Depth:		

<b>Analytical Method:</b> Dissolved Iron by SW6010B	<b>Prep Method:</b> SW3005A		
Date Analyzed: Sep-15-06 13:44	Analyst: OKC01	Date Prep: Sep-15-06 09:55	Tech: FAR01
	Seq Number: 33495		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> SW8011		
Date Analyzed: Sep-18-06 19:18	Analyst: BDW01	Date Prep: Sep-18-06 09:00	Tech: BDW01
	Seq Number: 33529		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A		
Date Analyzed: Sep-21-06 18:35	Analyst: OKC01	Date Prep: Sep-18-06 09:45	Tech: MSN01
	Seq Number: 33595		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Methane by Mod. RSK 175	<b>Prep Method:</b> SW5030B		
Date Analyzed: Sep-19-06 10:19	Analyst: MDS01	Date Prep: Sep-19-06 09:30	Tech: MDS01
	Seq Number: 33533		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>		
Date Analyzed: Sep-15-06 22:27	Analyst: DP01	Date Prep:	Tech: DP01
	Seq Number: 33565		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	2.6	0.10	0.027	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>		
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:	Tech: DP01
	Seq Number: 33564		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	32	1.0	0.062	mg/L		1

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# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: DW-2	Matrix: WATER	% Moisture:
Lab Sample Id: 10896-002	Date Collected: Sep-14-06 12:00	Date Received: Sep-15-06 10:28
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-15-06 16:41	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	2.9	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	2.0	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	14	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: DW-3	Matrix: WATER	% Moisture:			
Lab Sample Id: 10896-003	Date Collected: Sep-14-06 13:00	Date Received: Sep-15-06 10:28			
Sample Depth:					
<b>Analytical Method: Dissolved Iron by SW6010B</b> Prep Method: SW3005A					
Date Analyzed: Sep-15-06 13:49	Analyst: OKC01	Date Prep: Sep-15-06 09:55			
	Seq Number: 33495	Tech: FAR01			
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Iron (Dissolved)	7439-89-6	BRL 0.100 0.0167	mg/L		1
<b>Analytical Method: EDB by SW8011</b> Prep Method: SW8011					
Date Analyzed: Sep-18-06 19:36	Analyst: BDW01	Date Prep: Sep-18-06 09:00			
	Seq Number: 33529	Tech: BDW01			
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL 0.020 0.0048	ug/L		1
<b>Analytical Method: Lead by SW6010B</b> Prep Method: SW3010A					
Date Analyzed: Sep-21-06 18:41	Analyst: OKC01	Date Prep: Sep-18-06 09:45			
	Seq Number: 33595	Tech: MSN01			
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Lead	7439-92-1	0.0122 0.0100 0.00390	mg/L		1
<b>Analytical Method: Methane by Mod. RSK 175</b> Prep Method: SW5030B					
Date Analyzed: Sep-19-06 10:22	Analyst: MDS01	Date Prep: Sep-19-06 09:30			
	Seq Number: 33533	Tech: MDS01			
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Methane	74-82-8	BRL 0.003 0.002	mg/L		1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b> Prep Method:					
Date Analyzed: Sep-15-06 22:44	Analyst: DP01	Date Prep:			
	Seq Number: 33565	Tech: DP01			
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Nitrate	14797-55-8	2.0 0.10 0.027	mg/L		1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b> Prep Method:					
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:			
	Seq Number: 33564	Tech: DP01			
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Sulfate	14808-79-8	44 1.0 0.062	mg/L		1

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# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: DW-3	Matrix: WATER	% Moisture:
Lab Sample Id: 10896-003	Date Collected: Sep-14-06 13:00	Date Received: Sep-15-06 10:28
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-15-06 17:08	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.2	1.0	0.67	ug/L		1
Toluene	108-88-3	17	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	5.5	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	29	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30847 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30847 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Sep-15-06 11:32	Analyst: OKC01	Date Prep: Sep-15-06 09:55	Tech: FAR01
Seq Number: 33495			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

Sample Id: 30862 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30862 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: EDB by SW8011		Prep Method: SW8011	
Date Analyzed: Sep-18-06 13:39	Analyst: BDW01	Date Prep: Sep-18-06 09:00	Tech: BDW01
Seq Number: 33529			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1



# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: 30863 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30863 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-15-06 11:29	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	1.1	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30869 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30869 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Sep-21-06 16:37	Analyst: OKC01	Date Prep: Sep-18-06 09:45	Tech: MSN01
Seq Number: 33595			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Sample Id: 30874 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30874 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Sep-19-06 09:41	Analyst: MDS01	Date Prep: Sep-19-06 09:30	Tech: MDS01
Seq Number: 33533			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1



# Certificate of Analytical Results 10896

Consultech Environmental, Inc., Cary, NC

Interstate Trucking Ulmer, SC

Sample Id: 33564 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33564 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056			Prep Method:		
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:	Tech: DP01		
Seq Number: 33564					

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1

Sample Id: 33565 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33565 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056			Prep Method:		
Date Analyzed: Sep-15-06 18:54	Analyst: DP01	Date Prep:	Tech: DP01		
Seq Number: 33565					

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1

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# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, SC

Report Date: 09/27/06 14:19

Project ID: C-05-05-032

Work Order #: 10896

Lab Batch #: 33529

Sample: 10896-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.4	4.7	136	60-140	

Lab Batch #: 33529

Sample: 10896-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	6.1	4.7	130	60-140	

Lab Batch #: 33529

Sample: 10896-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.5	5.0	90	60-140	

Lab Batch #: 33529

Sample: 10896-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.7	5.0	74	60-140	

Lab Batch #: 33529

Sample: 10896-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.1	4.9	104	60-140	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, SC

Report Date: 09/27/06 14:19

Project ID: C-05-05-032

Work Order #: 10896

Lab Batch #: 33529

Sample: 10896-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.3	4.9	108	60-140	

Lab Batch #: 33529

Sample: 30862 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.4	5.0	108	60-140	

Lab Batch #: 33529

Sample: 30862 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.8	5.0	116	60-140	

Lab Batch #: 33521

Sample: 10896-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	48.93	50.00	98	53-159	
Bromofluorobenzene	48.41	50.00	97	30-186	
Toluene-d8	50.39	50.00	101	83-136	

Lab Batch #: 33521

Sample: 10896-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	47.18	50.00	94	53-159	
Bromofluorobenzene	46.90	50.00	94	30-186	
Toluene-d8	48.59	50.00	97	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, SC

Report Date: 09/27/06 14:19

Project ID: C-05-05-032

Work Order #: 10896

Lab Batch #: 33521

Sample: 10896-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	46.64	50.00	93	53-159	
Bromofluorobenzene	47.53	50.00	95	30-186	
Toluene-d8	49.34	50.00	99	83-136	

Lab Batch #: 33521

Sample: 30863 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	51.63	50.00	103	65-125	
Bromofluorobenzene	50.13	50.00	100	66-148	
Toluene-d8	51.27	50.00	103	86-127	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



25-SEP-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10885  
Project Name :Interstate Trucking Ulmer, S.C.  
Project Number: C-05-05-032

Dear Joe Ghiold :

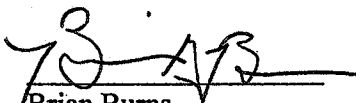
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46036 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46036 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
\_\_\_\_\_  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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**AAL Work Order # 10885**

**Client Project: Interstate Trucking Ulmer, S.C. / C-05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 2 page case narrative, 1 Chain of Custody page, 13 analytical results pages, and 5 QC surrogate recovery pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. The samples were filtered, and their filtrates preserved to pH less than 2 with Nitric Acid, upon receipt at the laboratory for the Dissolved Iron by SW6010B analyses.

Michael F. Broome

Receiving

September 14, 2006

Date

**Nitrate and Sulfate by SW 9056 Notations:**

1. Recoveries of the Nitrate Spike standard in the Matrix Spike and its Duplicate for Lab Batch ID/Seq Number: 33563 were outside laboratory control limits due to spike concentrations being significantly less than that in the parent sample. All other related QC for the batch was within acceptable limits; therefore the data was accepted.
2. Recoveries of the Nitrate and Sulfate spike standards in the Matrix Spike for Lab Batch ID/Seq Number: 33564 were outside laboratory control limits due to possible matrix interferences. Recoveries in the Matrix Spike Duplicate were within acceptable limits; therefore the data was accepted.
3. The Relative Percent Difference between concentrations of Nitrate detected in the Method Duplicate for Lab Batch ID/Seq Number: 33564 and its parent sample was outside laboratory control limits. Except as noted in Statement #2 above, all other related QC for the batch was within acceptable limits; therefore the data was accepted.

Deepa Pendalwar

IC Analyst

September 25, 2006

Date

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NELAP Accredited Certificate #-E87429 - Effective 7/01/06, Expires 6/30/07

Page 1 of 1

WO 10885CN



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

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USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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**Select VOCs by SW8260B Notations:**

1. The pH of each sample was <2.0 prior to analysis.
2. MW-6 required dilution due to high analyte concentrations. As a result some other analytes are reported as "Below Reporting Limit" but at elevated detection limits.
3. Xylenes (Total) were detected in the Method Blanks. Xylenes (Total) were also detected in MW-8, MW-11, and MW-13 at concentrations less than 10 times that in their associated Method Blanks; therefore results for Xylenes (Total) in these samples should be considered estimated due to possible blank contamination. Xylenes (Total) in the other samples was either not detected, or was detected at concentrations greater than 10 times those in the Blanks; therefore these results are unaffected.

Tamara Young

VOC Analyst

September 18, 2006

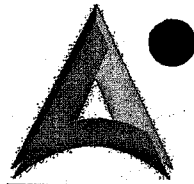
Date

These Case Narrative Notations have been generated, reviewed, and edited by:

  
Brian Burns  
Client Services

September 25, 2006

Date



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: #Consultech
Address: Cary, NC
Results Sent to: (Client Contact): Joe Ghould
Email address:
Contact Phone #: 919.861.4313 Fax#: 4317
Project (Site) Name: Interstate Trucking Ulmer, S.C.
Project Number: C.O.S.05.032 Preservation Code: (See below)

Billing address:
P.O.# (if required):
For Laboratory Use Only:
QC Level: 2 3 4 CLP-Like
Custody Seal(s): Y N
Receiver's Initials/Temp:
AAL LIMS System ID: 14638
AAL Work Order #: 10885

Table with columns: Line No., Sample ID #, Sample Date / Time, Composite, Grab, Matrix, Sample Location, No. of Containers, Analysis Requested (EDB, methanr, lead, nitrate/sulfate, Fe, Mn), Field Comments, AAL/Lab ID.

1) Relinquished By: Van & Chisholm Date / Time: 8/13/06/1800
2) Received By: [Signature] Date / Time: 8/14/06 1026a
Delivered by: (Circle One) Fed Ex (UPS) DHL / AAL Pickup / Hand / Other
3) Relinquished By: Date / Time:
4) Received By: Date / Time:
Turnaround Time Requested: STD

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)
Preservation Codes: 1=HCL / 2=HNO3 / 3=H2SO4 / 4=NaOH+NaAsO2 / 5=NaOH+ZnAc / 6=Na2S2O5 / 7=NaHSO4 / 8=MeOH



# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-6	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-001	Date Collected: Sep-13-06 10:30	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Sep-15-06 11:38	Analyst: OKC01	Date Prep: Sep-15-06 09:55	Tech: FAR01
	Seq Number: 33495		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	11.2	0.100	0.0167	mg/L		1

Analytical Method: EDB by SW8011		Prep Method: SW8011	
Date Analyzed: Sep-18-06 17:31	Analyst: BDW01	Date Prep: Sep-18-06 09:00	Tech: BDW01
	Seq Number: 33529		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Sep-21-06 17:35	Analyst: OKC01	Date Prep: Sep-18-06 09:45	Tech: MSN01
	Seq Number: 33595		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0630	0.0100	0.00390	mg/L		1

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Sep-19-06 09:58	Analyst: MDS01	Date Prep: Sep-19-06 09:30	Tech: MDS01
	Seq Number: 33533		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	0.005	0.003	0.002	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-15-06 23:33	Analyst: DP01	Date Prep:	Tech: DP01
	Seq Number: 33565		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	16	1.0	0.27	mg/L		10

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:	Tech: DP01
	Seq Number: 33564		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	1.8	1.0	0.062	mg/L		1

\*





## Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-6	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-001	Date Collected: Sep-13-06 10:30	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-14-06 17:55	Analyst: TBY01	Date Prep: Sep-14-06 10:30	Tech: TBY01
Seq Number: 33518			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	160	10	6.7	ug/L		10
Toluene	108-88-3	2500	50	34	ug/L		50
Ethylbenzene	100-41-4	680	10	6.6	ug/L		10
Xylenes, Total	1330-20-7	5600	50	90	ug/L		50
Methyl tert-butyl ether	1634-04-4	BRL	10	6.2	ug/L		10
Naphthalene	91-20-3	150	50	40	ug/L		10
1,2-Dichloroethane	107-06-2	BRL	50	8.2	ug/L		10
Diisopropyl ether	108-20-3	BRL	50	8.9	ug/L		10
Ethanol	64-17-5	BRL	1000	550	ug/L		10
Ethyl tert-butyl alcohol	590-36-3	BRL	250	170	ug/L		10
Ethyl tert-butyl ether	637-92-3	BRL	50	11	ug/L		10
Tert-Amyl alcohol	75-85-4	BRL	250	150	ug/L		10
tert-Amyl methyl ether	994-05-8	BRL	50	11	ug/L		10
tert-Butyl alcohol	75-65-0	BRL	250	11	ug/L		10
tert-Butyl formate	762-75-4	BRL	250	180	ug/L		10

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# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-8	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-002	Date Collected: Sep-13-06 11:00	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Sep-15-06 12:07	Analyst: OKC01	Date Prep: Sep-15-06 09:55	Tech: FAR01
	Seq Number: 33495		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	3.96	0.100	0.0167	mg/L		1

Analytical Method: EDB by SW8011		Prep Method: SW8011	
Date Analyzed: Sep-18-06 17:49	Analyst: BDW01	Date Prep: Sep-18-06 09:00	Tech: BDW01
	Seq Number: 33529		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Sep-21-06 18:07	Analyst: OKC01	Date Prep: Sep-18-06 09:45	Tech: MSN01
	Seq Number: 33595		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Sep-19-06 10:31	Analyst: MDS01	Date Prep: Sep-19-06 09:30	Tech: MDS01
	Seq Number: 33533		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-15-06 23:49	Analyst: DP01	Date Prep:	Tech: DP01
	Seq Number: 33565		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	6.3	1.0	0.27	mg/L		10

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:	Tech: DP01
	Seq Number: 33564		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	4.5	1.0	0.062	mg/L		1

\*



## Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-8	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-002	Date Collected: Sep-13-06 11:00	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-14-06 16:34	Analyst: TBY01	Date Prep: Sep-14-06 10:30	Tech: TBY01
Seq Number: 33518			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	2.0	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	2.0	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-11	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-003	Date Collected: Sep-13-06 11:30	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A		
Date Analyzed: Sep-15-06 12:13	Analyst: OKC01	Date Prep: Sep-15-06 09:55	Tech: FAR01	
	Seq Number: 33495			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	21.9	0.100	0.0167	mg/L		1

Analytical Method: EDB by SW8011		Prep Method: SW8011		
Date Analyzed: Sep-18-06 18:07	Analyst: BDW01	Date Prep: Sep-18-06 09:00	Tech: BDW01	
	Seq Number: 33529			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1

Analytical Method: Lead by SW6010B		Prep Method: SW3010A		
Date Analyzed: Sep-21-06 18:12	Analyst: OKC01	Date Prep: Sep-18-06 09:45	Tech: MSN01	
	Seq Number: 33595			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0364	0.0100	0.00390	mg/L		1

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B		
Date Analyzed: Sep-19-06 10:03	Analyst: MDS01	Date Prep: Sep-19-06 09:30	Tech: MDS01	
	Seq Number: 33533			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	0.005	0.003	0.002	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:		
Date Analyzed: Sep-14-06 20:41	Analyst: DP01	Date Prep:	Tech: DP01	
	Seq Number: 33563			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	0.92	0.10	0.027	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:		
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:	Tech: DP01	
	Seq Number: 33564			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	3.1	1.0	0.062	mg/L		1



## Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-11	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-003	Date Collected: Sep-13-06 11:30	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-15-06 12:31	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.1	1.0	0.67	ug/L		1
Toluene	108-88-3	3.4	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	1.8	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	8.2	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1



# Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-12	Matrix: WATER	% Moisture:					
Lab Sample Id: 10885-004	Date Collected: Sep-13-06 12:00	Date Received: Sep-14-06 10:26					
Sample Depth:							
<b>Analytical Method: Dissolved Iron by SW6010B</b> Prep Method: SW3005A							
Date Analyzed: Sep-15-06 12:19	Analyst: OKC01	Date Prep: Sep-15-06 09:55					
	Seq Number: 33495	Tech: FAR01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Iron (Dissolved)	7439-89-6	7.84	0.100	0.0167	mg/L		1
<b>Analytical Method: EDB by SW8011</b> Prep Method: SW8011							
Date Analyzed: Sep-18-06 18:25	Analyst: BDW01	Date Prep: Sep-18-06 09:00					
	Seq Number: 33529	Tech: BDW01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1
<b>Analytical Method: Lead by SW6010B</b> Prep Method: SW3010A							
Date Analyzed: Sep-21-06 18:18	Analyst: OKC01	Date Prep: Sep-18-06 09:45					
	Seq Number: 33595	Tech: MSN01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1
<b>Analytical Method: Methane by Mod. RSK 175</b> Prep Method: SW5030B							
Date Analyzed: Sep-19-06 10:33	Analyst: MDS01	Date Prep: Sep-19-06 09:30					
	Seq Number: 33533	Tech: MDS01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Methane	74-82-8	BRL	0.003	0.002	mg/L		1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b> Prep Method:							
Date Analyzed: Sep-14-06 20:57	Analyst: DP01	Date Prep:					
	Seq Number: 33563	Tech: DP01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Nitrate	14797-55-8	1.7	0.10	0.027	mg/L		1
<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b> Prep Method:							
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:					
	Seq Number: 33564	Tech: DP01					
<b>Parameter</b>	<b>Cas Number</b>	<b>Result</b>	<b>Rep Limit</b>	<b>MDL</b>	<b>Units</b>	<b>Flag</b>	<b>Dil</b>
Sulfate	14808-79-8	2.4	1.0	0.062	mg/L		1



# Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-12	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-004	Date Collected: Sep-13-06 12:00	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-14-06 17:01	Analyst: TBY01	Date Prep: Sep-14-06 10:30	Tech: TBY01
Seq Number: 33518			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1



# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-13	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-005	Date Collected: Sep-13-06 12:30	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A		
Date Analyzed: Sep-15-06 12:24	Analyst: OKC01	Date Prep: Sep-15-06 09:55	Tech: FAR01	
	Seq Number: 33495			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	10.0	0.100	0.0167	mg/L		1

Analytical Method: EDB by SW8011		Prep Method: SW8011		
Date Analyzed: Sep-18-06 18:43	Analyst: BDW01	Date Prep: Sep-18-06 09:00	Tech: BDW01	
	Seq Number: 33529			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0048	ug/L		1

Analytical Method: Lead by SW6010B		Prep Method: SW3010A		
Date Analyzed: Sep-21-06 18:24	Analyst: OKC01	Date Prep: Sep-18-06 09:45	Tech: MSN01	
	Seq Number: 33595			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B		
Date Analyzed: Sep-19-06 10:16	Analyst: MDS01	Date Prep: Sep-19-06 09:30	Tech: MDS01	
	Seq Number: 33533			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:		
Date Analyzed: Sep-14-06 21:14	Analyst: DP01	Date Prep:	Tech: DP01	
	Seq Number: 33563			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	1.3	0.10	0.027	mg/L		1

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:		
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:	Tech: DP01	
	Seq Number: 33564			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	3.4	1.0	0.062	mg/L		1





# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: MW-13	Matrix: WATER	% Moisture:
Lab Sample Id: 10885-005	Date Collected: Sep-13-06 12:30	Date Received: Sep-14-06 10:26
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-14-06 17:28	Analyst: TBY01	Date Prep: Sep-14-06 10:30	Tech: TBY01
Seq Number: 33518			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	1.3	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	1.1	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30847 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30847 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Sep-15-06 11:32	Analyst: OKC01	Date Prep: Sep-15-06 09:55	Tech: FAR01
Seq Number: 33495			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

\*



# Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: 30860 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30860 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-14-06 12:55	Analyst: TBY01	Date Prep: Sep-14-06 10:30	Tech: TBY01
Seq Number: 33518			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	1.4	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30862 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30862 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: EDB by SW8011		Prep Method: SW8011	
Date Analyzed: Sep-18-06 13:39	Analyst: BDW01	Date Prep: Sep-18-06 09:00	Tech: BDW01
Seq Number: 33529			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1



# Certificate of Analytical Results 10885

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking Ulmer, S.C.

Sample Id: 30863 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30863 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-15-06 11:29	Analyst: TBY01	Date Prep: Sep-15-06 09:30	Tech: TBY01
Seq Number: 33521			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	1.1	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30869 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30869 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Sep-21-06 16:37	Analyst: OKC01	Date Prep: Sep-18-06 09:45	Tech: MSN01
Seq Number: 33595			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Sample Id: 30874 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30874 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Sep-19-06 09:41	Analyst: MDS01	Date Prep: Sep-19-06 09:30	Tech: MDS01
Seq Number: 33533			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1



## Certificate of Analytical Results 10885

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking Ulmer, S.C.

Sample Id: 33563 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33563 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-14-06 18:46	Analyst: DP01	Date Prep:	Tech: DP01
Seq Number: 33563			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1

Sample Id: 33564 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33564 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-19-06 20:23	Analyst: DP01	Date Prep:	Tech: DP01
Seq Number: 33564			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1

Sample Id: 33565 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33565 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:	
Date Analyzed: Sep-15-06 18:54	Analyst: DP01	Date Prep:	Tech: DP01
Seq Number: 33565			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, S.C.

Report Date: 09/25/06 16:53

Project ID: C-05-05-032

Work Order #: 10885

Lab Batch #: 33529

Sample: 10885-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.8	4.7	102	60-140	

Lab Batch #: 33529

Sample: 10885-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.4	4.7	94	60-140	

Lab Batch #: 33529

Sample: 10885-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.5	4.7	96	60-140	

Lab Batch #: 33529

Sample: 10885-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.8	4.7	81	60-140	

Lab Batch #: 33529

Sample: 10885-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.9	4.7	104	60-140	

- \* Surrogate outside of Laboratory QC limits
  - \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis
  - \*\*\* Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits

# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, S.C.

Report Date: 09/25/06 16:53

Project ID: C-05-05-032

Work Order #: 10885

Lab Batch #: 33529

Sample: 10885-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.8	4.7	81	60-140	

Lab Batch #: 33529

Sample: 10885-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.5	4.7	96	60-140	

Lab Batch #: 33529

Sample: 10885-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.7	4.7	79	60-140	

Lab Batch #: 33529

Sample: 10885-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.4	4.9	90	60-140	

Lab Batch #: 33529

Sample: 10885-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.8	4.9	78	60-140	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, S.C.

Report Date: 09/25/06 16:53

Project ID: C-05-05-032

Work Order #: 10885

Lab Batch #: 33529

Sample: 30862 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.4	5.0	108	60-140	

Lab Batch #: 33529

Sample: 30862 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.8	5.0	116	60-140	

Lab Batch #: 33518

Sample: 10885-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	66.76	50.00	134	53-159	
Bromofluorobenzene	47.61	50.00	95	30-186	
Toluene-d8	46.95	50.00	94	83-136	

Lab Batch #: 33518

Sample: 10885-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	52.61	50.00	105	53-159	
Bromofluorobenzene	50.09	50.00	100	30-186	
Toluene-d8	53.81	50.00	108	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

**Project Name: Interstate Trucking Ulmer, S.C.**

**Report Date: 09/25/06 16:53**

**Project ID: C-05-05-032**

**Work Order #: 10885**

**Lab Batch #: 33518**

**Sample: 10885-004 / SMP**

**Batch: 1 Matrix: W**

**Units: ug/L**

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	57.23	50.00	114	53-159	
Bromofluorobenzene	51.09	50.00	102	30-186	
Toluene-d8	53.74	50.00	107	83-136	

**Lab Batch #: 33518**

**Sample: 10885-005 / SMP**

**Batch: 1 Matrix: W**

**Units: ug/L**

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	58.68	50.00	117	53-159	
Bromofluorobenzene	52.67	50.00	105	30-186	
Toluene-d8	54.78	50.00	110	83-136	

**Lab Batch #: 33518**

**Sample: 30860 BLK / BLK**

**Batch: 1 Matrix: W**

**Units: ug/L**

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	51.26	50.00	103	65-125	
Bromofluorobenzene	50.04	50.00	100	66-148	
Toluene-d8	53.49	50.00	107	86-127	

**Lab Batch #: 33521**

**Sample: 10885-001 DL / DIL**

**Batch: 1 Matrix: W**

**Units: ug/L**

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	52.54	50.00	105	53-159	
Bromofluorobenzene	48.85	50.00	98	30-186	
Toluene-d8	50.98	50.00	102	83-136	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits .





# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking Ulmer, S.C.

Report Date: 09/25/06 16:53

Work Order #: 10885

Project ID: C-05-05-032

Lab Batch #: 33521

Sample: 10885-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	53.26	50.00	107	53-159	
Bromofluorobenzene	49.40	50.00	99	30-186	
Toluene-d8	52.41	50.00	105	83-136	

Lab Batch #: 33521

Sample: 30863 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	51.63	50.00	103	65-125	
Bromofluorobenzene	50.13	50.00	100	66-148	
Toluene-d8	51.27	50.00	103	86-127	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



19-SEP-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10860  
Project Name :Interstate Trucking  
Project Number: 05-05-032

Dear Joe Ghiold :

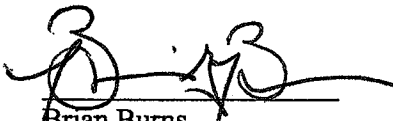
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46037 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46037 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

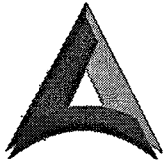
We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,



Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 ▪ NC Certification #483

SC Certification #98015 ▪ Utah Certification #AALI1

USACE Approved ▪ Navy Certification Code NFESC 413

*Case Narrative*

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**AAL Work Order # 10860**

**Client Project: Interstate Trucking / 05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, 14 analytical results pages, and 6 QC surrogate recovery pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. The samples for Dissolved Metals analysis were filtered and preserved with Nitric Acid upon receipt at the laboratory.

Dawn Sengsourichanh

Receiving

September 08, 2006

Date

**Select VOCs by SW8260B Notations:**

1. The pH of the water samples was <2.0 prior to the VOC analysis.
2. The following samples required dilution due to high analyte concentrations: MW-4r, MW-5r, MW-9, and MW-14. As a result some other analytes are reported as "Below Reporting Limit" but at elevated detection limits.


Tamara Young

VOC Analyst

September 12, 2006

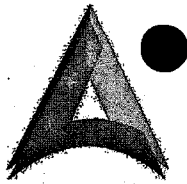
Date

This Case Narrative & Notations have been generated, reviewed, and edited by:

  
\_\_\_\_\_  
Brian Burns  
Client Services

September 19, 2006

Date



# ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071  
Phone # (770) 449-8800 Fax # (770) 449-5477

## CHAIN OF CUSTODY

Company Name: Consultech Environmental Billing address: \_\_\_\_\_

Address: Conq NC P.O.# (if required): \_\_\_\_\_

Results Sent to: (Client Contact): Joe Ghould

Email address: \_\_\_\_\_

Contact Phone #: 919-861-9813 Fax#: 4317

Project (Site) Name: Interstate Trucking Ulmer, S.C.

Project Number: 05-05-032 Preservation Code: (See below)

For Laboratory Use Only:  
AAL LIMS System ID: \_\_\_\_\_  
QC Level: 1 2 3 4 CLP-Like Receiver's Initials/Temp: \_\_\_\_\_  
Custody Seal(s): \_\_\_\_\_ Y N Tape AAL Work Order #: \_\_\_\_\_

Analysis Requested

Field Comments:

Sampler(s): (signature) Van T Chisholm Sampler(s): (printed) Van T. Chisholm

Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	BTEX, m+w 1, 2 day 8-hr avg	ED	metals	lead	nitrate/sulfate Fe iron	AAL Lab ID:
1	MW. 4r	9/7 / 1030	x		GW	Ulmer, SC	7	3	2	2	1	1	10860-001
2	MW. 5r	/ 1050	x		GW		7	3	2	2	1	1	002
3	MW. 7	/ 1110	x		GW		7	3	2	2	1	1	003
4	MW. 9	/ 1130	x		GW		7	3	2	2	1	1	004
5	MW. 10	/ 1150	x		GW		7	3	2	2	1	1	005
6	MW. 14	/ 1210	x		GW		7	3	2	2	1	1	006
7	<del>MW. 14</del>	<del>/ 1230</del>	<del>x</del>		<del>GW</del>		<del>7</del>	<del>3</del>	<del>2</del>	<del>2</del>	<del>1</del>	<del>1</del>	no sample
8													
9													
10													

1) Relinquished By: Van T Chisholm Date / Time: 9/7/06/1600 2) Received By: UPS Date / Time: \_\_\_\_\_ Delivered by: (Circle One) Fed Ex / UPS / DHL / AAL Pickup / Hand / Other

3) Relinquished By: UPS Date / Time: 9/8/06/1335 4) Received By: Dawn Bengtson Date / Time: 9/8/06 1335 Turnaround Time Requested: \_\_\_\_\_

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)

Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH



# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-4r		Matrix: WATER		% Moisture:			
Lab Sample Id: 10860-001		Date Collected: Sep-07-06 10:30		Date Received: Sep-08-06 13:35			
Sample Depth:							
Analytical Method: Dissolved Iron by SW6010B				Prep Method: SW3005A			
Date Analyzed: Sep-13-06 16:47		Analyst: OKC01	Date Prep: Sep-13-06 10:33		Tech: OKC01		
Seq Number: 33463							
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	12.7	0.100	0.0167	mg/L		1
Analytical Method: EDB by SW8011				Prep Method: EXT_SW8011			
Date Analyzed: Sep-15-06 11:58		Analyst: BDW01	Date Prep: Sep-15-06 07:56		Tech: BPR01		
Seq Number: 33513							
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.23	0.019	0.0047	ug/L		1
Analytical Method: Lead by SW6010B				Prep Method: SW3010A			
Date Analyzed: Sep-13-06 12:27		Analyst: OKC01	Date Prep: Sep-12-06 10:00		Tech: MSN01		
Seq Number: 33460							
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0726	0.0100	0.00390	mg/L		1
Analytical Method: Methane by Mod. RSK 175				Prep Method: SW5030B			
Date Analyzed: Sep-11-06 13:55		Analyst: MDS01	Date Prep: Sep-11-06 13:20		Tech: MDS01		
Seq Number: 33412							
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1
Analytical Method: Nitrate & Sulfate by SW9056				Prep Method:			
Date Analyzed: Sep-08-06 17:50		Analyst: LJB01	Date Prep:		Tech: LJB01		
Seq Number: 33417							
Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-4r	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-001	Date Collected: Sep-07-06 10:30	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B

Prep Method: SW5030B

Date Analyzed: Sep-12-06 14:23

Analyst: TBY01

Date Prep: Sep-12-06 08:30

Tech: TBY01

Seq Number: 33455

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	68	10	6.7	ug/L		10
Toluene	108-88-3	1300	10	6.8	ug/L		10
Ethylbenzene	100-41-4	1200	10	6.6	ug/L		10
Xylenes, Total	1330-20-7	6200	50	90	ug/L		50
Methyl tert-butyl ether	1634-04-4	BRL	10	6.2	ug/L		10
Naphthalene	91-20-3	130	50	40	ug/L		10
1,2-Dichloroethane	107-06-2	BRL	50	8.2	ug/L		10
Diisopropyl ether	108-20-3	BRL	50	8.9	ug/L		10
Ethanol	64-17-5	BRL	1000	550	ug/L		10
Ethyl tert-butyl alcohol	590-36-3	BRL	250	170	ug/L		10
Ethyl tert-butyl ether	637-92-3	BRL	50	11	ug/L		10
Tert-Amyl alcohol	75-85-4	BRL	250	150	ug/L		10
tert-Amyl methyl ether	994-05-8	BRL	50	11	ug/L		10
tert-Butyl alcohol	75-65-0	BRL	250	11	ug/L		10
tert-Butyl formate	762-75-4	BRL	250	180	ug/L		10

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-5r	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-002	Date Collected: Sep-07-06 10:50	Date Received: Sep-08-06 13:35
Sample Depth:		
Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A
Date Analyzed: Sep-13-06 17:13	Analyst: OKC01	Date Prep: Sep-13-06 10:33
	Seq Number: 33463	Tech: OKC01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Iron (Dissolved)	7439-89-6	22.1 0.100 0.0167
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: EDB by SW8011		Prep Method: EXT_SW8011
Date Analyzed: Sep-15-06 12:16	Analyst: BDW01	Date Prep: Sep-15-06 07:56
	Seq Number: 33513	Tech: BPR01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL 0.019 0.0048
		<b>Units Flag Dil</b>
		ug/L 1
Analytical Method: Lead by SW6010B		Prep Method: SW3010A
Date Analyzed: Sep-13-06 12:32	Analyst: OKC01	Date Prep: Sep-12-06 10:00
	Seq Number: 33460	Tech: MSN01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Lead	7439-92-1	0.0273 0.0100 0.00390
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B
Date Analyzed: Sep-11-06 14:19	Analyst: MDS01	Date Prep: Sep-11-06 13:20
	Seq Number: 33412	Tech: MDS01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Methane	74-82-8	BRL 0.003 0.002
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:
Date Analyzed: Sep-08-06 18:56	Analyst: LJB01	Date Prep:
	Seq Number: 33417	Tech: LJB01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Nitrate	14797-55-8	3.1 0.10 0.027
Sulfate	14808-79-8	3.4 1.0 0.062
		<b>Units Flag Dil</b>
		mg/L 1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-5r	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-002	Date Collected: Sep-07-06 10:50	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-12-06 15:44	Analyst: TBY01	Date Prep: Sep-12-06 08:30	Tech: TBY01
Seq Number: 33455			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	14	10	6.7	ug/L		10
Toluene	108-88-3	35	10	6.8	ug/L		10
Ethylbenzene	100-41-4	430	10	6.6	ug/L		10
Xylenes, Total	1330-20-7	1900	10	18	ug/L		10
Methyl tert-butyl ether	1634-04-4	BRL	10	6.2	ug/L		10
Naphthalene	91-20-3	250	50	40	ug/L		10
1,2-Dichloroethane	107-06-2	BRL	50	8.2	ug/L		10
Diisopropyl ether	108-20-3	BRL	50	8.9	ug/L		10
Ethanol	64-17-5	BRL	1000	550	ug/L		10
Ethyl tert-butyl alcohol	590-36-3	BRL	250	170	ug/L		10
Ethyl tert-butyl ether	637-92-3	BRL	50	11	ug/L		10
Tert-Amyl alcohol	75-85-4	BRL	250	150	ug/L		10
tert-Amyl methyl ether	994-05-8	BRL	50	11	ug/L		10
tert-Butyl alcohol	75-65-0	BRL	250	11	ug/L		10
tert-Butyl formate	762-75-4	BRL	250	180	ug/L		10

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-7	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-003	Date Collected: Sep-07-06 11:10	Date Received: Sep-08-06 13:35
Sample Depth:		
Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A
Date Analyzed: Sep-13-06 17:19	Analyst: OKC01	Date Prep: Sep-13-06 10:33
	Seq Number: 33463	Tech: OKC01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Iron (Dissolved)	7439-89-6	14.5 0.100 0.0167
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: EDB by SW8011		Prep Method: EXT_SW8011
Date Analyzed: Sep-15-06 12:33	Analyst: BDW01	Date Prep: Sep-15-06 07:56
	Seq Number: 33513	Tech: BPR01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL 0.019 0.0047
		<b>Units Flag Dil</b>
		ug/L 1
Analytical Method: Lead by SW6010B		Prep Method: SW3010A
Date Analyzed: Sep-13-06 12:38	Analyst: OKC01	Date Prep: Sep-12-06 10:00
	Seq Number: 33460	Tech: MSN01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Lead	7439-92-1	0.0274 0.0100 0.00390
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B
Date Analyzed: Sep-11-06 14:46	Analyst: MDS01	Date Prep: Sep-11-06 13:20
	Seq Number: 33412	Tech: MDS01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Methane	74-82-8	0.007 0.003 0.002
		<b>Units Flag Dil</b>
		mg/L 1
Analytical Method: Nitrate & Sulfate by SW9056		Prep Method:
Date Analyzed: Sep-08-06 19:12	Analyst: LJB01	Date Prep:
	Seq Number: 33417	Tech: LJB01
<b>Parameter</b>	<b>Cas Number</b>	<b>Result Rep Limit MDL</b>
Nitrate	14797-55-8	3.0 0.10 0.027
Sulfate	14808-79-8	24 1.0 0.062
		<b>Units Flag Dil</b>
		mg/L 1
		mg/L 1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-7	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-003	Date Collected: Sep-07-06 11:10	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-12-06 13:30	Analyst: TBY01	Date Prep: Sep-12-06 08:30	Tech: TBY01
Seq Number: 33455			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-9	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-004	Date Collected: Sep-07-06 11:30	Date Received: Sep-08-06 13:35
Sample Depth:		

<b>Analytical Method:</b> Dissolved Iron by SW6010B	<b>Prep Method:</b> SW3005A
Date Analyzed: Sep-13-06 17:24	Analyst: OKC01
Seq Number: 33463	Date Prep: Sep-13-06 10:33
	Tech: OKC01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	51.2	0.100	0.0167	mg/L		1

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> EXT_SW8011
Date Analyzed: Sep-15-06 12:51	Analyst: BDW01
Seq Number: 33513	Date Prep: Sep-15-06 07:56
	Tech: BPR01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.021	0.0051	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A
Date Analyzed: Sep-13-06 12:01	Analyst: OKC01
Seq Number: 33460	Date Prep: Sep-12-06 10:00
	Tech: MSN01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0142	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Methane by Mod. RSK 175	<b>Prep Method:</b> SW5030B
Date Analyzed: Sep-11-06 14:01	Analyst: MDS01
Seq Number: 33412	Date Prep: Sep-11-06 13:20
	Tech: MDS01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	0.019	0.003	0.002	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056	<b>Prep Method:</b>
Date Analyzed: Sep-08-06 19:29	Analyst: LJB01
Seq Number: 33417	Date Prep:
	Tech: LJB01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	0.77	0.10	0.027	mg/L		1
Sulfate	14808-79-8	1.8	1.0	0.062	mg/L		1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-9	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-004	Date Collected: Sep-07-06 11:30	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Sep-12-06 14:50	Analyst: TBY01	Date Prep: Sep-12-06 08:30	Tech: TBY01
Seq Number: 33455			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	180	10	6.7	ug/L		10
Toluene	108-88-3	2900	50	34	ug/L		50
Ethylbenzene	100-41-4	750	10	6.6	ug/L		10
Xylenes, Total	1330-20-7	5000	50	90	ug/L		50
Methyl tert-butyl ether	1634-04-4	BRL	10	6.2	ug/L		10
Naphthalene	91-20-3	290	50	40	ug/L		10
1,2-Dichloroethane	107-06-2	BRL	50	8.2	ug/L		10
Diisopropyl ether	108-20-3	BRL	50	8.9	ug/L		10
Ethanol	64-17-5	BRL	1000	550	ug/L		10
Ethyl tert-butyl alcohol	590-36-3	BRL	250	170	ug/L		10
Ethyl tert-butyl ether	637-92-3	BRL	50	11	ug/L		10
Tert-Amyl alcohol	75-85-4	BRL	250	150	ug/L		10
tert-Amyl methyl ether	994-05-8	BRL	50	11	ug/L		10
tert-Butyl alcohol	75-65-0	BRL	250	11	ug/L		10
tert-Butyl formate	762-75-4	BRL	250	180	ug/L		10

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# Certificate of Analytical Results 10860

**Consultech Environmental, Inc., Cary, NC**  
Interstate Trucking

Sample Id: MW-10	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-005	Date Collected: Sep-07-06 11:50	Date Received: Sep-08-06 13:35
Sample Depth:		

<b>Analytical Method: Dissolved Iron by SW6010B</b>		<b>Prep Method: SW3005A</b>	
Date Analyzed: Sep-13-06 17:30	Analyst: OKC01	Date Prep: Sep-13-06 10:33	Tech: OKC01
	Seq Number: 33463		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	2.82	0.100	0.0167	mg/L		1

<b>Analytical Method: EDB by SW8011</b>		<b>Prep Method: EXT_SW8011</b>	
Date Analyzed: Sep-15-06 13:27	Analyst: BDW01	Date Prep: Sep-15-06 07:56	Tech: BPR01
	Seq Number: 33513		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0047	ug/L		1

<b>Analytical Method: Lead by SW6010B</b>		<b>Prep Method: SW3010A</b>	
Date Analyzed: Sep-13-06 13:43	Analyst: OKC01	Date Prep: Sep-12-06 10:00	Tech: MSN01
	Seq Number: 33460		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0160	0.0100	0.00390	mg/L		1

<b>Analytical Method: Methane by Mod. RSK 175</b>		<b>Prep Method: SW5030B</b>	
Date Analyzed: Sep-11-06 14:22	Analyst: MDS01	Date Prep: Sep-11-06 13:20	Tech: MDS01
	Seq Number: 33412		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

<b>Analytical Method: Nitrate &amp; Sulfate by SW9056</b>		<b>Prep Method:</b>	
Date Analyzed: Sep-08-06 19:45	Analyst: LJB01	Date Prep:	Tech: LJB01
	Seq Number: 33417		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	1.3	0.10	0.027	mg/L		1
Sulfate	14808-79-8	4.1	1.0	0.062	mg/L		1

\*



# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-10	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-005	Date Collected: Sep-07-06 11:50	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B

Prep Method: SW5030B

Date Analyzed: Sep-12-06 13:57

Analyst: TBY01

Date Prep: Sep-12-06 08:30

Tech: TBY01

Seq Number: 33455

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

\*



# Certificate of Analytical Results 10860

**Consultech Environmental, Inc., Cary, NC**

Interstate Trucking

Sample Id: MW-14	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-006	Date Collected: Sep-07-06 12:10	Date Received: Sep-08-06 13:35
Sample Depth:		

<b>Analytical Method:</b> Dissolved Iron by SW6010B		<b>Prep Method:</b> SW3005A	
Date Analyzed: Sep-13-06 17:36	Analyst: OKC01	Date Prep: Sep-13-06 10:33	Tech: OKC01
Seq Number: 33463			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	16.3	0.100	0.0167	mg/L		1

<b>Analytical Method:</b> EDB by SW8011		<b>Prep Method:</b> EXT_SW8011	
Date Analyzed: Sep-15-06 13:45	Analyst: BDW01	Date Prep: Sep-15-06 07:56	Tech: BPR01
Seq Number: 33513			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.18	0.019	0.0047	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B		<b>Prep Method:</b> SW3010A	
Date Analyzed: Sep-13-06 13:48	Analyst: OKC01	Date Prep: Sep-12-06 10:00	Tech: MSN01
Seq Number: 33460			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0427	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Methane by Mod. RSK 175		<b>Prep Method:</b> SW5030B	
Date Analyzed: Sep-11-06 14:24	Analyst: MDS01	Date Prep: Sep-11-06 13:20	Tech: MDS01
Seq Number: 33412			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	0.012	0.003	0.002	mg/L		1

<b>Analytical Method:</b> Nitrate & Sulfate by SW9056		<b>Prep Method:</b>	
Date Analyzed: Sep-08-06 20:34	Analyst: LJB01	Date Prep:	Tech: LJB01
Seq Number: 33417			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	2.6	0.10	0.027	mg/L		1
Sulfate	14808-79-8	1.8	1.0	0.062	mg/L		1

\*



# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: MW-14	Matrix: WATER	% Moisture:
Lab Sample Id: 10860-006	Date Collected: Sep-07-06 12:10	Date Received: Sep-08-06 13:35
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-12-06 15:17	Analyst: TBY01	Date Prep: Sep-12-06 08:30	Tech: TBY01
Seq Number: 33455			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	79	10	6.7	ug/L		10
Toluene	108-88-3	4800	100	68	ug/L		100
Ethylbenzene	100-41-4	1500	10	6.6	ug/L		10
Xylenes, Total	1330-20-7	8100	100	180	ug/L		100
Methyl tert-butyl ether	1634-04-4	BRL	10	6.2	ug/L		10
Naphthalene	91-20-3	150	50	40	ug/L		10
1,2-Dichloroethane	107-06-2	BRL	50	8.2	ug/L		10
Diisopropyl ether	108-20-3	BRL	50	8.9	ug/L		10
Ethanol	64-17-5	BRL	1000	550	ug/L		10
Ethyl tert-butyl alcohol	590-36-3	BRL	250	170	ug/L		10
Ethyl tert-butyl ether	637-92-3	BRL	50	11	ug/L		10
Tert-Amyl alcohol	75-85-4	BRL	250	150	ug/L		10
tert-Amyl methyl ether	994-05-8	BRL	50	11	ug/L		10
tert-Butyl alcohol	75-65-0	BRL	250	11	ug/L		10
tert-Butyl formate	762-75-4	BRL	250	180	ug/L		10

Sample Id: 30785 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30785 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Methane by Mod. RSK 175		Prep Method: SW5030B	
Date Analyzed: Sep-11-06 13:43	Analyst: MDS01	Date Prep: Sep-11-06 13:20	Tech: MDS01
Seq Number: 33412			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Methane	74-82-8	BRL	0.003	0.002	mg/L		1

Sample Id: 30803 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30803 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Sep-13-06 11:40	Analyst: OKC01	Date Prep: Sep-12-06 10:00	Tech: MSN01
Seq Number: 33460			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: 30809 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30809 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Dissolved Iron by SW6010B		Prep Method: SW3005A	
Date Analyzed: Sep-13-06 15:55	Analyst: OKC01	Date Prep: Sep-13-06 10:33	Tech: OKC01
Seq Number: 33463			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Iron (Dissolved)	7439-89-6	BRL	0.100	0.0167	mg/L		1

Sample Id: 30813 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30813 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-12-06 12:54	Analyst: TBY01	Date Prep: Sep-12-06 08:30	Tech: TBY01
Seq Number: 33454			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30837 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30837 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: EDB by SW8011		Prep Method: EXT_SW8011	
Date Analyzed: Sep-15-06 11:05	Analyst: BDW01	Date Prep: Sep-15-06 07:56	Tech: BPR01
Seq Number: 33513			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

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# Certificate of Analytical Results 10860

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: 33417 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 33417 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Nitrate & Sulfate by SW9056	Prep Method:		
Date Analyzed: Sep-08-06 17:17	Analyst: LJB01	Date Prep:	Tech: LJB01
	Seq Number: 33417		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Nitrate	14797-55-8	BRL	0.10	0.027	mg/L		1
Sulfate	14808-79-8	BRL	1.0	0.062	mg/L		1

\*



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Project ID: 05-05-032

Work Order #: 10860

Lab Batch #: 33513

Sample: 10860-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.5	4.8	94	60-140	

Lab Batch #: 33513

Sample: 10860-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.8	4.8	79	60-140	

Lab Batch #: 33513

Sample: 10860-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.5	4.9	92	60-140	

Lab Batch #: 33513

Sample: 10860-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.3	4.9	88	60-140	

Lab Batch #: 33513

Sample: 10860-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.2	4.8	108	60-140	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Project ID: 05-05-032

Work Order #: 10860

Lab Batch #: 33513

Sample: 10860-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.2	4.8	108	60-140	

Lab Batch #: 33513

Sample: 10860-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.8	5.2	92	60-140	

Lab Batch #: 33513

Sample: 10860-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.4	5.2	85	60-140	

Lab Batch #: 33513

Sample: 10860-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.7	4.8	98	60-140	

Lab Batch #: 33513

Sample: 10860-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.2	4.8	88	60-140	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Project ID: 05-05-032

Work Order #: 10860

Lab Batch #: 33513

Sample: 10860-006 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.9	4.8	102	60-140	

Lab Batch #: 33513

Sample: 10860-006 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.3	4.8	90	60-140	

Lab Batch #: 33513

Sample: 30837 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.6	5.0	92	60-140	

Lab Batch #: 33513

Sample: 30837 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.0	5.0	80	60-140	

Lab Batch #: 33454

Sample: 30813 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	52.13	50.00	104	65-125	
Bromofluorobenzene	48.28	50.00	97	66-148	
Toluene-d8	50.64	50.00	101	86-127	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Project ID: 05-05-032

Work Order #: 10860

Lab Batch #: 33454

Sample: 30813 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	52.13	50.00	104	65-125	
Bromofluorobenzene	48.28	50.00	97	66-148	
Toluene-d8	50.64	50.00	101	86-127	

Lab Batch #: 33455

Sample: 10860-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	67.06	50.00	134	53-159	
Bromofluorobenzene	48.89	50.00	98	30-186	
Toluene-d8	50.11	50.00	100	83-136	

Lab Batch #: 33455

Sample: 10860-001 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	53.77	50.00	108	53-159	
Bromofluorobenzene	49.89	50.00	100	30-186	
Toluene-d8	51.80	50.00	104	83-136	

Lab Batch #: 33455

Sample: 10860-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	63.50	50.00	127	53-159	
Bromofluorobenzene	49.48	50.00	99	30-186	
Toluene-d8	52.41	50.00	105	83-136	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Project ID: 05-05-032

Work Order #: 10860

Lab Batch #: 33455

Sample: 10860-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	55.34	50.00	111	53-159	
Bromofluorobenzene	50.29	50.00	101	30-186	
Toluene-d8	53.06	50.00	106	83-136	

Lab Batch #: 33455

Sample: 10860-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	62.12	50.00	124	53-159	
Bromofluorobenzene	48.39	50.00	97	30-186	
Toluene-d8	49.51	50.00	99	83-136	

Lab Batch #: 33455

Sample: 10860-004 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	58.55	50.00	117	53-159	
Bromofluorobenzene	49.80	50.00	100	30-186	
Toluene-d8	51.78	50.00	104	83-136	

Lab Batch #: 33455

Sample: 10860-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	53.76	50.00	108	53-159	
Bromofluorobenzene	50.06	50.00	100	30-186	
Toluene-d8	54.45	50.00	109	83-136	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/19/06 13:20

Project ID: 05-05-032

Work Order #: 10860

Lab Batch #: 33455

Sample: 10860-006 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	62.88	50.00	126	53-159	
Bromofluorobenzene	47.20	50.00	94	30-186	
Toluene-d8	46.94	50.00	94	83-136	

Lab Batch #: 33455

Sample: 10860-006 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	54.74	50.00	109	53-159	
Bromofluorobenzene	51.01	50.00	102	30-186	
Toluene-d8	53.87	50.00	108	83-136	

\* Surrogate outside of Laboratory QC limits  
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis  
 \*\*\* Poor recoveries due to dilution  
 Surrogate Recovery [D] = 100 \* A / B  
 All results are based on MDL and validated for QC purposes.  
 Z = Surrogate Recovery exceeded the Laboratory QC limits





14-SEP-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiold

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10855  
Project Name :Interstate Trucking / Ulmer, SC  
Project Number: C-05-05-032

Dear Joe Ghiold :


We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46038 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46038 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 ▪ NC Certification #483

SC Certification #98015 ▪ Utah Certification #AALI1

USACE Approved ▪ Navy Certification Code NFESC 413

*Case Narrative*

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*AAL Work Order # 10855*

**Client Project: Interstate Trucking / Ulmer, SC / C-05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, 5 analytical results pages, and 4 QC surrogate recovery pages.

The following items were noted concerning this work order:

**Select VOCs by SW8260B Notations:**

1. The pH of each sample was <2.0 prior to analysis.
2. MW-2 and MW-3 required dilution due to high analyte concentrations. As a result some other analytes are reported as "Below Reporting Limit" but at elevated detection limits.

Tamara Young

VOC Analyst

September 8, 2006

Date

These Case Narrative Notations have been generated, reviewed, and edited by:

Brian Burns

Brian Burns

Client Services

September 14, 2006

Date



# ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071  
Phone # (770) 449-8800 Fax # (770) 449-5477

## CHAIN OF CUSTODY

Company Name: Consultech Environmental  
 Address: PO Box 5611 Cary NC  
 Results Sent to: (Client Contact): Joe Ghould  
 Email address: \_\_\_\_\_  
 Contact Phone #: 919.861.4313 Fax#: 4317  
 Project (Site) Name: Interstate Trucking Ulmer, S.C.  
 Project Number: C.05.05.1032 Preservation Code: (See below)

Billing address: \_\_\_\_\_  
 P.O.# (if required): \_\_\_\_\_  
 For Laboratory Use Only: \_\_\_\_\_  
 QC Level: 1 2 3 4 CLP-Like \_\_\_\_\_  
 Custody Seal(s): \_\_\_\_\_ Y N Tape \_\_\_\_\_  
 AAL LIMS System ID: \_\_\_\_\_  
 Receiver's Initials/Temp: \_\_\_\_\_  
 AAL Work Order #: \_\_\_\_\_

Sampler(s): (signature)		Sampler(s): (printed)		Analysis Requested										Field Comments:				
<u>Van T Chisholm</u>		<u>Van T. Chisholm</u>																
Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	1	2	3	4	5	6	7	8	9	10	AAL Lab ID:
1	MW. 1	9.6/1200	+	GW	ULMER, S.C.	5	2	2	1									10855
2	MW. 2	9.6/1220	+	GW		5	2	2	1									001
3	MW. 3	9.6/1240	+	GW		5	2	2	1									002
4	WSW. 2	9.6/1300	+	DW		5	2	2	1									003
5																		004
6																		
7																		
8																		
9																		
10																		

1) Relinquished By: Van T Chisholm Date / Time: 9.6.06 1600 2) Received By: UPS Date / Time: \_\_\_\_\_  
 Delivered by: (Circle One) Fed Ex UPS / DHL / AAL Pickup / Hand / Other  
 3) Relinquished By: UPS Date / Time: 9/7/06 1015 4) Received By: Dawn Sengler Date / Time: 9/7/06 1015  
 Turnaround Time Requested: \_\_\_\_\_

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)  
 Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH



# Certificate of Analytical Results 10855

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking / Ulmer, SC

Sample Id: MW-1	Matrix: WATER	% Moisture:
Lab Sample Id: 10855-001	Date Collected: Sep-06-06 12:00	Date Received: Sep-07-06 10:15
Sample Depth:		

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> EXT_SW8011		
Date Analyzed: Sep-08-06 23:45	Analyst: BDW01	Date Prep: Sep-08-06 09:00	Tech: BDW01
Seq Number: 33424			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A		
Date Analyzed: Sep-11-06 13:33	Analyst: OKC01	Date Prep: Sep-08-06 10:00	Tech: MSN01
Seq Number: 33418			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Select VOCs by SW8260B	<b>Prep Method:</b> SW5030B		
Date Analyzed: Sep-07-06 14:45	Analyst: 9999	Date Prep: Sep-07-06 10:00	Tech: TBY01
Seq Number: 33389			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	1.2	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	1.4	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	2.9	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1



# Certificate of Analytical Results 10855

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking / Ulmer, SC

Sample Id: MW-2	Matrix: WATER	% Moisture:
Lab Sample Id: 10855-002	Date Collected: Sep-06-06 12:20	Date Received: Sep-07-06 10:15
Sample Depth:		

Analytical Method: EDB by SW8011	Prep Method: EXT_SW8011
Date Analyzed: Sep-09-06 00:03	Analyst: BDW01
Seq Number: 33424	Date Prep: Sep-08-06 09:00
	Tech: BDW01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.24	0.020	0.0048	ug/L		1

Analytical Method: Lead by SW6010B	Prep Method: SW3010A
Date Analyzed: Sep-11-06 14:07	Analyst: OKC01
Seq Number: 33418	Date Prep: Sep-08-06 10:00
	Tech: MSN01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.109	0.0100	0.00390	mg/L		1

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B
Date Analyzed: Sep-07-06 15:39	Analyst: 9999
Seq Number: 33389	Date Prep: Sep-07-06 10:00
	Tech: TBY01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	180	20	13	ug/L		20
Toluene	108-88-3	4400	100	68	ug/L		100
Ethylbenzene	100-41-4	2200	20	13	ug/L		20
Xylenes, Total	1330-20-7	11000	100	180	ug/L		100
Methyl tert-butyl ether	1634-04-4	BRL	20	12	ug/L		20
Naphthalene	91-20-3	200	100	80	ug/L		20
1,2-Dichloroethane	107-06-2	BRL	100	16	ug/L		20
Diisopropyl ether	108-20-3	BRL	100	18	ug/L		20
Ethanol	64-17-5	BRL	2000	1100	ug/L		20
Ethyl tert-butyl alcohol	590-36-3	BRL	500	340	ug/L		20
Ethyl tert-butyl ether	637-92-3	BRL	100	22	ug/L		20
Tert-Amyl alcohol	75-85-4	BRL	500	300	ug/L		20
tert-Amyl methyl ether	994-05-8	BRL	100	22	ug/L		20
tert-Butyl alcohol	75-65-0	BRL	500	22	ug/L		20
tert-Butyl formate	762-75-4	BRL	500	360	ug/L		20

\*



# Certificate of Analytical Results 10855

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking / Ulmer, SC

Sample Id: MW-3	Matrix: WATER	% Moisture:
Lab Sample Id: 10855-003	Date Collected: Sep-06-06 12:40	Date Received: Sep-07-06 10:15
Sample Depth:		

Analytical Method: EDB by SW8011		Prep Method: EXT_SW8011	
Date Analyzed: Sep-09-06 00:21	Analyst: BDW01	Date Prep: Sep-08-06 09:00	Tech: BDW01
Seq Number: 33424			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0050	ug/L		1

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Sep-11-06 14:13	Analyst: OKC01	Date Prep: Sep-08-06 10:00	Tech: MSN01
Seq Number: 33418			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-07-06 16:32	Analyst: 9999	Date Prep: Sep-07-06 10:00	Tech: TBY01
Seq Number: 33389			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	20	13	ug/L		20
Toluene	108-88-3	29	20	14	ug/L		20
Ethylbenzene	100-41-4	130	20	13	ug/L		20
Xylenes, Total	1330-20-7	650	20	36	ug/L		20
Methyl tert-butyl ether	1634-04-4	BRL	20	12	ug/L		20
Naphthalene	91-20-3	BRL	100	80	ug/L		20
1,2-Dichloroethane	107-06-2	BRL	100	16	ug/L		20
Diisopropyl ether	108-20-3	BRL	100	18	ug/L		20
Ethanol	64-17-5	BRL	2000	1100	ug/L		20
Ethyl tert-butyl alcohol	590-36-3	BRL	500	340	ug/L		20
Ethyl tert-butyl ether	637-92-3	BRL	100	22	ug/L		20
Tert-Amyl alcohol	75-85-4	BRL	500	300	ug/L		20
tert-Amyl methyl ether	994-05-8	BRL	100	22	ug/L		20
tert-Butyl alcohol	75-65-0	BRL	500	22	ug/L		20
tert-Butyl formate	762-75-4	BRL	500	360	ug/L		20

\*



# Certificate of Analytical Results 10855

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking / Ulmer, SC

Sample Id: WSW-2	Matrix: WATER	% Moisture:
Lab Sample Id: 10855-004	Date Collected: Sep-06-06 13:00	Date Received: Sep-07-06 10:15
Sample Depth:		

<b>Analytical Method:</b> EDB by SW8011	<b>Prep Method:</b> EXT_SW8011		
Date Analyzed: Sep-09-06 00:38	Analyst: BDW01	Date Prep: Sep-08-06 09:00	Tech: BDW01
	Seq Number: 33424		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0047	ug/L		1

<b>Analytical Method:</b> Lead by SW6010B	<b>Prep Method:</b> SW3010A		
Date Analyzed: Sep-11-06 14:18	Analyst: OKC01	Date Prep: Sep-08-06 10:00	Tech: MSN01
	Seq Number: 33418		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

<b>Analytical Method:</b> Select VOCs by SW8260B	<b>Prep Method:</b> SW5030B		
Date Analyzed: Sep-07-06 15:12	Analyst: 9999	Date Prep: Sep-07-06 10:00	Tech: TBY01
	Seq Number: 33389		

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1



# Certificate of Analytical Results 10855

Consultech Environmental, Inc., Cary, NC

Interstate Trucking / Ulmer, SC

Sample Id: 30772 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30772 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5030B	
Date Analyzed: Sep-07-06 12:30	Analyst: 9999	Date Prep: Sep-07-06 10:00	Tech: TBY01
Seq Number: 33389			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: 30779 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30779 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Lead by SW6010B		Prep Method: SW3010A	
Date Analyzed: Sep-11-06 11:13	Analyst: OKC01	Date Prep: Sep-08-06 10:00	Tech: MSN01
Seq Number: 33418			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Sample Id: 30784 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30784 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: EDB by SW8011		Prep Method: EXT_SW8011	
Date Analyzed: Sep-08-06 17:15	Analyst: BDW01	Date Prep: Sep-08-06 09:00	Tech: BDW01
Seq Number: 33424			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking / Ulmer, SC

Report Date: 09/14/06 15:47

Project ID: C-05-05-032

Work Order #: 10855

Lab Batch #: 33424

Sample: 10855-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.5	5.0	90	60-140	

Lab Batch #: 33424

Sample: 10855-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.3	5.0	86	60-140	

Lab Batch #: 33424

Sample: 10855-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.7	4.9	96	60-140	

Lab Batch #: 33424

Sample: 10855-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.5	4.9	92	60-140	

Lab Batch #: 33424

Sample: 10855-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.8	5.1	94	60-140	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits

# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking / Ulmer, SC

Report Date: 09/14/06 15:47

Project ID: C-05-05-032

Work Order #: 10855

Lab Batch #: 33424

Sample: 10855-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	5.4	5.1	106	60-140	

Lab Batch #: 33424

Sample: 10855-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.2	4.8	88	60-140	

Lab Batch #: 33424

Sample: 10855-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.0	4.8	83	60-140	

Lab Batch #: 33424

Sample: 30784 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	4.1	5.0	82	60-140	

Lab Batch #: 33424

Sample: 30784 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	3.8	5.0	76	60-140	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits

# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking / Ulmer, SC

Report Date: 09/14/06 15:47

Project ID: C-05-05-032

Work Order #: 10855

Lab Batch #: 33389

Sample: 10855-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	61.46	50.00	123	53-159	
Bromofluorobenzene	50.96	50.00	102	30-186	
Toluene-d8	54.48	50.00	109	83-136	

Lab Batch #: 33389

Sample: 10855-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	67.29	50.00	135	53-159	
Bromofluorobenzene	48.57	50.00	97	30-186	
Toluene-d8	50.40	50.00	101	83-136	

Lab Batch #: 33389

Sample: 10855-002 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	59.10	50.00	118	53-159	
Bromofluorobenzene	52.75	50.00	106	30-186	
Toluene-d8	56.61	50.00	113	83-136	

Lab Batch #: 33389

Sample: 10855-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	74.44	50.00	149	53-159	
Bromofluorobenzene	54.23	50.00	108	30-186	
Toluene-d8	55.46	50.00	111	83-136	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits

# Form 2 - Surrogate Recoveries

**Project Name: Interstate Trucking / Ulmer, SC**

**Report Date: 09/14/06 15:47**

**Project ID: C-05-05-032**

**Work Order #: 10855**

**Lab Batch #: 33389**

**Sample: 10855-004 / SMP**

**Batch: 1 Matrix: W**

**Units: ug/L**

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	64.36	50.00	129	53-159	
Bromofluorobenzene	52.93	50.00	106	30-186	
Toluene-d8	55.66	50.00	111	83-136	

**Lab Batch #: 33389**

**Sample: 30772 BLK / BLK**

**Batch: 1 Matrix: W**

**Units: ug/L**

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	58.56	50.00	117	65-125	
Bromofluorobenzene	51.95	50.00	104	66-148	
Toluene-d8	54.51	50.00	109	86-127	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



07-SEP-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiould

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10807  
Project Name :Interstate Trucking  
Project Number: 05-05-032

Dear Joe Ghiould :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46011 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

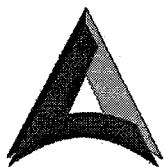
The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46011 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

David Fuller  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 ▪ NC Certification #483

SC Certification #98015 ▪ Utah Certification #AALI1

USACE Approved ▪ Navy Certification Code NFESC 413

*Case Narrative*

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**AAL Work Order # 10807**

**Client Project: Interstate Trucking / 05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, 1 analytical results page, and 1 QC surrogate recovery page.

The following items were noted concerning this work order:

**Select VOCs by SW8260B Notations:**

1. The Matrix Spike Duplicate recoveries for Benzene and Toluene and The Relative Percent Differences (RPDs) between the Matrix Spike and Matrix Spike Duplicate (MS/MSD) for all analytes in this submittal were outside the laboratory control limits possibly due to sample heterogeneity. The Laboratory Blank Spike sample recoveries were within the acceptable limits; therefore the data satisfies the method requirements. (Note: the sample used for MS/MSD was not from this submittal.)

Gary Blackmon

VOC Analyst

August 31, 2006

Date

**Project Manager's Notations:**

1. The soil sample results are reported on a wet weight basis. (No moisture correction applied)

This Case Narrative & Notations have been generated, reviewed, and edited by:

David C. Fuller

VP - Client Services

September 08, 2006

Date



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

CHAIN OF CUSTODY

Page 46011 of 4

6017 Financial Drive, Norcross, GA 30071  
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Consultech Billing address: \_\_\_\_\_

Address: \_\_\_\_\_ P.O.# (if required): \_\_\_\_\_

Results Sent to: (Client Contact): Joe Ghiold

Email address: \_\_\_\_\_

Contact Phone #: \_\_\_\_\_ Fax#: \_\_\_\_\_

Project (Site) Name: Interstate Trucking

Project Number: 05-05-032 Preservation Code: (See below)

For Laboratory Use Only  
 AAL LIMS System ID: M0281  
 Operator: Initials/Temp: \_\_\_\_\_  
 Sample Status: Y/N Type: \_\_\_\_\_  
 AAL Work Order #: \_\_\_\_\_

Analysis Requested

Field Comments: 10207

Line No.	Sample ID #	Sample Date / Time	Sampler(s): (signature)		Sampler(s): (printed)		No. of Containers	Analysis Requested	Field Comments	AAL Lab ID:
			Composite	Grab	Matrix (See below)	Sample Location				
1	GW-01	8/23/06 1015	✓				2			10207
2	GW-02	8/23/06 1115	✓				2			10207
3	GW-03	8/23/06 1200	✓				2			10207
4	GW-04	8/23/06 1240	✓				2			10207
5	GW-05	8/23/06 1310	✓				2			10207
6	GW-06	8/23/06 1330	✓				2			10207
7										
8	05-05-032	8/23/06					3			Standard turn
9										
10										

1) Relinquished By: [Signature] Date / Time: 8/23/06  
 2) Received By: [Signature] Date / Time: 8/23/06 1140  
 3) Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 4) Received By: [Signature] Date / Time: 8/23/06 1140  
 Delivered by: (Circle One) Fed Ex / UPS / DHL / AAL Pickup / Hand / Other  
 Turnaround Time Requested: [Signature]

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)  
 Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH



# Certificate of Analytical Results 10807

Consultech Environmental, Inc., Cary, NC  
Interstate Trucking

Sample Id: 05-05-032	Matrix: SOIL	% Moisture:
Lab Sample Id: 10807-001	Date Collected: Aug-23-06 10:30	Date Received: Aug-25-06 11:40
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5035	
Date Analyzed: Aug-30-06 14:56	Analyst: GB01	Date Prep: Aug-30-06 09:34	Tech: GB01
Seq Number: 33318			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.3	1.0	0.71	ug/kg		1
Toluene	108-88-3	1.7	1.0	0.87	ug/kg		1
Ethylbenzene	100-41-4	BRL	1.0	0.87	ug/kg		1
Xylenes, Total	1330-20-7	BRL	2.0	1.9	ug/kg		1
Naphthalene	91-20-3	BRL	5.0	0.85	ug/kg		1

Sample Id: 30719 BLK	Matrix: SOIL	% Moisture:
Lab Sample Id: 30719 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B		Prep Method: SW5035MOD	
Date Analyzed: Aug-30-06 12:13	Analyst: GB01	Date Prep: Aug-30-06 09:34	Tech: GB01
Seq Number: 33318			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.71	ug/kg		1
Toluene	108-88-3	BRL	1.0	0.87	ug/kg		1
Ethylbenzene	100-41-4	BRL	1.0	0.87	ug/kg		1
Xylenes, Total	1330-20-7	BRL	2.0	1.9	ug/kg		1
Naphthalene	91-20-3	BRL	5.0	0.85	ug/kg		1

\*





## Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 09/07/06 15:27

Project ID: 05-05-032

Work Order #: 10807

Lab Batch #: 33318

Sample: 10807-001 / SMP

Batch: 1 Matrix: S

Units: ug/kg

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	49.25	50.00	99	83-136	
4-Bromofluorobenzene	55.17	50.00	110	76-161	
Toluene-d8	46.86	50.00	94	80-127	

Lab Batch #: 33318

Sample: 30719 BLK / BLK

Batch: 1 Matrix: S

Units: ug/kg

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	45.89	50.00	92	63-135	
4-Bromofluorobenzene	56.10	50.00	112	79-122	
Toluene-d8	45.55	50.00	91	86-112	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



28-AUG-06

Consultech Environmental, Inc.  
PO Box 5611  
Cary, NC 27512  
Client Contact: Joe Ghiould

Reference: Accura Analytical Laboratory, Inc. (AAL) Work Order No: 10803  
Project Name :Interstate Trucking  
Project Number: 05-05-032

Dear Joe Ghiould :

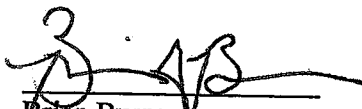
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Chain of Custody(s) Numbered 46011 . All results being reported under this Chain of Custody apply to the samples analyzed and properly identified with an AAL Sample ID number.

All the results for the quality control samples were reviewed. Also, all parameters for data reduction and validation were reviewed. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by AAL. This report will be filed for at least 7 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 46011 will be filed for 90 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Accura Analytical Laboratory Inc. to serve your analytical needs. If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

  
Brian Burns  
Project Manager

6017 Financial Drive Norcross, GA 30071  
Phone: 770-449-8800 Fax: 770-449-5477



# ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

## CHAIN OF CUSTODY

Page 46011 of 1

6017 Financial Drive, Norcross, GA 30071  
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Consultech

Address: \_\_\_\_\_

Billing address: \_\_\_\_\_

Results Sent to: (Client Contact): Joe Ghield

P.O.# (if required): \_\_\_\_\_

Email address: \_\_\_\_\_

Contact Phone #: \_\_\_\_\_

Fax#: \_\_\_\_\_

Project (Site) Name: Interstate Trucking

Project Number: 05-05-032

For Laboratory Use Only:

QC Level (1) 2 3 4 CLP-Like

AAL LIMS System ID: 14637

Custody Seal(s): Y N Tape

Receiver's Initials/Temp: \_\_\_\_\_

AAL Work Order #: 10803

Analysis Requested

Sampler(s): (signature) \_\_\_\_\_

Preservation Code: (See below)

Sampler(s): (printed)

Field Comments: 1080

Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	Analysis Requested	Field Comments	AAL Lab ID
1	GW-01	8/23/06 1015		✓			2			10803
2	GW-02	8/23/06 1115		✓			2			001
3	GW-03	8/23/06 1200		✓			2			002
4	GW-04	8/23/06 1240		✓			2			003
5	GW-05	8/23/06 1310		✓			2			004
6	GW-06	8/23/06 1320		✓			2			005
7							2			006
8	05-05-032	8/23/06					3			
9									Standard turn	10807-001
10										

1) Relinquished By: [Signature] Date / Time: 8/23/06

2) Received By: [Signature] Date / Time: 8/23/06 1140

Delivered by: (Circle One)  
Fed Ex / UPS / DHL / AAL Pickup / Hand / Other

3) Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_

4) Received By: [Signature] Date / Time: 8/25/06 1140

Turnaround Time Requested:  
100% RUSH

Matrix Guide: (W=Water) (DW=Drinking Water) (GW=Groundwater) (SW=Surface Water) (L=Liquid) (O=Oil) (S=Soil) (SD=Solid) (SL=Sludge) (A=Air) (C=Air Cartridge)  
Preservation Codes: 1=HCL / 2=HNO<sub>3</sub> / 3=H<sub>2</sub>SO<sub>4</sub> / 4=NaOH+NaAsO<sub>2</sub> / 5=NaOH+ZnAc / 6=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> / 7=NaHSO<sub>4</sub> / 8=MeOH



**ACCURA ANALYTICAL LABORATORY, INC. (AAL)**

6017 Financial Drive, Norcross, GA 30071, Phone: (770) 449-8800

FL Certification #E87429 • NC Certification #483

SC Certification #98015 • Utah Certification #AALI1

USACE Approved • Navy Certification Code NFESC 413

*Case Narrative*

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*AAL Work Order # 10803*

**Client Project: Interstate Trucking / 05-05-032**

Accura Analytical Laboratory Inc. certifies that the results meet all requirements of the NELAC Standards.

The data package includes a 1 page case narrative, 1 Chain of Custody page, 3 analytical results pages, and 3 QC surrogate recovery pages.

The following items were noted concerning this work order:

**Receiving Notations:**

1. Upon receipt, air bubbles greater than ¼ inch were noted in all vials submitted for GW-01.

Dawn Sengsourichanfi

Receiving

August 25, 2006

Date

**Select VOCs by SW8260B Notations:**

1. The pH of each sample was <2.0 prior to analysis.

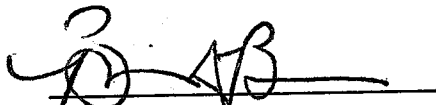
Mei Liang

Mei Liang

August 28, 2006

Date

These Case Narrative Notations have been generated, reviewed, and edited by:

  
Brian Burns  
Client Services

August 28, 2006

Date



# Certificate of Analytical Results 10803

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: <b>GW-01</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-001</b>	Date Collected: <b>Aug-22-06 10:15</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>		Prep Method: <b>SW5030B</b>	
Date Analyzed: <b>Aug-25-06 13:02</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Aug-25-06 08:30</b>	Tech: <b>MJL01</b>
Seq Number: <b>33255</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.4	1.0	0.30	ug/L		1
Toluene	108-88-3	14	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	2.1	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	11	1.0	0.74	ug/L		1

Sample Id: <b>GW-02</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-002</b>	Date Collected: <b>Aug-22-06 11:15</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>		Prep Method: <b>SW5030B</b>	
Date Analyzed: <b>Aug-25-06 13:29</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Aug-25-06 08:30</b>	Tech: <b>MJL01</b>
Seq Number: <b>33255</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	2.5	1.0	0.30	ug/L		1
Toluene	108-88-3	19	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	2.7	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	13	1.0	0.74	ug/L		1

Sample Id: <b>GW-03</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-003</b>	Date Collected: <b>Aug-22-06 12:00</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>		Prep Method: <b>SW5030B</b>	
Date Analyzed: <b>Aug-25-06 13:55</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Aug-25-06 08:30</b>	Tech: <b>MJL01</b>
Seq Number: <b>33255</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	1.8	1.0	0.30	ug/L		1
Toluene	108-88-3	16	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	2.5	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	13	1.0	0.74	ug/L		1

\*



# Certificate of Analytical Results 10803

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: <b>GW-04</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-004</b>	Date Collected: <b>Aug-22-06 12:40</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>	Prep Method: <b>SW5030B</b>		
Date Analyzed: <b>Aug-25-06 14:22</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Aug-25-06 08:30</b>	Tech: <b>MJL01</b>
Seq Number: <b>33255</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	150	10	3.0	ug/L		10
Toluene	108-88-3	2900	100	25	ug/L		100
Ethylbenzene	100-41-4	340	10	1.9	ug/L		10
Xylenes, Total	1330-20-7	1500	10	7.4	ug/L		10

Sample Id: <b>GW-05</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-005</b>	Date Collected: <b>Aug-22-06 13:10</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>	Prep Method: <b>SW5030B</b>		
Date Analyzed: <b>Aug-28-06 09:53</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Aug-28-06 07:00</b>	Tech: <b>MJL01</b>
Seq Number: <b>33264</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.30	ug/L		1
Toluene	108-88-3	7.6	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	1.2	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	5.1	1.0	0.74	ug/L		1

Sample Id: <b>GW-06</b>	Matrix: <b>WATER</b>	% Moisture:
Lab Sample Id: <b>10803-006</b>	Date Collected: <b>Aug-22-06 13:30</b>	Date Received: <b>Aug-25-06 11:40</b>
Sample Depth:		

Analytical Method: <b>Select VOCs by SW8260B</b>	Prep Method: <b>SW5030B</b>		
Date Analyzed: <b>Aug-25-06 15:15</b>	Analyst: <b>MJL01</b>	Date Prep: <b>Aug-25-06 08:30</b>	Tech: <b>MJL01</b>
Seq Number: <b>33255</b>			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.30	ug/L		1
Toluene	108-88-3	2.5	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	0.74	ug/L		1



# Certificate of Analytical Results 10803

Consultech Environmental, Inc., Cary, NC

Interstate Trucking

Sample Id: 30677 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30677 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Aug-25-06 10:59	Analyst: MJL01	Date Prep: Aug-25-06 08:30	Tech: MJL01
Seq Number: 33255			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.30	ug/L		1
Toluene	108-88-3	BRL	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	0.74	ug/L		1

Sample Id: 30682 BLK	Matrix: WATER	% Moisture:
Lab Sample Id: 30682 BLK	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: Select VOCs by SW8260B	Prep Method: SW5030B		
Date Analyzed: Aug-28-06 09:16	Analyst: MJL01	Date Prep: Aug-28-06 07:00	Tech: MJL01
Seq Number: 33264			

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.30	ug/L		1
Toluene	108-88-3	BRL	1.0	0.25	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.19	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	0.74	ug/L		1



# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 08/28/06 17:26

Project ID: 05-05-032

Work Order #: 10803

Lab Batch #: 33255

Sample: 10803-001 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	54.7	50.0	109	53-159	
Bromofluorobenzene	51.5	50.0	103	30-186	
Toluene-d8	58.9	50.0	118	53-152	

Lab Batch #: 33255

Sample: 10803-002 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	57.0	50.0	114	53-159	
Bromofluorobenzene	51.8	50.0	104	30-186	
Toluene-d8	58.1	50.0	116	53-152	

Lab Batch #: 33255

Sample: 10803-003 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	62.3	50.0	125	53-159	
Bromofluorobenzene	55.4	50.0	111	30-186	
Toluene-d8	59.0	50.0	118	53-152	

Lab Batch #: 33255

Sample: 10803-004 / SMP

Batch: 1 Matrix: W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,2-Dichloroethane-d4	65.1	50.0	130	53-159	
Bromofluorobenzene	52.2	50.0	104	30-186	
Toluene-d8	55.3	50.0	111	53-152	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits





# Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 08/28/06 17:26

Project ID: 05-05-032

Work Order #: 10803

Lab Batch #: 33255

Sample: 10803-006 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	56.5	50.0	113	53-159	
Bromofluorobenzene	51.5	50.0	103	30-186	
Toluene-d8	56.8	50.0	114	53-152	

Lab Batch #: 33255

Sample: 30677 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	54.4	50.0	109	49-146	
Bromofluorobenzene	50.9	50.0	102	77-117	
Toluene-d8	58.4	50.0	117	71-133	

Lab Batch #: 33264

Sample: 10803-004 DL / DIL

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	56.7	50.0	113	53-159	
Bromofluorobenzene	51.9	50.0	104	30-186	
Toluene-d8	55.9	50.0	112	53-152	

Lab Batch #: 33264

Sample: 10803-005 / SMP

Batch: 1 Matrix: W

Units: ug/L

## SURROGATE RECOVERY STUDY

Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	54.5	50.0	109	53-159	
Bromofluorobenzene	51.0	50.0	102	30-186	
Toluene-d8	56.2	50.0	112	53-152	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits



## Form 2 - Surrogate Recoveries

Project Name: Interstate Trucking

Report Date: 08/28/06 17:26

Project ID: 05-05-032

Work Order #: 10803

Lab Batch #: 33264

Sample: 30682 BLK / BLK

Batch: 1 Matrix: W

Units: ug/L

### SURROGATE RECOVERY STUDY

Select VOCs by SW8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	53.7	50.0	107	49-146	
Bromofluorobenzene	48.6	50.0	97	77-117	
Toluene-d8	53.5	50.0	107	71-133	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] =  $100 * A / B$

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Laboratory QC limits

**APPENDIX 5**  
**FIELD DATA**



Summary of Slug Test  
Division of Underground Storage Tank Management

Site Data

UST Permit #: 332 County: ALLENDALE  
Facility Name: INTERSTATE TRUCK RENTAL

Slug Data

See Appendix 7 Table \_\_\_\_\_ Figure \_\_\_\_\_ for a list of all data measurements. [water level logs, etc. (complete as appropriate)].

Water Level Recovery Data was measured by: WATER LEVEL INDICATOR  
[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	MW-2	MW-3	MW-5R
Initial Rise/Drawdown in Well (feet)	1.31	.06	.61
Radius of Well Casing (feet)	.083		
Effective Radius of Well (feet)	.1666		
Static Saturated Aquifer Thickness (feet)	3.91	5.86	3.81
Length of Well Screen (feet)	10	10	10
Static Height of Water Column in Well (ft)	3.91	5.86	3.81

Calculations

See Appendix 7 Table \_\_\_\_\_ Figure \_\_\_\_\_ for calculations (complete as appropriate).

The method for aquifer calculations was BOUWER-RICE (i.e. Bouwer-Rice, Cooper, etc.).

Calculated values by well were as follows:

Slug Test Conducted in Well(s) Number	MW-2	MW-3	MW-5R
Hydraulic Conductivity FT/DAY	14.66	21.76	25.06

Thickness of the aquifer used to calculate hydraulic conductivity was \_\_\_\_\_ feet.

The aquifer is \_\_\_\_\_ confined  semi-confined \_\_\_\_\_ water table (check as appropriate).

The estimated seepage velocity is 274 feet per year based on

a hydraulic conductivity of 20.49'/d. a hydraulic gradient of .011'/ft and

a porosity of .30 percent for SANDY soil (list type i.e., silty sand, clay, etc).

14.66ft/day MW-2  
21.76ft/day MW-3  
25.06ft/day MW-5R

---

$$61.48 \text{ ft/day} / 3 = 20.49 \text{ ft/day}$$

---

$$73.85 \text{ ft} - 72.87 \text{ ft} / 90 \text{ ft} = .98 / 90 = .011 \text{ ft/ft}$$

---

$$20.49 \text{ ft/day} \times .011 \text{ ft/ft} / .30 =$$

.75 ft/day or 274 ft/year

MW-3

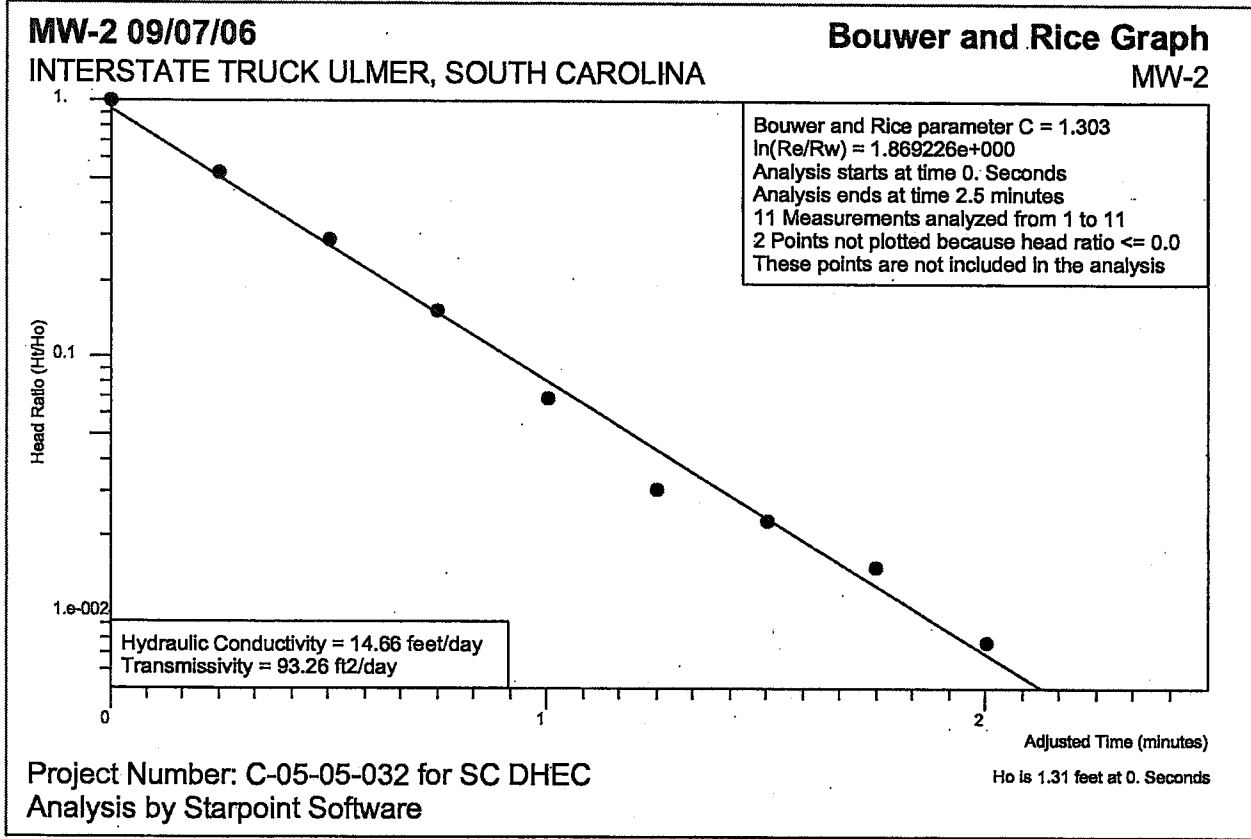
29.14  
.25 29.20  
.5 29.17  
.75 29.15  
1.0 29.14

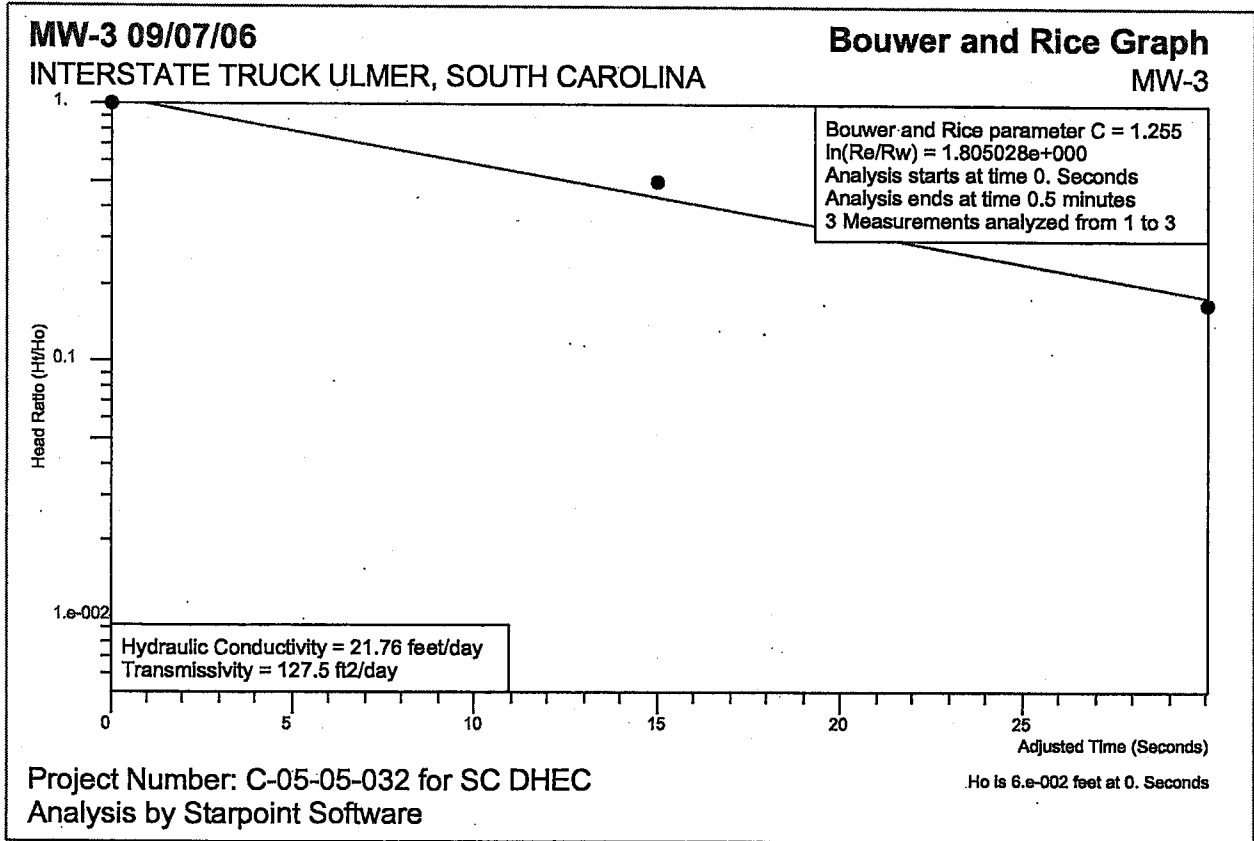
MW-5R

31.19  
.25 31.7  
.5 31.5  
.75 31.28  
1.0 31.24  
1.25 31.21  
1.5 31.19

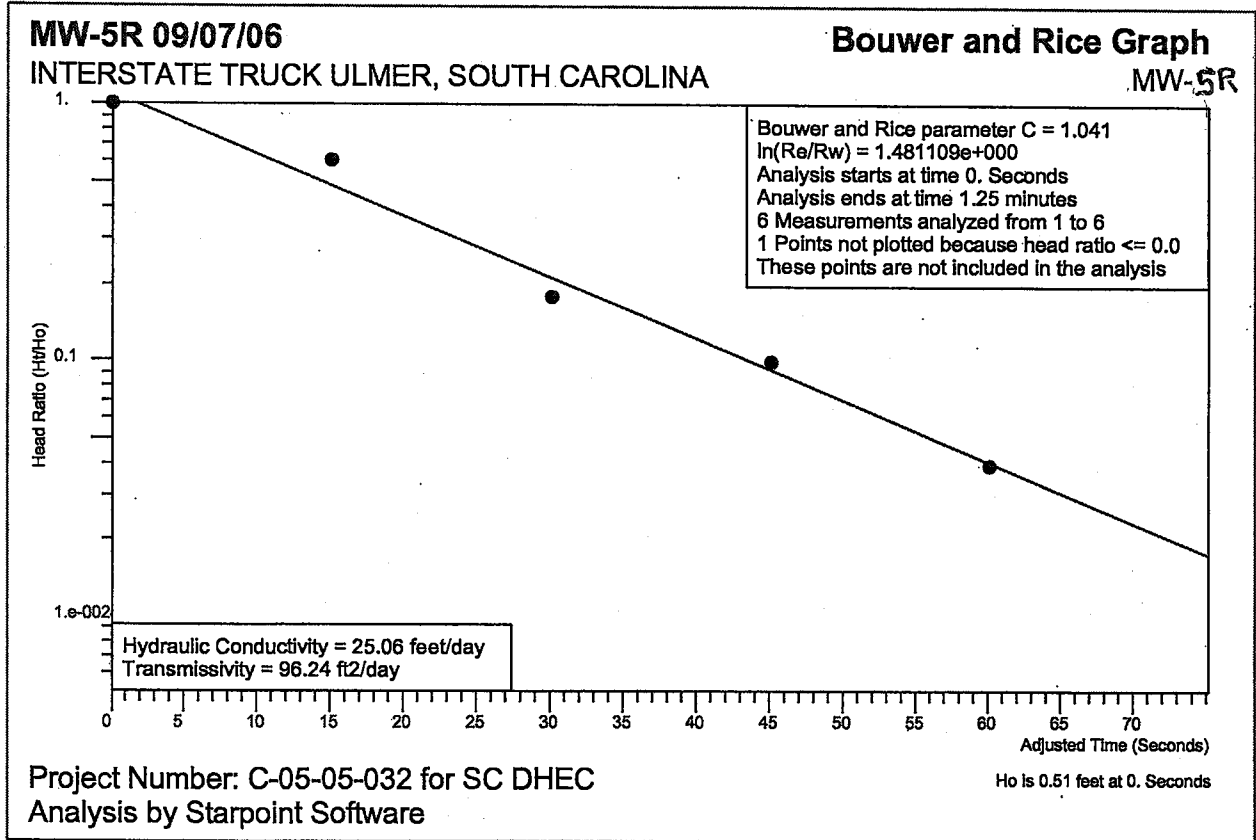
MW-2

31.09  
.25 32.40  
.5 31.78  
.75 31.47  
1.0 31.29  
1.25 31.18  
1.5 31.31  
1.75 31.12  
2.0 31.11  
2.25 31.1









**APPENDIX 6**  
**SURVEY PLAT**

BAXTER LAND SURVEYING CO., INC.  
 533 HARDEN STREET COLUMBIA, SC 29205  
 803-252-8564

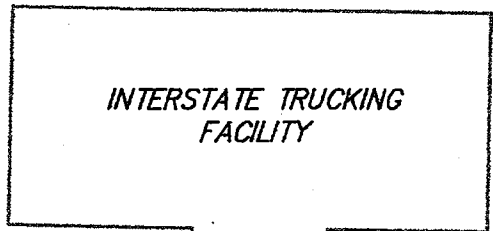
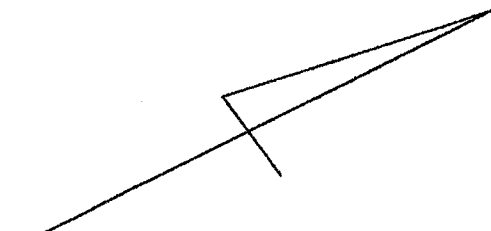
OCTOBER 17, 2006

C-05-03-032

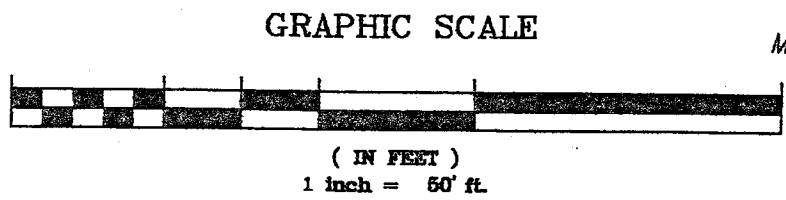
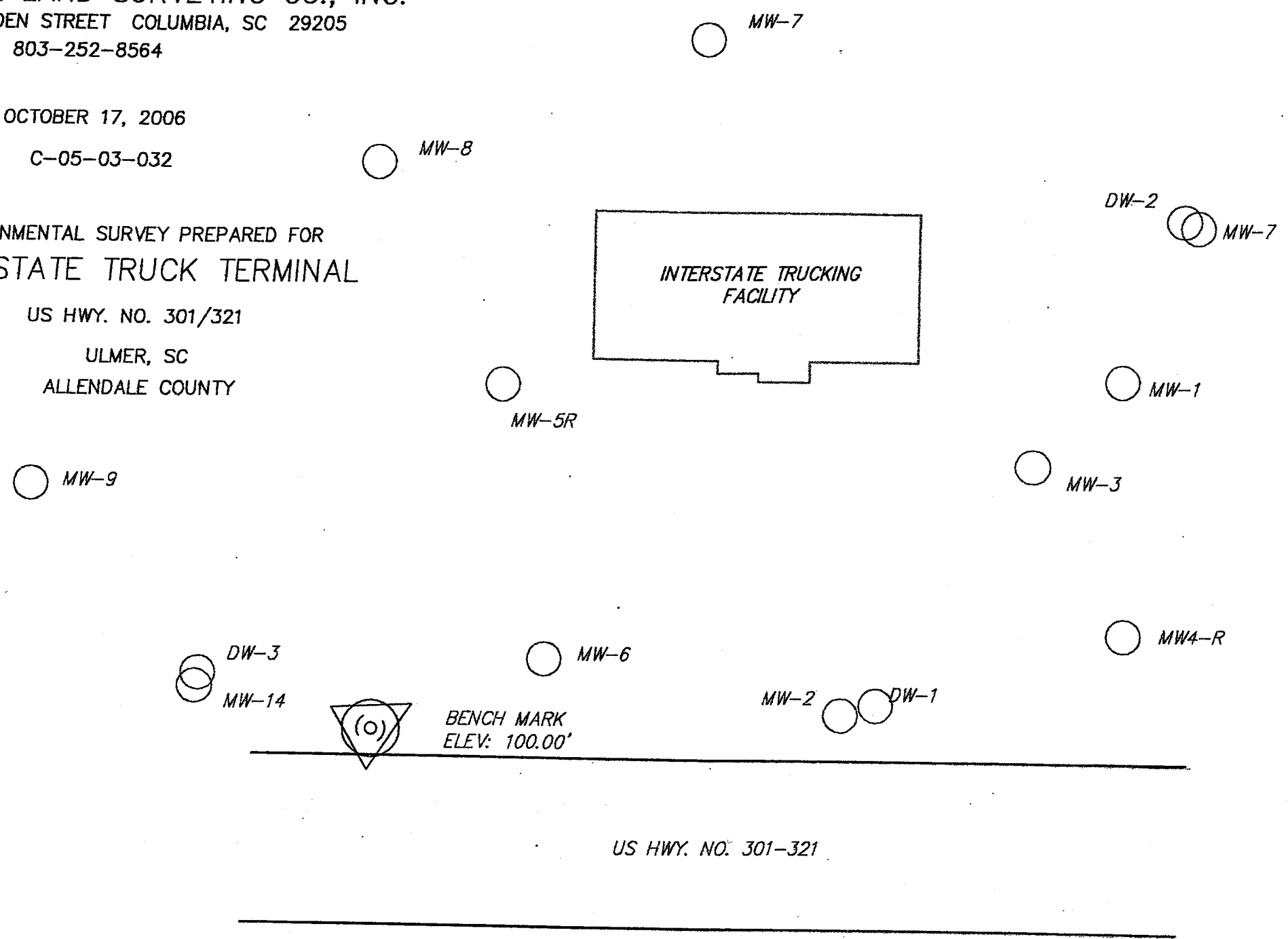
ENVIRONMENTAL SURVEY PREPARED FOR  
 INTERSTATE TRUCK TERMINAL

US HWY. NO. 301/321

ULMER, SC  
 ALLENDALE COUNTY



MW #	TOP OF CASING
DW 1	102.22'
DW 2	102.59'
DW 3	99.53'
DW 4	99.86'
MW 1	103.24'
MW 2	102.49'
MW 3	103.46'
MW 4R	101.87'
MW 5R	103.94'
MW 6	101.38'
MW 7	104.36'
MW 8	102.76'
MW 9	99.67'
MW 10	102.33'
MW 11	100.40'
MW 12	99.29'
MW 13	99.71'
MW 14	99.32'



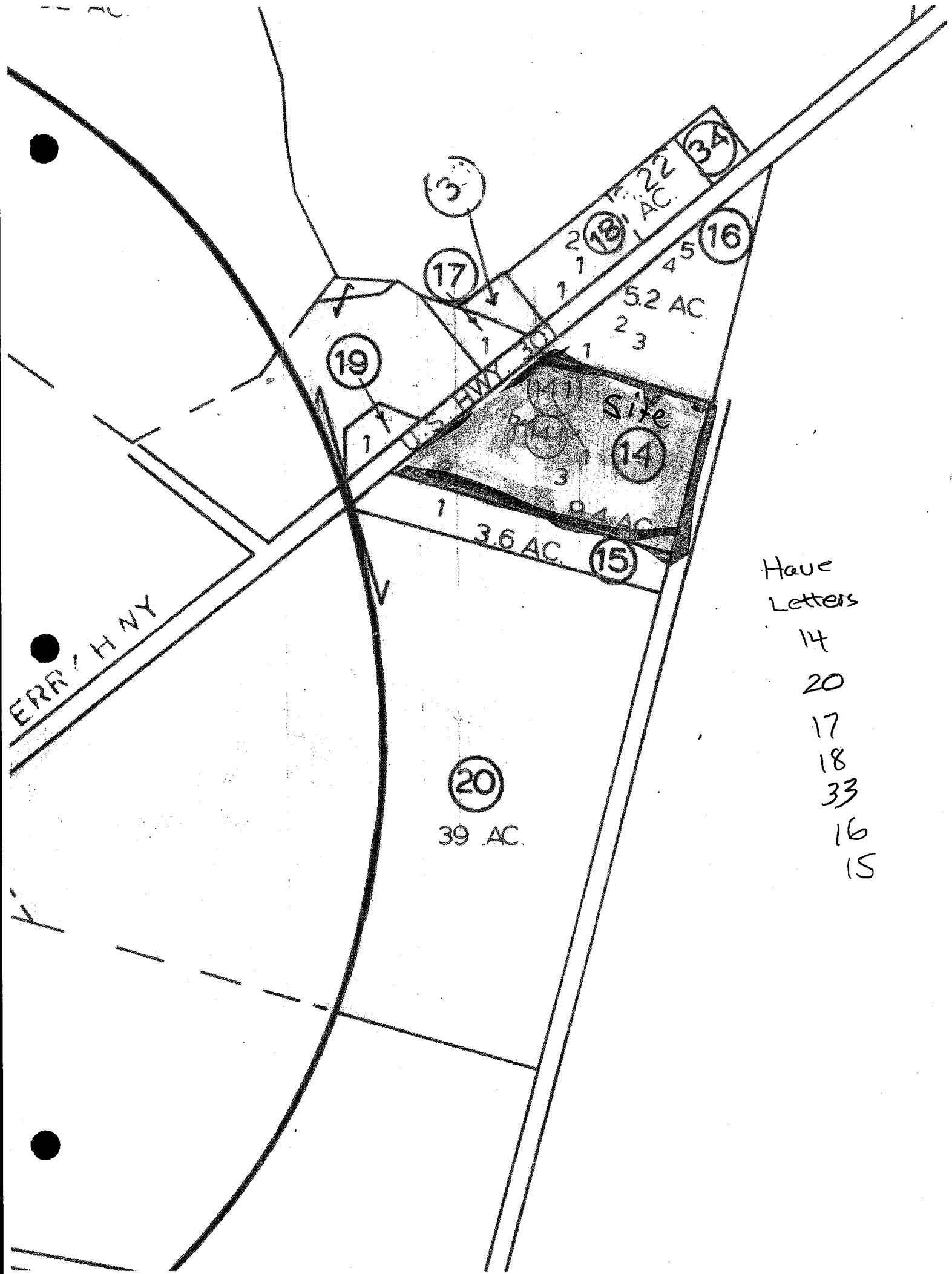
*Rosser W. Baxter Jr.*

ROSSER W. BAXTER JR. SCPLS NO. 7613

**APPENDIX 7**  
**TAX MAP AND SURROUNDING**  
**PROPERTY OWNERS**

**Adjacent Property Owners**  
**Interstate truck Terminal UST #332**  
**Allendale County**

<u>Tax map and parcel #</u> <b>SITE</b>	<u>Owner name and address</u>
131-14	Mr. Julius Moody Rte. 3 Box 192B, Bamberg, 29003 803-245-4470
131-15	Carlyle Moody 1375 Capernaum Rd. Bamberg
131-17	Francesca Maracle PO Box 6 Ulmer 29849
131-33	Mary Anne Johnson 155 Bird Dog Rd. Ehrardt
131-19	Town of Ulmer PO Box 128 Ulmer 29849
131-20	Same as above
	Hector F. Avelar PO Box 1907 Hardeeville 29927
	Wilma M. McCain 101 Lake Margaret Dr. Denmark, SC 29042



Have  
Letters

14

20

17

18

33

16

15



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, Frances Maracle, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-015 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans  
Company Representative

8-23-05  
Date

Consultech Environmental, Inc.  
Telephone Number (678) 377-0400  
Fax Number (678) 377-0051  
C-32

Agreed and Consented to giving access:

Frances Maracle  
Property Owner's Signature

Frances Maracle  
Printed Name

Access Denied:

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, Carlyle Moody, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-014 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Casey Evans

Company Representative

8-23-05

Date

Consultech Environmental, Inc.  
 Telephone Number (678) 377-0400  
 Fax Number (678) 377-0051  
 C-033

Agreed and Consented to giving access:

W. E. Myrick, Jr. Esq.

Property Owner's Signature  
 William E. Myrick, Jr. Agent for  
Carlyle Moody

Printed Name

Access Denied:

\_\_\_\_\_  
 Property Owner's Signature

\_\_\_\_\_  
 Printed Name



**RIGHT OF ENTRY AND PERMISSION FORM**

**UNDERGROUND STORAGE TANK AND PROPERTY OWNER**

Interstate Truck Terminal, Highways 301 & 321, Ulmer, SC, Allendale County, UST Permit # 00332

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, JULIUS MOODY, certify that I am the legal owner of the underground storage tanks and property located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (SCDHEC) or its contractors to enter this property at reasonable times only to accomplish site assessment and liquid removal activities. I understand that SCDHEC will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of the results of each activity.

Name of Facility INTERSTATE TRUCK TERMINAL Phone # N/A

Street Address of Facility HIGHWAYS 301 and 321

Town, City, District, Suburb ULMER, SOUTH CAROLINA

Name of nearest intersecting street, road, highway, alley  
301 North

Is this facility within the city limits? (yes or no) YES

Does a public water or sewer utility service this facility? (yes or no) no. If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines.  
name \_\_\_\_\_  
phone number \_\_\_\_\_

Were underground storage tanks previously removed from the ground at this facility? (yes or no) no  
If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation  
name \_\_\_\_\_  
Phone number \_\_\_\_\_

Is the property currently leased or rented to someone? (yes or no) no. If yes, please provide their name \_\_\_\_\_ and phone number \_\_\_\_\_ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before assessment activities begin.

NAME of UST/property owner (Please Print): JULIUS MOODY

Contact Person: William E. Myrick, Jr.

Phone Number (home) (803)584-4333 (work) NOT WORKING

Signature of UST/property Owner: Julius Moody

Witness: W E Myrick Jr Esq.

Date: May Month 15th Day 2002 Year



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-017, 131-00-00-018, 131-00-00-033 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans

Company Representative

8-23-05

Date

**Consultech Environmental, Inc.**

Telephone Number (678) 377-0400

Fax Number (678) 377-0051

C-033

**Agreed and Consented to giving access:**

[Handwritten Signature]

Property Owner's Signature

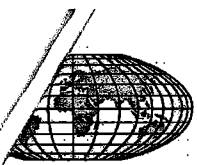
J. Fleetwood Stokes, Jr.

Printed Name

**Access Denied:**

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, Mary A. Brown Jones, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-016 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans

Company Representative

8-23-05

Date

**Consultech Environmental, Inc.**

Telephone Number (678) 377-0400

Fax Number (678) 377-0051

C-033

**Agreed and Consented to giving access:**

Mary A. Brown Jones

Property Owner's Signature

Mary A. Brown Jones

Printed Name

**Access Denied:**

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I Sandra A. McElveen hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assign the right to enter upon the property located 6912 Salem Rd. for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- > Drilling of soil test boring(s);
- > Installation of groundwater monitoring well(s);
- > Measuring depth to groundwater, about once every three months;
- > Collection of groundwater samples, about once every three months; or
- > Maintenance of the monitoring well(s).

Access to the monitoring well(s) will be needed for a time period not likely to exceed three to five years after well installation is completed. The property owner will be notified at least 48 hour in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Company Representative

8/11/06  
Date

Consultech Environmental, Inc.  
Telephone Number (919) 861-4319  
Fax Number (919) 858-5351

Agreed and Consented to giving access:

Sandra A. McElveen  
Property Owner's Signature

Sandra A. McElveen  
Printed Name

843-659-4806  
Jennifer M. Johnson  
@ Post Office  
843-659-4616

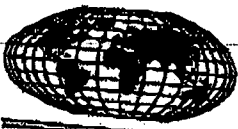
Access Denied:

Property Owner's Signature

Printed Name

c.  
Property directly in front of site across Salem Rd

530 Pylon Drive \* Raleigh, North Carolina 27606  
(919) 861-4319 \* FAX (919) 858-5351



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_ hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assign the right to enter upon the property located \_\_\_\_\_ for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- > Drilling of soil test boring(s);
- > Installation of groundwater monitoring well(s);
- > Measuring depth to groundwater, about once every three months;
- > Collection of groundwater samples, about once every three months; or
- > Maintenance of the monitoring well(s).

Access to the monitoring well(s) will be needed for a time period not likely to exceed three to five years after well installation is completed. The property owner will be notified at least 48 hour in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.  
This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

\_\_\_\_\_  
Company Representative

\_\_\_\_\_  
Date

Consultech Environmental, Inc.  
Telephone Number (919) 861-4319  
Fax Number (919) 858-5351

Agreed and Consented to giving access:

Charlotte McGee  
Property Owner's Signature

Charlotte McGee  
Printed Name

*talked to store owner gave you the permission sign for*

Access Denied:

*across old Manning Rd*

\_\_\_\_\_  
Property Owner's Signature



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assign the right to enter upon the property located \_\_\_\_\_ for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- > Drilling of soil test boring(s);
- > Installation of groundwater monitoring well(s);
- > Measuring depth to groundwater, about once every three months;
- > Collection of groundwater samples, about once every three months; or
- > Maintenance of the monitoring well(s).

Access to the monitoring well(s) will be needed for a time period not likely to exceed three to five years after well installation is completed. The property owner will be notified at least 48 hour in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Company Representative

8/18/06

Date

Consultech Environmental, Inc.  
Telephone Number (919) 861-4319  
Fax Number (919) 858-5351

c.

site  
owner

Agreed and Consented to giving access:

John E. Johnson Jr  
Property Owner's Signature

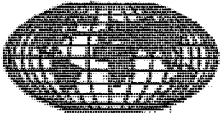
John E. Johnson Jr  
Printed Name

Access Denied:

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name

530 Pylon Drive \* Raleigh, North Carolina 27606  
(919) 861-4319 \* FAX (919) 858-5351



# CONSULTECH ENVIRONMENTAL, INC.

*Consulting Engineers, Geologists & Scientists*

## PERMISSION TO ENTER PROPERTY

I, CRAIG FLOYD, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located VACANT LOTS ON HWY 301, for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- > Drilling of soil test boring(s);
- > Installation of groundwater monitoring well(s);
- > Measuring depth to groundwater, about once every three months;
- > Collection of groundwater samples, about once every three months; or
- > Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Kurtz Curtis  
Company Representative

2-18-05  
Date

Consultech Environmental, Inc.  
Telephone Number (678) 377-0400  
Fax Number (678) 377-0051

Agreed and Consented to giving access:

[Signature]  
Property Owner's Signature

Craig Floyd  
Printed Name

Access Denied:

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name



# CONSULTECH ENVIRONMENTAL, INC.

## PERMISSION TO ENTER PROPERTY

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant SCDHEC, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located Allendale County Tax Parcel Number 131-00-00-020 for the purpose of performing an environmental assessment, as requested by SCDHEC which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans  
Company Representative

8-23-05

Date

**Consultech Environmental, Inc.**  
Telephone Number (678) 377-0400  
Fax Number (678) 377-0051  
C-033

**Agreed and Consented to giving access:**

Wilma M. McCain  
Property Owner's Signature

Wilma M. McCain  
Printed Name

**Access Denied:**

\_\_\_\_\_  
Property Owner's Signature

\_\_\_\_\_  
Printed Name





**UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-896-6240**

**MEMORANDUM**

**TO:** James Wilson, Consultech Environmental

**FROM:** Minda Johnson-Schmiedel

**RE:** NOTICE TO PROCEED

Facility Name: Interstate Truck Terminal

Permit Number: 00332

County: Allendale

Work previously completed:

enc: Permission Form, EFIS Utility Report

SCANNED

UST PROGRAM  
DOCKETING # 35 T



C. Earl Hunter, Commissioner

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

JULIUS MOODY  
1375 CAPERNAUM ROAD  
ULMER, SC 29003

Re: Interstate Truck Terminal, Hwy 301 & 321, Ulmer, SC  
UST Permit 00332, CA 26142, MWA #UMW- 19702  
June 21, 2002  
Assessment Plan received December 8, 2005  
Allendale County

Dear Mr. Moody:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor. The UST Program has reviewed the referenced Tier II Assessment Plan and cost agreement submitted by Consultech, Environmental, Inc.

Assessment activities at the site should begin immediately upon receipt of this letter. Cost agreement number has been approved for the amount shown on the enclosed cost agreement form. Please be aware that the October 10, 2003 SUPERB Allowable Costs sheet states that "If vertical and horizontal extent of chemicals of concern are not fully defined by this tier report, additional mobilizations may not be approved by the Department." **Please contact the department prior to well installation for concurrence regarding the final well locations.** Cost agreement CA# 26142 has been approved for the amount shown on the enclosed cost proposal form.

The following comments are offered for the proposed work plan:

- Borings should not exceed the depth of the water table, unless the boring is intended to determine the target depth for the deep monitoring wells.
- The use of a PID to field screen groundwater samples is not appropriate. Please propose another field screening technology for approval, such as a FID.

Please note the following adjustments to the submitted cost agreement:

- Monitoring well installation has been approved for 450 feet for fourteen (**if necessary**) shallow wells. Please note that the screens of the permanent monitoring wells must bracket the water table, and all monitoring well locations must be technically justified or installation costs will not be approved. Field screening points converted to wells will be compensated at the permanent well installation rate.

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

A Report of Findings and the invoice are due within 90 days from the date of this letter. An interim well drilling invoice may be submitted for this scope of work. 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 you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.**

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

The Department grants pre-approval for transportation of virgin petroleum impacted 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 and scope of work, please reference UST Permit # 00332 and CA # 26142. If you have any questions concerning this correspondence, please contact me at (803) 896-6395, fax me at (803) 896-6245, or e-mail me at johnsoms@dhec.sc.gov.

Sincerely,



Minda Johnson-Schmiedel, Hydrogeologist  
Assessment Section  
Assessment and Corrective Action Division  
Underground Storage Tank program  
Bureau of Land and Waste Management

enc.: Approved Cost Agreement  
Monitoring Well Approval (MWA)(copy)

cc: CONTRACTOR  
(w/Approved Cost Agreement & original MWA)  
Technical File (w/enc)



C. Earl Hunter, Commissioner

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

SCANNED

## Monitoring Well Approval

**Approval is hereby granted to:** Consultech Environmental, Inc.  
**(On behalf of):** Julius Moody  
**Facility:** Interstate Truck Terminal, US Highway 301/321  
Ulmer, SC  
**UST Permit Number:** 00332  
**County:** Allendale

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

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

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to the Department within 30 days after well completion or abandonment, unless another schedule has been approved by the Department. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to the project manager (tel: (803) 896-6395 or e-mail: johnsoms@scdhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Departmental approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

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

**Date of Issuance:** December 11, 2005

**Approval #:** UMW-19702

**Minda Johnson-Schmiedel, Hydrogeologist**  
**Assessment Section**  
Division of Assessment and Corrective Action  
Bureau of Land and Waste Management

# Approved Cost Agreement 26142

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

JOHNSOMS

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A PLAN PREPARATION	1.0000	50.00	50.00
		B TAX MAPS	1.0000	50.00	50.00
02 RECEPTOR SURVEY		RECEPTOR SURVEY	1.0000	50.00	50.00
03 COMPREHENSIVE SURVEY		COMPREHENSIVE SURVEY	1.0000	600.00	600.00
04 MOB/DEMOB		A EQUIPMENT	2.0000	125.00	250.00
		B PERSONNEL	4.0000	30.00	120.00
06 SOIL BORINGS (DRILLED)		A SOIL BORINGS & FLD SCREENING	1,100.0000	10.00	11,000.00
09 WELL INSTALLATION		B WATER TABLE (DRILLED)	450.0000	25.00	11,250.00
		C TELESCOPING	210.0000	30.00	6,300.00
10 SAMPLE COLLECTION		A GROUND WATER	22.0000	30.00	660.00
		C WATER SUPPLY	1.0000	15.00	15.00
		E GAUGE WELL ONLY	5.0000	15.00	75.00
11 ANALYSES	GW GROUNDWATER	A BTEX+NAPTH+MTBE	23.0000	31.50	724.50
		B RUSH BTEX ANALYSIS	6.0000	63.00	378.00
		E LEAD	23.0000	6.50	149.50
		F EDB	23.0000	30.50	701.50
		K NITRATE	22.0000	16.00	352.00
		L SULFATE	22.0000	13.50	297.00
		M FERROUS IRON	22.0000	8.50	187.00
		N METHANE	22.0000	37.00	814.00
		P 8 OXYGENATES	23.0000	63.00	1,449.00
12 AQUIFER CHARACTERIZATION		B SLUG TEST	3.0000	30.00	90.00
15 RISK EVALUATION		B TIER II	1.0000	150.00	150.00
17 DISPOSAL		A1 WASTEWATER - PURGING/SAMPLING	5.0000	90.00	450.00
		C SOIL (TREATMENT/DISPOSAL)	45.0000	50.00	2,250.00
19 RPT/PROJECT MNGT & COORDINATIO		PCT PERCENT	0.0300	38,412.50	1,152.38
				<b>Total Amount</b>	<b>39,564.88</b>



UNDERGROUND STORAGE TANK PROGRAM  
 BUREAU OF LAND AND WASTE MANAGEMENT  
 2600 Bull Street, Columbia, South Carolina 29201  
 Telephone (803) 896-6240 Fax (803) 896-6245

AUG 22 2002

Mr. Terry Kennedy  
 Geological Resources Inc.  
 4913 Albemarle Road  
 Charlotte, NC 28205

Re: IGWA Bid Package #SB-19189-04/30/02-EMW

Dear Mr. Kennedy:

Based on the award of the referenced bid package, enclosed is an information packet to conduct two (2) Initial Ground Water Assessments (IGWAs). The packet contains all necessary approvals for work to begin. Please reference the UST Permit # and Cost Agreement #16992 on the appropriate invoices submitted for payment against the facility. Invoice forms are enclosed for your convenience. As specified in the referenced bid, the completed invoice forms and associated IGWA report (include contract certification number) are expected on or before the designated due date associated with the site (see below).

UST Permit #	County	Report Due Date (days from the date of this letter)	CP Approval Amt.
00332	Allendale	45	\$1000.00

Geological Resources will perform services at the site on behalf of the site's responsible party (RP); however, payments will be made from the UST Program as appropriate. The site RP has no obligation for payment for this scope of work.

Please note the following:

- 1) Any water supply wells within 250 feet of the UST system are not required to be sampled;
- 2) The UST Program has obtained a Right of Entry (copy enclosed) to allow access to the property and for the work to be performed. An agreement between the Department and the RP requires that a Department representative be present during the assessment activities. Please contact me by phone at least four (4) days prior to beginning site work;
- 3) The cost proposal has been established so that two IGWAs can be performed. The necessity of installing the second IGWA well will be determined (by DHEC personnel) based upon field screening results from the first IGWA. If required, the second IGWA well should be installed immediately after the first IGWA well is completed.
- 4) There are nine USTs at the site. Eight of the USTs contain liquid. The USTs may have been emptied of liquids by the time the work is performed. Confirm this information at the time the Department is notified as specified in #2 (above);

UST PROGRAM DOCKETING # 44T

The Program grants preapproval for transportation of drums of virgin petroleum contaminated soil and drums of groundwater from the referenced site to a permitted treatment facility. The contaminated soil and/or groundwater must be properly stored in labeled 55-gallon drums or equivalent containers. The contaminated soil and/or groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included as an appendix to the final report. Please note, transportation of waste oil contaminated soil must receive preapproval from the Bureau of Land and Waste Management.

Please provide this office with a drilling date and coordinate all work with me before commencing work at the facility. Please contact me if you have any questions or need further assistance at (800) 826-5435 (within SC only) or (803) 896-6848.

Sincerely,



Mark Berenbrok, USTfield Coordinator  
Regulatory Compliance Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management

MKB/mkb  
00332-14:DOC

Enc: Information Packet w/copy of monitoring well approval form  
Right of Entry (copy)  
Form #3666

CC: Technical File  
Financial File

- do not use S250 funds for assmt or pump-out  
 - get water sample if possible

SESSION	FUNCTION	NO.	DESTINATION STATION	DATE	TIME	PAGE	DURATION	MODE	RESULT
7700	TX	01		MAY.09	15:47	004	00:01:46	ECM	OK

NAME: 014 UST MGMT  
 TEL: 8038863330  
 DATE: MAY.09.2002 15:46

TX RESULT REPORT



FAX MESSAGE

May 9, 2002

Number of pages including cover sheet: 4

Please Deliver This Fax Message

TO: William Myrick, Jr.  
 803-584-3147  
 Fax Number

803-584-4333  
 Phone Number

FROM: Mark Berenbrok  
 Underground Storage Tank Program  
 berenbrmk@dhec.state.sc.us  
 (803) 886-6245  
 Fax Number

(803) 898-8848  
 Phone Number

UST PROGRAM DOCKETING # 45T

SUBJECT/COMMENT:

Mr. Myrick -- Attached is the letter concerning the USTs at the Interstate Truck Terminal owned by Julius Moody. In addition to the assessment we discussed, I have also added language to empty the USTs of liquid. The hard copy of this letter will go out on Monday. Please call me if you have any questions. Thanks for your help.

SC 111111





UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone (803) 896-6240 Fax (803) 896-6245

May 9, 2002

Mr. William E. Myrick, Jr.  
Attorney at Law  
Post Office Box 555  
Allendale, South Carolina 29810

Re: Interstate Truck Terminal  
Highways 301 & 321, Ulmer, SC, Allendale County  
Permit ID #00332

Dear Mr. Myrick:

Thank you for our conversation yesterday. As I explained, in an effort to begin resolving some of the complex issues concerning the underground storage tanks (USTs) at the Interstate Truck Terminal, it is necessary for the UST Program to evaluate environmental conditions in the area of the UST system. To accomplish this phase of work, a series of soil borings will be installed in the vicinity of the USTs, product lines, and dispenser islands. Soil samples will be taken from the borings and submitted for analysis. The site work should take one day to complete, and the resulting report will be completed in approximately one month. A copy of the report will be provided to you. Any borings made in an asphalt or concrete surface will be patched with concrete. You will be notified no less than 72 hours prior to the beginning of assessment activities.

Please be assured that, given the presence of nearby water supply wells, the UST Program considers resolving the problems with the USTs very important in our mission to protect human health and the environment. In the event that a release (contamination) from the UST system is found, additional work will be required.

Previous inspections of the USTs at the Interstate Truck Terminal have indicated that varying amounts of liquids remain in the USTs. It is the intention of the UST Program to have these liquids removed from the USTs in the near future to prevent ongoing or future releases. A Department contractor will perform these activities, and a Department representative will be present during the removal process. The liquid removal and the assessment discussed above will occur at separate times. You will be notified prior to the beginning of liquid removal activities, and a copy of the report will be provided to you.

Mr. Moody demonstrated in 1998 that he was financially unable to undertake required actions concerning the UST system. If it is still his position that he is unable to perform these activities, he should provide a written statement that his financial condition has not changed. Regardless of the outcome of this investigation, Mr. Moody remains responsible for management of the USTs in accordance with federal and state requirements. The UST Program is required by federal or state guidelines to pursue recovery of any expenditure of either federal or state funds. Cost recovery procedures have been established, and each case is reviewed on its merits.

In order for the assessment and liquid removal activities to be performed, the enclosed **Right Of Entry** must be completed by the property owner and returned to my attention at the SCDHEC. Please keep a copy for your records.

Please contact me at 800-826-5435 (or by e-mail at [berenbmk@dhec.state.sc.us](mailto:berenbmk@dhec.state.sc.us)) if you have any questions or comments.

Sincerely,



Mark Berenbrok, USTfields Coordinator  
Regulatory Compliance Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management

MKB/mkb  
00332-02:DOC

Enclosure: Right Of Entry

cc: Robert Hutchinson, UST Program

Technical file

**RIGHT OF ENTRY AND PERMISSION FORM**

**UNDERGROUND STORAGE TANK AND PROPERTY OWNER**

Interstate Truck Terminal, Highways 301 & 321, Ulmer, SC, Allendale County, UST Permit # 00332

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, \_\_\_\_\_, certify that I am the legal owner of the underground storage tanks and property located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (SCDHEC) or its contractors to enter this property at reasonable times only to accomplish site assessment and liquid removal activities. I understand that SCDHEC will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of the results of each activity.

Name of Facility \_\_\_\_\_ Phone # \_\_\_\_\_

Street Address of Facility \_\_\_\_\_

Town, City, District, Suburb \_\_\_\_\_

Name of nearest intersecting street, road, highway, alley  
\_\_\_\_\_

Is this facility within the city limits? (yes or no) \_\_\_\_\_

Does a public water or sewer utility service this facility? (yes or no) \_\_\_\_\_. If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines \_\_\_\_\_  
phone number \_\_\_\_\_

Were underground storage tanks previously removed from the ground at this facility? (yes or no) \_\_\_\_\_. If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation \_\_\_\_\_  
Phone number \_\_\_\_\_

Is the property currently leased or rented to someone? (yes or no) \_\_\_\_\_. If yes, please provide their name \_\_\_\_\_ and phone number \_\_\_\_\_ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before assessment activities begin.

NAME of UST/property owner (Please Print): \_\_\_\_\_

Phone Number (home) \_\_\_\_\_ (work) \_\_\_\_\_

Signature of UST/property Owner: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_



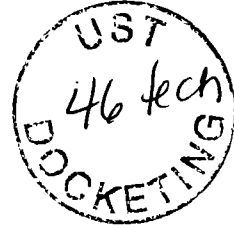
Catherine E. Heigel, Director

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

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

**JAN 27 2016**

Re: **Site Specific Work Plan Request**  
 Groundwater Sampling Contract  
 Solicitation # IFB-5400007403, PO#4600445246



Dear Mr. Shane:

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

UST Permit	Site Name	County	# samples and requested analysis*	Project Manager
00869	Blumes Grocery	Barnwell	14-BTEXMN, DCA, Oxygenates and EDB	J. Bryant
14564	JH Cromer Service Station	Union	10-BTEXMN, DCA, Oxygenates and EDB	A. Thrash
01924	Blacksburg Hardware	Cherokee	51-BTEXMN, DCA, Oxygenates and EDB	A. Thrash
19559	Davis Property	Cherokee	25-BTEXMN, DCA, Oxygenates and EDB	A. Thrash
15936	Johnson Country Store	Abbeville	63-BTEXMN, DCA, Oxygenates and EDB	A. Thrash
07783	Brazzels Grocery	Richland	6-BTEXMN, DCA and EDB	R. Miner
12581	AA Kelly and Son	Lee	25-BTEXMN, DCA, Oxygenates and EDB	A. Looper
02290	Prices Market	Chesterfield	39-BTEXMN, DCA, Oxygenates and EDB	A. Thrash
08937	HQ Health Self Serve 1	Sumter	37-BTEXMN, DCA, Oxygenates and EDB	M. Hetrick
00332	Interstate Truck Terminal Inc.	Allendale	29-BTEXMN, DCA, Oxygenates and EDB	M. Hetrick
19443	BB&T	Sumter	33-BTEXMN, DCA, Oxygenates and EDB	M. Hetrick
19466	Garrett Hampton Center	Hampton	32-BTEXMN, DCA, Oxygenates and EDB	M. Hetrick
11890	Stanco Harmon Oil Company	Richland	1-BTEXMN, DCA, Oxygenates and EDB	S. Utz

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

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

Sincerely,

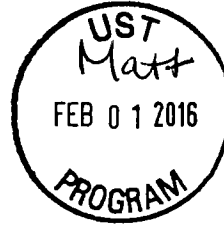
A handwritten signature in black ink, appearing to read 'JCB', written in a cursive style.

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

enc: Site Information Packages  
cc: Technical Files



February 1, 2016



Mr. John Bryant, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan  
Interstate Truck Terminal  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 16-5450  
Certified Site Rehabilitation Contractor UCC-0009

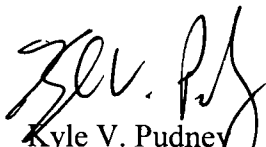
Dear Mr. Bryant,

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


On January 28, 2016, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

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



Kyle V. Pudney  
Project Biologist



Jeff L. Coleman  
Senior Scientist



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

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

Facility Name: Interstate Truck Terminal, Inc. UST Permit #: 00332  
 Facility Address: Highway 301 & Highway 321, Ulmer, SC 29849  
 Responsible Party: Julius Moody Phone: 803-245-4470  
 RP Address: Rt. 3 P.O. Box 192B, Bamberg, SC 29003  
 Property Owner (if different): N/A  
 Property Owner Address: N/A  
 Current Use of Property: Former Truck Terminal (Vacant)

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

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

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

Groundwater/Surface Water:

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

Soil:

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

Air:

- BTEXN

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

<u>      </u> Soil	<u>  1  </u> Water Supply Wells	<u>      </u> Air	<u>  1  </u> Field Blank
<u>  28  </u> Monitoring Wells	<u>      </u> Surface Water	<u>  2  </u> Duplicate	<u>  2  </u> Trip Blank

**Field Screening Methodology**

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

# of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**

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

# of shallow wells: \_\_\_\_\_ 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 #: 00332 Facility Name: Interstate Truck Terminal

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

Field Work Start-Up: 3/1/2016 Field Work Completion: 4/1/2016  
Report Submittal: 5/1/2016 # of Copies Provided to Property Owners: \_\_\_\_\_

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

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

**Investigation Derived Waste Disposal**

Soil: \_\_\_\_\_ Tons Purge Water: 400.0 Gallons  
Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

-During the 1/28/2016 site visit, monitoring wells MW-9, MW-11 and MW-15 were unable to be located. These wells are believed to have been covered by standing water during the site visit. If any of these wells are located during sampling activities, they will be sampled accordingly.  
-All other monitoring wells and WSW-2 were located and should be able to be sampled.  
-All wells will be purged prior to sample collection.

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_

N/A Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_

No Other variations from ACQAP. Please describe below.

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

**Attachments**

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





**ASSESSMENT COMPONENT INVOICE  
SOUTH CAROLINA**

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

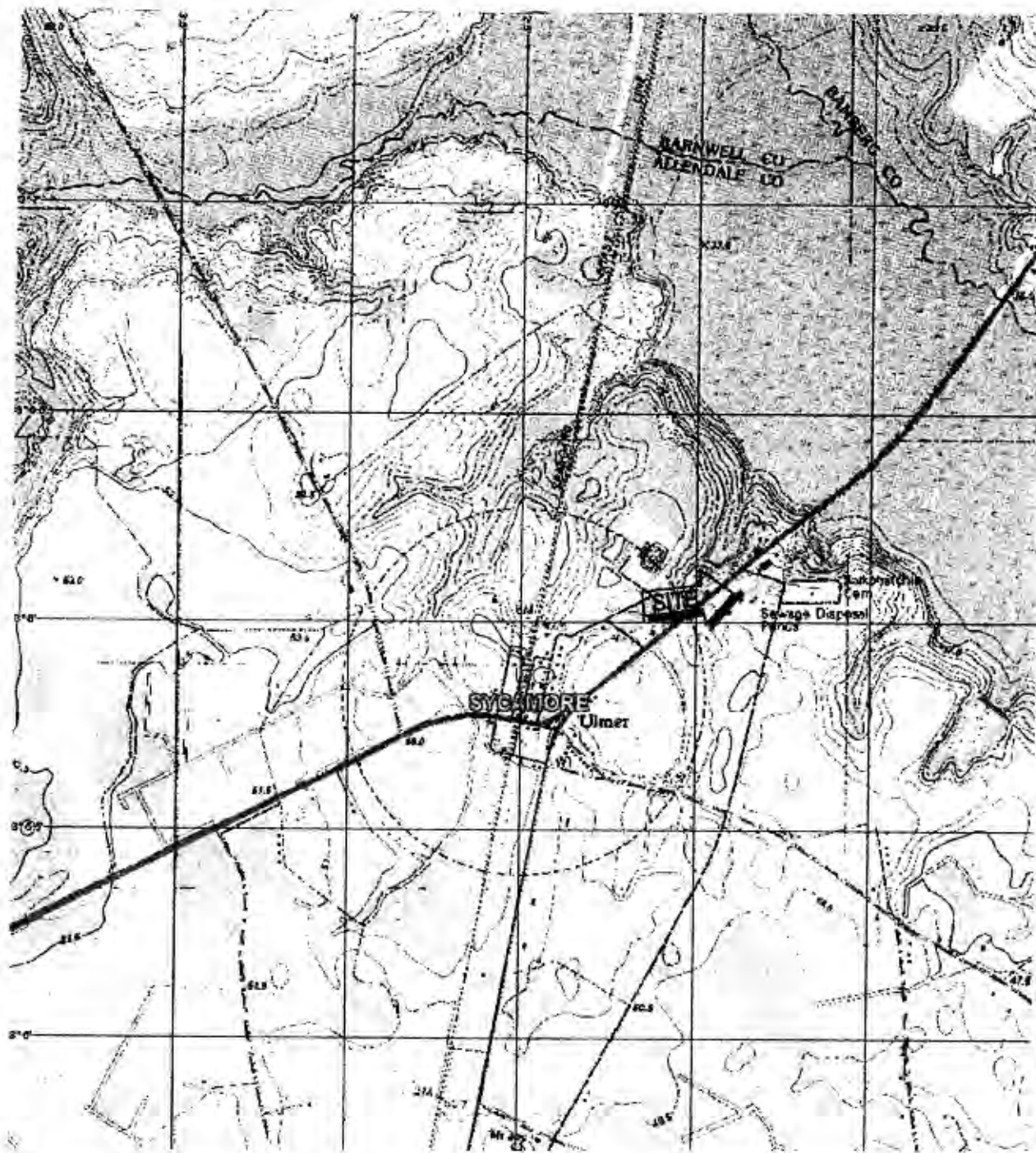
Facility Name: Interstate Truck Terminal

UST Permit #: 00332

Cost Agreement #:

Proposal

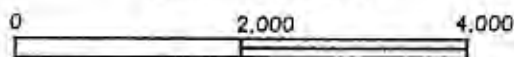
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$0.00	\$0.00
C1. QAPP Appendix B		each	\$0.00	\$0.00
<b>2. A1. Receptor Survey</b>		each	\$0.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$350.00	\$700.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	28	per well	\$16.00	\$448.00
B1. Air or Vapors		samples	\$0.00	\$0.00
C1. Water Supply	1	samples	\$5.00	\$5.00
D1. Groundwater No Purge		per well	\$8.00	\$0.00
E1. Gauge Well only		per well	\$0.00	\$0.00
F1. Sample Below Product		per well	\$0.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	1	each	\$10.00	\$10.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	400	gallons	\$1.00	\$400.00
BB. Free Product		gallons	\$0.00	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
<b>23. D. Site Reconnaissance</b>		each	\$0.00	\$0.00
<b>18. Miscellaneous (attach receipts)</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Trip Blank	2	each	\$10.00	\$20.00
Data Table		each	\$25.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$75.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$75.00	\$0.00
D1. Replace Well Vault		each	\$75.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$1,583.00</b>



REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

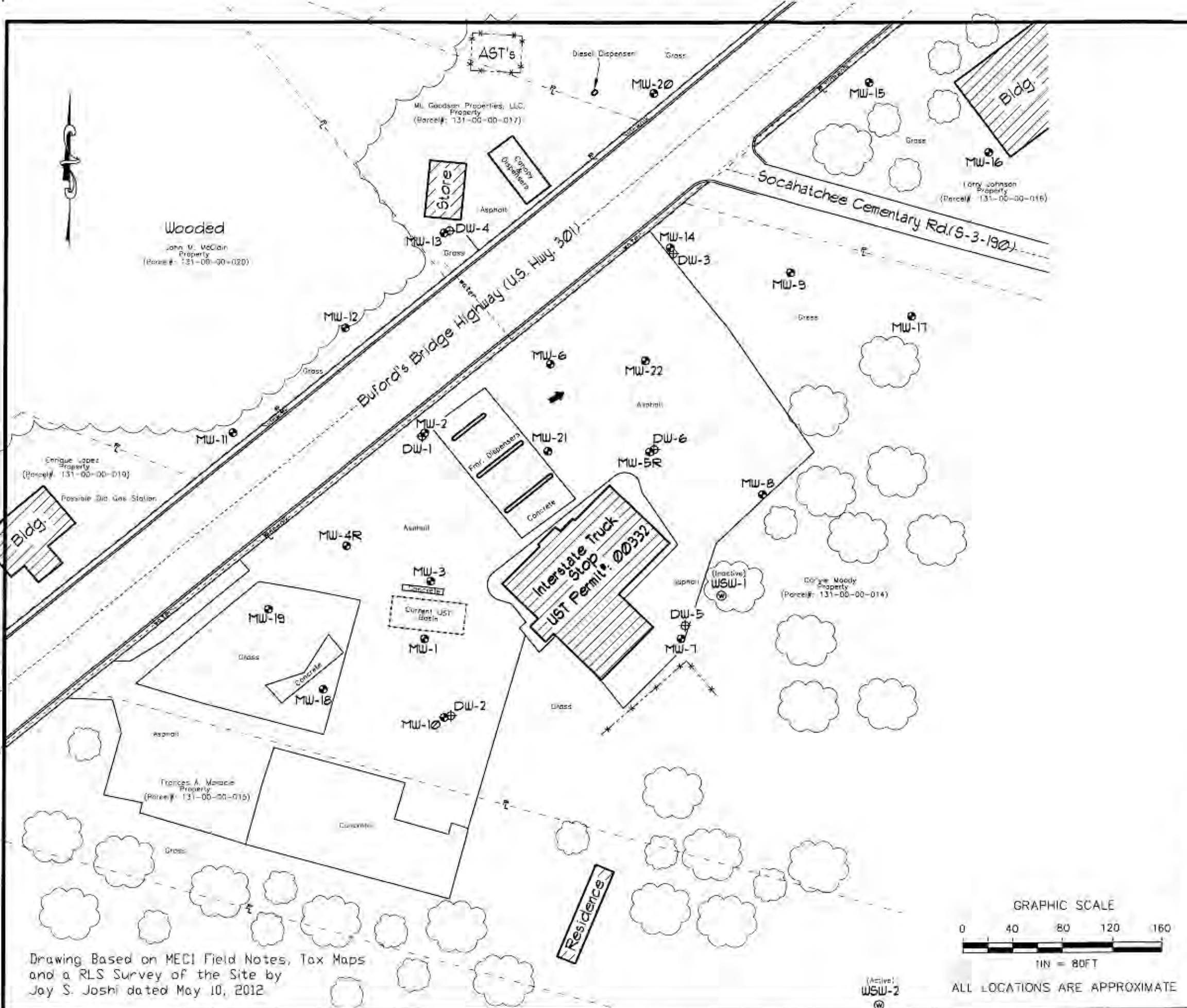
FIGURE 1  
SITE LOCATION MAP

CONSULTECH ENVIRONMENTAL, INC.



Environmental Consulting  
and Engineering  
© 1998

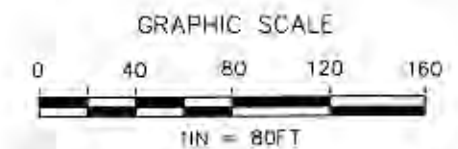
Delivering innovative solutions to today's environmental concerns



**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- ⊞ Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- - - Buried Water Line
- - - Fence

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012



ALL LOCATIONS ARE APPROXIMATE

<b>Site Base Map</b>	
Interstate Truck Stop U.S. Highway 321 & S-3-190 Ulmer, South Carolina SCDHEC Site ID 00332	
<b>Midlands Environmental Consultants, Inc.</b>	JOB NO. 12-3888 DATE June 5, 2012 FIGURE <span style="font-size: 2em; font-weight: bold;">2</span>



Catherine E. Heigel, Director

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

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



**FEB 05 2016**

**Re: Notice to Proceed-Site Specific Work Plan Approval**  
Groundwater Sampling Contract  
Solicitation # IFB-5400007403, PO#4600462997  
Interstate Truck Terminal Inc.  
UST Permit #00332; CA #51805 (Pace CA #51806)  
Allendale County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400007403 and the UST Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved ACQAP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

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

Page 2

If you have any site-specific questions, please contact me at (803) 898-0610 or via e-mail at hetricml@dhec.sc.gov. If you have any contract specific questions, please contact John Bryant at (803) 898-0606 or via e-mail at bryantjc@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink that reads "Matthew Lee Hetrick". The signature is written in a cursive style with a large initial 'M' and 'H'.

Matthew L. Hetrick, Hydrogeologist  
Assessment/Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved Cost Agreements (both CAs)

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

# Approved Cost Agreement 51806

Facility 00332 INTERSTATE TRUCK TERMINAL INC

HETRICML

PO Number

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	34.0000	\$19.000	646 00
		F1 EDB BY 8011	32 0000	\$18.000	576 00
		<b>Total Amount</b>			1,222 00

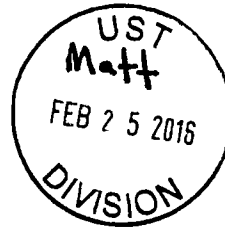
# Approved Cost Agreement 51805

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

HETRICML

PO Number

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		B1 PERSONNEL	2 0000	\$350.000	700.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	28 0000	\$16.000	448.00
		C1 WATER SUPPLY	1 0000	\$5 000	5 00
		H1 FIELD BLANK	1.0000	\$10 000	10 00
17 DISPOSAL		AA WASTEWATER	400 0000	\$1 000	400.00
18 MISCELLANEOUS		SITE RECONNAISSANCE	1 0000	\$0 000	0.00
		SITE SPECIFIC WORK PLAN	1.0000	\$0 000	0 00
		TRIP BLANK	2 0000	\$10.000	20.00
<b>Total Amount</b>					<b>1,583.00</b>



February 23, 2016



Mr. John C. Bryant, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling  
Interstate Truck Terminal  
Highway 301 & 321  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332; CA # 51805  
MECI Project Number 16-5450  
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Bryant,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

### PROJECT INFORMATION

The subject site (Interstate Truck Terminal) is located at Socahatchee Cemetery Road & Highway 321, Ulmer, Allendale County, South Carolina. The subject site formally maintained two 8,000 gallon diesel underground storage tanks (UST's), one 8,000 gallon gasoline UST, one 6,000 gallon diesel UST, two 6,000 gallon gasoline UST's, and three 4,000 gallon gasoline USTs. These UST's are still in the ground, but the tank status is rendered unusable (RNU). A release of petroleum product from the subject UST's was reported in June of 2002 and confirmed in October of 2002. The subject site is currently rated a Class2BB.

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

### MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On February 16, 2016, MECI personnel collected twenty-seven (27) monitoring well samples and one (1) water supply well sample at the subject site. One (1) monitoring well (MW-16) was gauged and determined to be dry. Additionally, water supply well WSW-1 was found to be inactive with no



electrical supply connected to the well. At the request of SCDHEC, all monitoring wells were to purged prior to sample collection. Twenty-seven (27) monitoring well was purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, water temperature, and turbidity were obtained before well sampling process. MECI utilized YSIPro20 meter for DO (mg/L) and temperature readings (°C), YSIPro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with SCDHEC's most recent revision of the Quality Assurance Program Plan for the Underground Storage Tank Management Division and MECI's most recent version of Standard Operating Procedures.

Groundwater samples obtained were sent to PACE Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Monitoring Well	Purge	No Purge	Gauge Only	Not Sampled	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 335.2)	Methane (RSK Method)	PAH's (EPA Method 8270)	Ferrous Iron (Field Test)
	Analyte Sampled													
MW-1	X				X	X	X	X						
MW-2	X				X	X	X	X						
MW-3	X				X	X	X	X						
MW-4R	X				X	X	X	X						
MW-5R	X				X	X	X	X						
MW-6	X				X	X	X	X						
MW-7	X				X	X	X	X						
MW-8	X				X	X	X	X						
MW-9	X				X	X	X	X						
MW-10	X				X	X	X	X						
MW-11	X				X	X	X	X						
MW-12	X				X	X	X	X						
MW-13	X				X	X	X	X						
MW-14	X				X	X	X	X						
MW-15	X				X	X	X	X						
MW-16			X											
MW-17	X				X	X	X	X						

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

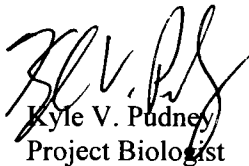
Monitoring Well	Purge	No Purge	Gauge Only	Not Sampled	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	Sulfate (EPA Method 375.2)	Nitrate (EPA Method 335.2)	Methane (RSK Method)	PAH's (EPA Method 8270)	Ferrous Iron (Field Test)
	Analyte Sampled													
MW-18	X				X	X	X	X						
MW-19	X				X	X	X	X						
MW-20	X				X	X	X	X						
MW-21	X				X	X	X	X						
MW-22	X				X	X	X	X						
DW-1	X				X	X	X	X						
DW-2	X				X	X	X	X						
DW-3	X				X	X	X	X						
DW-4	X				X	X	X	X						
DW-5	X				X	X	X	X						
DW-6	X				X	X	X	X						
WSW-1				X										
WSW-2					X	X	X	X						
MW-1 Dup					X	X	X	X						
MW-2 Dup					X	X	X	X						
Field Blank					X	X	X	X						
Trip Blank					X		X	X						
Trip Blank 2					X		X	X						

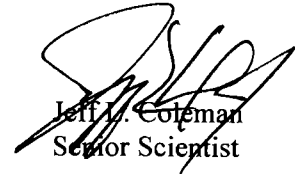
Notes: BTEX = benzene, toluene, ethylbenzene, & total xylenes MTBE=methyl tertiary butyl ether 1,2 DCA = 1,2 dicloroethane  
PAH = polycyclic aromatic hydrocarbons

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 240.0 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

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

Sincerely,  
Midlands Environmental Consultants, Inc.

  
Kyle V. Pudney  
Project Biologist

  
Jeff L. Coleman  
Senior Scientist

Attachments:

**Contractor Checklist**

Item#	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?			X
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

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

**Site Activity Summary**

UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: F. Mitlin, P. Wylie, J. Phillips, C. Hansen



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-1	Y	2/16/16	13:31	25-35	***	22.81	***	2.05	3.00	No Odor
MW-2	Y	2/16/16	12:07	25-35	***	22.97	***	0.56	7.00	Strong Odor
MW-3	Y	2/16/16	13:32	24-34	***	23.01	***	0.59	6.00	Odor
MW-4R	Y	2/16/16	12:37	25-35	***	21.26	***	0.61	9.00	Odor
MW-5R	Y	2/16/16	11:09	25-35	***	25.53	***	0.61	5.00	Odor
MW-6	Y	2/16/16	11:49	25-35	***	23.03	***	0.64	8.00	Odor
MW-7	Y	2/16/16	10:28	25-35	***	25.16	***	5.36	4.00	No Odor
MW-8	Y	2/16/16	10:27	25-35	***	24.78	***	4.36	4.50	No Odor
MW-9	Y	2/16/16	10:03	25-35	***	22.65	***	0.86	7.00	Odor
MW-10	Y	2/16/16	13:00	25-35	***	21.44	***	4.38	10.00	No Odor
MW-11	Y	2/16/16	9:09	25-35	***	19.84	***	1.17	5.00	No Odor
MW-12	Y	2/16/16	9:12	25-35	***	20.43	***	1.26	12.00	No Odor
MW-13	Y	2/16/16	9:11	25-35	***	21.40	***	3.18	11.50	No Odor
MW-14	Y	2/16/16	10:15	25-35	***	21.84	***	0.89	10.00	Odor
MW-15	Y	2/16/16	9:44	15-35	***	22.29	***	3.79	7.00	No Odor
									109.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: F. Mitlin, P. Wylie, J. Phillips, C. Hansen



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-16	N	2/16/16	DRY	15-35	***	DRY	***	DRY	DRY	Guaged Dry; TD: 24.50' BTOC
MW-17	Y	2/16/16	9:55	15-35	***	23.52	***	4.21	5.00	No Odor
MW-18	Y	2/16/16	12:40	15-35	***	18.39	***	2.27	10.00	No Odor
MW-19	Y	2/16/16	12:24	15-35	***	19.42	***	0.62	9.00	No Odor
MW-20	Y	2/16/16	9:28	15-35	***	21.31	***	2.69	7.00	No Odor
MW-21	Y	2/16/16	11:56	25-35	***	24.94	***	2.38	6.00	Strong Odor
MW-22	Y	2/16/16	11:12	25-35	***	233.75	***	0.67	8.00	Odor
DW-1	Y	2/16/16	12:03	65-70	***	24.9	***	2.85	8.00	No Odor
DW-2	Y	2/16/16	13:17	65-70	***	23.26	***	3.91	12.00	No Odor
DW-3	Y	2/16/16	10:16	65-70	***	22.94	***	1.09	10.00	No Odor
DW-4	Y	2/16/16	9:22	65-70	***	22.79	***	4.70	10.00	No Odor
DW-5	Y	2/16/16	10:51	80-85	***	24.78	***	2.06	16.00	No Odor
DW-6	Y	2/16/16	11:31	80-85	***	26.34	***	3.98	30.00	No Odor
WSW-1	N	2/16/16	NS	***	***	***	***	***	***	Inactive, No Power to Well
WSW-2	Y	2/16/16	13:45	***	***	***	***	***	***	1224 Buford's Bridge Highway; Sample collected from spigot in front yard
									131.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: F. Mitlin, P. Wylie, J. Phillips, C. Hansen



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-1 Dup.	Y	2/16/16	13:31	***	***	***	***	***	***	Duplicate Sample
MW-2 Dup.	Y	2/16/16	12:07	***	***	***	***	***	***	Duplicate Sample
Field Blank	Y	2/16/16	13:35	***	***	***	***	***	***	Field Blank
Trip Blank	Y	2/16/16	13:36	***	***	***	***	***	***	Trip Blank (Cooler #1)
Trip Blank 2	Y	2/16/16	13:36	***	***	***	***	***	***	Trip Blank (Cooler #2)
									0.0	<b>TOTAL GALLONS PURGED</b>

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Mathew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	2D1301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-1	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.18, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	22.81	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	12.19	1 casing volume (CV = LWC x C) (gals.):	1.99	5 casing volumes (5 x CV) (gals.):	9.93

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.99	3.97	5.96	7.95	9.93		3.00
Time (military)	13:28	13:30						13:31
pH (s.u.)	6.10	6.17						6.14
Specific Conductivity (µS/cm)	194.7	203.9						201.7
Water Temperature (°C)	22.1	22.7						22.8
Dissolved Oxygen (mg/L)	2.05	1.94						1.98
Turbidity (NTU)	16.71	209.80						276.40

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	13:31	Duplicate: Y or N	Y	If yes, Duplicate Time:	13:31	Total Gallons Purged:	3.00
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Notes:

Dry @ 3.00 Gallons, No Odor



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

Date:	2/18/2018	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-2	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Baller
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	22.97	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	12.03	1 casing volume (CV = LWC x C) (gals.):	1.96	5 casing volumes (5 x CV) (gals.):	9.80

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.96	3.92	5.88	7.84	9.80		7.00
Time (military)	12:00	12:02	12:04	12:06				12:07
PH (s.u.)	6.08	6.15	6.17	6.13				6.11
Specific Conductivity (µS/cm)	203.4	227.8	231.6	230.9				229.6
Water Temperature (°C)	22.8	23.1	23.2	23.4				23.4
Dissolved Oxygen (mg/L)	0.58	0.51	0.54	0.59				0.6
Turbidity (NTU)	6.34	54.62	97.11	100.20				18.79

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	12:07	Duplicate: Y or N	Y	If yes, Duplicate Time:	12:07	Total Gallons Purged:	7.00
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Notes:

Dry @ 7.00 Gallons, Strong Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Mathew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-3	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	24-34	Total Well Depth (TWD) (ft.):	34
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	23.01	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	10.99	1 casing volume (CV = LWC x C) (gals.):	1.79	5 casing volumes (5 x CV) (gals.):	8.96

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.79	3.58	5.37	7.17	8.96		6.00
Time (military)	13:25	13:27	13:29	13:31				13:32
PH (s.u.)	5.78	5.94	5.92	5.90				5.87
Specific Conductivity (µS/cm)	143.5	127.6	121.4	116.4				120.9
Water Temperature (°C)	22.6	24.6	24.9	24.9				25
Dissolved Oxygen (mg/L)	0.59	0.64	0.78	0.76				0.74
Turbidity (NTU)	7.61	139.80	152.20	212.90				125.60

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	13:32	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	6.00
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Notes:

Dry @ 6.00 Gallons, Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Arlendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-4R	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	21.26	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	13.74	1 casing volume (CV = LWC x C) (gals.):	2.24	5 casing volumes (5 x CV) (gals.):	11.20

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.24	4.48	6.72	8.96	11.20		9.00
Time (military)	12:27	12:29	12:31	12:34	12:36			12:37
PH (s.u.)	6.21	6.30	6.34	6.31	6.27			6.25
Specific Conductivity (µS/cm)	117.9	139.4	141.2	140.9	137.6			138.8
Water Temperature (°C)	22.1	24	24.1	24.2	24.1			24.2
Dissolved Oxygen (mg/L)	0.61	0.76	0.74	0.69	0.67			0.65
Turbidity (NTU)	8.04	254.90	306.40	271.10	199.80			127.60

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	12:37	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.00
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Notes:

Dry @ 9.00 Gallons, Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTP/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-5R	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Baler
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	25.53	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	9.47	1 casing volume (CV = LWC x C) (gals.):	1.54	5 casing volumes (5 x CV) (gals.):	7.72

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.54	3.09	4.63	6.17	7.72		5.00
Time (military)	11:02	11:04	11:06	11:08				11:09
PH (s.u.)	6.08	6.16	6.12	6.14				6.15
Specific Conductivity (µS/cm)	170.5	188.9	190.6	190.1				189.2
Water Temperature (°C)	21.6	22.8	22.9	23.0				23.3
Dissolved Oxygen (mg/L)	0.61	0.68	0.62	0.59				0.6
Turbidity (NTU)	9.91	129.60	200.10	152.60				71.17

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	12:37	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.00
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Notes:

Dry @ 5.00 Gallons, Odor

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

Date:	2/16/2015	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	55

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-6	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.852	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	23.03	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	11.97	1 casing volume (CV = LWC x C) (gals.):	1.95	5 casing volumes (5 x CV) (gals.):	9.76

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.95	3.90	5.85	7.80	9.76		8.00
Time (military)	11:40	11:42	11:44	11:46	11:48			11:49
PH (s.u.)	6.04	6.10	6.09	6.06	6.02			5.99
Specific Conductivity (µS/cm)	185.2	196.3	195.4	193.7	193.6			192.9
Water Temperature (°C)	22.5	24.2	24.5	24.3	24.1			24.2
Dissolved Oxygen (mg/L)	0.64	0.70	0.66	0.62	0.64			0.71
Turbidity (NTU)	12.87	190.90	291.90	357.60	271.10			154.80

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	11:48	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	8.00
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Notes:

Dry @ 8.00 Gallons, Odor



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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Alendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-7	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailey
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	25.16	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	9.84	1 casing volume (CV = LWC x C) (gals.):	1.60	5 casing volumes (5 x CV) (gals.):	8.02

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.60	3.21	4.81	6.42	8.02		4.00
Time (military)	10:23	10:25	10:27					10:28
PH (s.u.)	5.84	5.74	5.81					5.88
Specific Conductivity (µS/cm)	88.2	91.6	90.4					89.7
Water Temperature (°C)	19.5	20.0	20.1					20.3
Dissolved Oxygen (mg/L)	5.36	5.61	5.54					5.51
Turbidity (NTU)	6.07	154.60	139.80					100.60

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	10:28	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	4.00
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Notes:

Dry @ 4.00 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Alameda	Project Manager:	Matthew Helrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-8	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	24.78	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	10.22	1 casing volume (CV = LWC x C) (gals.):	1.67	5 casing volumes (5 x CV) (gals.):	8.33

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.67	3.33	5.00	6.66	8.33		4.50
Time (military)	10:22	10:24	10:26					10:27
PH (s.u.)	5.71	5.88	5.90					5.92
Specific Conductivity (µS/cm)	80.7	76.4	75.8					76.7
Water Temperature (°C)	19.9	20.6	20.7					20.7
Dissolved Oxygen (mg/L)	4.36	4.17	4.21					4.25
Turbidity (NTU)	7.77	244.80	176.60					57.85

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	10:27	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	4.50
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Notes:

Dry @ 4.50 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Helrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103096	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-8	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Baier
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	22.65	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	12.35	1 casing volume (CV = LWC x C) (gals.):	2.01	5 casing volumes (5 x CV) (gals.):	10.07

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.01	4.03	6.04	8.05	10.07		7.00
Time (military)	9:56	9:58	10:00	10:02				10:03
PH (s.u.)	5.54	5.70	5.72	5.88				5.67
Specific Conductivity (µS/cm)	105.5	129.8	127.6	124.5				125.2
Water Temperature (°C)	20.8	21.7	22.0	21.8				21.6
Dissolved Oxygen (mg/L)	0.86	0.79	0.76	0.79				0.81
Turbidity (NTU)	6.71	129.80	167.10	211.50				70.84

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	10:03	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	7.00
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Notes:

Dry @ 7.00 Gallons, No Odor



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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wyle, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-10	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	21.44	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	13.56	1 casing volume (CV = LWC x C) (gals.):	2.21	5 casing volumes (5 x CV) (gals.):	11.05

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.21	4.42	6.63	8.84	11.05		10.00
Time (military)	12:50	12:52	12:54	12:56	12:58			13:00
PH (s.u.)	6.17	6.34	6.38	6.35	6.32			6.3
Specific Conductivity (µS/cm)	58.2	60.9	61.2	64.7	65.8			64.9
Water Temperature (°C)	22.1	24.0	23.9	23.9	24.0			24.1
Dissolved Oxygen (mg/L)	4.38	4.70	4.64	4.57	4.59			4.62
Turbidity (NTU)	7.32	127.60	194.10	255.50	170.40			160.90

### Sampling Data

Sampled By:	F. Millin, P. Wyle, J. Phillips, C. Hansen	Sampling Time:	13:00	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.00
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Notes:

Dry @ 10.00 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Mitlin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-11	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	19.84	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	15.16	1 casing volume (CV = LWC x C) (gals.):	2.47	5 casing volumes (5 x CV) (gals.):	12.36

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.47	4.94	7.41	9.88	12.36		5.00
Time (military)	9:03	9:05	9:06					9:09
PH (s.u.)	7.87	7.47	7.51					7.54
Specific Conductivity (µS/cm)	81.2	77.2	80.9					81.6
Water Temperature (°C)	19.2	20.4	20.5					20.6
Dissolved Oxygen (mg/L)	1.17	1.06	1.17					1.24
Turbidity (NTU)	6.74	129.80	157.20					169.80

### Sampling Data

Sampled By:	F. Mitlin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	9:09	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	5.00
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Notes:

Dry @ 5.00 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Alhendale	Project Manager:	Matthew Helrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-12	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	20.43	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD – DGW) (ft.):	14.57	1 casing volume (CV = LWC x C) (gals.):	2.37	5 casing volumes (5 x CV) (gals.):	11.87

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.37	4.75	7.12	9.50	11.87		
Time (military)	9:00	9:02	9:04	9:08	9:09	9:12		
PH (s.u.)	7.94	7.79	7.84	7.82	7.84	7.87		
Specific Conductivity (µS/cm)	78.5	91.4	90.8	91.7	92.6	94.8		
Water Temperature (°C)	19.4	20.7	20.9	21.0	20.9	20.8		
Dissolved Oxygen (mg/L)	1.28	1.11	1.02	1.04	1.09	1.14		
Turbidity (NTU)	9.37	149.80	179.60	117.60	64.47	70.89		

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	9:12	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	12.00
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Notes:

No Odor

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

Date:	2/16/2015	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Mathew Hetnck	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-13	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	21.40	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	13.6	1 casing volume (CV = LWC x C) (gals.):	2.22	5 casing volumes (5 x CV) (gals.):	11.08

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.22	4.43	6.65	8.87	11.08		
Time (military)	9:01	9:03	9:05	9:07	9:09	9:11		
PH (s.u.)	8.14	7.92	7.95	8.00	8.02	8.06		
Specific Conductivity (µS/cm)	53.5	47.3	50.8	49.8	47.5	49.9		
Water Temperature (°C)	20.3	21.4	21.3	21.2	21.1	21.1		
Dissolved Oxygen (mg/L)	3.18	2.96	2.79	2.84	2.89	2.91		
Turbidity (NTU)	10.76	67.54	119.90	204.70	157.80	39.64		

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	9:11	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	11.50
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Notes: No Odor

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

Date:	2/18/2018	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-14	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	21.84	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	13.16	1 casing volume (CV = LWC x C) (gals.):	2.15	5 casing volumes (5 x CV) (gals.):	10.73

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.15	4.29	6.44	8.58	10.73		10.00
Time (military)	10:05	10:07	10:09	10:11	10:13			10:15
PH (s.u.)	5.71	5.64	5.62	5.57	5.55			5.59
Specific Conductivity (µS/cm)	116.6	121.4	124.8	125.7	123.6			122.9
Water Temperature (°C)	21.9	22.7	22.4	22.8	22.7			22.9
Dissolved Oxygen (mg/L)	0.89	0.78	0.80	0.82	0.86			0.81
Turbidity (NTU)	6.42	116.40	182.90	251.60	170.80			61.16

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	10:15	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.00
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Notes:

Dry @ 10.00 Gallons, Odor

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

Date:	2/18/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Alendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	2013D1174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-15	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Baier
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	15-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	22.29	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	12.71	1 casing volume (CV = LWC x C) (gals.):	2.07	5 casing volumes (5 x CV) (gals.):	10.36

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.07	4.14	6.22	8.29	10.36		7.00
Time (military)	9:37	9:39	9:41	9:43				9:44
PH (s.u.)	5.89	5.94	5.97	6.02				5.99
Specific Conductivity (µS/cm)	33.7	34.8	35.6	34.9				34.2
Water Temperature (°C)	21.5	22.0	21.9	21.9				21.8
Dissolved Oxygen (mg/L)	3.78	3.51	3.60	3.64				3.67
Turbidity (NTU)	7.21	139.80	257.60	307.60				221.90

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	9:44	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	7.00
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Notes:

Dry @ 7.00 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Alhendale	Project Manager:	Matthew Helrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-16	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	15-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	DRY	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	#VALUE!	1 casing volume (CV = LWC x C) (gals.):	#VALUE!	5 casing volumes (5 x CV) (gals.):	#VALUE!

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		
Time (military)	DRY							
PH (s.u.)	DRY							
Specific Conductivity (µS/cm)	DRY							
Water Temperature (°C)	DRY							
Dissolved Oxygen (mg/L)	DRY							
Turbidity (NTU)	DRY							

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	DRY	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	DRY
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Notes:

Well Gauged DRY; TD: 24.50' BTOC

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-17	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Baier
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	15-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	23.52	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	11.48	1 casing volume (CV = LWC x C) (gals.):	1.87	5 casing volumes (5 x CV) (gals.):	9.36

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.87	3.74	5.61	7.48	9.36		5.00
Time (military)	9:50	9:52	9:54					9:55
PH (s.u.)	6.39	6.21	6.17					6.19
Specific Conductivity (µS/cm)	46.4	42.4	43.0					43.7
Water Temperature (°C)	19.9	20.4	20.5					20.4
Dissolved Oxygen (mg/L)	4.21	4.06	3.91					3.94
Turbidity (NTU)	8.22	207.80	150.50					81.66

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	9:55	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	5.00
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Notes:

Dry @ 5.00 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Helrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-18	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailey
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	15-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	18.39	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	16.61	1 casing volume (CV = LWC x C) (gals.):	2.71	5 casing volumes (5 x CV) (gals.):	13.54

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.71	5.41	8.12	10.83	13.54		10.00
Time (military)	12:30	12:33	12:35	12:38				12:40
PH (s.u.)	6.33	6.21	6.27	6.28				6.34
Specific Conductivity (µS/cm)	90.4	81.2	80.9	79.8				81.4
Water Temperature (°C)	21.6	22.8	23.0	22.9				23
Dissolved Oxygen (mg/L)	2.27	2.06	2.12	2.15				2.21
Turbidity (NTU)	15.47	170.90	131.40	266.00				139.10

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	12:40	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.00
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Notes:

Dry @ 10.00 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Mitlin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	2013D1174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-19	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	15-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	19.42	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	15.58	1 casing volume (CV = LWC x C) (gals.):	2.54	5 casing volumes (5 x CV) (gals.):	12.70

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.54	5.08	7.62	10.16	12.70		9.00
Time (military)	12:15	12:17	12:20	12:22				12:24
PH (s.u.)	6.28	6.41	6.37	6.36				6.34
Specific Conductivity (µS/cm)	127.3	140.9	138.7	136.5				137
Water Temperature (°C)	22.0	22.5	22.6	22.7				22.7
Dissolved Oxygen (mg/L)	0.62	0.84	0.91	0.87				0.89
Turbidity (NTU)	10.21	61.57	131.50	196.70				93.48

### Sampling Data

Sampled By:	F. Mitlin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	12:24	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	9.00
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Notes:

Dry @ 9.00 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-20	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailey
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	15-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.)	ND	Depth to Groundwater (DGW) (ft.):	21.31	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	13.69	1 casing volume (CV = LWC x C) (gals.):	2.23	5 casing volumes (5 x CV) (gals.):	11.16

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.23	4.46	6.69	8.93	11.16		7.00
Time (military)	9:21	9:23	9:25	9:27				9:28
PH (s.u.)	6.98	6.79	6.84	6.88				6.91
Specific Conductivity (µS/cm)	95.4	87.8	88.7	86.4				85.9
Water Temperature (°C)	21.8	22.7	22.6	22.6				22.7
Dissolved Oxygen (mg/L)	2.69	2.84	2.79	2.64				2.67
Turbidity (NTU)	7.54	106.80	154.00	176.20				39.87

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	9:28	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	7.00
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Notes:

Dry @ 7.00 Gallons, No Odor

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

Date:	2/16/2018	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-21	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	24.94	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	10.06	1 casing volume (CV = LWC x C) (gals.):	1.84	5 casing volumes (5 x CV) (gals.):	9.20

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.84	3.28	4.92	6.56	8.20		6.00
Time (military)	11:50	11:52	11:53	11:55				11:56
PH (s.u.)	5.78	5.84	5.81	5.72				5.75
Specific Conductivity (µS/cm)	70.8	91.7	92.8	94.1				93.8
Water Temperature (°C)	22.7	24.9	25.0	24.9				24.9
Dissolved Oxygen (mg/L)	1.11	0.96	1.02	1.04				1.05
Turbidity (NTU)	17.79	162.80	243.90	172.80				215.60

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	11:56	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	6.00
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Notes:

Dry @ 6.00 Gallons, Strong Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Alendale	Project Manager:	Matthew Helrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	58

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103096	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	MW-22	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	25-35	Total Well Depth (TWD) (ft.):	35
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	23.75	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD – DGW) (ft.):	11.25	1 casing volume (CV = LWC x C) (gals.):	1.83	5 casing volumes (5 x CV) (gals.):	9.17

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.83	3.67	5.50	7.34	9.17		8.00
Time (military)	11:03	11:05	11:07	11:09	11:11			11:12
PH (s.u.)	6.11	6.16	6.27	6.34	6.27			6.24
Specific Conductivity (µS/cm)	142.4	157.1	160.2	164.8	166.1			165.5
Water Temperature (°C)	22.5	24.1	24.0	24.2	24.4			24.5
Dissolved Oxygen (mg/L)	0.67	0.72	0.77	0.79	0.76			0.73
Turbidity (NTU)	8.54	122.80	179.60	247.10	322.40			159.00

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	11:12	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	8.00
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Notes:

Dry @ 8.00 Gallons, Odor



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

Date:	2/16/2018	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	DW-1	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.18, 4" well = 0.652	0.183	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	65-70	Total Well Depth (TWD) (ft.):	70
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	24.90	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD – DGW) (ft.):	45.1	1 casing volume (CV = LWC x C) (gals.):	7.35	5 casing volumes (5 x CV) (gals.):	36.78

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	7.35	14.70	22.05	29.41	36.76		8.00
Time (military)	11:54	12:02						12:03
PH (s.u.)	5.96	6.09						6.07
Specific Conductivity (µS/cm)	122.7	111.3						112.8
Water Temperature (°C)	22.7	22.9						23
Dissolved Oxygen (mg/L)	2.85	2.64						2.77
Turbidity (NTU)	12.99	52.87						37.64

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	12:03	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	8.00
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Notes:

Dry @ 8.00 Gallons, No Odor

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

Date:	2/16/2015	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Mathew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103096	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	DW-2	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	65-70	Total Well Depth (TWD) (ft.):	70
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	23.26	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	46.74	1 casing volume (CV = LWC x C) (gals.):	7.62	5 casing volumes (5 x CV) (gals.):	38.09

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	7.62	15.24	22.86	30.47	38.09		12.00
Time (military)	13:05	13:13						13:17
PH (s.u.)	5.75	5.85						5.84
Specific Conductivity (µS/cm)	122.3	116.8						117.9
Water Temperature (°C)	22.4	22.8						22.7
Dissolved Oxygen (mg/L)	3.91	3.76						3.84
Turbidity (NTU)	5.71	6.42						11.17

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	13:17	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	12.00
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Notes:

Dry @ 12.00 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	DW-3	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	65-70	Total Well Depth (TWD) (ft.):	70
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	22.94	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	47.06	1 casing volume (CV = LWC x C) (gals.):	7.67	5 casing volumes (5 x CV) (gals.):	38.35

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	7.67	15.34	23.01	30.68	38.35		10.00
Time (military)	10:06	10:14						10:16
PH (s.u.)	5.95	6.07						6.02
Specific Conductivity (µS/cm)	183.9	170.8						172.7
Water Temperature (°C)	22.5	23.1						23
Dissolved Oxygen (mg/L)	1.09	0.94						0.87
Turbidity (NTU)	5.22	13.07						10.03

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	10:16	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.00
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Notes:

Dry @ 10.00 Gallons, No Odor



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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Mitlin, P. Wylie, J. Phillips, C. Hansen
County:	Allendale	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	DW-4	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailey
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	65-70	Total Well Depth (TWD) (ft.):	70
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	22.79	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	47.21	1 casing volume (CV = LWC x C) (gals.):	7.70	5 casing volumes (5 x CV) (gals.):	38.48

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	7.70	15.39	23.09	30.78	38.48		10.00
Time (military)	9:12	9:20						9:22
PH (s.u.)	7.02	6.97						6.95
Specific Conductivity (µS/cm)	151.2	147.6						146.9
Water Temperature (°C)	20.1	20.4						20.3
Dissolved Oxygen (mg/L)	4.70	5.21						5.16
Turbidity (NTU)	5.89	12.04						10.77

### Sampling Data

Sampled By:	F. Mitlin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	9:22	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	10.00
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Notes:

Dry @ 10.00 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Millin, P. Wylie, J. Phillips, C. Hansen
County:	Alameda	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	DW-5	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.15, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Bailer
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	80-85	Total Well Depth (TWD) (ft.):	85
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	24.78	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	60.22	1 casing volume (CV = LWC x C) (gals.):	9.82	5 casing volumes (5 x CV) (gals.):	49.08

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	9.82	19.63	29.45	39.26	49.08		16.00
Time (military)	10:35	10:45						10:51
PH (s.u.)	6.07	6.15						6.14
Specific Conductivity (µS/cm)	120.7	11.0						109.6
Water Temperature (°C)	20.4	20.8						20.9
Dissolved Oxygen (mg/L)	2.06	1.79						1.85
Turbidity (NTU)	5.06	11.15						9.37

### Sampling Data

Sampled By:	F. Millin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	10:51	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	16.00
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Notes: Dry @ 16.00 Gallons, No Odor

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

Date:	2/16/2016	Site ID #:	00332	Site Name:	Interstate Truck Stop	Field Personnel:	F. Mitlin, P. Wylie, J. Phillips, C. Hansen
County:	Alameda	Project Manager:	Matthew Hetrick	General Weather Conditions:	Sunny	Ambient Air Temp (°F):	56

### Quality Assurance

Meter Name	Serial #:	Calibration:							
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y
YSI Pro 20 (Dissolved Oxygen)	14H103098	Y or N	Y						
MicroTPI/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y		

### Well Information

Well ID:	DW-6	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Baier
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	80-85	Total Well Depth (TWD) (ft.):	85
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	26.34	Free Product Thickness (ft.):	Not Detected
Length of water column (LWC = TWD - DGW) (ft.):	58.66	1 casing volume (CV = LWC x C) (gals.):	9.56	5 casing volumes (5 x CV) (gals.):	47.81

### Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.00	9.56	19.12	28.68	38.25	47.81		30.00
Time (military)	11:00	21:10	11:20	11:30				11:31
PH (s.u.)	6.28	6.35	6.39	6.37				6.34
Specific Conductivity (µS/cm)	85.3	80.9	81.6	82.7				83.1
Water Temperature (°C)	20.1	20.9	21.0	20.9				21.0
Dissolved Oxygen (mg/L)	3.98	3.64	3.71	3.78				3.81
Turbidity (NTU)	8.11	10.79	15.06	12.27				10.00

### Sampling Data

Sampled By:	F. Mitlin, P. Wylie, J. Phillips, C. Hansen	Sampling Time:	11:31	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	30.00
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Notes:

Dry @ 30.00 Gallons, No Odor



February 23, 2016

Re: Treatment of Purge Water  
Interstate Truck Terminal  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 16--5450

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.


All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

**A total of 240.0 gallons were treated on February 16, 2016 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.



Kyle V. Pudney  
Project Biologist

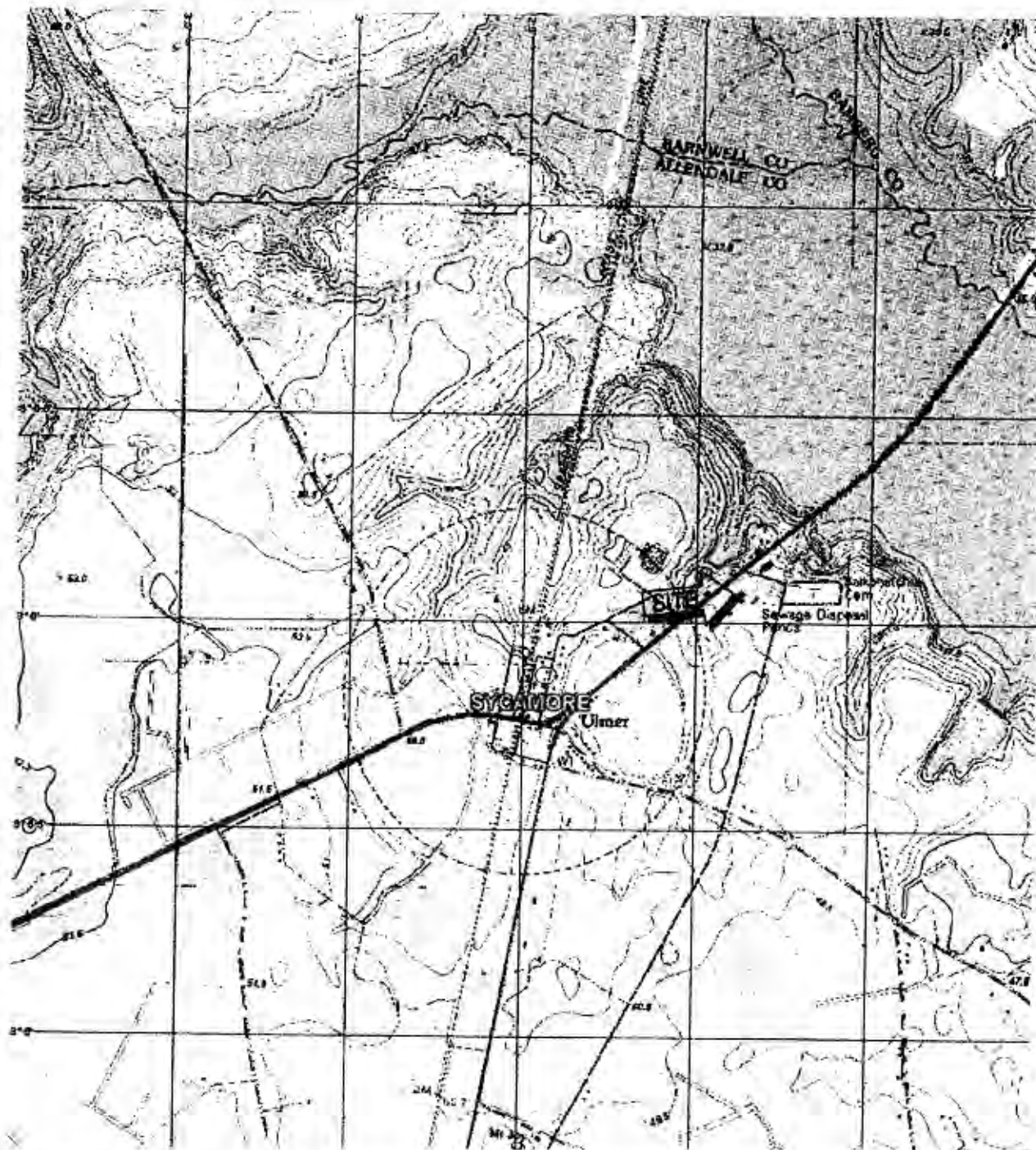








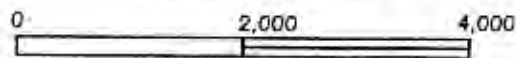




REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

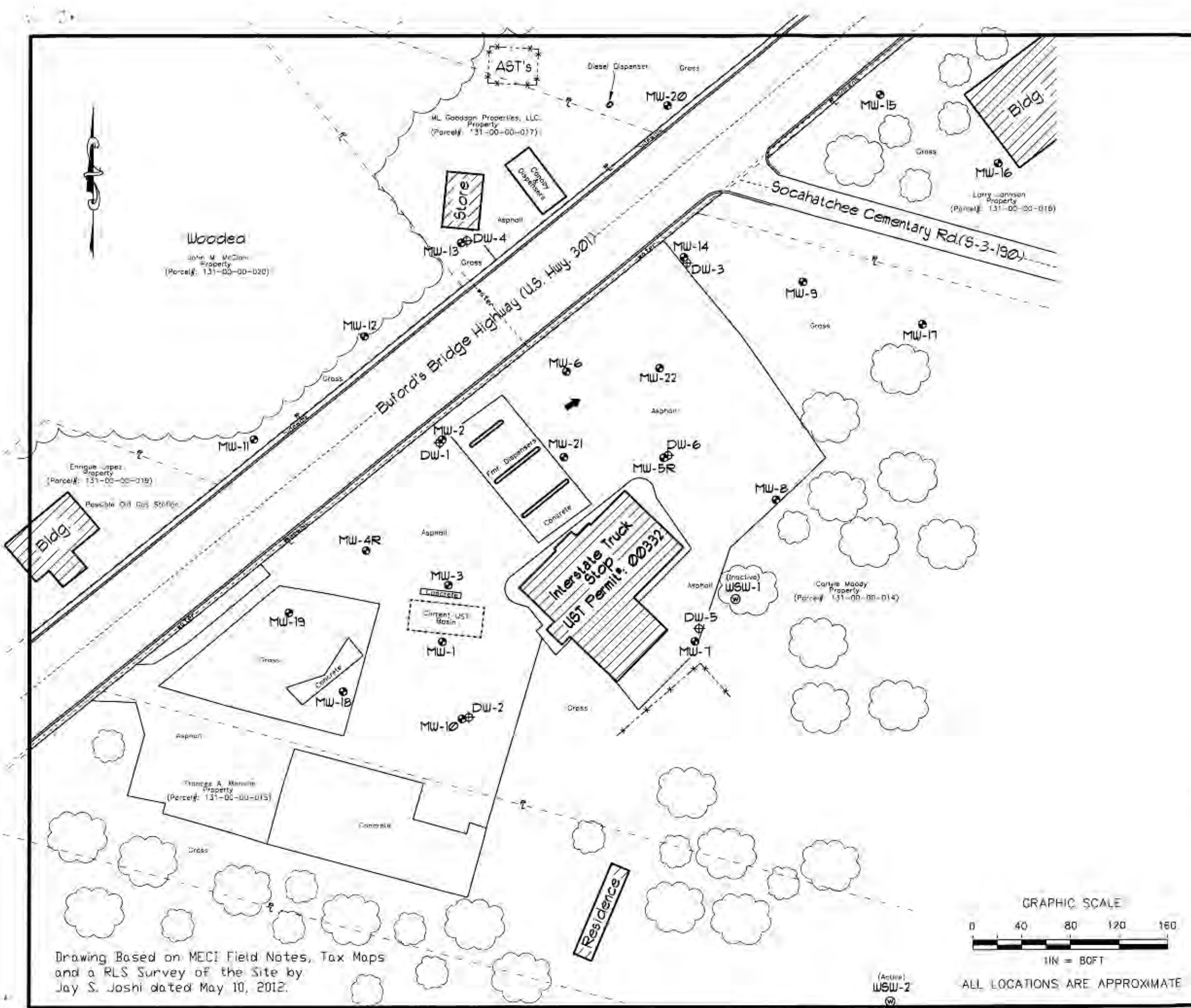
FIGURE 1  
SITE LOCATION MAP

CONSULTECH ENVIRONMENTAL, INC.



Environmental Consulting  
and Engineering  
© 1998

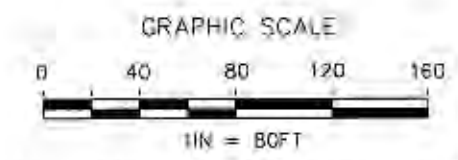
Delivering Innovative Solutions to Today's Environmental Concerns



**Explanation:**

- ⊕ Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊕ Location of Water Supply Well
- ➔ Estimated Groundwater Flow Direction
- ⊠ Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- - - Buried Water Line
- - - Fence

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.



<b>Site Base Map</b>	
Interstate Truck Stop U.S. Highway 321 & S-3-190 Ulmer, South Carolina SCDHEC Site ID 00332	
<b>Midlands Environmental Consultants, Inc.</b>	JOB NO: 12-3888
	DATE: June 5, 2012
FIGURE <b>2</b>	



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



February 26, 2016

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

RE: Project: INTERSTATE TR UST00332 CA51806  
Pace Project No.: 92286818

Dear Mr. Bryant:

Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
Project Manager

Enclosures

cc. Ashleigh Thrash, SCHDEC



**REPORT OF LABORATORY ANALYSIS**

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

## CERTIFICATIONS

Project: INTERSTATE TR UST00332 CA51806  
Pace Project No.: 92286818

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### **Charlotte Certification IDs**

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

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

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## REPORT OF LABORATORY ANALYSIS

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**SAMPLE SUMMARY**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92286818001	MW 1	Water	02/16/16 13:31	02/17/16 09:29
92286818002	MW 2	Water	02/16/16 12:07	02/17/16 09:29
92286818003	MW 3	Water	02/16/16 13:32	02/17/16 09:29
92286818004	MW 4R	Water	02/16/16 12:37	02/17/16 09:29
92286818005	MW 5R	Water	02/16/16 11:09	02/17/16 09:29
92286818006	MW 6	Water	02/16/16 11:49	02/17/16 09:29
92286818007	MW 7	Water	02/16/16 10:28	02/17/16 09:29
92286818008	MW 8	Water	02/16/16 10:27	02/17/16 09:29
92286818009	MW 9	Water	02/16/16 10:03	02/17/16 09:29
92286818010	MW 10	Water	02/16/16 13:00	02/17/16 09:29
92286818011	MW 11	Water	02/16/16 09:09	02/17/16 09:29
92286818012	MW 12	Water	02/16/16 09:12	02/17/16 09:29
92286818013	MW 13	Water	02/16/16 09:11	02/17/16 09:29
92286818014	MW 14	Water	02/16/16 10:15	02/17/16 09:29
92286818015	MW 15	Water	02/16/16 09:44	02/17/16 09:29
92286818016	MW 17	Water	02/16/16 09:55	02/17/16 09:29
92286818017	MW 18	Water	02/16/16 12:40	02/17/16 09:29
92286818018	MW 19	Water	02/16/16 12:24	02/17/16 09:29
92286818019	MW 20	Water	02/16/16 09:28	02/17/16 09:29
92286818020	MW 21	Water	02/16/16 11:56	02/17/16 09:29
92286818021	MW 22	Water	02/16/16 11:12	02/17/16 09:29
92286818022	DW 1	Water	02/16/16 12:03	02/17/16 09:29
92286818023	DW 2	Water	02/16/16 13:17	02/17/16 09:29
92286818024	DW 3	Water	02/16/16 10:16	02/17/16 09:29
92286818025	DW 4	Water	02/16/16 09:22	02/17/16 09:29
92286818026	DW 5	Water	02/16/16 10:51	02/17/16 09:29
92286818027	DW 6	Water	02/16/16 11:31	02/17/16 09:29
92286818028	WSW 2	Water	02/16/16 13:45	02/17/16 09:29
92286818029	MW 2 DUPLICATE	Water	02/16/16 12:07	02/17/16 09:29
92286818030	MW 1 DUPLICATE	Water	02/16/16 13:31	02/17/16 09:29
92286818031	FIELD BLANK	Water	02/16/16 13:35	02/17/16 09:29
92286818032	TRIP BLANK	Water	02/16/16 13:36	02/17/16 09:29
92286818033	TRIP BLANK 2	Water	02/16/16 13:36	02/17/16 09:29

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No. 92286818

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92286818001	MW 1	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818002	MW 2	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818003	MW 3	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818004	MW 4R	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818005	MW 5R	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818006	MW 6	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818007	MW 7	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818008	MW 8	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818009	MW 9	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818010	MW 10	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818011	MW 11	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818012	MW 12	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818013	MW 13	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818014	MW 14	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818015	MW 15	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818016	MW 17	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818017	MW 18	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818018	MW 19	EPA 8011	HSK	2	PASI-C
		EPA 8260	CCL	20	PASI-C
92286818019	MW 20	EPA 8011	HSK	2	PASI-C

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**SAMPLE ANALYTE COUNT**

Project INTERSTATE TR UST00332 CA51806

Pace Project No.: 92286818

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92286818020	MW 21	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818021	MW 22	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818022	DW 1	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818023	DW 2	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818024	DW 3	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818025	DW 4	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818026	DW 5	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818027	DW 6	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818028	WSW 2	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818029	MW 2 DUPLICATE	EPA 8260	GAW	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818030	MW 1 DUPLICATE	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818031	FIELD BLANK	EPA 8260	CCL	20	PASI-C
		EPA 8011	HSK	2	PASI-C
92286818032	TRIP BLANK	EPA 8260	CCL	20	PASI-C
92286818033	TRIP BLANK 2	EPA 8260	CCL	20	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92286818002</b>	<b>MW 2</b>					
EPA 8260	Ethylbenzene	1180	ug/L	62.5	02/19/16 17:59	
EPA 8260	Naphthalene	133	ug/L	62.5	02/19/16 17:59	
EPA 8260	Toluene	155	ug/L	62.5	02/19/16 17:59	
EPA 8260	Xylene (Total)	3840	ug/L	125	02/19/16 17:59	
EPA 8260	m&p-Xylene	3840	ug/L	125	02/19/16 17:59	
EPA 8260	o-Xylene	54.9J	ug/L	62.5	02/19/16 17:59	
<b>92286818003</b>	<b>MW 3</b>					
EPA 8260	Ethylbenzene	235	ug/L	12.5	02/19/16 18:17	
EPA 8260	Naphthalene	112	ug/L	12.5	02/19/16 18:17	
EPA 8260	Toluene	11.8J	ug/L	12.5	02/19/16 18:17	
EPA 8260	Xylene (Total)	1070	ug/L	25.0	02/19/16 18:17	
EPA 8260	m&p-Xylene	888	ug/L	25.0	02/19/16 18:17	
EPA 8260	o-Xylene	186	ug/L	12.5	02/19/16 18:17	
<b>92286818004</b>	<b>MW 4R</b>					
EPA 8260	Ethylbenzene	109	ug/L	5.0	02/19/16 08:39	
EPA 8260	Naphthalene	34.4	ug/L	5.0	02/19/16 08:39	
EPA 8260	Toluene	84.4	ug/L	5.0	02/19/16 08:39	
EPA 8260	Xylene (Total)	1070	ug/L	40.0	02/19/16 14:30	
EPA 8260	m&p-Xylene	866	ug/L	40.0	02/19/16 14:30	
EPA 8260	o-Xylene	205	ug/L	20.0	02/19/16 14:30	
<b>92286818005</b>	<b>MW 5R</b>					
EPA 8260	Ethylbenzene	35.9	ug/L	5.0	02/19/16 08:57	
EPA 8260	Naphthalene	36.0	ug/L	5.0	02/19/16 08:57	
EPA 8260	Xylene (Total)	41.3	ug/L	10.0	02/19/16 08:57	
EPA 8260	m&p-Xylene	41.3	ug/L	10.0	02/19/16 08:57	
EPA 8260	o-Xylene	1.7J	ug/L	5.0	02/19/16 08:57	
<b>92286818006</b>	<b>MW 6</b>					
EPA 8260	Benzene	38.6J	ug/L	50.0	02/19/16 18:34	
EPA 8260	Ethylbenzene	628	ug/L	50.0	02/19/16 18:34	
EPA 8260	Naphthalene	203	ug/L	50.0	02/19/16 18:34	
EPA 8260	Toluene	292	ug/L	50.0	02/19/16 18:34	
EPA 8260	Xylene (Total)	2540	ug/L	100	02/19/16 18:34	
EPA 8260	m&p-Xylene	2400	ug/L	100	02/19/16 18:34	
EPA 8260	o-Xylene	141	ug/L	50.0	02/19/16 18:34	
<b>92286818008</b>	<b>MW 8</b>					
EPA 8260	Ethanol	194J	ug/L	200	02/19/16 05:26	
<b>92286818009</b>	<b>MW 9</b>					
EPA 8260	Benzene	8.3J	ug/L	10.0	02/19/16 18:51	
EPA 8260	Ethylbenzene	49.1	ug/L	10.0	02/19/16 18:51	
EPA 8260	Naphthalene	220	ug/L	10.0	02/19/16 18:51	
EPA 8260	Toluene	29.5	ug/L	10.0	02/19/16 18:51	
EPA 8260	Xylene (Total)	419	ug/L	20.0	02/19/16 18:51	
EPA 8260	m&p-Xylene	299	ug/L	20.0	02/19/16 18:51	
EPA 8260	o-Xylene	120	ug/L	10.0	02/19/16 18:51	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No : 92286818

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92286818011</b>	<b>MW 11</b>					
EPA 8260	Ethylbenzene	12.7	ug/L	5.0	02/19/16 17:07	
EPA 8260	Toluene	4.5J	ug/L	5.0	02/19/16 17:07	
EPA 8260	Xylene (Total)	24.9	ug/L	10.0	02/19/16 17:07	
EPA 8260	m&p-Xylene	14.2	ug/L	10.0	02/19/16 17:07	
EPA 8260	o-Xylene	10.7	ug/L	5.0	02/19/16 17:07	
<b>92286818012</b>	<b>MW 12</b>					
EPA 8260	Ethylbenzene	12.6	ug/L	5.0	02/19/16 12:27	
EPA 8260	Toluene	3.7J	ug/L	5.0	02/19/16 12:27	
EPA 8260	Xylene (Total)	20.1	ug/L	10.0	02/19/16 12:27	
EPA 8260	m&p-Xylene	11.3	ug/L	10.0	02/19/16 12:27	
EPA 8260	o-Xylene	8.8	ug/L	5.0	02/19/16 12:27	
<b>92286818014</b>	<b>MW 14</b>					
EPA 8260	Benzene	33.1	ug/L	25.0	02/19/16 10:42	
EPA 8260	Ethylbenzene	675	ug/L	25.0	02/19/16 10:42	
EPA 8260	Naphthalene	134	ug/L	25.0	02/19/16 10:42	
EPA 8260	Toluene	250	ug/L	25.0	02/19/16 10:42	
EPA 8260	Xylene (Total)	2890	ug/L	100	02/19/16 14:47	
EPA 8260	m&p-Xylene	2840	ug/L	100	02/19/16 14:47	
EPA 8260	o-Xylene	51.2	ug/L	25.0	02/19/16 10:42	
<b>92286818017</b>	<b>MW 18</b>					
EPA 8260	Ethylbenzene	2.0J	ug/L	5.0	02/19/16 12:10	
EPA 8260	m&p-Xylene	8.9J	ug/L	10.0	02/19/16 12:10	
<b>92286818018</b>	<b>MW 19</b>					
EPA 8260	Ethylbenzene	2.6J	ug/L	5.0	02/19/16 09:32	
EPA 8260	Xylene (Total)	12.1	ug/L	10.0	02/19/16 09:32	
EPA 8260	m&p-Xylene	12.1	ug/L	10.0	02/19/16 09:32	
<b>92286818020</b>	<b>MW 21</b>					
EPA 8011	1,2-Dibromoethane (EDB)	0.050	ug/L	0.019	02/22/16 22:05	
EPA 8260	Benzene	12.2J	ug/L	25.0	02/19/16 19:09	
EPA 8260	Ethylbenzene	301	ug/L	25.0	02/19/16 19:09	
EPA 8260	Naphthalene	140	ug/L	25.0	02/19/16 19:09	
EPA 8260	Toluene	225	ug/L	25.0	02/19/16 19:09	
EPA 8260	Xylene (Total)	1680	ug/L	50.0	02/19/16 19:09	
EPA 8260	m&p-Xylene	1220	ug/L	50.0	02/19/16 19:09	
EPA 8260	o-Xylene	458	ug/L	25.0	02/19/16 19:09	
<b>92286818021</b>	<b>MW 22</b>					
EPA 8260	Ethylbenzene	407	ug/L	25.0	02/19/16 11:17	
EPA 8260	Naphthalene	157	ug/L	25.0	02/19/16 11:17	
EPA 8260	Toluene	288	ug/L	25.0	02/19/16 11:17	
EPA 8260	Xylene (Total)	1710	ug/L	50.0	02/19/16 11:17	
EPA 8260	m&p-Xylene	1530	ug/L	50.0	02/19/16 11:17	
EPA 8260	o-Xylene	173	ug/L	25.0	02/19/16 11:17	

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**SUMMARY OF DETECTION**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92286818024</b>	<b>DW 3</b>					
EPA 8260	tert-Amyl Alcohol	275	ug/L	100	02/22/16 21:17	
EPA 8260	Benzene	33.9	ug/L	5.0	02/22/16 21:17	
EPA 8260	Ethylbenzene	181	ug/L	5.0	02/22/16 21:17	
EPA 8260	Naphthalene	40.0	ug/L	5.0	02/22/16 21:17	
EPA 8260	Toluene	6.3	ug/L	5.0	02/22/16 21:17	
EPA 8260	Xylene (Total)	21.6	ug/L	10.0	02/22/16 21:17	
EPA 8260	m&p-Xylene	21.6	ug/L	10.0	02/22/16 21:17	
<b>92286818029</b>	<b>MW 2 DUPLICATE</b>					
EPA 8260	Ethylbenzene	1180	ug/L	62.5	02/20/16 00:42	
EPA 8260	Naphthalene	137	ug/L	62.5	02/20/16 00:42	
EPA 8260	Toluene	144	ug/L	62.5	02/20/16 00:42	
EPA 8260	Xylene (Total)	3810	ug/L	125	02/20/16 00:42	
EPA 8260	m&p-Xylene	3810	ug/L	125	02/20/16 00:42	
EPA 8260	o-Xylene	58.1J	ug/L	62.5	02/20/16 00:42	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No: 92286818

Sample: **MW 1** Lab ID: **92286818001** Collected: 02/16/16 13:31 Received: 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/19/16 13:41	02/20/16 17:58	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	02/19/16 13:41	02/20/16 17:58	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 08:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 08:22	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 08:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 08:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 08:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 08:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 08:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 08:22	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 08:22	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 08:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 08:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 08:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 08:22	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 08:22	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 08:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 08:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 08:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/16 08:22	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/19/16 08:22	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/19/16 08:22	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

Sample: MW 2 Lab ID: 92286818002 Collected: 02/16/16 12.07 Received 02/17/16 09 29 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0 020	0.020	1	02/19/16 13 41	02/20/16 18 19	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	138	%	60-140		1	02/19/16 13.41	02/20/16 18:19	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260									
tert-Amyl Alcohol	ND	ug/L	1250	960	12.5		02/19/16 17:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	42.5	12.5		02/19/16 17:59	994-05-8	
Benzene	ND	ug/L	62.5	21.2	12.5		02/19/16 17:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	401	12.5		02/19/16 17:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	721	12.5		02/19/16 17:59	75-65-0	
tert-Butyl Formate	ND	ug/L	625	91.2	12.5		02/19/16 17:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	22.5	12.5		02/19/16 17:59	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	21.2	12.5		02/19/16 17:59	108-20-3	
Ethanol	ND	ug/L	2500	1720	12.5		02/19/16 17:59	64-17-5	
Ethylbenzene	1180	ug/L	62.5	20.0	12.5		02/19/16 17:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	45.0	12.5		02/19/16 17:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	21.2	12.5		02/19/16 17:59	1634-04-4	
Naphthalene	133	ug/L	62.5	25.0	12.5		02/19/16 17:59	91-20-3	
Toluene	155	ug/L	62.5	20.0	12.5		02/19/16 17:59	108-88-3	
Xylene (Total)	3840	ug/L	125	33.8	12.5		02/19/16 17:59	1330-20-7	
m&p-Xylene	3840	ug/L	125	38.8	12.5		02/19/16 17:59	179601-23-1	
o-Xylene	54.9J	ug/L	62.5	20.0	12.5		02/19/16 17:59	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		12.5		02/19/16 17:59	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		12.5		02/19/16 17:59	17060-07-0	
Toluene-d8 (S)	102	%	70-130		12.5		02/19/16 17:59	2037-26-5	

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### ANALYTICAL RESULTS

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 3 Lab ID: 92286818003 Collected: 02/16/16 13:32 Received: 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/19/16 13:41	02/20/16 18:39	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	02/19/16 13:41	02/20/16 18:39	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	250	192	2.5		02/19/16 18:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	25.0	8.5	2.5		02/19/16 18:17	994-05-8	
Benzene	ND	ug/L	12.5	4.2	2.5		02/19/16 18:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	250	80.2	2.5		02/19/16 18:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	250	144	2.5		02/19/16 18:17	75-65-0	
tert-Butyl Formate	ND	ug/L	125	18.2	2.5		02/19/16 18:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	12.5	4.5	2.5		02/19/16 18:17	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	4.2	2.5		02/19/16 18:17	108-20-3	
Ethanol	ND	ug/L	500	344	2.5		02/19/16 18:17	64-17-5	
Ethylbenzene	235	ug/L	12.5	4.0	2.5		02/19/16 18:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	25.0	9.0	2.5		02/19/16 18:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	12.5	4.2	2.5		02/19/16 18:17	1634-04-4	
Naphthalene	112	ug/L	12.5	5.0	2.5		02/19/16 18:17	91-20-3	
Toluene	11.8J	ug/L	12.5	4.0	2.5		02/19/16 18:17	108-88-3	
Xylene (Total)	1070	ug/L	25.0	6.8	2.5		02/19/16 18:17	1330-20-7	
m&p-Xylene	888	ug/L	25.0	7.8	2.5		02/19/16 18:17	179601-23-1	
o-Xylene	186	ug/L	12.5	4.0	2.5		02/19/16 18:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		2.5		02/19/16 18:17	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		2.5		02/19/16 18:17	17060-07-0	
Toluene-d8 (S)	99	%	70-130		2.5		02/19/16 18:17	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No: 92286818

Sample: MW 4R Lab ID: 92286818004 Collected: 02/16/16 12:37 Received 02/17/16 09:29 Matrix Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/19/16 13:41	02/20/16 18:59	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	02/19/16 13:41	02/20/16 18:59	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 08:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 08:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 08:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 08:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 08:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 08:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 08:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 08:39	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 08:39	64-17-5	
Ethylbenzene	109	ug/L	5.0	1.6	1		02/19/16 08:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 08:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 08:39	1634-04-4	
Naphthalene	34.4	ug/L	5.0	2.0	1		02/19/16 08:39	91-20-3	
Toluene	84.4	ug/L	5.0	1.6	1		02/19/16 08:39	108-88-3	
Xylene (Total)	1070	ug/L	40.0	10.8	4		02/19/16 14:30	1330-20-7	
m&p-Xylene	866	ug/L	40.0	12.4	4		02/19/16 14:30	179601-23-1	
o-Xylene	205	ug/L	20.0	6.4	4		02/19/16 14:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/19/16 08:39	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/19/16 08:39	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/19/16 08:39	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: **MW 5R** Lab ID: **92286818005** Collected: 02/16/16 11:09 Received: 02/17/16 09:29 Matrix Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/19/16 13:41	02/20/16 19:20	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	02/19/16 13:41	02/20/16 19:20	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 08:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 08:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 08:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 08:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 08:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 08:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 08:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 08:57	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 08:57	64-17-5	
Ethylbenzene	35.9	ug/L	5.0	1.6	1		02/19/16 08:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 08:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 08:57	1634-04-4	
Naphthalene	36.0	ug/L	5.0	2.0	1		02/19/16 08:57	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 08:57	108-88-3	
Xylene (Total)	41.3	ug/L	10.0	2.7	1		02/19/16 08:57	1330-20-7	
m&p-Xylene	41.3	ug/L	10.0	3.1	1		02/19/16 08:57	179601-23-1	
o-Xylene	1.7J	ug/L	5.0	1.6	1		02/19/16 08:57	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/16 08:57	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/19/16 08:57	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/19/16 08:57	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No : 92286818

Sample: MW 6 Lab ID: 92286818006 Collected: 02/16/16 11:49 Received 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/19/16 13:41	02/20/16 19:40	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	141	%	60-140		1	02/19/16 13:41	02/20/16 19:40	301-79-56	S3
<b>8260 MSV</b>									
Analytical Method EPA 8260									
tert-Amyl Alcohol	ND	ug/L	1000	768	10		02/19/16 18:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		02/19/16 18:34	994-05-8	
Benzene	38.6J	ug/L	50.0	17.0	10		02/19/16 18:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		02/19/16 18:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		02/19/16 18:34	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		02/19/16 18:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		02/19/16 18:34	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		02/19/16 18:34	108-20-3	
Ethanol	ND	ug/L	2000	1380	10		02/19/16 18:34	64-17-5	
Ethylbenzene	628	ug/L	50.0	16.0	10		02/19/16 18:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		02/19/16 18:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		02/19/16 18:34	1634-04-4	
Naphthalene	203	ug/L	50.0	20.0	10		02/19/16 18:34	91-20-3	
Toluene	292	ug/L	50.0	16.0	10		02/19/16 18:34	108-88-3	
Xylene (Total)	2540	ug/L	100	27.0	10		02/19/16 18:34	1330-20-7	
m&p-Xylene	2400	ug/L	100	31.0	10		02/19/16 18:34	179601-23-1	
o-Xylene	141	ug/L	50.0	16.0	10		02/19/16 18:34	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		10		02/19/16 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		10		02/19/16 18:34	17060-07-0	
Toluene-d8 (S)	100	%	70-130		10		02/19/16 18:34	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 7 Lab ID: 92286818007 Collected: 02/16/16 10:28 Received 02/17/16 09:29 Matrx. Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/22/16 13:24	02/22/16 16:40	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	02/22/16 13:24	02/22/16 16:40	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 05:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 05:09	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 05:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 05:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 05:09	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 05:09	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 05:09	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 05:09	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 05:09	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 05:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 05:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 05:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 05:09	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 05:09	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 05:09	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 05:09	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 05:09	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/16 05:09	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/19/16 05:09	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/19/16 05:09	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No: 92286818

Sample: MW 8 Lab ID: 92286818008 Collected: 02/16/16 10:27 Received: 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method. EPA 8011		Preparation Method EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:24	02/22/16 17:40	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	02/22/16 13:24	02/22/16 17:40	301-79-56	
<b>8260 MSV</b>		Analytical Method. EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 05:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 05:26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 05:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 05:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 05:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 05:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 05:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 05:26	108-20-3	
Ethanol	<b>194J</b>	ug/L	200	138	1		02/19/16 05:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 05:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 05:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 05:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 05:26	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 05:26	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 05:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 05:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 05:26	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/19/16 05:26	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		02/19/16 05:26	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/19/16 05:26	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

Sample: **MW 9** Lab ID: **92286818009** Collected 02/16/16 10:03 Received 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:24	02/22/16 18:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	02/22/16 13:24	02/22/16 18:21	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	200	154	2		02/19/16 18:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.8	2		02/19/16 18:51	994-05-8	
Benzene	<b>8.3J</b>	ug/L	10.0	3.4	2		02/19/16 18:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	64.2	2		02/19/16 18:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	115	2		02/19/16 18:51	75-65-0	
tert-Butyl Formate	ND	ug/L	100	14.6	2		02/19/16 18:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	3.6	2		02/19/16 18:51	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	3.4	2		02/19/16 18:51	108-20-3	
Ethanol	ND	ug/L	400	276	2		02/19/16 18:51	64-17-5	
Ethylbenzene	<b>49.1</b>	ug/L	10.0	3.2	2		02/19/16 18:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	7.2	2		02/19/16 18:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	3.4	2		02/19/16 18:51	1634-04-4	
Naphthalene	<b>220</b>	ug/L	10.0	4.0	2		02/19/16 18:51	91-20-3	
Toluene	<b>29.5</b>	ug/L	10.0	3.2	2		02/19/16 18:51	108-88-3	
Xylene (Total)	<b>419</b>	ug/L	20.0	5.4	2		02/19/16 18:51	1330-20-7	
m&p-Xylene	<b>299</b>	ug/L	20.0	6.2	2		02/19/16 18:51	179601-23-1	
o-Xylene	<b>120</b>	ug/L	10.0	3.2	2		02/19/16 18:51	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		2		02/19/16 18:51	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		2		02/19/16 18:51	17060-07-0	
Toluene-d8 (S)	103	%	70-130		2		02/19/16 18:51	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 10		Lab ID: 92286818010		Collected	02/16/16 13:00	Received	02/17/16 09:29	Matrix	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:24	02/22/16 18:41	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	02/22/16 13:24	02/22/16 18:41	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 06:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 06:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 06:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 06:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 06:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 06:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 06:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 06:01	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 06:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 06:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 06:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 06:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 06:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 06:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 06:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 06:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 06:01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/16 06:01	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		02/19/16 06:01	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/19/16 06:01	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TR UST00332 CA51806

Pace Project No.: 92286818

Sample: MW 11									
Lab ID: 92286818011 Collected 02/16/16 09:09 Received 02/17/16 09:29 Matrix Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:24	02/22/16 19:01	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	02/22/16 13:24	02/22/16 19:01	301-79-56	
<b>8260 MSV</b> Analytical Method EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 17:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 17:07	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 17:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 17:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 17:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 17:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 17:07	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 17:07	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 17:07	64-17-5	
Ethylbenzene	12.7	ug/L	5.0	1.6	1		02/19/16 17:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 17:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 17:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 17:07	91-20-3	
Toluene	4.5J	ug/L	5.0	1.6	1		02/19/16 17:07	108-88-3	
Xylene (Total)	24.9	ug/L	10.0	2.7	1		02/19/16 17:07	1330-20-7	
m&p-Xylene	14.2	ug/L	10.0	3.1	1		02/19/16 17:07	179601-23-1	
o-Xylene	10.7	ug/L	5.0	1.6	1		02/19/16 17:07	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/19/16 17:07	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/19/16 17:07	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/19/16 17:07	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 12									
Lab ID: 92286818012 Collected 02/16/16 09:12 Received 02/17/16 09:29 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:24	02/22/16 19:22	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	02/22/16 13:24	02/22/16 19:22	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 12:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 12:27	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 12:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 12:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 12:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 12:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 12:27	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 12:27	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 12:27	64-17-5	
Ethylbenzene	12.6	ug/L	5.0	1.6	1		02/19/16 12:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 12:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 12:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 12:27	91-20-3	
Toluene	3.7J	ug/L	5.0	1.6	1		02/19/16 12:27	108-88-3	
Xylene (Total)	20.1	ug/L	10.0	2.7	1		02/19/16 12:27	1330-20-7	
m&p-Xylene	11.3	ug/L	10.0	3.1	1		02/19/16 12:27	179601-23-1	
o-Xylene	8.8	ug/L	5.0	1.6	1		02/19/16 12:27	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/16 12:27	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/19/16 12:27	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/19/16 12:27	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No. 92286818

Sample: MW 13 Lab ID: 92286818013 Collected: 02/16/16 09:11 Received: 02/17/16 09:29 Matrix Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/22/16 13:24	02/22/16 19:42	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	02/22/16 13:24	02/22/16 19:42	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 09:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 09:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 09:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 09:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 09:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 09:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 09:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 09:14	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 09:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 09:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 09:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 09:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 09:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 09:14	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 09:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 09:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 09:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/16 09:14	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/19/16 09:14	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/19/16 09:14	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No : 92286818

Sample: MW 14 Lab ID: 92286818014 Collected: 02/16/16 10:15 Received: 02/17/16 09 29 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/22/16 13:24	02/22/16 20:02	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	118	%	60-140		1	02/22/16 13:24	02/22/16 20:02	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	500	384	5		02/19/16 10:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		02/19/16 10:42	994-05-8	
Benzene	33.1	ug/L	25.0	8.5	5		02/19/16 10:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		02/19/16 10:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		02/19/16 10:42	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		02/19/16 10:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		02/19/16 10:42	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		02/19/16 10:42	108-20-3	
Ethanol	ND	ug/L	1000	689	5		02/19/16 10:42	64-17-5	
Ethylbenzene	675	ug/L	25.0	8.0	5		02/19/16 10:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		02/19/16 10:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		02/19/16 10:42	1634-04-4	
Naphthalene	134	ug/L	25.0	10.0	5		02/19/16 10:42	91-20-3	
Toluene	250	ug/L	25.0	8.0	5		02/19/16 10:42	108-88-3	
Xylene (Total)	2890	ug/L	100	27.0	10		02/19/16 14:47	1330-20-7	
m&p-Xylene	2840	ug/L	100	31.0	10		02/19/16 14:47	179601-23-1	
o-Xylene	51.2	ug/L	25.0	8.0	5		02/19/16 10:42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		5		02/19/16 10:42	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		5		02/19/16 10:42	17060-07-0	
Toluene-d8 (S)	100	%	70-130		5		02/19/16 10:42	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 15 Lab ID: 92286818015 Collected: 02/16/16 09:44 Received: 02/17/16 09:29 Matrx: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/22/16 13:25	02/22/16 20:23	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	02/22/16 13:25	02/22/16 20:23	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 11:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 11:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 11:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 11:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 11:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 11:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 11:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 11:35	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 11:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 11:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 11:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 11:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 11:35	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 11:35	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 11:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 11:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 11:35	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/16 11:35	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/19/16 11:35	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/19/16 11:35	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 17 Lab ID: 92286818016 Collected: 02/16/16 09:55 Received: 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0 019	0 019	1	02/22/16 13 25	02/22/16 20 43	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	02/22/16 13:25	02/22/16 20:43	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 11:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 11:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 11:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 11:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 11:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 11:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 11:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 11:52	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 11:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 11:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 11:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 11:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 11:52	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 11:52	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 11:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 11:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 11:52	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		02/19/16 11:52	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/19/16 11:52	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/19/16 11:52	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 18 Lab ID: 92286818017 Collected: 02/16/16 12:40 Received: 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:25	02/22/16 21:04	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	02/22/16 13:25	02/22/16 21:04	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 12:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 12:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 12:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 12:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 12:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 12:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 12:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 12:10	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 12:10	64-17-5	
Ethylbenzene	2.0J	ug/L	5.0	1.6	1		02/19/16 12:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 12:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 12:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 12:10	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 12:10	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 12:10	1330-20-7	
m&p-Xylene	8.9J	ug/L	10.0	3.1	1		02/19/16 12:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 12:10	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/16 12:10	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/19/16 12:10	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/19/16 12:10	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No . 92286818

Sample: MW 19									
Lab ID: 92286818018 Collected. 02/16/16 12 24 Received 02/17/16 09 29 Matrix Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:25	02/22/16 21 24	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	02/22/16 13:25	02/22/16 21 24	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 09:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 09:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 09:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 09:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 09:32	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 09:32	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 09:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 09:32	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 09:32	64-17-5	
Ethylbenzene	2.6J	ug/L	5.0	1.6	1		02/19/16 09:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 09:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 09:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 09:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 09:32	108-88-3	
Xylene (Total)	12.1	ug/L	10.0	2.7	1		02/19/16 09:32	1330-20-7	
m&p-Xylene	12.1	ug/L	10.0	3.1	1		02/19/16 09:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 09:32	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/16 09:32	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/19/16 09:32	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/19/16 09:32	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 20 Lab ID: 92286818019 Collected: 02/16/16 09:28 Received: 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/22/16 13:25	02/22/16 21:44	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	87	%	60-140		1	02/22/16 13:25	02/22/16 21:44	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 09:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 09:49	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 09:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 09:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 09:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 09:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 09:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 09:49	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 09:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 09:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 09:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 09:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 09:49	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 09:49	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 09:49	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 09:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 09:49	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/16 09:49	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/19/16 09:49	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/19/16 09:49	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 21 Lab ID: 92286818020 Collected 02/16/16 11:56 Received 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	0.050	ug/L	0.019	0.019	1	02/22/16 13:25	02/22/16 22:05	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	02/22/16 13:25	02/22/16 22:05	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	500	384	5		02/19/16 19:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		02/19/16 19:09	994-05-8	
Benzene	12.2J	ug/L	25.0	8.5	5		02/19/16 19:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		02/19/16 19:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		02/19/16 19:09	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		02/19/16 19:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		02/19/16 19:09	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		02/19/16 19:09	108-20-3	
Ethanol	ND	ug/L	1000	689	5		02/19/16 19:09	64-17-5	
Ethylbenzene	301	ug/L	25.0	8.0	5		02/19/16 19:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		02/19/16 19:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		02/19/16 19:09	1634-04-4	
Naphthalene	140	ug/L	25.0	10.0	5		02/19/16 19:09	91-20-3	
Toluene	225	ug/L	25.0	8.0	5		02/19/16 19:09	108-88-3	
Xylene (Total)	1680	ug/L	50.0	13.5	5		02/19/16 19:09	1330-20-7	
m&p-Xylene	1220	ug/L	50.0	15.5	5		02/19/16 19:09	179601-23-1	
o-Xylene	458	ug/L	25.0	8.0	5		02/19/16 19:09	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		5		02/19/16 19:09	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		5		02/19/16 19:09	17060-07-0	
Toluene-d8 (S)	102	%	70-130		5		02/19/16 19:09	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 22		Lab ID: 92286818021		Collected	02/16/16 11:12	Received	02/17/16 09:29	Matrix	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:25	02/22/16 22:25	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	77	%	60-140		1	02/22/16 13:25	02/22/16 22:25	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260							
tert-Amyl Alcohol	ND	ug/L	500	384	5		02/19/16 11:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		02/19/16 11:17	994-05-8	
Benzene	ND	ug/L	25.0	8.5	5		02/19/16 11:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		02/19/16 11:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		02/19/16 11:17	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		02/19/16 11:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		02/19/16 11:17	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		02/19/16 11:17	108-20-3	
Ethanol	ND	ug/L	1000	689	5		02/19/16 11:17	64-17-5	
Ethylbenzene	<b>407</b>	ug/L	25.0	8.0	5		02/19/16 11:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		02/19/16 11:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		02/19/16 11:17	1634-04-4	
Naphthalene	<b>157</b>	ug/L	25.0	10.0	5		02/19/16 11:17	91-20-3	
Toluene	<b>288</b>	ug/L	25.0	8.0	5		02/19/16 11:17	108-88-3	
Xylene (Total)	<b>1710</b>	ug/L	50.0	13.5	5		02/19/16 11:17	1330-20-7	
m&p-Xylene	<b>1530</b>	ug/L	50.0	15.5	5		02/19/16 11:17	179601-23-1	
o-Xylene	<b>173</b>	ug/L	25.0	8.0	5		02/19/16 11:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		5		02/19/16 11:17	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		5		02/19/16 11:17	17060-07-0	
Toluene-d8 (S)	103	%	70-130		5		02/19/16 11:17	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No : 92286818

Sample: DW 1 Lab ID: 92286818022 Collected 02/16/16 12:03 Received 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/22/16 13:25	02/22/16 22:46	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	02/22/16 13:25	02/22/16 22:46	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 12:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 12:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 12:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 12:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 12:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 12:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 12:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 12:44	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 12:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 12:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 12:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 12:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 12:44	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 12:44	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 12:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 12:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 12:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/16 12:44	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/19/16 12:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/19/16 12:44	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No. 92286818

Sample: DW 2 Lab ID: 92286818023 Collected: 02/16/16 13:17 Received: 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/22/16 13:33	02/23/16 00:28	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	122	%	60-140		1	02/22/16 13:33	02/23/16 00:28	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 21:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 21:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 21:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 21:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 21:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 21:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 21:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 21:11	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 21:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 21:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 21:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 21:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 21:11	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 21:11	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 21:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 21:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 21:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/16 21:11	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/19/16 21:11	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/19/16 21:11	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

Sample: DW 3 Lab ID: 92286818024 Collected: 02/16/16 10:16 Received: 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:33	02/23/16 00:48	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	02/22/16 13:33	02/23/16 00:48	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260									
tert-Amyl Alcohol	275	ug/L	100	76.8	1		02/22/16 21:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/22/16 21:17	994-05-8	
Benzene	33.9	ug/L	5.0	1.7	1		02/22/16 21:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/22/16 21:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/22/16 21:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/22/16 21:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/22/16 21:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/22/16 21:17	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/22/16 21:17	64-17-5	
Ethylbenzene	181	ug/L	5.0	1.6	1		02/22/16 21:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/22/16 21:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/22/16 21:17	1634-04-4	
Naphthalene	40.0	ug/L	5.0	2.0	1		02/22/16 21:17	91-20-3	
Toluene	6.3	ug/L	5.0	1.6	1		02/22/16 21:17	108-88-3	
Xylene (Total)	21.6	ug/L	10.0	2.7	1		02/22/16 21:17	1330-20-7	
m&p-Xylene	21.6	ug/L	10.0	3.1	1		02/22/16 21:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/22/16 21:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/22/16 21:17	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		02/22/16 21:17	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/22/16 21:17	2037-26-5	

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### ANALYTICAL RESULTS

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

Sample: DW 4 Lab ID: 92286818025 Collected: 02/16/16 09:22 Received: 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:33	02/23/16 01:08	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	127	%	60-140		1	02/22/16 13:33	02/23/16 01:08	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 20:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 20:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 20:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 20:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 20:19	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 20:19	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 20:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 20:19	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 20:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 20:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 20:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 20:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 20:19	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 20:19	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 20:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 20:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 20:19	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/16 20:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/19/16 20:19	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/19/16 20:19	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

Sample: DW 5 Lab ID: 92286818026 Collected 02/16/16 10 51 Received: 02/17/16 09 29 Matrix Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
			Analytical Method EPA 8011 Preparation Method. EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:33	02/23/16 01 29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	02/22/16 13:33	02/23/16 01 29	301-79-56	
<b>8260 MSV</b>									
			Analytical Method EPA 8260						
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 21 29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 21 29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 21 29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 21:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 21:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 21 29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 21 29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 21:29	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 21:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 21 29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 21 29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 21 29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 21:29	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 21:29	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 21 29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 21 29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 21:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/19/16 21 29	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		02/19/16 21 29	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/19/16 21:29	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.. 92286818

Sample: DW 6 Lab ID: 92286818027 Collected 02/16/16 11:31 Received: 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:33	02/23/16 01:49	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	02/22/16 13:33	02/23/16 01:49	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 20:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 20:37	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 20:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 20:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 20:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 20:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 20:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 20:37	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 20:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 20:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 20:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 20:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 20:37	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 20:37	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 20:37	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 20:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 20:37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/19/16 20:37	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/19/16 20:37	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/19/16 20:37	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: WSW 2      Lab ID: 92286818028      Collected 02/16/16 13 45      Received 02/17/16 09.29      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/22/16 13:33	02/23/16 02:09	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	02/22/16 13.33	02/23/16 02:09	301-79-56	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/19/16 14:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/19/16 14:48	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		02/19/16 14:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/19/16 14:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/19/16 14:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/19/16 14:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		02/19/16 14:48	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/19/16 14:48	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		02/19/16 14:48	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/19/16 14:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/19/16 14:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/19/16 14:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/19/16 14:48	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		02/19/16 14:48	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/19/16 14:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/19/16 14:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/19/16 14:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/16 14:48	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/19/16 14:48	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		02/19/16 14:48	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No: 92286818

Sample: MW 2 DUPLICATE		Lab ID: 92286818029		Collected	02/16/16 12:07	Received	02/17/16 09:29	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:33	02/23/16 02:30	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	02/22/16 13:33	02/23/16 02:30	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	1250	960	12.5		02/20/16 00:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	42.5	12.5		02/20/16 00:42	994-05-8	
Benzene	ND	ug/L	62.5	21.2	12.5		02/20/16 00:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	401	12.5		02/20/16 00:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	721	12.5		02/20/16 00:42	75-65-0	
tert-Butyl Formate	ND	ug/L	625	91.2	12.5		02/20/16 00:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	22.5	12.5		02/20/16 00:42	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	21.2	12.5		02/20/16 00:42	108-20-3	
Ethanol	ND	ug/L	2500	1720	12.5		02/20/16 00:42	64-17-5	
Ethylbenzene	1180	ug/L	62.5	20.0	12.5		02/20/16 00:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	45.0	12.5		02/20/16 00:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	21.2	12.5		02/20/16 00:42	1634-04-4	
Naphthalene	137	ug/L	62.5	25.0	12.5		02/20/16 00:42	91-20-3	
Toluene	144	ug/L	62.5	20.0	12.5		02/20/16 00:42	108-88-3	
Xylene (Total)	3810	ug/L	125	33.8	12.5		02/20/16 00:42	1330-20-7	
m&p-Xylene	3810	ug/L	125	38.8	12.5		02/20/16 00:42	179601-23-1	
o-Xylene	58.1J	ug/L	62.5	20.0	12.5		02/20/16 00:42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		12.5		02/20/16 00:42	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		12.5		02/20/16 00:42	17060-07-0	
Toluene-d8 (S)	101	%	70-130		12.5		02/20/16 00:42	2037-26-5	

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**ANALYTICAL RESULTS**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

Sample: MW 1 DUPLICATE Lab ID: 92286818030 Collected: 02/16/16 13 31 Received 02/17/16 09 29 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13 33	02/23/16 02 50	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	02/22/16 13 33	02/23/16 02:50	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 21 46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 21:46	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 21 46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 21 46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 21:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 21:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 21:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 21:46	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 21:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 21 46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 21 46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 21:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 21:46	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 21:46	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 21:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 21:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 21 46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/16 21:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/19/16 21:46	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/19/16 21:46	2037-26-5	

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### ANALYTICAL RESULTS

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

Sample: FIELD BLANK Lab ID: 92286818031 Collected 02/16/16 13:35 Received: 02/17/16 09:29 Matrix Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/22/16 13:33	02/23/16 03:11	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	02/22/16 13:33	02/23/16 03:11	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 19:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 19:26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 19:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 19:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 19:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 19:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 19:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 19:26	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 19:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 19:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 19:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 19:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 19:26	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 19:26	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 19:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 19:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 19:26	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/16 19:26	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/19/16 19:26	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/19/16 19:26	2037-26-5	

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### ANALYTICAL RESULTS

Project INTERSTATE TR UST00332 CA51806

Pace Project No.: 92286818

Sample: TRIP BLANK Lab ID: 92286818032 Collected: 02/16/16 13:36 Received 02/17/16 09:29 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 19:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 19:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 19:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 19:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 19:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 19:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 19:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 19:44	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 19:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 19:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 19:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 19:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 19:44	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 19:44	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 19:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 19:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 19:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/19/16 19:44	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		02/19/16 19:44	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/19/16 19:44	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TR UST00332 CA51806

Pace Project No 92286818

Sample: TRIP BLANK 2 Lab ID: 92286818033 Collected: 02/16/16 13:36 Received: 02/17/16 09:29 Matrix Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/19/16 20:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/19/16 20:02	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/19/16 20:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/19/16 20:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/19/16 20:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/19/16 20:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/19/16 20:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/19/16 20:02	108-20-3	
Ethanol	ND	ug/L	200	138	1		02/19/16 20:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/19/16 20:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/19/16 20:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/19/16 20:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/19/16 20:02	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/19/16 20:02	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/19/16 20:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/19/16 20:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/19/16 20:02	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/19/16 20:02	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/19/16 20:02	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/19/16 20:02	2037-26-5	

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**QUALITY CONTROL DATA**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

QC Batch: MSV/35628 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples 92286818028

METHOD BLANK: 1669541 Matrix Water  
 Associated Lab Samples 92286818028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1 0	0.24	02/19/16 11:21	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	02/19/16 11:21	
Benzene	ug/L	ND	1.0	0.25	02/19/16 11:21	
Diisopropyl ether	ug/L	ND	1 0	0.12	02/19/16 11:21	
Ethanol	ug/L	ND	200	33 0	02/19/16 11:21	
Ethyl-tert-butyl ether	ug/L	ND	10 0	0.070	02/19/16 11:21	
Ethylbenzene	ug/L	ND	1.0	0.30	02/19/16 11:21	
m&p-Xylene	ug/L	ND	2.0	0.66	02/19/16 11:21	
Methyl-tert-butyl ether	ug/L	ND	1 0	0.21	02/19/16 11:21	
Naphthalene	ug/L	ND	1 0	0.24	02/19/16 11:21	
o-Xylene	ug/L	ND	1.0	0.23	02/19/16 11:21	
tert-Amyl Alcohol	ug/L	ND	100	50 0	02/19/16 11:21	
tert-Amylmethyl ether	ug/L	ND	10 0	0.10	02/19/16 11:21	
tert-Butyl Alcohol	ug/L	ND	100	3.6	02/19/16 11:21	
tert-Butyl Formate	ug/L	ND	50.0	1.9	02/19/16 11:21	
Toluene	ug/L	ND	1.0	0.26	02/19/16 11:21	
Xylene (Total)	ug/L	ND	2 0	0.66	02/19/16 11:21	
1,2-Dichloroethane-d4 (S)	%	97	70-130		02/19/16 11:21	
4-Bromofluorobenzene (S)	%	99	70-130		02/19/16 11:21	
Toluene-d8 (S)	%	108	70-130		02/19/16 11:21	

LABORATORY CONTROL SAMPLE: 1669542

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.3	89	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1090	109	70-130	
Benzene	ug/L	50	52.7	105	70-130	
Diisopropyl ether	ug/L	50	46.5	93	70-130	
Ethanol	ug/L	2000	1870	93	70-130	
Ethyl-tert-butyl ether	ug/L	100	106	106	70-130	
Ethylbenzene	ug/L	50	48.0	96	70-130	
m&p-Xylene	ug/L	100	91.0	91	70-130	
Methyl-tert-butyl ether	ug/L	50	48.7	97	70-130	
Naphthalene	ug/L	50	54.5	109	70-130	
o-Xylene	ug/L	50	46.8	94	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	545	109	70-130	
tert-Butyl Formate	ug/L	400	394	99	70-130	
Toluene	ug/L	50	48.1	96	70-130	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

LABORATORY CONTROL SAMPLE: 1669542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	138	92	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 1669543 1669544

Parameter	Units	1669543		1669544		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92287080010 Result	MS Spike Conc	MSD Spike Conc	MS Result						
1,2-Dichloroethane	ug/L	ND	20	20	15.3	17.9	76	89	70-130	16	30
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	316	384	79	96	70-130	19	30
Benzene	ug/L	0.28J	20	20	15.8	20.2	78	100	70-130	24	30
Diisopropyl ether	ug/L	ND	20	20	14.7	17.5	73	87	70-130	18	30
Ethanol	ug/L	ND	800	800	708	756	88	94	70-130	7	30
Ethyl-tert-butyl ether	ug/L	ND	40	40	32.7	37.3	82	93	70-130	13	30
Ethylbenzene	ug/L	ND	20	20	16.4	19.0	82	95	70-130	15	30
m&p-Xylene	ug/L	ND	40	40	30.6	35.4	76	89	70-130	15	30
Methyl-tert-butyl ether	ug/L	ND	20	20	13.6	16.7	68	83	70-130	21	30 M1
Naphthalene	ug/L	0.83J	20	20	17.7	21.7	84	104	70-130	20	30
o-Xylene	ug/L	ND	20	20	16.0	18.2	80	91	70-130	13	30
tert-Amyl Alcohol	ug/L	ND	400	400	289	345	72	86	70-130	18	30
tert-Amylmethyl ether	ug/L	ND	40	40	29.9	36.9	75	92	70-130	21	30
tert-Butyl Alcohol	ug/L	ND	200	200	240	270	120	135	70-130	12	30 M1
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	70-130		30 M1
Toluene	ug/L	ND	20	20	16.6	19.4	83	97	70-130	16	30
1,2-Dichloroethane-d4 (S)	%						99	100	70-130		
4-Bromofluorobenzene (S)	%						96	97	70-130		
Toluene-d8 (S)	%						98	104	70-130		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

QC Batch:	MSV/35615	Analysis Method	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description	8260 MSV SC
Associated Lab Samples:	92286818001, 92286818004, 92286818005, 92286818007, 92286818008, 92286818010		

METHOD BLANK 1668841 Matrix: Water  
 Associated Lab Samples 92286818001, 92286818004, 92286818005, 92286818007, 92286818008, 92286818010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	02/19/16 02:31	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	02/19/16 02:31	
Benzene	ug/L	ND	5.0	1.7	02/19/16 02:31	
Diisopropyl ether	ug/L	ND	5.0	1.7	02/19/16 02:31	
Ethanol	ug/L	ND	200	138	02/19/16 02:31	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	02/19/16 02:31	
Ethylbenzene	ug/L	ND	5.0	1.6	02/19/16 02:31	
m&p-Xylene	ug/L	ND	10.0	3.1	02/19/16 02:31	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	02/19/16 02:31	
Naphthalene	ug/L	ND	5.0	2.0	02/19/16 02:31	
o-Xylene	ug/L	ND	5.0	1.6	02/19/16 02:31	
tert-Amyl Alcohol	ug/L	ND	100	76.8	02/19/16 02:31	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	02/19/16 02:31	
tert-Butyl Alcohol	ug/L	ND	100	57.7	02/19/16 02:31	
tert-Butyl Formate	ug/L	ND	50.0	7.3	02/19/16 02:31	
Toluene	ug/L	ND	5.0	1.6	02/19/16 02:31	
Xylene (Total)	ug/L	ND	10.0	2.7	02/19/16 02:31	
1,2-Dichloroethane-d4 (S)	%	101	70-130		02/19/16 02:31	
4-Bromofluorobenzene (S)	%	100	70-130		02/19/16 02:31	
Toluene-d8 (S)	%	102	70-130		02/19/16 02:31	

LABORATORY CONTROL SAMPLE 1668842

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.5	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	907	91	70-130	
Benzene	ug/L	50	50.0	100	70-130	
Diisopropyl ether	ug/L	50	53.0	106	70-130	
Ethanol	ug/L	2000	1780	89	70-130	
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
Ethylbenzene	ug/L	50	48.6	97	70-130	
m&p-Xylene	ug/L	100	95.0	95	70-130	
Methyl-tert-butyl ether	ug/L	50	55.4	111	70-130	
Naphthalene	ug/L	50	50.3	101	70-130	
o-Xylene	ug/L	50	46.8	94	70-130	
tert-Amyl Alcohol	ug/L	1000	849	85	70-130	
tert-Amylmethyl ether	ug/L	100	99.2	99	70-130	
tert-Butyl Alcohol	ug/L	500	465	93	70-130	
tert-Butyl Formate	ug/L	400	414	104	70-130	
Toluene	ug/L	50	47.9	96	70-130	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

LABORATORY CONTROL SAMPLE: 1668842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE 1668843

Parameter	Units	92286818007 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.5	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	348	87	70-130	
Benzene	ug/L	ND	20	20.7	104	70-130	
Diisopropyl ether	ug/L	ND	20	20.7	103	70-130	
Ethanol	ug/L	ND	800	851	106	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	40.7	102	70-130	
Ethylbenzene	ug/L	ND	20	20.2	101	70-130	
m&p-Xylene	ug/L	ND	40	39.3	98	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.4	107	70-130	
Naphthalene	ug/L	ND	20	19.6	98	70-130	
o-Xylene	ug/L	ND	20	18.9	94	70-130	
tert-Amyl Alcohol	ug/L	ND	400	329	82	70-130	
tert-Amylmethyl ether	ug/L	ND	40	37.9	95	70-130	
tert-Butyl Alcohol	ug/L	ND	200	271	134	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	20.1	101	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE 1668844

Parameter	Units	92286818008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	194J	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No : 92286818

SAMPLE DUPLICATE: 1668844

Parameter	Units	92286818008 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	105	104	1		
4-Bromofluorobenzene (S)	%	101	99	2		
Toluene-d8 (S)	%	101	101	0		

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**QUALITY CONTROL DATA**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No.: 92286818

QC Batch: MSV/35616 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92286818012, 92286818013, 92286818014, 92286818015, 92286818016, 92286818017, 92286818018, 92286818019, 92286818021, 92286818022

METHOD BLANK: 1668850 Matrix: Water  
 Associated Lab Samples: 92286818012, 92286818013, 92286818014, 92286818015, 92286818016, 92286818017, 92286818018, 92286818019, 92286818021, 92286818022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	02/19/16 02:48	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	02/19/16 02:48	
Benzene	ug/L	ND	5.0	1.7	02/19/16 02:48	
Diisopropyl ether	ug/L	ND	5.0	1.7	02/19/16 02:48	
Ethanol	ug/L	ND	200	138	02/19/16 02:48	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	02/19/16 02:48	
Ethylbenzene	ug/L	ND	5.0	1.6	02/19/16 02:48	
m&p-Xylene	ug/L	ND	10.0	3.1	02/19/16 02:48	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	02/19/16 02:48	
Naphthalene	ug/L	ND	5.0	2.0	02/19/16 02:48	
o-Xylene	ug/L	ND	5.0	1.6	02/19/16 02:48	
tert-Amyl Alcohol	ug/L	ND	100	76.8	02/19/16 02:48	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	02/19/16 02:48	
tert-Butyl Alcohol	ug/L	ND	100	57.7	02/19/16 02:48	
tert-Butyl Formate	ug/L	ND	50.0	7.3	02/19/16 02:48	
Toluene	ug/L	ND	5.0	1.6	02/19/16 02:48	
Xylene (Total)	ug/L	ND	10.0	2.7	02/19/16 02:48	
1,2-Dichloroethane-d4 (S)	%	103	70-130		02/19/16 02:48	
4-Bromofluorobenzene (S)	%	100	70-130		02/19/16 02:48	
Toluene-d8 (S)	%	100	70-130		02/19/16 02:48	

LABORATORY CONTROL SAMPLE: 1668851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.4	87	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	829	83	70-130	
Benzene	ug/L	50	45.3	91	70-130	
Diisopropyl ether	ug/L	50	47.4	95	70-130	
Ethanol	ug/L	2000	1670	84	70-130	
Ethyl-tert-butyl ether	ug/L	100	93.8	94	70-130	
Ethylbenzene	ug/L	50	44.5	89	70-130	
m&p-Xylene	ug/L	100	85.9	86	70-130	
Methyl-tert-butyl ether	ug/L	50	49.3	99	70-130	
Naphthalene	ug/L	50	45.9	92	70-130	
o-Xylene	ug/L	50	42.3	85	70-130	
tert-Amyl Alcohol	ug/L	1000	782	78	70-130	
tert-Amylmethyl ether	ug/L	100	90.5	90	70-130	
tert-Butyl Alcohol	ug/L	500	424	85	70-130	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

LABORATORY CONTROL SAMPLE: 1668851

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	375	94	70-130	
Toluene	ug/L	50	43.2	86	70-130	
Xylene (Total)	ug/L	150	128	85	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1668852

Parameter	Units	92286818018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.6	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	365	91	70-130	
Benzene	ug/L	ND	20	20.8	104	70-130	
Diisopropyl ether	ug/L	ND	20	21.1	106	70-130	
Ethanol	ug/L	ND	800	737	92	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	41.3	103	70-130	
Ethylbenzene	ug/L	2.6J	20	23.0	102	70-130	
m&p-Xylene	ug/L	12.1	40	51.3	98	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.3	106	70-130	
Naphthalene	ug/L	ND	20	20.2	95	70-130	
o-Xylene	ug/L	ND	20	20.5	97	70-130	
tert-Amyl Alcohol	ug/L	ND	400	333	82	70-130	
tert-Amylmethyl ether	ug/L	ND	40	38.5	96	70-130	
tert-Butyl Alcohol	ug/L	ND	200	268	134	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	20.2	99	70-130	
1,2-Dichloroethane-d4 (S)	%				104	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1668853

Parameter	Units	92286818019 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: INTERSTATE TR UST00332 CA51806  
Pace Project No 92286818

SAMPLE DUPLICATE: 1668853

Parameter	Units	92286818019 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	104	3		
4-Bromofluorobenzene (S)	%	100	99	1		
Toluene-d8 (S)	%	102	103	1		

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**QUALITY CONTROL DATA**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

QC Batch MSV/35639 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description 8260 MSV SC  
 Associated Lab Samples: 92286818002, 92286818003, 92286818006, 92286818009, 92286818011, 92286818020, 92286818023,  
 92286818025, 92286818026, 92286818027, 92286818030, 92286818031, 92286818032, 92286818033

METHOD BLANK 1669907 Matrix: Water  
 Associated Lab Samples: 92286818002, 92286818003, 92286818006, 92286818009, 92286818011, 92286818020, 92286818023,  
 92286818025, 92286818026, 92286818027, 92286818030, 92286818031, 92286818032, 92286818033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	02/19/16 15:22	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	02/19/16 15:22	
Benzene	ug/L	ND	5.0	1.7	02/19/16 15:22	
Diisopropyl ether	ug/L	ND	5.0	1.7	02/19/16 15:22	
Ethanol	ug/L	ND	200	138	02/19/16 15:22	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	02/19/16 15:22	
Ethylbenzene	ug/L	ND	5.0	1.6	02/19/16 15:22	
m&p-Xylene	ug/L	ND	10.0	3.1	02/19/16 15:22	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	02/19/16 15:22	
Naphthalene	ug/L	ND	5.0	2.0	02/19/16 15:22	
o-Xylene	ug/L	ND	5.0	1.6	02/19/16 15:22	
tert-Amyl Alcohol	ug/L	ND	100	76.8	02/19/16 15:22	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	02/19/16 15:22	
tert-Butyl Alcohol	ug/L	ND	100	57.7	02/19/16 15:22	
tert-Butyl Formate	ug/L	ND	50.0	7.3	02/19/16 15:22	
Toluene	ug/L	ND	5.0	1.6	02/19/16 15:22	
Xylene (Total)	ug/L	ND	10.0	2.7	02/19/16 15:22	
1,2-Dichloroethane-d4 (S)	%	102	70-130		02/19/16 15:22	
4-Bromofluorobenzene (S)	%	101	70-130		02/19/16 15:22	
Toluene-d8 (S)	%	101	70-130		02/19/16 15:22	

LABORATORY CONTROL SAMPLE: 1669908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.9	90	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	856	86	70-130	
Benzene	ug/L	50	48.6	97	70-130	
Diisopropyl ether	ug/L	50	49.4	99	70-130	
Ethanol	ug/L	2000	1590	79	70-130	
Ethyl-tert-butyl ether	ug/L	100	98.4	98	70-130	
Ethylbenzene	ug/L	50	47.8	96	70-130	
m&p-Xylene	ug/L	100	92.8	93	70-130	
Methyl-tert-butyl ether	ug/L	50	51.7	103	70-130	
Naphthalene	ug/L	50	48.3	97	70-130	
o-Xylene	ug/L	50	44.8	90	70-130	
tert-Amyl Alcohol	ug/L	1000	796	80	70-130	
tert-Amylmethyl ether	ug/L	100	94.7	95	70-130	
tert-Butyl Alcohol	ug/L	500	430	86	70-130	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: INTERSTATE TR UST00332 CA51806

Pace Project No: 92286818

LABORATORY CONTROL SAMPLE: 1669908

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	391	98	70-130	
Toluene	ug/L	50	46.3	93	70-130	
Xylene (Total)	ug/L	150	138	92	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE 1669909

Parameter	Units	92286818025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.7	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	318	80	70-130	
Benzene	ug/L	ND	20	21.4	107	70-130	
Diisopropyl ether	ug/L	ND	20	21.1	106	70-130	
Ethanol	ug/L	ND	800	740	93	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	41.3	103	70-130	
Ethylbenzene	ug/L	ND	20	20.9	105	70-130	
m&p-Xylene	ug/L	ND	40	40.1	100	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.9	110	70-130	
Naphthalene	ug/L	ND	20	19.5	98	70-130	
o-Xylene	ug/L	ND	20	19.7	98	70-130	
tert-Amyl Alcohol	ug/L	ND	400	328	82	70-130	
tert-Amylmethyl ether	ug/L	ND	40	38.3	96	70-130	
tert-Butyl Alcohol	ug/L	ND	200	273	135	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	20.7	104	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE 1669910

Parameter	Units	92286818027 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project INTERSTATE TR UST00332 CA51806  
Pace Project No 92286818

SAMPLE DUPLICATE: 1669910

Parameter	Units	92286818027 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	101	0		
4-Bromofluorobenzene (S)	%	102	101	0		
Toluene-d8 (S)	%	102	101	0		

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**QUALITY CONTROL DATA**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No. 92286818

QC Batch: MSV/35640 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples 92286818029

METHOD BLANK: 1669921 Matrix Water  
 Associated Lab Samples: 92286818029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	02/19/16 15:39	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	02/19/16 15:39	
Benzene	ug/L	ND	5.0	1.7	02/19/16 15:39	
Diisopropyl ether	ug/L	ND	5.0	1.7	02/19/16 15:39	
Ethanol	ug/L	ND	200	138	02/19/16 15:39	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	02/19/16 15:39	
Ethylbenzene	ug/L	ND	5.0	1.6	02/19/16 15:39	
m&p-Xylene	ug/L	ND	10.0	3.1	02/19/16 15:39	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	02/19/16 15:39	
Naphthalene	ug/L	ND	5.0	2.0	02/19/16 15:39	
o-Xylene	ug/L	ND	5.0	1.6	02/19/16 15:39	
tert-Amyl Alcohol	ug/L	ND	100	76.8	02/19/16 15:39	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	02/19/16 15:39	
tert-Butyl Alcohol	ug/L	ND	100	57.7	02/19/16 15:39	
tert-Butyl Formate	ug/L	ND	50.0	7.3	02/19/16 15:39	
Toluene	ug/L	ND	5.0	1.6	02/19/16 15:39	
Xylene (Total)	ug/L	ND	10.0	2.7	02/19/16 15:39	
1,2-Dichloroethane-d4 (S)	%	103	70-130		02/19/16 15:39	
4-Bromofluorobenzene (S)	%	102	70-130		02/19/16 15:39	
Toluene-d8 (S)	%	101	70-130		02/19/16 15:39	

LABORATORY CONTROL SAMPLE: 1669922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.2	88	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	844	84	70-130	
Benzene	ug/L	50	46.3	93	70-130	
Diisopropyl ether	ug/L	50	48.9	98	70-130	
Ethanol	ug/L	2000	1660	83	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.5	96	70-130	
Ethylbenzene	ug/L	50	45.7	91	70-130	
m&p-Xylene	ug/L	100	88.2	88	70-130	
Methyl-tert-butyl ether	ug/L	50	50.3	101	70-130	
Naphthalene	ug/L	50	46.2	92	70-130	
o-Xylene	ug/L	50	43.5	87	70-130	
tert-Amyl Alcohol	ug/L	1000	791	79	70-130	
tert-Amylmethyl ether	ug/L	100	90.1	90	70-130	
tert-Butyl Alcohol	ug/L	500	431	86	70-130	
tert-Butyl Formate	ug/L	400	385	96	70-130	
Toluene	ug/L	50	44.1	88	70-130	

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**QUALITY CONTROL DATA**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

LABORATORY CONTROL SAMPLE: 1669922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	132	88	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 1669923

Parameter	Units	92286914003 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.6	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	360	90	70-130	
Benzene	ug/L	ND	20	20.9	105	70-130	
Diisopropyl ether	ug/L	ND	20	21.0	105	70-130	
Ethanol	ug/L	ND	800	786	98	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	40.5	101	70-130	
Ethylbenzene	ug/L	ND	20	21.0	105	70-130	
m&p-Xylene	ug/L	ND	40	40.0	100	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.2	106	70-130	
Naphthalene	ug/L	ND	20	19.4	97	70-130	
o-Xylene	ug/L	ND	20	19.9	99	70-130	
tert-Amyl Alcohol	ug/L	ND	400	344	86	70-130	
tert-Amylmethyl ether	ug/L	ND	40	37.9	95	70-130	
tert-Butyl Alcohol	ug/L	ND	200	282	141	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	20.2	101	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1669924

Parameter	Units	92286914004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: INTERSTATE TR UST00332 CA51806  
Pace Project No.: 92286818

SAMPLE DUPLICATE: 1669924

Parameter	Units	92286914004 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	103	105	2		
4-Bromofluorobenzene (S)	%	100	100	0		
Toluene-d8 (S)	%	102	101	0		

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**QUALITY CONTROL DATA**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No. 92286818

QC Batch: MSV/35661 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92286818024

METHOD BLANK: 1670799 Matrx: Water  
 Associated Lab Samples: 92286818024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	02/22/16 14:52	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	02/22/16 14:52	
Benzene	ug/L	ND	5.0	1.7	02/22/16 14:52	
Diisopropyl ether	ug/L	ND	5.0	1.7	02/22/16 14:52	
Ethanol	ug/L	ND	200	138	02/22/16 14:52	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	02/22/16 14:52	
Ethylbenzene	ug/L	ND	5.0	1.6	02/22/16 14:52	
m&p-Xylene	ug/L	ND	10.0	3.1	02/22/16 14:52	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	02/22/16 14:52	
Naphthalene	ug/L	ND	5.0	2.0	02/22/16 14:52	
o-Xylene	ug/L	ND	5.0	1.6	02/22/16 14:52	
tert-Amyl Alcohol	ug/L	ND	100	76.8	02/22/16 14:52	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	02/22/16 14:52	
tert-Butyl Alcohol	ug/L	ND	100	57.7	02/22/16 14:52	
tert-Butyl Formate	ug/L	ND	50.0	7.3	02/22/16 14:52	
Toluene	ug/L	ND	5.0	1.6	02/22/16 14:52	
Xylene (Total)	ug/L	ND	10.0	2.7	02/22/16 14:52	
1,2-Dichloroethane-d4 (S)	%	100	70-130		02/22/16 14:52	
4-Bromofluorobenzene (S)	%	100	70-130		02/22/16 14:52	
Toluene-d8 (S)	%	101	70-130		02/22/16 14:52	

LABORATORY CONTROL SAMPLE 1670800

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.9	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	828	83	70-130	
Benzene	ug/L	50	45.5	91	70-130	
Diisopropyl ether	ug/L	50	49.9	100	70-130	
Ethanol	ug/L	2000	1560	78	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.6	96	70-130	
Ethylbenzene	ug/L	50	43.7	87	70-130	
m&p-Xylene	ug/L	100	84.2	84	70-130	
Methyl-tert-butyl ether	ug/L	50	50.5	101	70-130	
Naphthalene	ug/L	50	47.2	94	70-130	
o-Xylene	ug/L	50	41.2	82	70-130	
tert-Amyl Alcohol	ug/L	1000	822	82	70-130	
tert-Amylmethyl ether	ug/L	100	93.0	93	70-130	
tert-Butyl Alcohol	ug/L	500	419	84	70-130	
tert-Butyl Formate	ug/L	400	391	98	70-130	
Toluene	ug/L	50	43.1	86	70-130	

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### QUALITY CONTROL DATA

Project: INTERSTATE TR UST00332 CA51806

Pace Project No 92286818

LABORATORY CONTROL SAMPLE: 1670800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	125	84	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1670801

Parameter	Units	92286948002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.6	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	363	91	70-130	
Benzene	ug/L	ND	20	21.5	108	70-130	
Diisopropyl ether	ug/L	ND	20	21.3	106	70-130	
Ethanol	ug/L	ND	800	764	95	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	41.3	103	70-130	
Ethylbenzene	ug/L	ND	20	20.9	104	70-130	
m&p-Xylene	ug/L	ND	40	40.1	100	70-130	
Methyl-tert-butyl ether	ug/L	2.8J	20	25.3	112	70-130	
Naphthalene	ug/L	ND	20	19.4	95	70-130	
o-Xylene	ug/L	ND	20	19.5	97	70-130	
tert-Amyl Alcohol	ug/L	ND	400	359	88	70-130	
tert-Amylmethyl ether	ug/L	ND	40	38.3	96	70-130	
tert-Butyl Alcohol	ug/L	ND	200	284	142	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 P5	
Toluene	ug/L	ND	20	20.7	103	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE 1670802

Parameter	Units	92286948003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	17.4	17.4	0	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	17.6	17.6	0	30	
m&p-Xylene	ug/L	16.1	16.2	1	30	
Methyl-tert-butyl ether	ug/L	12.8	12.6	1	30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	9.8	9.8	1	30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: INTERSTATE TR UST00332 CA51806  
Pace Project No 92286818

SAMPLE DUPLICATE: 1670802

Parameter	Units	92286948003 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	15.5	15.4	1	30	
Xylene (Total)	ug/L	25.9	26.0	0	30	
1,2-Dichloroethane-d4 (S)	%	102	104	2		
4-Bromofluorobenzene (S)	%	100	99	1		
Toluene-d8 (S)	%	101	101	0		

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**QUALITY CONTROL DATA**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

QC Batch OEXT/40887 Analysis Method: EPA 8011  
 QC Batch Method EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples 92286818001, 92286818002, 92286818003, 92286818004, 92286818005, 92286818006

METHOD BLANK 1669440 Matrix Water  
 Associated Lab Samples 92286818001, 92286818002, 92286818003, 92286818004, 92286818005, 92286818006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	02/20/16 11:17	
1-Chloro-2-bromopropane (S)	%	93	60-140		02/20/16 11:17	

LABORATORY CONTROL SAMPLE & LCSD 1669441 1669442

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.31	0.33	110	118	60-140	6	20	
1-Chloro-2-bromopropane (S)	%				100	106	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1669443 1669444

Parameter	Units	92286812001 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	28	0.33	0.32	118	116	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						100	103	60-140			

SAMPLE DUPLICATE. 1669445

Parameter	Units	92286812002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	97	93	4		

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**QUALITY CONTROL DATA**

Project: INTERSTATE TR UST00332 CA51806  
 Pace Project No: 92286818

QC Batch:	OEXT/40930	Analysis Method	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description	GCS 8011 EDB DBCP
Associated Lab Samples	92286818007, 92286818008, 92286818009, 92286818010, 92286818011, 92286818012, 92286818013, 92286818014, 92286818015, 92286818016, 92286818017, 92286818018, 92286818019, 92286818020, 92286818021, 92286818022		

METHOD BLANK 1670474 Matrix: Water  
 Associated Lab Samples: 92286818007, 92286818008, 92286818009, 92286818010, 92286818011, 92286818012, 92286818013, 92286818014, 92286818015, 92286818016, 92286818017, 92286818018, 92286818019, 92286818020, 92286818021, 92286818022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	02/22/16 14:59	
1-Chloro-2-bromopropane (S)	%	108	60-140		02/22/16 14:59	

Parameter	Units	1670475		1670476		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec				
1,2-Dibromoethane (EDB)	ug/L	28	0.30	0.37	108	130	60-140	19	20
1-Chloro-2-bromopropane (S)	%				99	111	60-140		

Parameter	Units	1670477		1670478		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,2-Dibromoethane (EDB)	ug/L	ND	.28	28	0.34	0.34	122	124	60-140	2	20
1-Chloro-2-bromopropane (S)	%						104	105	60-140		

Parameter	Units	92286818008		Dup Result	RPD	Max RPD	Qualifiers
		Result	Result				
1,2-Dibromoethane (EDB)	ug/L	ND	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	103	103	2		

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

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project INTERSTATE TR UST00332 CA51806  
 Pace Project No 92286818

QC Batch	OEXT/40931	Analysis Method.	EPA 8011
QC Batch Method	EPA 8011	Analysis Description.	GCS 8011 EDB DBCP
Associated Lab Samples	92286818023, 92286818024, 92286818025, 92286818026, 92286818027, 92286818028, 92286818029, 92286818030, 92286818031		

METHOD BLANK: 1670480 Matrix: Water  
 Associated Lab Samples 92286818023, 92286818024, 92286818025, 92286818026, 92286818027, 92286818028, 92286818029, 92286818030, 92286818031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	02/22/16 23.26	
1-Chloro-2-bromopropane (S)	%	96	60-140		02/22/16 23.26	

LABORATORY CONTROL SAMPLE & LCSD: 1670481 1670482

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.32	0.38	114	136	60-140	16	20	
1-Chloro-2-bromopropane (S)	%				95	115	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1670483 1670484

Parameter	Units	92287080010 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	28	28	0.33	0.33	120	120	60-140	0	20
1-Chloro-2-bromopropane (S)	%						102	102	60-140		

SAMPLE DUPLICATE: 1670485

Parameter	Units	92287080011 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	89	94	2		

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

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project INTERSTATE TR UST00332 CA51806  
Pace Project No 92286818

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### DEFINITIONS

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

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes  
S3 Surrogate recovery exceeded laboratory control limits Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project INTERSTATE TR UST00332 CA51806

Pace Project No.: 92286818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92286818001	MW 1	EPA 8011	OEXT/40887	EPA 8011	GCSV/24161
92286818002	MW 2	EPA 8011	OEXT/40887	EPA 8011	GCSV/24161
92286818003	MW 3	EPA 8011	OEXT/40887	EPA 8011	GCSV/24161
92286818004	MW 4R	EPA 8011	OEXT/40887	EPA 8011	GCSV/24161
92286818005	MW 5R	EPA 8011	OEXT/40887	EPA 8011	GCSV/24161
92286818006	MW 6	EPA 8011	OEXT/40887	EPA 8011	GCSV/24161
92286818007	MW 7	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818008	MW 8	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818009	MW 9	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818010	MW 10	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818011	MW 11	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818012	MW 12	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818013	MW 13	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818014	MW 14	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818015	MW 15	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818016	MW 17	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818017	MW 18	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818018	MW 19	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818019	MW 20	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818020	MW 21	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818021	MW 22	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818022	DW 1	EPA 8011	OEXT/40930	EPA 8011	GCSV/24178
92286818023	DW 2	EPA 8011	OEXT/40931	EPA 8011	GCSV/24179
92286818024	DW 3	EPA 8011	OEXT/40931	EPA 8011	GCSV/24179
92286818025	DW 4	EPA 8011	OEXT/40931	EPA 8011	GCSV/24179
92286818026	DW 5	EPA 8011	OEXT/40931	EPA 8011	GCSV/24179
92286818027	DW 6	EPA 8011	OEXT/40931	EPA 8011	GCSV/24179
92286818028	WSW 2	EPA 8011	OEXT/40931	EPA 8011	GCSV/24179
92286818029	MW 2 DUPLICATE	EPA 8011	OEXT/40931	EPA 8011	GCSV/24179
92286818030	MW 1 DUPLICATE	EPA 8011	OEXT/40931	EPA 8011	GCSV/24179
92286818031	FIELD BLANK	EPA 8011	OEXT/40931	EPA 8011	GCSV/24179
92286818028	WSW 2	EPA 8260	MSV/35628		
92286818001	MW 1	EPA 8260	MSV/35615		
92286818002	MW 2	EPA 8260	MSV/35639		
92286818003	MW 3	EPA 8260	MSV/35639		
92286818004	MW 4R	EPA 8260	MSV/35615		
92286818005	MW 5R	EPA 8260	MSV/35615		
92286818006	MW 6	EPA 8260	MSV/35639		
92286818007	MW 7	EPA 8260	MSV/35615		
92286818008	MW 8	EPA 8260	MSV/35615		
92286818009	MW 9	EPA 8260	MSV/35639		
92286818010	MW 10	EPA 8260	MSV/35615		
92286818011	MW 11	EPA 8260	MSV/35639		

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project INTERSTATE TR UST00332 CA51806

Pace Project No 92286818


Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92286818012	MW 12	EPA 8260	MSV/35616		
92286818013	MW 13	EPA 8260	MSV/35616		
92286818014	MW 14	EPA 8260	MSV/35616		
92286818015	MW 15	EPA 8260	MSV/35616		
92286818016	MW 17	EPA 8260	MSV/35616		
92286818017	MW 18	EPA 8260	MSV/35616		
92286818018	MW 19	EPA 8260	MSV/35616		
92286818019	MW 20	EPA 8260	MSV/35616		
92286818020	MW 21	EPA 8260	MSV/35639		
92286818021	MW 22	EPA 8260	MSV/35616		
92286818022	DW 1	EPA 8260	MSV/35616		
92286818023	DW 2	EPA 8260	MSV/35639		
92286818024	DW 3	EPA 8260	MSV/35661		
92286818025	DW 4	EPA 8260	MSV/35639		
92286818026	DW 5	EPA 8260	MSV/35639		
92286818027	DW 6	EPA 8260	MSV/35639		
92286818029	MW 2 DUPLICATE	EPA 8260	MSV/35640		
92286818030	MW 1 DUPLICATE	EPA 8260	MSV/35639		
92286818031	FIELD BLANK	EPA 8260	MSV/35639		
92286818032	TRIP BLANK	EPA 8260	MSV/35639		
92286818033	TRIP BLANK 2	EPA 8260	MSV/35639		

**REPORT OF LABORATORY ANALYSIS**

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**Sample Condition Upon Receipt**      Client Name: SCDHFC      Project #: **WO# : 92286818**

Courier:       Fed Ex       UPS       USPS       Client  
 Commercial       Pace       Other: \_\_\_\_\_



Custody Seal on Cooler/Box Present?     Yes     No      Seals Intact?     Yes     No

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

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

Cooler Temp Corrected (°C): 2.7      Biological Tissue Frozen?     Yes     No     N/A

Temp should be above freezing to 6°C    Correction Factor: 0.0 °C      Date and Initials of Person Examining Contents: AP 2/17/16

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes     No

Did samples originate from a foreign source (internationally including Hawaii and Puerto Rico)?  
 Yes     No

**If Yes to either question, fill out a Regulated Soil Checklist and include with SCUR/COC paperwork.**

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>No date or time on samples</u>
-Includes Date/Time/ID/Analysis Matrix: <u>ur</u>	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Collform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples checked for dechlorization <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	

**CLIENT NOTIFICATION/RESOLUTION**      Field Data Required?     Yes     No

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

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

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

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

Page: 1 of 3  
2055914

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>SCDHEC - UST</u>		Report To: <u>J. Bryant - UST</u>		Attention:	
Address: <u>7600 Bull St</u> <u>Columbia, SC, 29201</u>		Copy To:		Company Name:	
Email To: <u>Bryant.J@cdhec.sc.gov</u>		Purchase Order No.: <u>4600422513</u>		Address:	
Phone: <u>803-848-0606</u> Fax: <u>803-848-0673</u>		Project Name: <u>Interstate Truck Terminal</u>		Facility Manager: <u>T. Carter</u>	
Requested Due Date/TAT:		Project Number: <u>UST# 00332/PACE CA# 51806</u>		Face Profile #	
				<b>REGULATORY AGENCY</b>	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
				Site Location	
				STATE: <u>SC</u> <u>Allendale</u>	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.		
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other				Y/N	
					DATE	TIME	DATE	TIME															
1	MW 1	WT 6			2/16/16	13:31		6	6									X	X	X	X	No Odor	001
2	MW 2					12:07																Strong Odor	002
3	MW 3					13:32																Odor	003
4	MW 4R					12:37																Odor	004
5	MW 5R					11:09																Odor	005
6	MW 6					11:49																Odor	006
7	MW 7					10:28																No Odor	007
8	MW 8					10:27																No Odor	008
9	MW 9					10:03																Odor	009
10	MW 10					13:00																No Odor	010
11	MW 11					9:09																No Odor	011
12	MW 12	WT 6			2/16/16	9:12		6	6													No Odor	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
	<i>[Signature]</i>	2/17/16		<i>[Signature]</i>	2-17-16	9:29							
	<i>[Signature]</i>	2-17-16	1536	<i>[Signature]</i>	2-17-16	1536	2.7	✓	✓	✓	✓	✓	✓

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Frank Mitlin</u>					
SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed (MM/DD/YYYY): <u>2/16/16</u>					

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



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 3  
**2055915**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>SCDHEC-UST</u>		Report To: <u>J. Bryant-UST</u>		Attention:	
Address: <u>2600 Bull St</u>		Copy To:		Company Name:	
<u>Columbia, SC 29201</u>				Address:	
Email To: <u>BryantJ@cdhec.sc.gov</u>		Purchase Order No.: <u>4600422513</u>		REGULATORY AGENCY	
Phone: <u>803-898-0606</u> Fax: <u>803-898-0673</u>		Project Name: <u>Interstate Truck Terminal</u>		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Requested Due Date/TAT:		Project Number: <u>151#00332/PACE CA# 51806</u>		Site Location: <u>SC</u> <u>Allendale</u>	
				STATE: <u>SC</u>	

ITEM #	Section D Required Client Information:		MATRIX CODE (see vials codes to left)	SAMPLE TYPE (G=GRAB C=COMPT)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.				
	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX / CODE			COMPOSITE		Preservatives																			
					DATE	TIME	DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test ↓							
1	MW 13	WT	G		2/16/16	9:11	6		6											X	X	X	X	No Odor	013	
2	MW 14	WT	G		2/16/16	10:15	6		6											X	X	X	X	Odor	014	
3	MW 15	WT	G		2/16/16	9:44	6		6											X	X	X	X	No Odor	015	
4	MW 16																							Not Sampled	-	
5	MW 17	WT	G		2/16/16	9:55	6		6											X	X	X	X	No Odor	016	
6	MW 18																								No Odor	017
7	MW 19																								No Odor	018
8	MW 20																								No Odor	019
9	MW 21																								Strong Odor	020
10	MW 22																								Odor	021
11	DW 1																								No Odor	022
12	DW 2	WT	G		2/16/16	13:17	6		6											X	X	X	X	No Odor	023	

ADDITIONAL COMMENTS	REINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
	<i>[Signature]</i>	2/17/16		<i>[Signature]</i>	2-17-16	9:29								
	<i>[Signature]</i>	2-17-16	1536	<i>[Signature]</i>	2-17-16	1536	7:7	✓	✓	✓	✓	✓	✓	✓

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Container (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Frank Mitlin</u>					
SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YY): <u>2/16/16</u>					

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



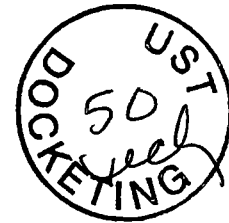




00332

OCT 17 2017

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



Re: **Site Specific Work Plan Requests**  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906; PO #4600582306

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400012906 and the UST Management Division Quality Assurance Program Plan (QAPP), Revision 3.1 it is requested that you submit a Site Specific Work Plan (SSWP) for each site attached:

UST Permit #	Site Name	Project Manager
14472	Southside Grocery	Thomas Gladden
00039	Hutchinson's 76	Nicholas Gathings
05289	Burnette's Service Station	Nicholas Gathings
00332 ✓	Interstate Truck Terminal	Cody Heinze
12371	Black's Car Care	Nicholas Gathings
10441	Jim Bo's	Stephanie Briney
09315	General Store	Steven Martin
05565	Westgate Amoco	Kim Kuhn
05313	A&G Grocery	Nicholas Gathings

The SSWPs must be submitted **within 15 business days** to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved.

Please contact me with the sampling schedule before commencing work at these facilities. In addition, a weekly update for each site is required to be submitted via e-mail to the site's project manager and myself. If you have any questions or need further assistance, please contact me at (803) 898-0607 or thrasham@dhec.sc.gov.

Sincerely,

  
Ashleigh Thrash, Hydrogeologist  
Corrective Action & Quality Assurance Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Site Information Packages

cc: Technical Files





UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

MEMORANDUM

TO: Midlands Environmental Consultants, Inc

FROM: Cody Heinze

RE: Site Specific Work Plan Request

Facility Name: Interstate Truck Terminal

Permit Number: 00332

County: Allendale

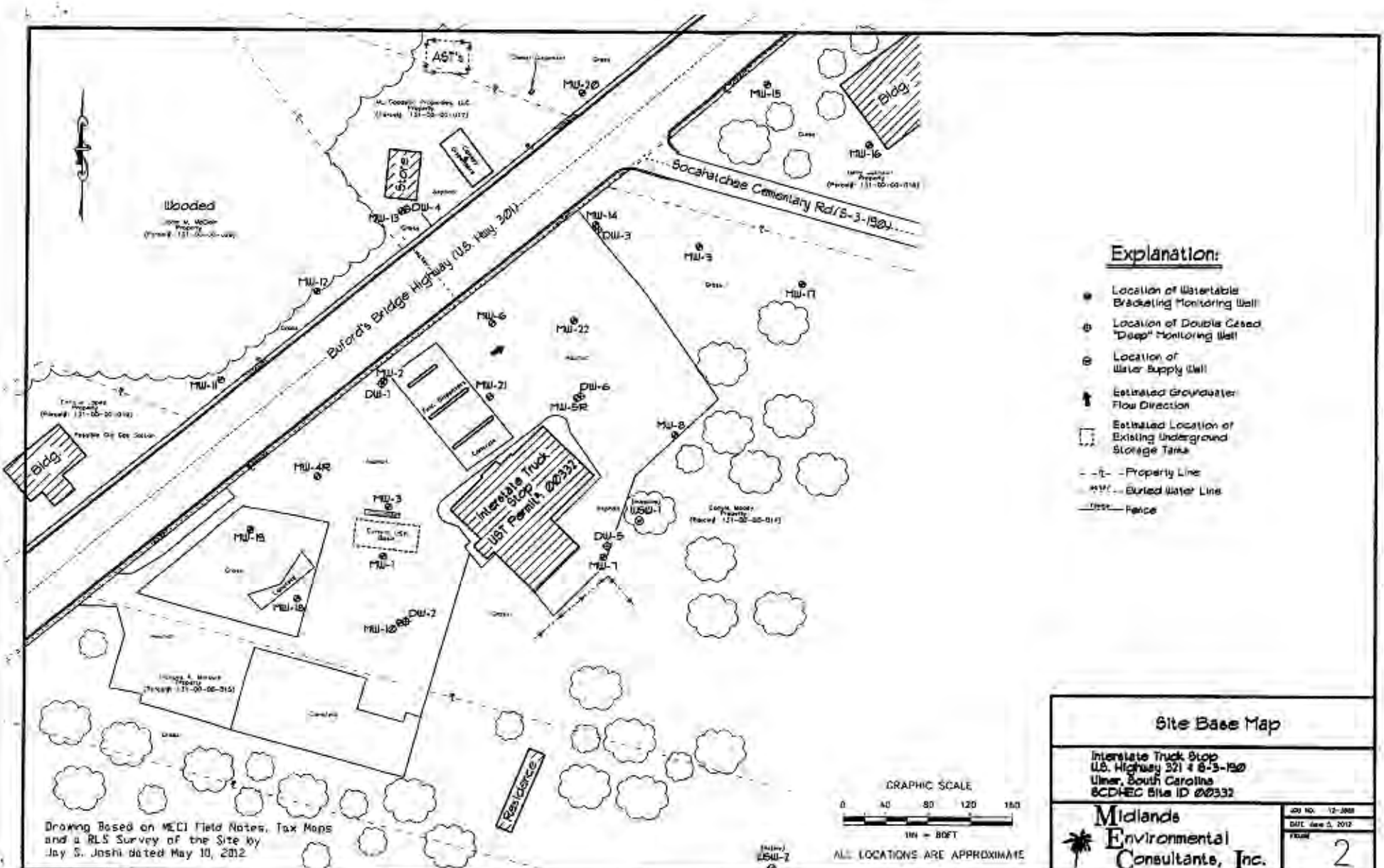
Work To Be Completed: Sample all monitoring wells and water supply wells for BTEX+naph+MtBE+DCA+oxygenates and EDB. Purging will be required. Do not sample wells containing measureable (0.01') free-phase product.

Total Number of Monitoring Well Samples: 28

Analysis Being Requested: BTEX+naph+MtBE+DCA+oxygenates(8260B) and EDB(8011)

Total Number of Water Supply Well Samples: 1

Analysis Being Requested: BTEXNM+1,2 DCA (524.2), Oxygenates & Ethanol (8260B), and EDB (504.1)

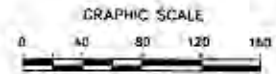


**Explanation:**

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ➔ Estimated Groundwater Flow Direction
- ▭ Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- Buried Water Line
- Fence

**Site Base Map**

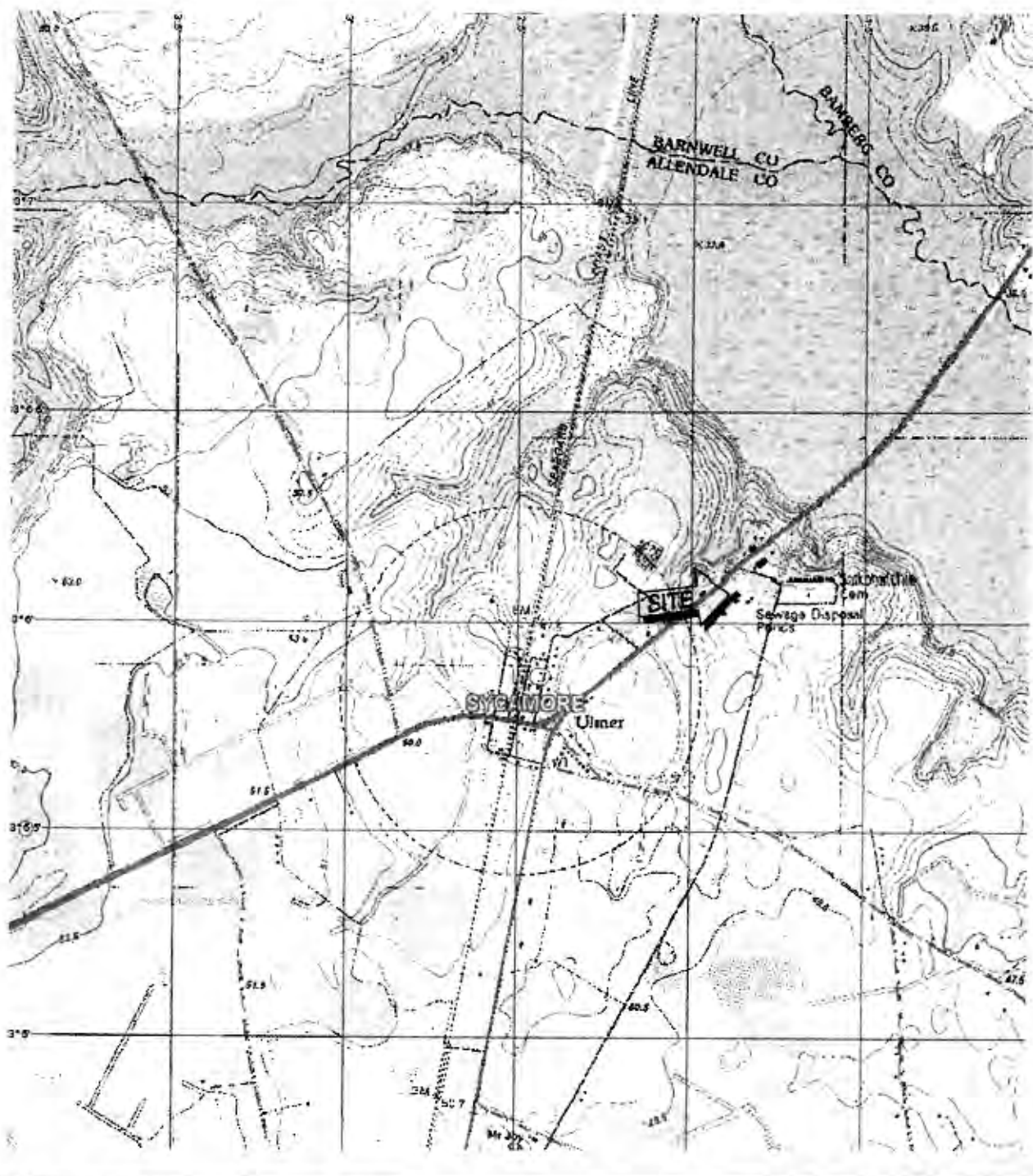
Interstate Truck Stop  
 U.S. Highway 321 & S-3-190  
 Ulmer, South Carolina  
 SCDHEC Site ID 00332



ALL LOCATIONS ARE APPROXIMATE

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi Dated May 10, 2012

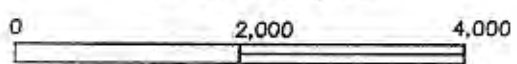
<p>Midlands Environmental Consultants, Inc.</p>	JOB NO. 12-008
	DATE Issued 2012
	FIGURE 2



REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP. 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 1  
SITE LOCATION MAP

**CONSULTECH ENVIRONMENTAL, INC.**  
  
 Environmental Consulting  
 and Engineering  
 © 1998  
*Delivering innovative solutions to today's environmental concerns*

**Site Activity Summary**



**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Terminal  
**County:** Allendale  
**Field Personnel:** F. Mitlin, P. Wylie, J. Phillips, C. Hansen

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-1	Y	2/16/16	13:31	25-35	***	22.81	***	2.05	3.00	No Odor
MW-2	Y	2/16/16	12:07	25-35	***	22.97	***	0.56	7.00	Strong Odor
MW-3	Y	2/16/16	13:32	24-34	***	23.01	***	0.59	6.00	Odor
MW-4R	Y	2/16/16	12:37	25-35	***	21.26	***	0.61	9.00	Odor
MW-5R	Y	2/16/16	11:09	25-35	***	25.53	***	0.61	5.00	Odor
MW-6	Y	2/16/16	11:49	25-35	***	23.03	***	0.64	8.00	Odor
MW-7	Y	2/16/16	10:28	25-35	***	25.16	***	5.36	4.00	No Odor
MW-8	Y	2/16/16	10:27	25-35	***	24.78	***	4.36	4.50	No Odor
MW-9	Y	2/16/16	10:03	25-35	***	22.65	***	0.86	7.00	Odor
MW-10	Y	2/16/16	13:00	25-35	***	21.44	***	4.38	10.00	No Odor
MW-11	Y	2/16/16	9:09	25-35	***	19.84	***	1.17	5.00	No Odor
MW-12	Y	2/16/16	9:12	25-35	***	20.43	***	1.26	12.00	No Odor
MW-13	Y	2/16/16	9:11	25-35	***	21.40	***	3.18	11.50	No Odor
MW-14	Y	2/16/16	10:15	25-35	***	21.84	***	0.89	10.00	Odor
MW-15	Y	2/16/16	9:44	15-35	***	22.29	***	3.79	7.00	No Odor
									109.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**



**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Terminal  
**County:** Allendale  
**Field Personnel:** F. Mitlin, P. Wylie, J. Phillips, C. Hansen

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-16	N	2/16/16	DRY	15-35	***	DRY	***	DRY	DRY	Guaged Dry; TD: 24.50' BTOC
MW-17	Y	2/16/16	9:55	15-35	***	23.52	***	4.21	5.00	
MW-18	Y	2/16/16	12:40	15-35	***	18.39	***	2.27	10.00	No Odor
MW-19	Y	2/16/16	12:24	15-35	***	19.42	***	0.62	9.00	No Odor
MW-20	Y	2/16/16	9:28	15-35	***	21.31	***	2.69	7.00	No Odor
MW-21	Y	2/16/16	11:56	25-35	***	24.94	***	2:38	6.00	Strong Odor
MW-22	Y	2/16/16	11:12	25-35	***	233.75	***	0.67	8.00	Odor
DW-1	Y	2/16/16	12:03	65-70	***	24.9	***	2.85	8.00	No Odor
DW-2	Y	2/16/16	13:17	65-70	***	23.26	***	3.91	12.00	No Odor
DW-3	Y	2/16/16	10:16	65-70	***	22.94	***	1.09	10.00	No Odor
DW-4	Y	2/16/16	9:22	65-70	***	22.79	***	4.70	10.00	No Odor
DW-5	Y	2/16/16	10:51	80-85	***	24.78	***	2.06	16.00	No Odor
DW-6	Y	2/16/16	11:31	80-85	***	26.34	***	3.98	30.00	No Odor
WSW-1	N	2/16/16	NS	***	***	***	***	***	***	Inactive, No Power to Well
WSW-2	Y	2/16/16	13:45	***	***	***	***	***	***	1224 Buford's Bridge Highway; Sample collected from spigot in front yard
									131.00	<b>TOTAL GALLONS PURGED</b>

**RIGHT OF ENTRY AND PERMISSION FORM**

**UNDERGROUND STORAGE TANK AND PROPERTY OWNER**

Interstate Truck Terminal, Highways 301 & 321, Ulmer, SC, Allendale County, UST Permit # 00332

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, JULIUS MOODY, certify that I am the legal owner of the underground storage tanks and property located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (SCDHEC) or its contractors to enter this property at reasonable times only to accomplish site assessment and liquid removal activities. I understand that SCDHEC will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of the results of each activity.

Name of Facility INTERSTATE TRUCK TERMINAL Phone # N/A

Street Address of Facility HIGHWAYS 301 and 321

Town, City, District, Suburb ULMER, SOUTH CAROLINA

Name of nearest intersecting street, road, highway, alley  
301 North

Is this facility within the city limits? (yes or no) YES

Does a public water or sewer utility service this facility? (yes or no) NO. If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines  
phone number \_\_\_\_\_

Were underground storage tanks previously removed from the ground at this facility? (yes or no) NO  
If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation  
Phone number \_\_\_\_\_

Is the property currently leased or rented to someone? (yes or no) NO. If yes, please provide their name \_\_\_\_\_ and phone number \_\_\_\_\_ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before assessment activities begin.

NAME of UST/property owner (Please Print): JULIUS MOODY

Contact Person: William E. Myrick, Jr.  
Phone Number (home) (803)584-4333 (work) NOT WORKING

Signature of UST/property Owner: Julius Moody

Witness: W E Myrick Jr. Esq.

Date: May Month 15th Day 2002 Year

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-00332 Facility: INTERSTATE TRUCK TERMINAL INC**

<u>Bus.</u>	HWY 301 & 321		<u>Phone</u>		<u>District</u>	Aiken EQC Office	
<u>Address</u>	ULMER	SC 29849	<u>County</u>	Allendale			
<u>Category</u>	Non-Retail Operation		<u>Last Inspection</u>	09/12/01	<u>Trans. of Ownership</u>		
<u>Tank Owner</u>	MOODY, JULIUS				<u>Financial Responsibility</u>		
<u>Bus.</u>	RT 3 PO BOX 192 B				<u>Financial Mechanism</u>	<u>Expiration Date</u>	
<u>Address</u>	BAMBERG	SC 29003-9501	<u>Phone</u>	803-245-4470			
<u>Operator</u>					<u>Training Date</u>		
<u>Bus.</u>							
<u>Address</u>			<u>Phone</u>				
<u>Land Owner</u>							
<u>Bus.</u>							
<u>Address</u>			<u>Phone</u>				
<u>Tanks</u>	9	<u>Billable</u>	0	<u>Aband.</u>	0	<u>Other</u>	9
		<u>Compliance Operator(s)</u>				<u>ID</u>	

Significant? N Memo Date: 05/02/05

Site Memo: Mr. William E. Myrick, Jr. (803 584-4333) is the attorney representing Mr. Moody. Send letters to: PO Box 555, Allendale, SC 29810  
Property owner is Carlyle Moody, 1375 Capernaum Rd., Bamberg, SC

Significant? N Memo Date: 02/24/01

Site Memo: T/O TO MR. JULIUS MOODY 1/1/87 AS NOTED ON DEED PER LEGAL OFFICE AND MIKE DAVIS, UST SECTION MANAGER.  
ARROW DOWN TO SEE NEXT SITE--

Deleted duplicate site 00332 RML 11/18/93  
5/24/94-This site is being worked on by jsr.  
7/29/94-Ansonia Point talked with Mr. Moody and he is sending i something in to her stating that the USTs are RNU. jsr.  
6-30-95 site is in enforcement for fees and ownership dispute. dmo  
1/31/96 - only found 8 tanks. Tanks have been RNU. Leasee says i tanks were taken out of use @ 1979. JDC  
01-28-97 Per inspection, i found 9 tanks and a possible waste oil i tank behind the facility. I could not verify the waste oil. All i tanks are tou and for the most part are all empty. RSM  
8-31-98 PER BOB H TANKS HAVE BEEN UPDATED TO RNU STATUS AS OF APRIL I '87. DMO  
11/21/00Mr Moody's lawyer called. Bill Myrick..803-584-4333  
Mr Moody is disabled. The property is for sale. Couple of acres.  
Location is just across bridge on the left after the intersection of i HWY 321/301 going towards Allendale from Columbia. Mr Myrick said i they were more than willing to cooperate in any venture that would i lead to resolving this issue. JEK

Significant? N Memo Date: 12/30/02

Site Memo: GTWA results indicate groundwater impacted above RBSLs. USTs at site do not meet 1998 standards.

Significant? Y Memo Date: 07/31/02

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-00332 Facility: INTERSTATE TRUCK TERMINAL INC**

**Site Memo:** Soil analytical results from Dept assessment > DL but < RBSLs. Will have GTWA performed at site.

**Significant?** N **Memo Date:** 10/09/02

**Site Memo:** Tanks 1-9 were emptied of 746 gallons of liquid on 9-13-02. GTWA received 10-09-02 documented GW impact at site in MW-2 at dispenser island closest to highway.

<b>Rel. No.</b> 2	<b>Reported</b> 06/21/02	<b>Status</b> Confirmed - Active	<b>Product</b> Petroleum	<b>Compl Required</b> Y
<b>Active Tanks</b>	<b>NFA</b>	<b>Fin. Type</b> With SUPERB Cos	<b>RBCA / Score</b> 2BB 25	<b>Compliance Met</b> N
	<b>Confirmed</b> 10/09/02	<b>Emer. Resp.</b>	<b>Superb Qualified</b>	<b>Compliance Met Dt</b>
	<b>CU Init.</b> 09/11/02	<b>Abate. Met</b>	<b>Superb Determ. Dt</b>	<b>Fin Res Mechanism</b>
	<b>CU Compl.</b>	<b>Transferred</b>	<b>Project Manager</b> HEINZE CODY W	
	<b>CU &gt; MCL</b>	<b>Source</b> UST	<b>Responsible Party</b> MOODY JULIUS	

<b>Ranking</b>	<b>SCRBCA:</b> 2BB - Watersupply wells < 1000 feet down grade	<b>FP Thick:</b> Unknown						
<b>Rel. No.</b> 2								
<b>Analyticals</b>								
	<b>Contaminant</b>	<b>ug/L</b>	<b>RBSL</b>	<b>Score</b>	<b>SSTL's</b>	<b>Other Contaminants</b>	<b>ug/L</b>	<b>SSTL's</b>
	Benzene	38.6	5	8	2180	ADJUST SSTL IF		
	Toluene	292	1000	0	26540	WSW1 IS PROPERLY		
	Ethylbenzene	1180	700	2	3700	ABANDONED		
	Xylene	3840	10000	0	21680	BENZENE DW-3	33.9	
	Naphthalene	220	25	9	84	EDB MW-21	.05	
	MTBE	250	40	6		GWS 2/16/2016		
	<b>Total Score:</b>			25		MTBE ND IN ALL		
						WELLS		
<b>Receptor Type:</b>	PRIVATE	<b>Ground Water Flow:</b>	NE			MW-14 DIPE <	500	
<b>Distance to Receptor:</b>	185	<b>Seepage Velocity:</b>	50			TAA DW-3	275	
<b>GW Depth:</b>	22.77					WSW ND FOR ALL		
						COC		

<b>Tank No.</b> 1	<b>Const.</b>	<b>Class</b> N	<b>Tank Const. Mat.</b> SL	<b>Pipe Const. Mat.</b> SL
	<b>Operate</b>	<b>T Status</b> RNU	<b>Tank Protect.</b> CP	<b>Pipe Protect.</b> CP
	<b>Notify</b> 04/01/87	<b>Capacity</b> 8,000	<b>Tank Cont. Meth.</b> SW	<b>Pipe Cont. Meth.</b> SW
	<b>Variance</b>	<b>Product</b> DL	<b>Overfill Type</b>	<b>Piping Type</b> FR
	<b>Compl.</b>	<b>C Status</b>	<b>Age @ Notif.</b> 25	<b>Dist. to Well</b>
	<b>Spill Det.</b>	<b>Left Gal.</b> 0	<b>Owner @ ABD</b>	<b>Last Use</b> 04/01/87
	<b>Aband.</b>	<b>Method</b>	<b>CAS No.</b>	<b>Chem.</b>
	<b>Under Dispenser Cont.</b> N	<b>Drop Tube</b> N	<b>Tank Leak Det.</b>	<b>Pipe Leak Det.</b>
<b>Tank No.</b> 2	<b>Const.</b>	<b>Class</b> N	<b>Tank Const. Mat.</b> SL	<b>Pipe Const. Mat.</b> SL
	<b>Operate</b>	<b>T Status</b> RNU	<b>Tank Protect.</b> CP	<b>Pipe Protect.</b> CP
	<b>Notify</b> 04/01/87	<b>Capacity</b> 8,000	<b>Tank Cont. Meth.</b> SW	<b>Pipe Cont. Meth.</b> SW
	<b>Variance</b>	<b>Product</b> DL	<b>Overfill Type</b>	<b>Piping Type</b> FR
	<b>Compl.</b>	<b>C Status</b>	<b>Age @ Notif.</b> 25	<b>Dist. to Well</b>
	<b>Spill Det.</b>	<b>Left Gal.</b> 0	<b>Owner @ ABD</b>	<b>Last Use</b> 04/01/87
	<b>Aband.</b>	<b>Method</b>	<b>CAS No.</b>	<b>Chem.</b>
	<b>Under Dispenser Cont.</b> N	<b>Drop Tube</b> N	<b>Tank Leak Det.</b>	<b>Pipe Leak Det.</b>



**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-00332 Facility: INTERSTATE TRUCK TERMINAL INC**

<b>Tank No.</b>	3	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	8,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<b>Tank No.</b>	4	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	6,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	DL	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<b>Tank No.</b>	5	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	6,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<b>Tank No.</b>	6	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	6,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<b>Tank No.</b>	7	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	DL	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	
<b>Tank No.</b>	8	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP CP	
		<u>Notify</u>	04/01/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>		<u>Product</u>	DL	<u>Overfill Type</u>		<u>Piping Type</u>	PR
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	25	<u>Dist. to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>	0	<u>Owner @ ABD</u>		<u>Last Use</u>	04/01/87
		<u>Aband.</u>		<u>Method</u>		<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

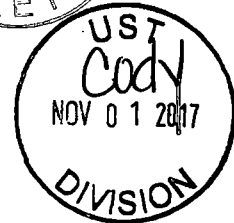
**Site Information for N-00332 Facility: INTERSTATE TRUCK TERMINAL INC**

<u>Tank No.</u>	9	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	SL	
		<u>Operate</u>	<u>T Status</u>	RNU	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP <u>CP</u>	
		<u>Notfy</u>	04/01/87	<u>Capacity</u>	4,000	<u>Tank Cont. Meth.</u>	SW	<u>Pipe Cont. Meth.</u>	SW
		<u>Variance</u>	<u>Product</u>	DL	<u>Overfill Type</u>		<u>Ver</u>	<u>Piping Type</u>	PR
		<u>Compl.</u>	<u>C Status</u>		<u>Age @ Notif.</u>	25		<u>Dist. to Well</u>	
		<u>Spill Det.</u>	<u>Left Gal.</u>	0	<u>Owner @ ABD</u>			<u>Last Use</u>	04/01/87
		<u>Aband.</u>	<u>Method</u>		<u>CAS No.</u>		<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	

 **Midlands  
Environmental  
Consultants, Inc.**

October 30, 2017

Ms. Ashleigh Thrash, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



**Subject:** Site-Specific Work Plan  
Interstate Truck Stop  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 17-6203  
Certified Site Rehabilitation Contractor UCC-0009

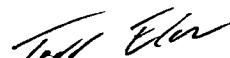
Dear Ms. Thrash,

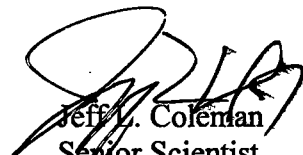
Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On October 27, 2017, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

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

  
Todd D. Elder  
Staff Hydrogeologist

  
Jeff L. Coleman  
Senior Scientist



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

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

Facility Name: Black's Car Care UST Permit #: 12371
Facility Address: Highway 278 West, Brunson, SC 29924
Responsible Party: Blacks Car Care Phone: 803-943-4388
RP Address: Rt 1A PO Box 172, Hampton, SC 29924
Property Owner (if different): N/A
Property Owner Address: N/A
Current Use of Property: Abandoned truck stop

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Drinking Water Supply Wells:

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

Soil:

- BTEXNM, PAH, Lead, RCRA Metals, Oil & Grease (9071), TPH-DRO (3550B/8015B), TPH-GRO (5030B/8015B), Grain Size, TOC

Air:

- BTEXN

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

Soil, Monitoring Wells, Water Supply Wells, Surface Water, Air, Duplicate, Field Blank, Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
# of shallow points proposed: Estimated Footage: feet per point
# of deep points proposed: Estimated Footage: feet per point
Field Screening Methodology:

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.
# of shallow wells: Estimated Footage: feet per point
# of deep wells: Estimated Footage: feet per point
# of recovery wells: Estimated Footage: feet per point
Comments, if warranted:

UST Permit #: 00332 Facility Name: Interstate Truck Stop

**Implementation Schedule** (Number of calendar days from approval)  
Field Work Start-Up: 10/27/2017 Field Work Completion: 11/27/2017  
Report Submittal: 12/27/2017 # of Copies Provided to Property Owners: 0

**Aquifer Characterization**  
Pump Test:  Slug Test:  (Check one and provide explanation below for choice)  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**  
Soil: \_\_\_\_\_ Tons Purge Water: 300.0 Gallons  
Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**  
For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
-During the initial site visit, MW-11 was not located and is believed to be buried.  
-All other monitoring wells were located. A total of two (2) well bolts will need to be replaced in order for the well to be locked properly.  
-All monitoring wells will be purged prior to sample collection.  
-Monitoring well samples will be analyzed for BTEXNM, 1,2-DCA, 8-OXY, and EDB.  
-Water supply well samples will be analyzed via methods 524.2, 8260B, and 504.1.

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**  
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_  
NA Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.  
Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_  
None Other variations from ACQAP. Please describe below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

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



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO NUMBER 4600559329**

Facility Name: Interstate Truck Stop

UST Permit #: 00332

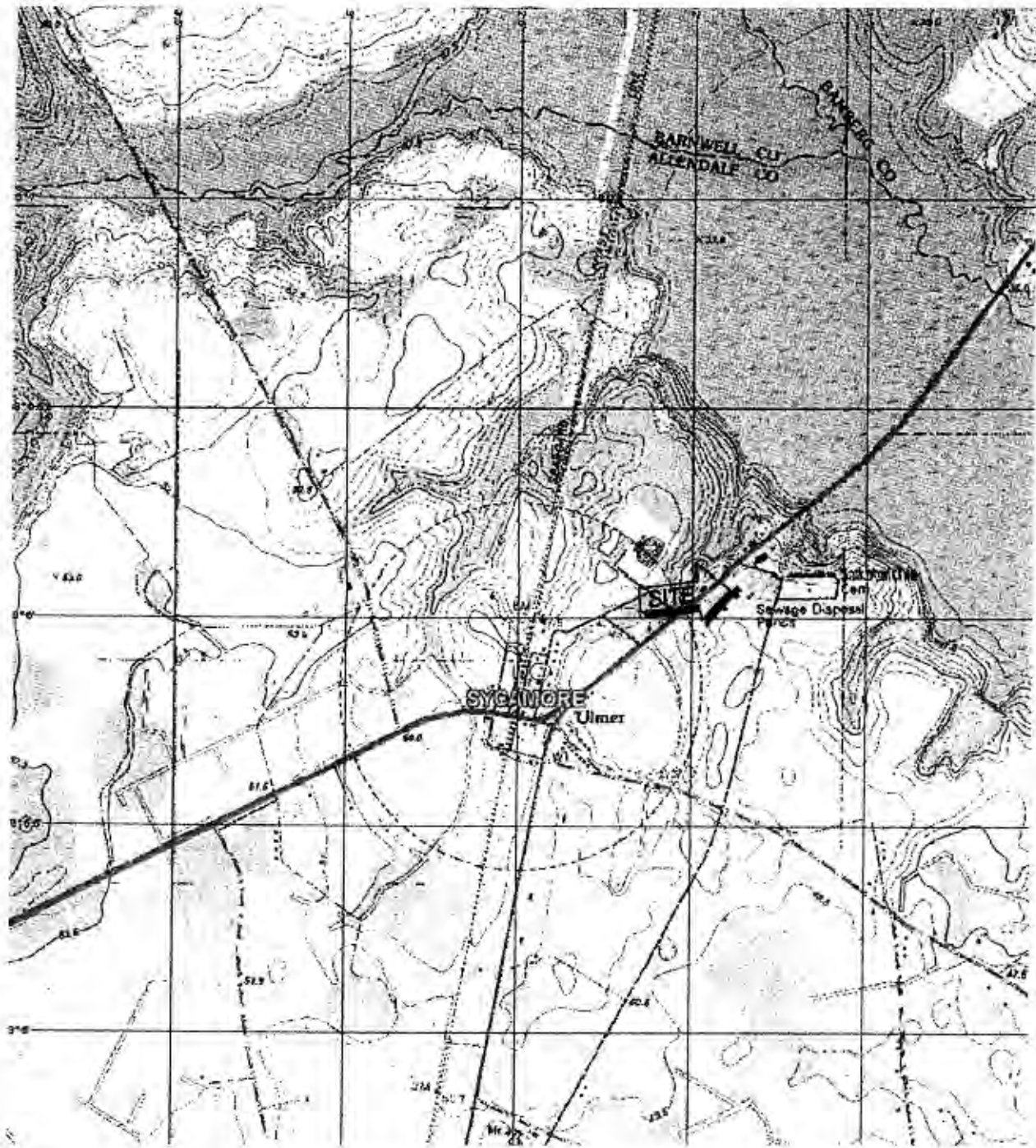
Cost Agreement #: Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$1.00	\$1.00
B1. Tax Map		each	\$1.00	\$0.00
C1. QAPP Appendix B		each	\$1.00	\$0.00
<b>2. A1. Receptor Survey</b>		each	\$1.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$1.00	\$2.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	28	per well	\$36.50	\$1,022.00
B1. Air or Vapors		samples	\$1.00	\$0.00
C1. Water Supply	1	samples	\$18.00	\$18.00
D1. Groundwater No Purge or Duplicate		per well	\$27.50	\$0.00
E1. Gauge Well only		per well	\$1.00	\$0.00
F1. Sample Below Product		per well	\$1.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	2	each	\$1.00	\$2.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	300	gallons	\$1.00	\$300.00
BB. Free Product		gallons	\$0.05	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
<b>23. D. Site Reconnaissance</b>	1	each	\$1.00	\$1.00
<b>18. Miscellaneous</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Data Table		each	\$50.00	\$0.00
Low Flow Sampling		per well	\$55.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$50.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$50.00	\$0.00
D1. Replace Well Vault		each	\$50.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts	2	each	\$2.60	\$5.20
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				\$1,350.20



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

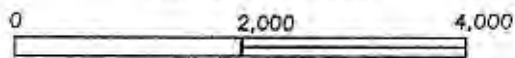




REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

FIGURE 1  
SITE LOCATION MAP

CONSULTECH ENVIRONMENTAL, INC.



Environmental Consulting  
and Engineering  
© 1996

Delivering innovative solutions to today's environmental concerns





NOV 08 2017

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

Re: **Notice to Proceed-Site Specific Work Plan Approval**  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906, PO #4600582306  
**Interstate Truck Stop, US Highway 321, Ulmer, SC**  
UST Permit #00332; MECI CA #55831; Pace CA #55832  
Allendale County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400012906 and the Underground Storage Tank (UST) Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved QAPP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

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

If you have any site-specific questions, please contact me at (803) 898-0610 or via e-mail at heinzecw@dhec.sc.gov. If you have any contract specific questions, please contact Ashleigh Thrash at (803) 898-0607 or via e-mail at thrasham@dhec.sc.gov.

Sincerely,

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

Cody Heinze, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved Cost Agreement (both CAs)

cc: Ashleigh Thrash, Corrective Action & Quality Assurance Section, UST Management Division (w/o  
enc)  
Trey Carter, Pace Analytical Services, 9800 Kinsey Ave, Ste 100, Huntersville, NC, 28078 (w/app. CA)  
Technical Files (w/enc)

**Approved Cost Agreement 55832**

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

HEINZECW

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	32.0000	\$21.000	672.00
		F1 EDB BY 8011	31.0000	\$18.000	558.00
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	4.0000	\$36.000	144.00
		M 7-OXYGENATES & ETHANOL (8260B)	4.0000	\$13.000	52.00
		N EDB (504.1)	3.0000	\$18.000	54.00
<b>Total Amount</b>					<b>1,480.00</b>

# Approved Cost Agreement 55831

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

HEINZECW

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1.0000	\$1.000	1.00
04 MOB/DEMOB		B1 PERSONNEL	2.0000	\$1.000	2.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	28.0000	\$36.500	1,022.00
		C1 WATER SUPPLY	1.0000	\$18.000	18.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	3.0000	\$27.500	82.50
		H1 FIELD BLANK	2.0000	\$1.000	2.00
17 DISPOSAL		AA WASTEWATER	300.0000	\$1.000	300.00
25 WELL REPAIR		F1 REPLACE WELL COVER BOLTS	2.0000	\$2.600	5.20
<b>Total Amount</b>					<b>1,432.70</b>



November 15, 2017



Ms. Ashleigh Thrash, Hydrogeologist  
 Corrective Action Section  
 Underground Storage Tank Program  
 Bureau of Land and Waste Management  
 South Carolina Department of Health  
 and Environmental Control  
 2600 Bull Street  
 Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling  
 Interstate Truck Terminal  
 Highway 301 & 321  
 Ulmer, South Carolina  
 SCDHEC Site ID Number 00332; CA # 55831  
 MECI Project Number 17-6203  
 Certified Site Rehabilitation Contractor UCC-0009



Dear Ms. Thrash,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

**PROJECT INFORMATION**

The subject site (Interstate Truck Terminal) is located near the intersection of Highway 301 & Highway 321 in Ulmer, Allendale County, South Carolina. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	8,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
2	8,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
3	8,000 Gal. Gasoline	In Ground	Rendered Non-Usable
4	6,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
5	6,000 Gal. Gasoline	In Ground	Rendered Non-Usable
6	6,000 Gal. Gasoline	In Ground	Rendered Non-Usable
7	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
8	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
9	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in June of 2002. This release was confirmed in October of 2002 and the release has been ranked a class 2BB due to water supply wells being located within 1,000' feet of the site.

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

## MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On November 14, 2017, MECI personnel collected groundwater samples from twenty-six (26) monitoring wells and one (1) water supply well at the subject site. One (1) monitoring well (MW-16) was gauged and determined to be dry and potentially obstructed. In addition, monitoring well MW-11 was unable to be located. Based on a request from SCDHEC, all monitoring wells were to be purged prior to sample collection. Twenty-six (26) monitoring wells were purged prior to sampling.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-1	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-3	X						X	X	X	X			
MW-4R	X						X	X	X	X			
MW-5R	X						X	X	X	X			
MW-6	X						X	X	X	X			
MW-7	X						X	X	X	X			
MW-8	X						X	X	X	X			
MW-9	X						X	X	X	X			
MW-10	X						X	X	X	X			
MW-11						X							
MW-12	X						X	X	X	X			
MW-13	X						X	X	X	X			
MW-14	X						X	X	X	X			
MW-15	X						X	X	X	X			
Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide													


Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE (EPA Method 824.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-16			X										
MW-17	X						X	X	X	X			
MW-18	X						X	X	X	X			
MW-19	X						X	X	X	X			
MW-20	X						X	X	X	X			
MW-21	X						X	X	X	X			
MW-22	X						X	X	X	X			
DW-1	X						X	X	X	X			
DW-2	X						X	X	X	X			
DW-3	X						X	X	X	X			
DW-4	X						X	X	X	X			
DW-5	X						X	X	X	X			
DW-6	X						X	X	X	X			
DUP-1(MW-12)							X	X	X	X			
DUP-2(MW-1)							X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank							X		X	X			
WSW-1					X								
WSW-2										X		X	X
WSW-DUP										X		X	X
Field Blank										X		X	X
Trip Blank										X		X	X


Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 215.00 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

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

Sincerely,  
 Midlands Environmental Consultants, Inc.

  
 Kyle V. Pudney  
 Project Biologist

  
 J. L. Coleman  
 Senior Scientist

Attachments:

**Contractor Checklist**

Item#	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?			X
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X



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

**Site Activity Summary**

**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Terminal  
**County:** Allendale  
**Field Personnel:** B. Garner, P. Wylie, C. Charlier



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-1	Y	11/14/17	12:12	25-35	***	25.55	***	3.63	2.50	No Odor
MW-2	Y	11/14/17	12:28	25-35	***	25.59	***	1.06	8.00	Slight Odor
MW-3	Y	11/14/17	11:52	24-34	***	26.00	***	0.55	3.00	Odor
MW-4R	Y	11/14/17	11:56	25-35	***	24.15	***	2.11	5.00	Slight Odor
MW-5R	Y	11/14/17	9:52	25-35	***	28.00	***	2.76	6.00	Slight Odor
MW-6	Y	11/14/17	11:05	25-35	***	25.52	***	0.86	6.00	Slight Odor
MW-7	Y	11/14/17	9:42	25-35	***	27.90	***	6.17	4.00	No Odor
MW-8	Y	11/14/17	9:26	25-35	***	27.21	***	3.92	2.50	Slight Odor
MW-9	Y	11/14/17	9:14	25-35	***	25.15	***	0.77	5.00	Slight Odor
MW-10	Y	11/14/17	11:20	25-35	***	24.73	***	4.76	4.50	No Odor
MW-11	N	11/14/17	NL	25-35	***	NL	***	NL	0.00	Not Located
MW-12	Y	11/14/17	8:15	25-35	***	22.70	***	2.81	10.00	Odor
MW-13	Y	11/14/17	8:01	25-35	***	23.86	***	3.84	9.50	No Odor
MW-14	Y	11/14/17	9:00	25-35	***	24.30	***	2.59	9.00	Slight Odor
MW-15	Y	11/14/17	8:44	15-35	***	24.75	***	4.72	3.00	No Odor
									78.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: B. Garner, P. Wylie, C. Chartier



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-16	N	11/14/17	DRY	15-35	***	DRY	***	DRY	DRY	Guaged Dry; TD: 25.51' BTOC
MW-17	Y	11/14/17	9:13	15-35	***	25.95	***	5.04	2.50	No Odor
MW-18	Y	11/14/17	11:16	15-35	***	21.87	***	1.57	7.00	No Odor
MW-19	Y	11/14/17	11:34	15-35	***	22.61	***	2.33	10.50	Slight Odor
MW-20	Y	11/14/17	8:31	15-35	***	23.95	***	2.50	4.00	No Odor
MW-21	Y	11/14/17	10:10	25-35	***	27.49	***	Sheen	3.00	Strong Odor/Sheen
MW-22	Y	11/14/17	10:47	25-35	***	26.21	***	1.03	2.50	Odor
DW-1	Y	11/14/17	12:38	65-70	***	26.6	***	2.85	13.50	No Odor
DW-2	Y	11/14/17	10:48	65-70	***	25.61	***	5.10	12.00	No Odor
DW-3	Y	11/14/17	9:01	65-70	***	25.28	***	1.38	13.00	No Odor
DW-4	Y	11/14/17	8:16	65-70	***	25.56	***	4.92	16.00	No Odor
DW-5	Y	11/14/17	9:49	80-85	***	27.65	***	0.88	21.00	No Odor
DW-6	Y	11/14/17	10:30	80-85	***	29.09	***	4.60	32.00	No Odor
DUP-1	Y	11/14/17	8:15	***	***	***	***	***	***	Duplicate sample of MW-12
DUP-2	Y	11/14/17	12:12	***	***	***	***	***	***	Duplicate sample of MW-1
									137.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Terminal  
**County:** Allendale  
**Field Personnel:** B. Garner, P. Wylie, C. Chartier



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
Field Blank	Y	11/14/17	12:35		***	***	***	***	***	Field Blank
Trip Blank	Y	11/14/17	12:35	***	***	***	***	***	***	Trip Blank
WSW-1	N	11/14/17	NS	***	***	***	***	***	***	Well Inactive, Well has been removed
WSW-2	Y	11/14/17	12:44	***	***	***	***	***	***	1224 Buford's Bridge Highway; Sample collected from spigot in front yard
WSW-DUP	Y	11/14/17	12:46	***	***	***	***	***	***	Duplicate sample of WSW-2
Field Blank	Y	11/14/17	12:50	***	***	***	***	***	***	Field Blank-WSW
Trip Blank	Y	11/14/17	12:51	***	***	***	***	***	***	Trip Blank-WSW
									0.00	<b>TOTAL GALLONS PURGED</b>



## Monitoring Well Purge And Sampling Data

Field Personnel: BG, PW, CC  
 Sampling Date(s): 11/14/2017  
 Sampling Case#: 1

Job Name: Interstate Truck Stop  
 Job Number: 17-6203

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-1	Initial	<del>12:00</del>	5.58	50.5	23.0	3.63	33.51								
	1st	12:02	5.91	55.6	22.0	4.01	200.0								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	12:12	6.13	55.9	21.9	4.17	145.5								
MW-2	Initial	<del>12:18</del>	5.80	159.2	24.0	1.06	20.09								
	1st	12:20	5.97	163.7	23.1	94.6	44.63								
	2nd	12:22	6.04	168.4	23.0	92.1	92.31								
	3rd	12:24	6.20	167.5	22.9	88.5	136.4								
	4th	12:26	6.19	164.2	22.7	88.6	133.7								
	5th	12:28	6.15	164.0	22.7	81.9	101.0								
	Sampling														
MW-3	Initial	11:42	4.65	101.2	22.3	0.55	30.05								
	1st	11:44	5.15	109.9	22.7	0.76	45.54								
	2nd	11:46	5.22	110.1	22.5	0.82	99.63								
	3rd														
	4th														
	5th														
	Sampling	11:52	5.36	109.5	22.3	0.75	60.11								
MW-4R	Initial	11:42	5.47	138.7	23.7	2.11	100.3								
	1st	11:44	5.66	127.6	23.0	1.93	94.36								
	2nd	11:46	5.88	126.2	22.7	1.86	161.9								
	3rd														
	4th														
	5th														
	Sampling	11:56	5.91	125.9	22.6	1.70	94.03								

\*= (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .88 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PW/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: BG, PW, CC  
 Sampling Date(s): 11/14/2017  
 Sampling Case#: 1

Job Name: Interstate Truck Stop  
 Job Number: 17-6203

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Yes No  
 Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-5R	Initial	9:47	5.45	182.8	22.2	2.76	11.75								
	1st	9:48	5.56	180.6	21.6	2.60	17.44								
	2nd	9:49	5.67	177.4	21.5	2.44	20.05	28.00	25-35	7.0	1.14	6.0	slight odor		
	3rd	9:50	5.91	175.5	21.5	2.48	25.51								
	4th	9:51	5.72	174.1	21.4	2.42	44.17								
	5th	9:52	5.77	174.0	21.4	2.33	40.65								
Sampling															
MW-6	Initial	10:52	6.04	239.8	23.8	0.86	48.91								
	1st	10:54	6.14	244.7	23.2	0.77	102.7								
	2nd	10:56	6.28	249.5	23.0	0.71	189.1	25.52	25-35	9.48	1.54	dye	slight odor		
	3rd	10:58	6.32	251.6	22.9	0.61	276.4								
	4th														
	5th														
Sampling	11:05	6.24	251.9	22.8	0.66	100.5									
MW-7	Initial	9:30	6.38	87.6	20.6	6.17	81.17								
	1st	9:31	6.72	82.3	20.1	6.04	60.54								
	2nd	9:32	6.94	81.7	20.0	5.92	101.3	27.00	25-35	7.10	1.16	dye	No odor		
	3rd	9:33	7.04	82.3	19.9	5.36	183.2								
	4th														
	5th														
Sampling	9:42	7.10	83.1	19.7	5.27	76.79									
MW-8	Initial	9:18	5.83	50.4	20.9	3.92	18.89								
	1st	9:19	5.77	57.8	20.1	3.77	147.9								
	2nd							27.21	25-35	7.79	1.27	dye	slight odor		
	3rd														
	4th														
	5th														
Sampling	9:26	5.67	58.7	19.7	3.58	83.64									

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .88 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.853
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103088	201301174
Case #3	10K 101895	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: BG, PW, CC  
 Sampling Date(s): 11/14/2017  
 Sampling Case#: 1

Job Name: Interstate Truck Stop  
 Job Number: 17-6203

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual		
MW-9	Initial	9:05	5.71	202.0	22.5	0.77	48.17									
	1st	9:06	5.40	211.6	22.0	0.69	49.72									
	2nd	9:07	5.32	217.4	21.7	0.62	64.19						1.61	dry @ 5.0	Slight odor	
	3rd	9:08	5.20	214.8	21.5	0.59	222.7									
	4th							29.15		25-35	9.85					
	5th												8.03			
	Sampling	9:14	5.17	212.7	21.5	0.61	96.33									
MW-10	Initial	11:11	6.04	119.4	22.3	4.76	76.11									
	1st	11:13	6.11	115.6	21.6	4.62	88.40									
	2nd	11:15	6.21	114.7	21.4	4.38	109.8						1.67	dry @ 4.50	No odor	
	3rd															
	4th															
	5th								29.73	25-35	10.27					
	Sampling	11:20	6.30	115.4	21.2	4.22	70.00						8.37			
MW-11	Initial															
	1st															
	2nd															
	3rd															
	4th															
	5th															
	Sampling															
MW-12	Initial	8:05	5.72	42.5	19.7	2.81	14.88									
	1st	8:07	5.47	46.7	19.2	2.85	46.14									
	2nd	8:09	5.31	47.2	19.0	2.91	39.11						2.00			
	3rd	8:11	5.39	48.0	19.0	2.87	33.23									
	4th	8:13	5.41	47.7	19.0	2.76	48.69									
	5th	8:15	5.44	47.5	18.9	2.68	43.21									
	Sampling							22.70	25-35	12.30			10.00			odor Dup-1

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .88 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.853
6"	1.469

Sampling Case#	PW/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: BG, PW, CC  
 Sampling Date(s): 11/14/2017  
 Sampling Case#: 1

Job Name: Interstate Truck Stop  
 Job Number: 17-6203

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-13	Initial	7:51	6.98	40.3	21.2	3.84	12.22								
	1st	7:53	6.56	43.2	20.7	3.46	19.45								
	2nd	7:55	6.44	44.8	20.5	3.22	14.22								
	3rd	7:57	6.31	45.7	20.4	3.28	26.48								
	4th	7:59	6.27	45.3	20.3	3.31	98.17								
	5th	8:01	6.41	45.8	20.3	3.39	90.47								
	Sampling														
MW-14	Initial	8:50	5.24	211.1	23.3	2.59	12.23								
	1st	8:52	5.38	217.6	23.2	3.00	45.66								
	2nd	8:54	5.50	218.4	23.0	2.89	49.72								
	3rd	8:56	5.55	220.7	22.9	2.72	40.11								
	4th	8:58	5.72	219.9	22.9	2.66	36.72								
	5th	9:00	5.68	219.4	22.9	2.48	39.45								
	Sampling														
MW-15	Initial	8:36	4.47	33.4	22.7	4.72	48.60								
	1st	8:38	4.48	32.6	22.4	4.50	188.1								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	8:44	4.97	42.7	22.2	4.38	92.37								
MW-16	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells, x .163 for 2" wells, or x .88 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Well gauged Dry  
 TD: 25.51 Obstructed?

15-35  
 TD: 25.51





## Monitoring Well Purge And Sampling Data

Field Personnel: BG, PW, CC  
 Sampling Date(s): 11/14/2017  
 Sampling Case#: 1

Job Name: Interstate Truck Stop  
 Job Number: 17-6203

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual		
MW-17	Initial	9:06	6.04	39.3	20.8	5.04	16.67				25.95	15-35	9.05	1.48	dry @ 2.50	No odor
	1st	9:08	5.72	38.4	20.6	4.72	159.4									
	2nd															
	3rd															
	4th															
	5th															
Sampling	9:13	5.62	37.2	20.5	4.55	100.1										
MW-18	Initial	11:00	5.59	49.5	22.4	1.57	60.41				21.87	15-35	13.13	2.14	dry @ 7.0	no odor
	1st	11:02	5.22	56.4	22.0	2.02	106.5									
	2nd	11:05	4.94	55.7	21.7	2.09	231.4									
	3rd	11:08	4.76	54.9	21.6	2.21	308.4									
	4th															
	5th															
Sampling	11:16	4.88	54.7	21.6	2.18	126.4										
MW-19	Initial	11:24	5.27	141.9	23.1	2.33	16.64				22.61	15-35	12.39	2.02	10.50	slight odor
	1st	11:26	5.58	150.6	22.3	2.03	26.60									
	2nd	11:28	5.77	151.7	22.0	1.99	64.77									
	3rd	11:30	5.91	150.7	21.9	1.90	101.5									
	4th	11:32	6.01	150.1	21.8	1.80	28.71									
	5th	11:34	6.03	149.3	21.7	1.76	80.71									
Sampling																
MW-20	Initial	8:20	4.96	50.4	21.9	2.50	24.93				23.95	15-35	11.05	1.80	dry @ 4.0	no odor
	1st	8:22	5.13	51.6	21.3	2.59	98.13									
	2nd	8:24	5.90	53.0	21.0	2.66	202.4									
	3rd															
	4th															
	5th															
Sampling	8:31	5.25	52.6	20.9	2.72	86.45										

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .183 for 2" wells, or \* x .88 for 4" wells, 1.489 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.183
4"	0.883
6"	1.489

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	16E101481	14H103088	201301174
Case #3	10K 101895	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: BG, PW, CC  
 Sampling Date(s): 11/14/2017  
 Sampling Case#: 1

Job Name: Interstate Truck Stop  
 Job Number: 17-6203

Calibration Data for:  
 Calibration Successful? (Yes) Yes or No (Please Circle)  
 pH: (Yes) Yes No  
 Conductivity: (Yes) Yes No  
 Dissolved Oxygen: (Yes) Yes No  
 Turbidity: (Yes) Yes No  
 Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-21	Initial	10:00	Sheen			Sheen	36.45								
	1st	10:01	↓			↓	105.6								
	2nd	10:02	Sheen			Sheen	191.3								
	3rd														
	4th														
	5th														
	Sampling	10:10	Sheen			Sheen	72.11								
MW-22	Initial	10:35	6.01	197.4	23.5	1.03	27.64								
	1st	10:37	6.29	192.5	23.0	96.4	154.9								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	10:47	6.35	189.1	22.7	92.1	39.45								
DW-1	Initial	12:16	5.52	110.0	23.7	2.85	11.45								
	1st	12:24	5.77	116.1	23.4	2.99	77.41								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	12:38	6.00	117.4	23.3	2.13	50.49								
DW-2	Initial	10:31	5.92	120.1	22.3	5.10	9.71								
	1st	10:38	6.09	124.1	21.7	5.00	86.42								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	10:46	6.19	129.5	21.4	4.92	32.01								

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .86 for 4" wells, 1.489 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.853
6"	1.489

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	16H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: BG, PW, CC  
 Sampling Date(s): 11/14/2017  
 Sampling Case#: 1

Job Name: Interstate Truck Stop  
 Job Number: 17-6203

Calibration Data for :  
 Calibration Successful? (Yes) Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
DW-3	Initial	8:44	6.00	160.2	23.7	1.38	32.14	25.28		65-70	44.72	7.29	dry @ 13.0	No odor	
	1st	8:52	6.19	157.3	23.0	1.44	156.7								
	2nd														
	3rd														
	4th														
	5th														
Sampling	9:01	6.28	155.1	22.7	1.60	64.15					36.45				
DW-4	Initial	7:50	7.21	205.9	20.2	4.92	16.76	25.56		65-70	44.44	7.24	dry @ 16.0	No odor	
	1st	7:57	7.36	204.5	20.0	4.81	101.5								
	2nd	8:04	7.45	201.8	19.8	4.66	155.6								
	3rd														
	4th														
	5th														
Sampling	8:16	7.42	202.3	19.7	4.51	94.31					36.22				
DW-5	Initial	9:18	5.61	145.0	21.2	0.98	33.27	27.65		80-85	57.35	9.35	dry @ 21.0	No odor	
	1st	9:27	6.05	140.1	20.7	1.12	28.12								
	2nd	9:36	6.21	140.7	20.4	1.27	102.6								
	3rd														
	4th														
	5th														
Sampling	9:49	6.16	141.3	20.3	1.44	74.64					46.74				
DW-6	Initial	9:53	5.65	67.0	22.1	4.60	70.11	29.09		80-85	55.91	9.11	dry @ 32.0	No odor	
	1st	10:02	5.72	64.0	20.8	5.00	68.15								
	2nd	10:11	5.94	70.1	20.6	5.17	92.33								
	3rd	10:18	6.07	71.3	20.4	5.23	94.22								
	4th														
	5th														
Sampling	10:30	6.10	70.9	20.4	5.38	56.78					45.57				

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells, x .163 for 2" wells, or \* x .66 for 4" wells, 1.489 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.489

Sampling Case#	PH/Conductance SM	DO SM	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: BG, PW, CC  
 Sampling Date(s): 11/14/2017  
 Sampling Case#: 1

Job Name: Interstate Truck Stop  
 Job Number: 17-6203

Calibration Data for :  
 Calibration Successful? (Yes or No (Please Circle))  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
Dup's + Blanks	Initial	Dup-1 (MW-12) @ 8:15													
	1st														
	2nd	Dup-2 (MW-1) @ 12:12													
	3rd														
	4th	F.B. @ 12:35													
	5th	T.B. @ 12:35													
	Sampling														
WSW's	Initial														
	1st														
	2nd														
	3rd														
	4th	WSW-2 - 12:44													Collected from spigot on house
	5th														
	Sampling														
WSW Dup + Blanks	Initial	WSW-Dup (1st) @ 12:46													
	1st														
	2nd														
	3rd	WSW-Field Blank @ 12:50													
	4th														
	5th	WSW-Trip Blank @ 12:51													
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells, x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Pw/Conductance SN	DO SN	Turbidity
Case #1	16H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251



## CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

<b>Section A</b> Required Client Information: Company: <u>SCWEC</u> Address: <u>2100 Buell St</u> Email To: <u>ACTL@THRAASH.COM</u> Phone: <u>(404) 898-0171</u> Fax: <u>(404) 333-978-0171</u> Requested Due Date/TAT:	<b>Section B</b> Required Project Information: Report To: <u>AT Thrash - VST</u> Copy To: Purchase Order No.: <u>4600422517</u> Project Name: <u>EMERGENCY TRUCK STOP</u> Project Number: <u>0032 TACO CAT 0032</u>	<b>Section C</b> Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: <u>7 Carter</u> Pace Profile #:	<div style="text-align: center; font-size: 24pt; font-weight: bold;">2195563</div> <b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER Site Location: <u>Almondale</u> STATE: <u>SC</u>
---	---	--	--

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.		
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol	Other	Analysis Test					
					DATE	TIME	DATE	TIME											BTEX	VOC			Pest	Metals
1	MW-1						11/14/17		6												No odor			
2	MW-2						11:20														Slight odor			
3	MW-3						11:22														odor			
4	MW-4A						11:56														Slight odor			
5	MW-5A						9:52														Slight odor			
6	MW-6						11:05														Slight odor			
7	MW-7						9:42														No odor			
8	MW-8						9:26														Slight odor			
9	MW-9						9:14														Slight odor			
10	MW-10						11:20		6												No odor			
11	MW-11																				NIS			
12	MW-12						8:15		6												odor			
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION				DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS							
					<i>[Signature]</i>				11/15/17	8:45	<i>[Signature]</i> Pace				11:15	8:45								

2

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>CHRIS CARTER</u>	SIGNATURE OF SAMPLER: <u>Chris Carter</u>				

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



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

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 2 of 3	
Company: SCDHEC		Report To: A THRESH - UST		Attention:		<b>2195537</b>	
Address: 2100 Hill St		Copy To:		Company Name:		<b>REGULATORY AGENCY</b>	
Ashley Thrash				Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Email To: Thrash.Ashley@scdhec.sc.gov		Purchase Order No.: 4603422513		Pace Quote Reference:		<input type="checkbox"/> JUST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Phone: 803-890-0207		Project Name: Interstate Truck Stop		Pace Project Manager: T. Carter		Site Location STATE: SC Attendez	
Requested Due Date/TAT:		Project Number: UST-400532 PACE (ASHLEY)		Pace Profile #:			

ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.				
					DATE	TIME	DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Tests															
1	MW-13		W7G	G			11/14/17	8:31	6																									No odor
2	MW-14		W7G	G			11/14/17	9:02	6																								Slight odor	
3	MW-15		W7G	G			11/14/17	8:30	6																								No odor	
4	MW-16		W7G	G			11/14/17	9:13	6																								N/A	
5	MW-17		W7G	G			11/14/17	11:11	6																								No odor	
6	MW-18		W7G	G			11/14/17	11:54	6																								Slight odor	
7	MW-19		W7G	G			11/14/17	8:31	6																								No odor	
8	MW-20		W7G	G			11/14/17	10:10	6																								Strong odor/No odor	
9	MW-21		W7G	G			11/14/17	12:28	6																								No odor	
10	MW-22		W7G	G			11/14/17	12:40	6																								No odor	
11	DW-1		W7G	G			11/14/17	12:28	6																								No odor	
12	DW-2		W7G	G			11/14/17	12:40	6																								No odor	
ADDITIONAL COMMENTS		REQUISITIONED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																				
		S. J. Carter		11/15/17		8:45		J. J. ...		11-15-17		8:45																						
SAMPLER NAME AND SIGNATURE														Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																	
PRINT Name of SAMPLER: Chris Carter																																		
SIGNATURE of SAMPLER: [Signature]																		DATE Signed (MM/DD/YY): 11/14/17																

2

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



## CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 5 of 3  
**2195564**

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: <u>SCDHEC</u>	Report To: <u>A Trash - VST</u>	Attention:
Address: <u>2600 Bull St</u>	Copy To:	Company Name:
<u>ASHLEY TRASH</u>		Address:
Email To: <u>TrashAM@dhcc.sc.gov</u>	Purchase Order No.: <u>H100422513</u>	Pace Quote Reference:
Phone: <u>803-898-0607</u> Fax: <u>803-898-0673</u>	Project Name: <u>Antarctica 2 Truck stop</u>	Pace Project Manager: <u>J. Carter</u>
Requested Due Date/TAT:	Project Number: <u>VST #00332 Pace CA# 55822</u>	Pace Profile #:

<b>REGULATORY AGENCY</b>		
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER
<input checked="" type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER
Site Location	STATE: <u>SC</u>	<u>Attenda 12</u>

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol					Other
					DATE	TIME	DATE	TIME														
1	DW-3		G					9:01	6								X	BTEX 8210 B			No odor	
2	DW-4							8:11									X	1,2 DCA 2210 B			No odor	
3	DW-5							8:49									X	80445 8210 B			No odor	
4	DW-6							10:30									X	EDA 9511			No odor	
5	Dup 1							8:15									X				odor	
6	Dup 2							12:12									X				No odor	
7	Field Blank							12:25	6								X				FB	
8	Trip Blank							12:25	3								X				TB	
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		11/15/17	8:45		11/15/17	8:45	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<u>Chris Carter</u>				
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY):		<u>11/14/17</u>			

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



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

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: <u>1</u> of <u>1</u>	
Company: <u>SC-DHEC</u>		Report To: <u>ATLASH - UST</u>		Attention:		2184550	
Address: <u>2600 Bull St</u>		Copy To:		Company Name:		REGULATORY AGENCY	
<u>ASHLEY TRASH</u>		Purchase Order No.: <u>4600422913</u>		Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Email To: <u>TRASHLAM@dhc.sc.gov</u>		Project Name: <u>Interstate Truck Stop</u>		Pace Quote Reference:		Site Location	
Phone: <u>803-898-2607</u> Fax: <u>803-898-0673</u>		Project Number: <u>031#00332</u>		Pace Project Manager: <u>T. Carter</u>		STATE: <u>SC</u> <u>Allendale</u>	
Requested Due Date/TAT:				Pace Profile #:			

ITEM #	Section D Required Client Information		Matrix Codes MATRIX / CODE		COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
	SAMPLE ID (A-Z, 0-9 / -)		Drinking Water DW	Water WT	COMPOSITE START	COMPOSITE END/GRAB			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Ni <sub>2</sub> -S <sub>2</sub> O <sub>8</sub>	Methanol				Other
	DATE	TIME	DATE	TIME	DATE	TIME			DATE	TIME	DATE	TIME	DATE	TIME	DATE				TIME
1	WSW 1																	N/S	
2	WSW 2				12:44													LDL	
3	DWP 1				12:46													LDL	
4	FB				12:50													LDL	
5	TR				12:51													LDH	
6																			
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	11/15/17	845	<i>[Signature]</i>	11/15/17	845	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>CHRIS CARTER</u>					
SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed (MM/DD/YY): <u>11/14/17</u>					

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





November 15, 2017

Re: Treatment of Purge Water  
Interstate Truck Terminal  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 17-6203

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

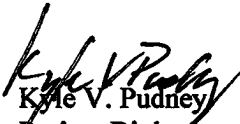
November 14, 2017

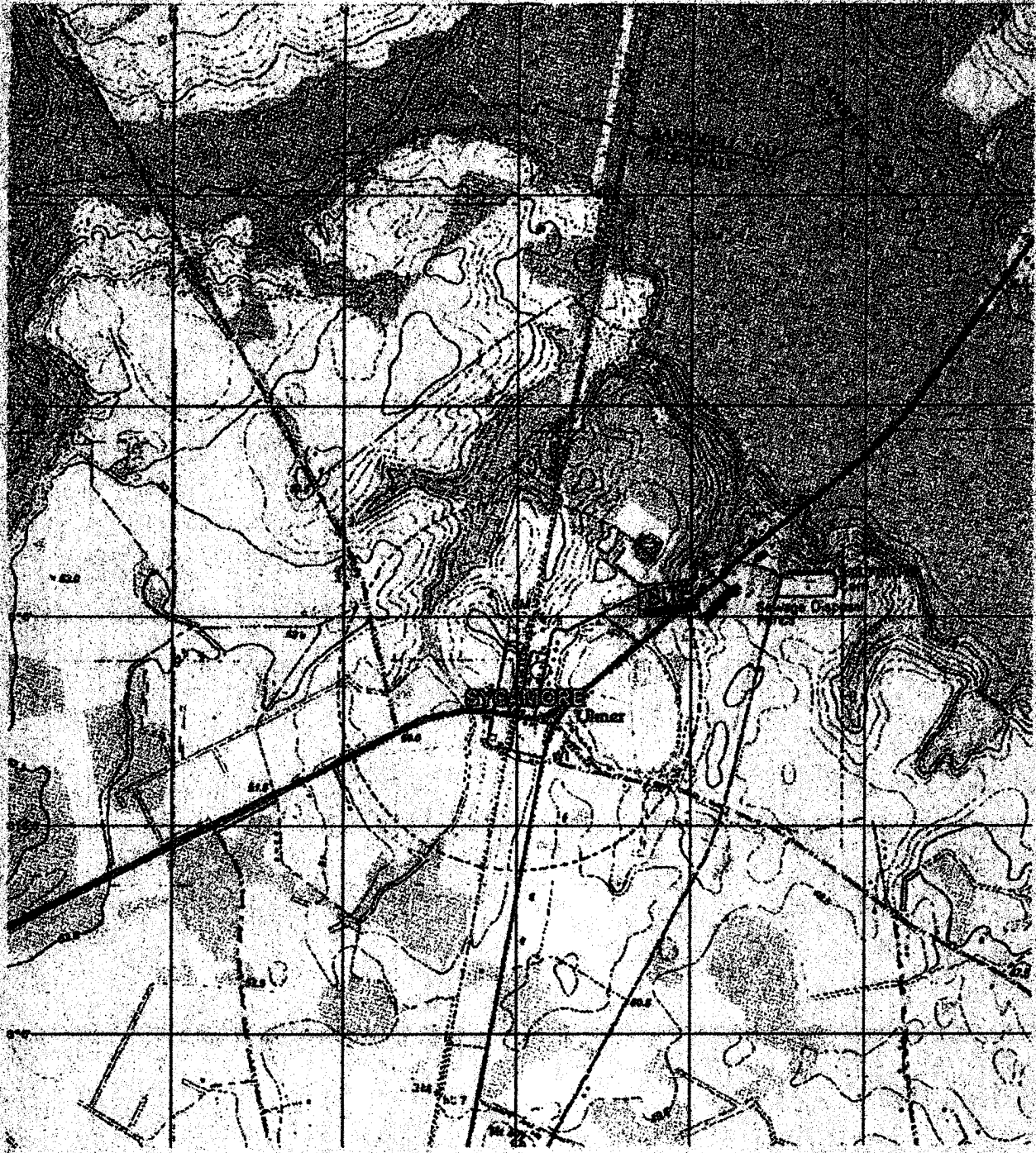
**A total of 215.00 gallons were treated on November 14, 2017 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.

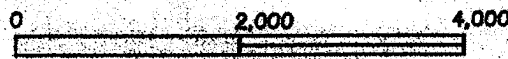
  
Kyle V. Pudney  
Project Biologist



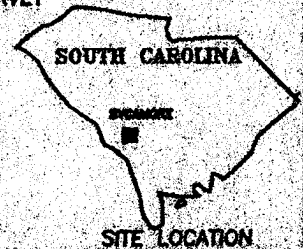
REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
LIST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-08-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

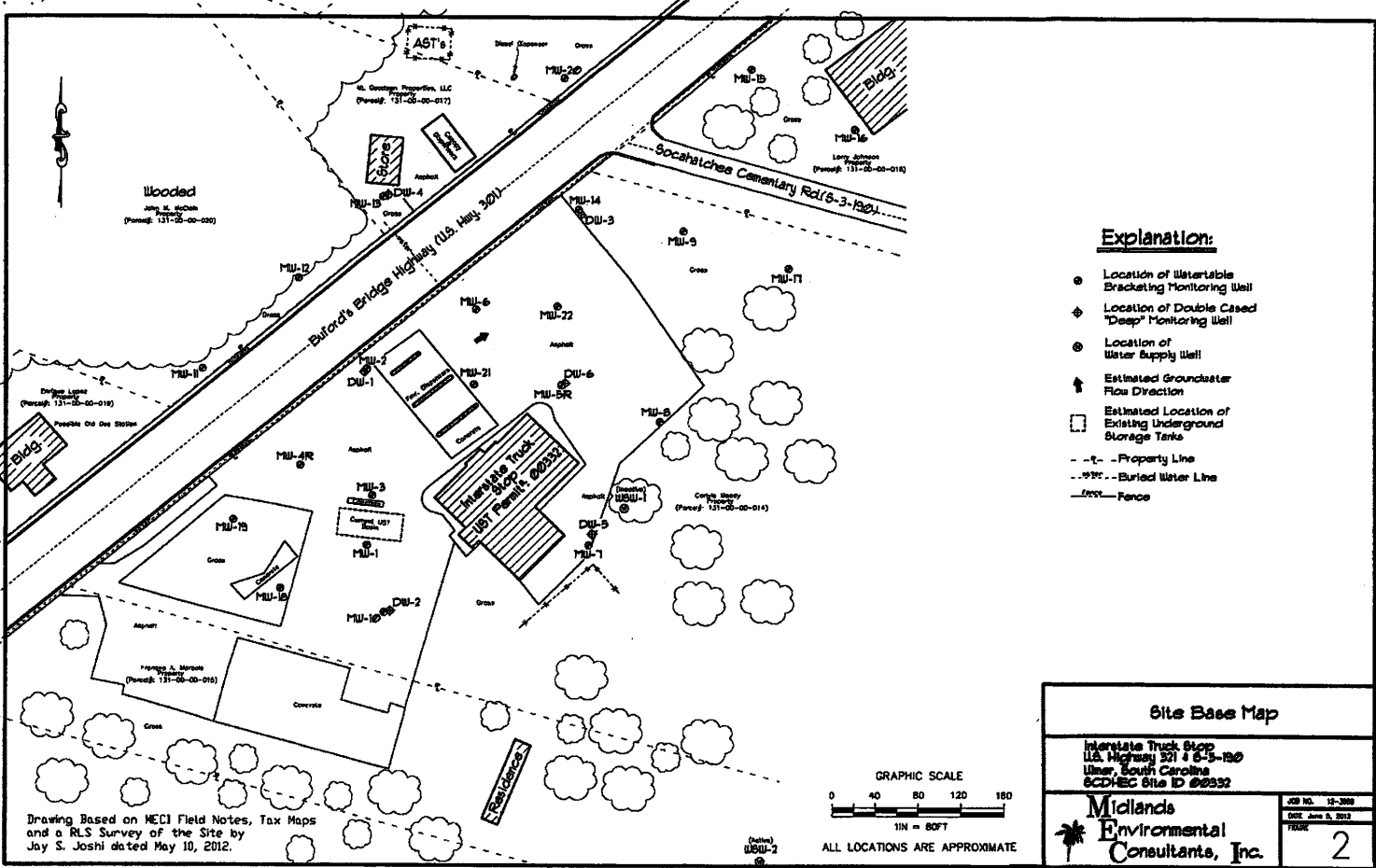
**FIGURE 1  
SITE LOCATION MAP**

**CONSULTECH ENVIRONMENTAL, INC.**



Environmental Consulting  
and Engineering  
© 1998

Reliable. Proven. Innovative. In tune with the environment.





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

November 28, 2017

Ashleigh Thrash  
SCHDEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: Interstate Truck 00332/55832  
Pace Project No.: 92363625

Dear Ashleigh Thrash:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



### REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Interstate Truck 00332/55832  
Pace Project No.: 92363625

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### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Connecticut Certification #: PH-0216  
Delaware Certification: FL NELAC Reciprocity  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14  
Nevada Certification: FL NELAC Reciprocity  
New Jersey Certification #: FL022  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
Wyoming Certification: FL NELAC Reciprocity  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

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### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

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

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### SAMPLE SUMMARY

Project: Interstate Truck 00332/55832  
Pace Project No.: 92363625

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92363625001	WSW 2	Water	11/14/17 12:44	11/15/17 15:35
92363625002	Dup 1	Water	11/14/17 12:44	11/15/17 15:35
92363625003	FB	Water	11/14/17 12:50	11/15/17 15:35
92363625004	TB	Water	11/14/17 12:51	11/15/17 15:35

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### SAMPLE ANALYTE COUNT

Project: Interstate Truck 00332/55832  
Pace Project No.: 92363625

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92363625001	WSW 2	EPA 504.1	RES	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92363625002	Dup 1	EPA 504.1	RES	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92363625003	FB	EPA 504.1	RES	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92363625004	TB	EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/55832

Pace Project No.: 92363625

Sample: WSW 2      Lab ID: 92363625001      Collected: 11/14/17 12:44      Received: 11/15/17 15:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1    Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/21/17 16:22	11/21/17 23:38	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	70-130		1	11/21/17 16:22	11/21/17 23:38	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		11/23/17 07:00	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		11/23/17 07:00	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		11/23/17 07:00	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		11/23/17 07:00	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		11/23/17 07:00	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		11/23/17 07:00	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		11/23/17 07:00	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	85	%	70-130		1		11/23/17 07:00	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		11/23/17 07:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	127	%	70-130		1		11/23/17 07:00	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		11/25/17 12:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		11/25/17 12:02	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		11/25/17 12:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		11/25/17 12:02	75-85-0	L1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		11/25/17 12:02	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/25/17 12:02	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/25/17 12:02	64-17-5	L1
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		11/25/17 12:02	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/25/17 12:02	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		11/25/17 12:02	17060-07-0	
Toluene-d8 (S)	115	%	70-130		1		11/25/17 12:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/55832  
 Pace Project No.: 92363625

Sample: Dup 1      Lab ID: 92363625002      Collected: 11/14/17 12:44      Received: 11/15/17 15:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/21/17 16:22	11/21/17 23:58	108-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	102	%	70-130		1	11/21/17 16:22	11/21/17 23:58	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		11/23/17 07:26	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		11/23/17 07:26	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		11/23/17 07:26	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		11/23/17 07:26	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		11/23/17 07:26	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		11/23/17 07:26	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		11/23/17 07:26	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	81	%	70-130		1		11/23/17 07:26	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		11/23/17 07:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	128	%	70-130		1		11/23/17 07:26	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		11/25/17 12:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		11/25/17 12:20	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		11/25/17 12:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		11/25/17 12:20	75-85-0	L1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		11/25/17 12:20	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/25/17 12:20	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/25/17 12:20	64-17-5	L1
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		11/25/17 12:20	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/25/17 12:20	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		11/25/17 12:20	17060-07-0	
Toluene-d8 (S)	120	%	70-130		1		11/25/17 12:20	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Interstate Truck 00332/55832  
 Pace Project No.: 92363625

Sample: FB Lab ID: 92363625003 Collected: 11/14/17 12:50 Received: 11/15/17 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	11/21/17 16:22	11/22/17 00:18	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	70-130		1	11/21/17 16:22	11/22/17 00:18	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		11/23/17 07:53	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		11/23/17 07:53	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		11/23/17 07:53	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		11/23/17 07:53	1834-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		11/23/17 07:53	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		11/23/17 07:53	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		11/23/17 07:53	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	81	%	70-130		1		11/23/17 07:53	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		11/23/17 07:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	126	%	70-130		1		11/23/17 07:53	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		11/25/17 10:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		11/25/17 10:34	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		11/25/17 10:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		11/25/17 10:34	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		11/25/17 10:34	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/25/17 10:34	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/25/17 10:34	64-17-5	L1
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		11/25/17 10:34	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/25/17 10:34	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		11/25/17 10:34	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		11/25/17 10:34	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/55832  
 Pace Project No.: 92383625

Sample: TB Lab ID: 92363625004 Collected: 11/14/17 12:51 Received: 11/15/17 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		11/23/17 08:19	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		11/23/17 08:19	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		11/23/17 08:19	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		11/23/17 08:19	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		11/23/17 08:19	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		11/23/17 08:19	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		11/23/17 08:19	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	81	%	70-130		1		11/23/17 08:19	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		11/23/17 08:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	131	%	70-130		1		11/23/17 08:19	17060-07-0	S3
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		11/25/17 10:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		11/25/17 10:52	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		11/25/17 10:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		11/25/17 10:52	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		11/25/17 10:52	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/25/17 10:52	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/25/17 10:52	64-17-5	L1
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		11/25/17 10:52	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		11/25/17 10:52	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		11/25/17 10:52	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		11/25/17 10:52	2037-26-5	

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/55832  
 Pace Project No.: 92363625

QC Batch: 407802 Analysis Method: EPA 524.2  
 QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
 Associated Lab Samples: 92363625001, 92363625002, 92363625003, 92363625004

METHOD BLANK: 2225151 Matrix: Water  
 Associated Lab Samples: 92363625001, 92363625002, 92363625003, 92363625004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	11/23/17 00:29	
Benzene	ug/L	ND	0.50	0.25	11/23/17 00:29	
Ethylbenzene	ug/L	ND	0.50	0.25	11/23/17 00:29	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	11/23/17 00:29	
Naphthalene	ug/L	ND	0.50	0.25	11/23/17 00:29	
Toluene	ug/L	ND	0.50	0.25	11/23/17 00:29	
Xylene (Total)	ug/L	ND	0.50	0.25	11/23/17 00:29	
1,2-Dichloroethane-d4 (S)	%	124	70-130		11/23/17 00:29	
4-Bromofluorobenzene (S)	%	83	70-130		11/23/17 00:29	
Toluene-d8 (S)	%	96	70-130		11/23/17 00:29	

LABORATORY CONTROL SAMPLE & LCSD: 2225152

2225153

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	10	8.7	8.6	87	86	70-130	1	40	
Benzene	ug/L	10	8.6	8.1	86	81	70-130	6	40	
Ethylbenzene	ug/L	10	9.1	8.8	91	88	70-130	3	40	
Methyl-tert-butyl ether	ug/L	10	10.3	10.3	103	103	70-130	0	40	
Naphthalene	ug/L	10	10.8	11.3	108	113	70-130	5	40	
Toluene	ug/L	10	9.1	8.6	91	86	70-130	6	40	
Xylene (Total)	ug/L	30	25.0	24.5	83	82	70-130	2	40	
1,2-Dichloroethane-d4 (S)	%				105	102	70-130			
4-Bromofluorobenzene (S)	%				99	97	70-130			
Toluene-d8 (S)	%				87	88	70-130			

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

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/55832  
 Pace Project No.: 92363625

QC Batch: 388172 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92363625001, 92363625002, 92363625003, 92363625004

METHOD BLANK: 2153782 Matrix: Water  
 Associated Lab Samples: 92363625001, 92363625002, 92363625003, 92363625004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	11/25/17 09:59	
Diisopropyl ether	ug/L	ND	1.0	0.12	11/25/17 09:59	
Ethanol	ug/L	ND	200	131	11/25/17 09:59	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	11/25/17 09:59	
tert-Amyl Alcohol	ug/L	ND	100	50.0	11/25/17 09:59	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	11/25/17 09:59	
tert-Butyl Alcohol	ug/L	ND	100	3.6	11/25/17 09:59	
tert-Butyl Formate	ug/L	ND	50.0	1.9	11/25/17 09:59	
1,2-Dichloroethane-d4 (S)	%	96	70-130		11/25/17 09:59	
4-Bromofluorobenzene (S)	%	102	70-130		11/25/17 09:59	
Toluene-d8 (S)	%	106	70-130		11/25/17 09:59	

LABORATORY CONTROL SAMPLE: 2153783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1220	122	70-130	
Diisopropyl ether	ug/L	50	55.8	112	70-130	
Ethanol	ug/L	2000	3240	162	70-130 L1	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
tert-Amyl Alcohol	ug/L	1000	1300	130	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	680	136	70-130 L1	
tert-Butyl Formate	ug/L	400	426	107	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 2153785

Parameter	Units	92363996003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	800	679	85	70-130	
Diisopropyl ether	ug/L	ND	40	41.6	104	70-130	
Ethanol	ug/L	ND	1600	2470	155	70-130 MO	
Ethyl-tert-butyl ether	ug/L	ND	80	64.3	80	70-130	
tert-Amyl Alcohol	ug/L	ND	800	697	87	70-130	
tert-Amylmethyl ether	ug/L	ND	80	69.5	87	70-130	
tert-Butyl Alcohol	ug/L	ND	400	480	120	70-130	
tert-Butyl Formate	ug/L	ND	320	81.1	25	70-130 M1,P5	

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

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/55832  
 Pace Project No.: 92363625

MATRIX SPIKE SAMPLE: 2153785		92363998003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				94	70-130	

SAMPLE DUPLICATE: 2153908		92363998001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	94	6		
4-Bromofluorobenzene (S)	%	101	103	2		
Toluene-d8 (S)	%	106	107	1		

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/55832  
 Pace Project No.: 92363625

QC Batch: 387762 Analysis Method: EPA 504.1  
 QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
 Associated Lab Samples: 92363625001, 92363625002, 92363625003

METHOD BLANK: 2151221 Matrix: Water  
 Associated Lab Samples: 92363625001, 92363625002, 92363625003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	11/21/17 17:59	
1-Chloro-2-bromopropane (S)	%	100	70-130		11/21/17 17:59	

LABORATORY CONTROL SAMPLE & LCSD: 2151222 2151223

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.24	0.23	98	96	70-130	2	20	
1-Chloro-2-bromopropane (S)	%				101	102	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2151224 2151225

Parameter	Units	92363544001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.24	0.23	0.23	94	96	65-135	2	20	
1-Chloro-2-bromopropane (S)	%						100	101	70-130			

SAMPLE DUPLICATE: 2151226

Parameter	Units	92364002001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	230	238	4	20	
1-Chloro-2-bromopropane (S)	%	0	0		S4	

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## QUALIFIERS

Project: Interstate Truck 00332/55832

Pace Project No.: 92363625

### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
- S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Interstate Truck 00332/55832  
Pace Project No.: 92363625

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92363625001	WSW 2	EPA 504.1	387762	EPA 504.1	387871
92363625002	Dup 1	EPA 504.1	387762	EPA 504.1	387871
92363625003	FB	EPA 504.1	387762	EPA 504.1	387871
92363625001	WSW 2	EPA 524.2	407602		
92363625002	Dup 1	EPA 524.2	407602		
92363625003	FB	EPA 524.2	407602		
92363625004	TB	EPA 524.2	407602		
92363625001	WSW 2	EPA 8260	388172		
92363625002	Dup 1	EPA 8260	388172		
92363625003	FB	EPA 8260	388172		
92363625004	TB	EPA 8260	388172		

### REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Open Receipt (SCOR)	Document Revised: August 4, 2017 Page 1 of 2
	Document No: F-CAR-CS-033-Rev.04	Issuing Authority: Pace Quality Office

**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition  
Open Receipt

Client Name:

SCORHEE

Project #:

NO#: 92363625



**Courier:**

Commercial  Fed Ex  UPS  USPS  Client

**Custody Seal Present?**

Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Container: 11/16/17

**Packing Material:**

Bubble Wrap  Bubble Bags  None  Other

**Biological Tissue Frozen?**

Yes  No  N/A

**Thermometer:**

Gun ID:

Ther

Type of log:

Wet  Blue  Bone

**Correction Factor:**

Cooler Temp Corrected (°C):

2.7

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil  N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?

Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<22 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>UN</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Sample Discrepancy: \_\_\_\_\_

Lot ID of split containers: \_\_\_\_\_

Project Manager SCORF Review: TC

Date: 11/16/17

Project Manager SRF Review: TC

Date: 11/16/17

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



Document Name:  
 Sample Condition Upon Receipt (SCUR)  
 Document No.:  
 F-CAR-CS-033-Rev.04

Document Revised: August 4, 2017  
 Page 2 of 2  
 Issuing Authority:  
 Pace Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

\*\*Bottom half of box is to list number of bottles

Project #

UO#: 92363626

PM: RMC

Due Date: 01/28/17

CLIENT: 82-SCDHEC

Item#	Description	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 ml Plastic Unpreserved (N/A) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
BP2U-250 ml Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP2U-500 ml Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP2U-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP4U-125 ml Plastic H2SO4 (pH < 2) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
BP2U-250 ml Plastic HNO3 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP4U-125 ml Plastic 2N Acetate 8. AcOH (N-)		/	/	/	/	/	/	/	/	/	/	/	/
BP4U-125 ml Plastic NaOH (pH > 12) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
W/OP-1 liter-mouthed Glass Jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AG3U-1 liter Amber Unpreserved (N/A) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
AS2U-1 liter Amber HCl (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG2U-250 ml Amber Unpreserved (N/A) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
AG1U-1 liter Amber H2SO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG2U-250 ml Amber H2SO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG3U (P/2N): 250 ml Amber HNO3 (N/A) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
DEBR-40 ml VOA HCl (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VEBT-40 ml VOA H2SO4 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VEBB-40 ml VOA HCl (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DEBP-40 ml VOA H2SO4 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VOAK (5 vials per kit)-SPEX kit (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V/OK (5 vials per kit)-VPH/Gas kit (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
SP2T-925 ml Sterile Plastic (N/A -- lab)		/	/	/	/	/	/	/	/	/	/	/	/
SP2T-250 ml Sterile Plastic (N/A -- lab)		/	/	/	/	/	/	/	/	/	/	/	/
BP2A-250 ml Plastic (N/A) (P. 3-9-7)		/	/	/	/	/	/	/	/	/	/	/	/
Cobaltines		/	/	/	/	/	/	/	/	/	/	/	/
WSDU-30 ml. Scintillation vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
GN		/	/	/	/	/	/	/	/	/	/	/	/

6  
 556  
 3333

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #



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

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	Page: ( 1 )
Company: <b>SCDHEC</b>	Report To: <b>A Trash - UST</b>	Attention:	<b>2184550</b>
Address: <b>200 Bull St</b>	Copy To:	Company Name:	REGULATORY AGENCY:
<b>ASHLEY TRASH</b>		Address:	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
<b>W.P. FASLAM@shc.sc.gov</b>	Purchase Order No: <b>460422013</b>	Phone Number:	<input checked="" type="checkbox"/> UST <input type="checkbox"/> BORA <input type="checkbox"/> OTHER
<b>893-898-0507 (803)-898-0073</b>	Project Name: <b>Interstate Truck Stop</b>	Personnel:	Site Location: <b>SC</b>
Requested Date/Time/TAT:	Project Reference: <b>UST # 00332</b>	Phone/Fax #:	<b>Attendant</b>

ITEM #	SAMPLE ID (A-Z 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE DW: Drinking Water WT: Water WN: Waste Water P: Precipitation SL: Soil OL: Oil WP: Wipe AR: Air TS: Tissue OT: Other	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis (P/N) (V/N)	Residual Chlorine (V/N)		
			COMPOSITE		COMPOSITE				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Methanol			Other	
			DATE	TIME	DATE	TIME													
1	WSW 1																		
2	WSW 2																		
3	DW 1																		
4	FB																		
5	TB																		

ADDITIONAL COMMENTS	APPROVED BY (INITIALS)	DATE	TIME	ACCEPTED BY (INITIALS)	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	11/17/15	8:15	<i>[Signature]</i>	11/19/15	8:45	NH
	<i>[Signature]</i>	1-15-17	10:35	<i>[Signature]</i>	1-15-17	2:24	NH

ORIGINAL

SAMPLE NAME AND SIGNATURE		Temp in °C	Received on file (V/N)	Checked/Verified (V/N)	Sample Intact (V/N)
PRINT Name of SAMPLER: <b>Chris Chartier</b>	DATE Signed (MM/DD/YY): <b>11/14/17</b>				
SIGNATURE of SAMPLER: <i>[Signature]</i>					

\*Important Note: By signing this form you are accepting Pace's NECE 30 day payment terms and agreeing to late charges of 1.5% per month for any invoice not paid within 30 days. F-ALL-O-020rev.07, 18-May-2007



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

November 27, 2017

Ashleigh Thrash  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

Dear Ashleigh Thrash:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



### REPORT OF LABORATORY ANALYSIS

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

## CERTIFICATIONS

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

---

### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

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

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92363548001	MW-1	Water	11/14/17 12:12	11/15/17 08:45
92363548002	MW-2	Water	11/14/17 12:28	11/15/17 08:45
92363548003	MW-3	Water	11/14/17 11:52	11/15/17 08:45
92363548004	MW-4R	Water	11/14/17 11:56	11/15/17 08:45
92363548005	MW-5R	Water	11/14/17 09:52	11/15/17 08:45
92363548006	MW-6	Water	11/14/17 11:05	11/15/17 08:45
92363548007	MW-7	Water	11/14/17 09:42	11/15/17 08:45
92363548008	MW-8	Water	11/14/17 09:26	11/15/17 08:45
92363548009	MW-9	Water	11/14/17 09:14	11/15/17 08:45
92363548010	MW-10	Water	11/14/17 11:20	11/15/17 08:45
92363548011	MW-12	Water	11/14/17 08:15	11/15/17 08:45
92363548012	MW-13	Water	11/14/17 08:01	11/15/17 08:45
92363548013	MW-14	Water	11/14/17 09:00	11/15/17 08:45
92363548014	MW-15	Water	11/14/17 08:38	11/15/17 08:45
92363548015	MW-17	Water	11/14/17 09:13	11/15/17 08:45
92363548016	MW-18	Water	11/14/17 11:16	11/15/17 08:45
92363548017	MW-19	Water	11/14/17 11:34	11/15/17 08:45
92363548018	MW-20	Water	11/14/17 08:31	11/15/17 08:45
92363548019	MW-21	Water	11/14/17 10:10	11/15/17 08:45
92363548020	MW-22	Water	11/14/17 10:47	11/15/17 08:45
92363548021	DW-1	Water	11/14/17 12:38	11/15/17 08:45
92363548022	DW-2	Water	11/14/17 10:48	11/15/17 08:45
92363548023	DW-3	Water	11/14/17 09:01	11/15/17 08:45
92363548024	DW-4	Water	11/14/17 08:16	11/15/17 08:45
92363548025	DW-5	Water	11/14/17 09:49	11/15/17 08:45
92363548026	DW-6	Water	11/14/17 10:30	11/15/17 08:45
92363548027	DUP-1	Water	11/14/17 08:15	11/15/17 08:45
92363548028	DUP-2	Water	11/14/17 12:12	11/15/17 08:45
92363548029	FIELD BLANK	Water	11/14/17 12:35	11/15/17 08:45
92363548030	TRIP BLANK	Water	11/14/17 12:35	11/15/17 08:45

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92363548001	MW-1	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548002	MW-2	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548003	MW-3	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548004	MW-4R	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548005	MW-5R	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548006	MW-6	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548007	MW-7	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548008	MW-8	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548009	MW-9	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548010	MW-10	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548011	MW-12	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548012	MW-13	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548013	MW-14	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548014	MW-15	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548015	MW-17	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548016	MW-18	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548017	MW-19	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548018	MW-20	EPA 8011	KPS	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92363548019	MW-21	EPA 8011	KPS	2	PASI-C

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92363548020	MW-22	EPA 8260	SWB	20	PASI-C
		EPA 8011	KPS	2	PASI-C
92363548021	DW-1	EPA 8260	SWB	20	PASI-C
		EPA 8011	KPS	2	PASI-C
92363548022	DW-2	EPA 8260	GAW	20	PASI-C
		EPA 8011	KPS	2	PASI-C
92363548023	DW-3	EPA 8260	GAW	20	PASI-C
		EPA 8011	KPS	2	PASI-C
92363548024	DW-4	EPA 8260	SWB	20	PASI-C
		EPA 8011	KPS	2	PASI-C
92363548025	DW-5	EPA 8260	GAW	20	PASI-C
		EPA 8011	KPS	2	PASI-C
92363548026	DW-6	EPA 8260	GAW	20	PASI-C
		EPA 8011	KPS	2	PASI-C
92363548027	DUP-1	EPA 8260	GAW	20	PASI-C
		EPA 8011	KPS	2	PASI-C
92363548028	DUP-2	EPA 8260	SWB	20	PASI-C
		EPA 8011	KPS	2	PASI-C
92363548029	FIELD BLANK	EPA 8260	SWB	20	PASI-C
		EPA 8011	KPS	2	PASI-C
92363548030	TRIP BLANK	EPA 8260	GAW	20	PASI-C
		EPA 8260	GAW	20	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92363548002</b>	<b>MW-2</b>					
EPA 8260	Ethylbenzene	954	ug/L	62.5	11/22/17 17:07	
EPA 8260	Naphthalene	104	ug/L	62.5	11/22/17 17:07	
EPA 8260	Toluene	81.5	ug/L	62.5	11/22/17 17:07	
EPA 8260	Xylene (Total)	3040	ug/L	62.5	11/22/17 17:07	
EPA 8260	m&p-Xylene	3040	ug/L	125	11/22/17 17:07	
<b>92363548003</b>	<b>MW-3</b>					
EPA 8260	Ethylbenzene	100	ug/L	5.0	11/24/17 13:30	
EPA 8260	Naphthalene	19.1	ug/L	5.0	11/24/17 13:30	
EPA 8260	Toluene	5.0	ug/L	5.0	11/24/17 13:30	
EPA 8260	Xylene (Total)	356	ug/L	5.0	11/24/17 13:30	
EPA 8260	m&p-Xylene	315	ug/L	10.0	11/24/17 13:30	
EPA 8260	o-Xylene	41.0	ug/L	5.0	11/24/17 13:30	
<b>92363548004</b>	<b>MW-4R</b>					
EPA 8260	Ethylbenzene	387	ug/L	50.0	11/22/17 17:40	
EPA 8260	Naphthalene	38.0J	ug/L	50.0	11/22/17 17:40	
EPA 8260	Xylene (Total)	1670	ug/L	50.0	11/22/17 17:40	
EPA 8260	m&p-Xylene	1420	ug/L	100	11/22/17 17:40	
EPA 8260	o-Xylene	251	ug/L	50.0	11/22/17 17:40	
<b>92363548005</b>	<b>MW-5R</b>					
EPA 8260	Ethylbenzene	63.7	ug/L	5.0	11/24/17 13:47	
EPA 8260	Naphthalene	31.4	ug/L	5.0	11/24/17 13:47	
EPA 8260	Xylene (Total)	194	ug/L	5.0	11/24/17 13:47	
EPA 8260	m&p-Xylene	165	ug/L	10.0	11/24/17 13:47	
EPA 8260	o-Xylene	28.6	ug/L	5.0	11/24/17 13:47	
<b>92363548006</b>	<b>MW-6</b>					
EPA 8260	Benzene	34.7J	ug/L	50.0	11/22/17 18:13	
EPA 8260	Ethylbenzene	577	ug/L	50.0	11/22/17 18:13	
EPA 8260	Naphthalene	242	ug/L	50.0	11/22/17 18:13	
EPA 8260	Toluene	101	ug/L	50.0	11/22/17 18:13	
EPA 8260	Xylene (Total)	2200	ug/L	50.0	11/22/17 18:13	
EPA 8260	m&p-Xylene	2100	ug/L	100	11/22/17 18:13	
EPA 8260	o-Xylene	92.1	ug/L	50.0	11/22/17 18:13	
<b>92363548009</b>	<b>MW-9</b>					
EPA 8260	Ethylbenzene	220	ug/L	25.0	11/25/17 18:14	
EPA 8260	Naphthalene	415	ug/L	25.0	11/25/17 18:14	
EPA 8260	Toluene	95.1	ug/L	25.0	11/25/17 18:14	
EPA 8260	Xylene (Total)	1300	ug/L	25.0	11/25/17 18:14	
EPA 8260	m&p-Xylene	1230	ug/L	50.0	11/25/17 18:14	
EPA 8260	o-Xylene	68.6	ug/L	25.0	11/25/17 18:14	
<b>92363548011</b>	<b>MW-12</b>					
EPA 8011	1,2-Dibromoethane (EDB)	0.028	ug/L	0.019	11/17/17 21:36	C2
EPA 8260	Benzene	9.5	ug/L	5.0	11/23/17 09:19	
EPA 8260	Ethylbenzene	81.3	ug/L	5.0	11/23/17 09:19	
EPA 8260	Naphthalene	17.9	ug/L	5.0	11/23/17 09:19	

### REPORT OF LABORATORY ANALYSIS

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**SUMMARY OF DETECTION**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92363548011</b>	<b>MW-12</b>					
EPA 8260	Toluene	130	ug/L	5.0	11/23/17 09:19	
EPA 8260	Xylene (Total)	488	ug/L	5.0	11/23/17 09:19	
EPA 8260	m&p-Xylene	349	ug/L	10.0	11/23/17 09:19	
EPA 8260	o-Xylene	139	ug/L	5.0	11/23/17 09:19	
<b>92363548012</b>	<b>MW-13</b>					
EPA 8260	Benzene	6.1	ug/L	5.0	11/25/17 15:44	
EPA 8260	Naphthalene	10.2	ug/L	5.0	11/25/17 15:44	
<b>92363548013</b>	<b>MW-14</b>					
EPA 8260	Benzene	46.3J	ug/L	100	11/22/17 18:46	
EPA 8260	Ethylbenzene	783	ug/L	100	11/22/17 18:46	
EPA 8260	Naphthalene	199	ug/L	100	11/22/17 18:46	
EPA 8260	Toluene	196	ug/L	100	11/22/17 18:46	
EPA 8260	Xylene (Total)	2780	ug/L	100	11/22/17 18:46	
EPA 8260	m&p-Xylene	2780	ug/L	200	11/22/17 18:46	
EPA 8260	o-Xylene	64.0J	ug/L	100	11/22/17 18:46	
<b>92363548017</b>	<b>MW-19</b>					
EPA 8260	Ethylbenzene	5.2	ug/L	5.0	11/24/17 14:03	
EPA 8260	m&p-Xylene	9.2J	ug/L	10.0	11/24/17 14:03	
<b>92363548018</b>	<b>MW-20</b>					
EPA 8260	Naphthalene	6.2	ug/L	5.0	11/23/17 10:41	
<b>92363548019</b>	<b>MW-21</b>					
EPA 8011	1,2-Dibromoethane (EDB)	0.033	ug/L	0.019	11/18/17 01:15	
EPA 8260	Benzene	21.9J	ug/L	50.0	11/24/17 15:43	
EPA 8260	Ethylbenzene	647	ug/L	50.0	11/24/17 15:43	
EPA 8260	Naphthalene	226	ug/L	50.0	11/24/17 15:43	
EPA 8260	Toluene	558	ug/L	50.0	11/24/17 15:43	
EPA 8260	Xylene (Total)	3280	ug/L	50.0	11/24/17 15:43	
EPA 8260	m&p-Xylene	2470	ug/L	100	11/24/17 15:43	
EPA 8260	o-Xylene	813	ug/L	50.0	11/24/17 15:43	
<b>92363548020</b>	<b>MW-22</b>					
EPA 8260	Ethylbenzene	1250	ug/L	100	11/22/17 19:36	
EPA 8260	Naphthalene	450	ug/L	100	11/22/17 19:36	
EPA 8260	Toluene	588	ug/L	100	11/22/17 19:36	
EPA 8260	Xylene (Total)	4940	ug/L	100	11/22/17 19:36	
EPA 8260	m&p-Xylene	4580	ug/L	200	11/22/17 19:36	
EPA 8260	o-Xylene	359	ug/L	100	11/22/17 19:36	
<b>92363548023</b>	<b>DW-3</b>					
EPA 8260	tert-Amyl Alcohol	98.2J	ug/L	100	11/23/17 12:21	
EPA 8260	Benzene	11.1	ug/L	5.0	11/23/17 12:21	
EPA 8260	Ethylbenzene	130	ug/L	5.0	11/23/17 12:21	
EPA 8260	Naphthalene	19.0	ug/L	5.0	11/23/17 12:21	
EPA 8260	Toluene	4.1J	ug/L	5.0	11/23/17 12:21	
EPA 8260	Xylene (Total)	13.1	ug/L	5.0	11/23/17 12:21	

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92363548023</b>	<b>DW-3</b>					
EPA 8260	m&p-Xylene	13.1	ug/L	10.0	11/23/17 12:21	
<b>92363548027</b>	<b>DUP-1</b>					
EPA 8260	Benzene	3.7J	ug/L	5.0	11/24/17 14:20	
EPA 8260	Ethylbenzene	26.2	ug/L	5.0	11/24/17 14:20	
EPA 8260	Naphthalene	7.0	ug/L	5.0	11/24/17 14:20	
EPA 8260	Toluene	33.2	ug/L	5.0	11/24/17 14:20	
EPA 8260	Xylene (Total)	134	ug/L	5.0	11/24/17 14:20	
EPA 8260	m&p-Xylene	96.2	ug/L	10.0	11/24/17 14:20	
EPA 8260	o-Xylene	37.7	ug/L	5.0	11/24/17 14:20	

**REPORT OF LABORATORY ANALYSIS**

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## PROJECT NARRATIVE

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

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**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** November 27, 2017

### General Information:

29 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 387108

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- MW-2 (Lab ID: 92363548002)
  - 1-Chloro-2-bromopropane (S)
- MW-4R (Lab ID: 92363548004)
  - 1-Chloro-2-bromopropane (S)
- MW-5R (Lab ID: 92363548005)
  - 1-Chloro-2-bromopropane (S)
- MW-6 (Lab ID: 92363548006)
  - 1-Chloro-2-bromopropane (S)

QC Batch: 387280

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- DUP (Lab ID: 2148548)
  - 1-Chloro-2-bromopropane (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

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

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

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Method: EPA 8011  
Description: 8011 GCS EDB and DBCP  
Client: SCDHEC  
Date: November 27, 2017

**Duplicate Sample:**  
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

Analyte Comments:

QC Batch: 387279

C2: Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.

- MW-12 (Lab ID: 92363548011)
- 1,2-Dibromoethane (EDB)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

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Method: EPA 8260  
Description: 8260 MSV  
Client: SCDHEC  
Date: November 27, 2017

### General Information:

30 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

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

QC Batch: 388073

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92363770004

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

- MS (Lab ID: 2153181)
  - Ethanol
  - tert-Butyl Alcohol
  - tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2153181)
  - tert-Butyl Formate

QC Batch: 388081

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92363548004

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

- MS (Lab ID: 2153207)

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## PROJECT NARRATIVE

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

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**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** November 27, 2017

### QC Batch: 388081

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92363548004

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

- Ethanol
- tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2153207)
- tert-Butyl Formate

### QC Batch: 388122

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92363548016

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

- MS (Lab ID: 2153612)
- tert-Butyl Alcohol
- tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2153612)
- tert-Butyl Formate

### QC Batch: 388123

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92363556013

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

- MS (Lab ID: 2153616)
- Ethanol
- tert-Amyl Alcohol
- tert-Butyl Alcohol
- tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2153616)
- tert-Butyl Formate

### QC Batch: 388148

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92363548028

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

- MS (Lab ID: 2153708)
- Ethanol
- tert-Butyl Alcohol
- tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2153708)
- tert-Butyl Formate

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## PROJECT NARRATIVE

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** November 27, 2017

QC Batch: 388176

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92364063001

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

- MS (Lab ID: 2153805)
- tert-Butyl Alcohol
- tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2153805)
- tert-Butyl Formate

### Duplicate Sample:

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

### Additional Comments:

Analyte Comments:

QC Batch: 388122

C8: Result may be biased high due to carryover from previously analyzed sample.

- MW-15 (Lab ID: 92363548014)
- Naphthalene

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

## REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-1      Lab ID: 92363548001      Collected: 11/14/17 12:12      Received: 11/15/17 08:45      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/16/17 16:02	11/17/17 07:16	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	11/16/17 16:02	11/17/17 07:16	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 14:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 14:02	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 14:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 14:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 14:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 14:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 14:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 14:02	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 14:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 14:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 14:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 14:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 14:02	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 14:02	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 14:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 14:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 14:02	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/23/17 14:02	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/23/17 14:02	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		11/23/17 14:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

Sample: MW-2 Lab ID: 92363548002 Collected: 11/14/17 12:28 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/16/17 16:02	11/17/17 07:36	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	144	%	60-140		1	11/16/17 16:02	11/17/17 07:36	301-79-56	S3
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	1250	960	12.5		11/22/17 17:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	42.5	12.5		11/22/17 17:07	994-05-8	
Benzene	ND	ug/L	62.5	21.2	12.5		11/22/17 17:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	401	12.5		11/22/17 17:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	721	12.5		11/22/17 17:07	75-85-0	
tert-Butyl Formate	ND	ug/L	625	91.2	12.5		11/22/17 17:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	22.5	12.5		11/22/17 17:07	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	21.2	12.5		11/22/17 17:07	108-20-3	
Ethanol	ND	ug/L	2500	1640	12.5		11/22/17 17:07	64-17-5	
Ethylbenzene	954	ug/L	62.5	20.0	12.5		11/22/17 17:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	45.0	12.5		11/22/17 17:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	21.2	12.5		11/22/17 17:07	1634-04-4	
Naphthalene	104	ug/L	62.5	25.0	12.5		11/22/17 17:07	91-20-3	
Toluene	81.5	ug/L	62.5	20.0	12.5		11/22/17 17:07	108-88-3	
Xylene (Total)	3040	ug/L	62.5	62.5	12.5		11/22/17 17:07	1330-20-7	
m&p-Xylene	3040	ug/L	125	38.8	12.5		11/22/17 17:07	179601-23-1	
o-Xylene	ND	ug/L	62.5	20.0	12.5		11/22/17 17:07	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		12.5		11/22/17 17:07	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		12.5		11/22/17 17:07	17060-07-0	
Toluene-d8 (S)	109	%	70-130		12.5		11/22/17 17:07	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

Sample: MW-3 Lab ID: 92363548003 Collected: 11/14/17 11:52 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/16/17 16:02	11/17/17 07:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	118	%	60-140		1	11/16/17 16:02	11/17/17 07:55	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/24/17 13:30	75-85-4	
tert-Amyl methyl ether	ND	ug/L	10.0	3.4	1		11/24/17 13:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/24/17 13:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/24/17 13:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/24/17 13:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/24/17 13:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/24/17 13:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/24/17 13:30	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/24/17 13:30	64-17-5	
Ethylbenzene	100	ug/L	5.0	1.6	1		11/24/17 13:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/24/17 13:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/24/17 13:30	1634-04-4	
Naphthalene	19.1	ug/L	5.0	2.0	1		11/24/17 13:30	91-20-3	
Toluene	5.0	ug/L	5.0	1.6	1		11/24/17 13:30	108-88-3	
Xylene (Total)	356	ug/L	5.0	5.0	1		11/24/17 13:30	1330-20-7	
m&p-Xylene	315	ug/L	10.0	3.1	1		11/24/17 13:30	179601-23-1	
o-Xylene	41.0	ug/L	5.0	1.6	1		11/24/17 13:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		11/24/17 13:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/24/17 13:30	17080-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/24/17 13:30	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

Sample: MW-4R Lab ID: 92363548004 Collected: 11/14/17 11:56 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	11/16/17 16:03	11/17/17 08:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	142	%	60-140		1	11/16/17 16:03	11/17/17 08:55	301-79-56	S3
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	1000	768	10		11/22/17 17:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		11/22/17 17:40	994-05-8	
Benzene	ND	ug/L	50.0	17.0	10		11/22/17 17:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		11/22/17 17:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		11/22/17 17:40	75-85-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		11/22/17 17:40	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		11/22/17 17:40	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		11/22/17 17:40	108-20-3	
Ethanol	ND	ug/L	2000	1310	10		11/22/17 17:40	64-17-5	M1
Ethylbenzene	387	ug/L	50.0	16.0	10		11/22/17 17:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		11/22/17 17:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		11/22/17 17:40	1634-04-4	
Naphthalene	38.0J	ug/L	50.0	20.0	10		11/22/17 17:40	91-20-3	
Toluene	ND	ug/L	50.0	16.0	10		11/22/17 17:40	108-88-3	
Xylene (Total)	1670	ug/L	50.0	50.0	10		11/22/17 17:40	1330-20-7	
m&p-Xylene	1420	ug/L	100	31.0	10		11/22/17 17:40	179601-23-1	
o-Xylene	251	ug/L	50.0	16.0	10		11/22/17 17:40	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		10		11/22/17 17:40	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		10		11/22/17 17:40	17060-07-0	
Toluene-d8 (S)	106	%	70-130		10		11/22/17 17:40	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-5R Lab ID: 92363548005 Collected: 11/14/17 09:52 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/16/17 16:03	11/17/17 09:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	146	%	60-140		1	11/16/17 16:03	11/17/17 09:15	301-79-56	S3
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/24/17 13:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/24/17 13:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/24/17 13:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/24/17 13:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/24/17 13:47	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/24/17 13:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/24/17 13:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/24/17 13:47	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/24/17 13:47	64-17-5	
Ethylbenzene	63.7	ug/L	5.0	1.6	1		11/24/17 13:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/24/17 13:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/24/17 13:47	1634-04-4	
Naphthalene	31.4	ug/L	5.0	2.0	1		11/24/17 13:47	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/24/17 13:47	108-88-3	
Xylene (Total)	194	ug/L	5.0	5.0	1		11/24/17 13:47	1330-20-7	
m&p-Xylene	165	ug/L	10.0	3.1	1		11/24/17 13:47	179801-23-1	
o-Xylene	28.6	ug/L	5.0	1.6	1		11/24/17 13:47	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		11/24/17 13:47	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		11/24/17 13:47	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		11/24/17 13:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-6 Lab ID: 92363548006 Collected: 11/14/17 11:05 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	11/16/17 16:03	11/17/17 09:35	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	159	%	60-140		1	11/16/17 16:03	11/17/17 09:35	301-79-56	S3
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	1000	768	10		11/22/17 18:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		11/22/17 18:13	994-05-8	
Benzene	34.7J	ug/L	50.0	17.0	10		11/22/17 18:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		11/22/17 18:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		11/22/17 18:13	75-85-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		11/22/17 18:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		11/22/17 18:13	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		11/22/17 18:13	108-20-3	
Ethanol	ND	ug/L	2000	1310	10		11/22/17 18:13	64-17-5	
Ethylbenzene	577	ug/L	50.0	16.0	10		11/22/17 18:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		11/22/17 18:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		11/22/17 18:13	1634-04-4	
Naphthalene	242	ug/L	50.0	20.0	10		11/22/17 18:13	91-20-3	
Toluene	101	ug/L	50.0	16.0	10		11/22/17 18:13	108-88-3	
Xylene (Total)	2200	ug/L	50.0	50.0	10		11/22/17 18:13	1330-20-7	
m&p-Xylene	2100	ug/L	100	31.0	10		11/22/17 18:13	179601-23-1	
o-Xylene	92.1	ug/L	50.0	16.0	10		11/22/17 18:13	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		10		11/22/17 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		10		11/22/17 18:13	17060-07-0	
Toluene-d8 (S)	111	%	70-130		10		11/22/17 18:13	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

Sample: MW-7 Lab ID: 92363548007 Collected: 11/14/17 09:42 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/16/17 16:03	11/17/17 09:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	125	%	60-140		1	11/16/17 16:03	11/17/17 09:55	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 08:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 08:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 08:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 08:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 08:12	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 08:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 08:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 08:12	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 08:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 08:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.8	1		11/23/17 08:12	837-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 08:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 08:12	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 08:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 08:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 08:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 08:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/23/17 08:12	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/23/17 08:12	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		11/23/17 08:12	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-8 Lab ID: 92363548008 Collected: 11/14/17 09:28 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/16/17 16:03	11/17/17 10:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	123	%	60-140		1	11/16/17 16:03	11/17/17 10:15	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 08:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 08:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 08:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 08:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 08:29	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 08:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 08:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 08:29	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 08:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 08:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 08:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 08:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 08:29	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 08:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 08:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 08:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 08:29	95-47-8	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/23/17 08:29	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/23/17 08:29	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		11/23/17 08:29	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-9 Lab ID: 92363548009 Collected: 11/14/17 09:14 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/16/17 16:03	11/17/17 10:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	133	%	60-140		1	11/16/17 16:03	11/17/17 10:55	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	500	384	5		11/25/17 18:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		11/25/17 18:14	994-05-8	
Benzene	ND	ug/L	25.0	8.5	5		11/25/17 18:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		11/25/17 18:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		11/25/17 18:14	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		11/25/17 18:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		11/25/17 18:14	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		11/25/17 18:14	108-20-3	
Ethanol	ND	ug/L	1000	655	5		11/25/17 18:14	64-17-5	
Ethylbenzene	220	ug/L	25.0	8.0	5		11/25/17 18:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		11/25/17 18:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		11/25/17 18:14	1634-04-4	
Naphthalene	415	ug/L	25.0	10.0	5		11/25/17 18:14	91-20-3	
Toluene	95.1	ug/L	25.0	8.0	5		11/25/17 18:14	108-88-3	
Xylene (Total)	1300	ug/L	25.0	25.0	5		11/25/17 18:14	1330-20-7	
m&p-Xylene	1230	ug/L	50.0	15.5	5		11/25/17 18:14	179601-23-1	
o-Xylene	68.6	ug/L	25.0	8.0	5		11/25/17 18:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	112	%	70-130		5		11/25/17 18:14	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		5		11/25/17 18:14	17060-07-0	
Toluene-d8 (S)	114	%	70-130		5		11/25/17 18:14	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-10 Lab ID: 92363548010 Collected: 11/14/17 11:20 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/16/17 16:03	11/17/17 11:14	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	120	%	60-140		1	11/16/17 16:03	11/17/17 11:14	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/25/17 15:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/25/17 15:27	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/25/17 15:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/25/17 15:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/25/17 15:27	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/25/17 15:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/25/17 15:27	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/25/17 15:27	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/25/17 15:27	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/25/17 15:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/25/17 15:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/25/17 15:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/25/17 15:27	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/25/17 15:27	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/25/17 15:27	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/25/17 15:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/25/17 15:27	95-47-8	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/25/17 15:27	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		11/25/17 15:27	17060-07-0	
Toluene-d8 (S)	115	%	70-130		1		11/25/17 15:27	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-12 Lab ID: 92363548011 Collected: 11/14/17 08:15 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	0.028	ug/L	0.019	0.019	1	11/17/17 16:50	11/17/17 21:36	106-93-4	C2
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	11/17/17 16:50	11/17/17 21:36	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 09:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 09:19	994-05-8	
Benzene	9.5	ug/L	5.0	1.7	1		11/23/17 09:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 09:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 09:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 09:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 09:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 09:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 09:19	64-17-5	
Ethylbenzene	81.3	ug/L	5.0	1.6	1		11/23/17 09:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 09:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 09:19	1634-04-4	
Naphthalene	17.9	ug/L	5.0	2.0	1		11/23/17 09:19	91-20-3	
Toluene	130	ug/L	5.0	1.6	1		11/23/17 09:19	108-88-3	
Xylene (Total)	488	ug/L	5.0	5.0	1		11/23/17 09:19	1330-20-7	
m&p-Xylene	349	ug/L	10.0	3.1	1		11/23/17 09:19	179601-23-1	
o-Xylene	139	ug/L	5.0	1.6	1		11/23/17 09:19	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108	%	70-130		1		11/23/17 09:19	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		11/23/17 09:19	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		11/23/17 09:19	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-13 Lab ID: 92363548012 Collected: 11/14/17 08:01 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:50	11/17/17 21:56	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	121	%	60-140		1	11/17/17 16:50	11/17/17 21:56	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/25/17 15:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/25/17 15:44	994-05-8	
Benzene	6.1	ug/L	5.0	1.7	1		11/25/17 15:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/25/17 15:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/25/17 15:44	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/25/17 15:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/25/17 15:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/25/17 15:44	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/25/17 15:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/25/17 15:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/25/17 15:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/25/17 15:44	1634-04-4	
Naphthalene	10.2	ug/L	5.0	2.0	1		11/25/17 15:44	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/25/17 15:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/25/17 15:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/25/17 15:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/25/17 15:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108	%	70-130		1		11/25/17 15:44	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		11/25/17 15:44	17080-07-0	
Toluene-d8 (S)	109	%	70-130		1		11/25/17 15:44	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

Sample: MW-14 Lab ID: 92363548013 Collected: 11/14/17 09:00 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:51	11/17/17 22:16	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	139	%	60-140		1	11/17/17 16:51	11/17/17 22:16	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	2000	1540	20		11/22/17 18:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		11/22/17 18:46	994-05-8	
Benzene	46.3J	ug/L	100	34.0	20		11/22/17 18:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		11/22/17 18:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		11/22/17 18:46	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		11/22/17 18:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		11/22/17 18:46	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		11/22/17 18:46	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		11/22/17 18:46	64-17-5	
Ethylbenzene	783	ug/L	100	32.0	20		11/22/17 18:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		11/22/17 18:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	34.0	20		11/22/17 18:46	1634-04-4	
Naphthalene	199	ug/L	100	40.0	20		11/22/17 18:46	91-20-3	
Toluene	196	ug/L	100	32.0	20		11/22/17 18:46	108-88-3	
Xylene (Total)	2780	ug/L	100	100	20		11/22/17 18:46	1330-20-7	
m&p-Xylene	2780	ug/L	200	62.0	20		11/22/17 18:46	179601-23-1	
o-Xylene	64.0J	ug/L	100	32.0	20		11/22/17 18:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		20		11/22/17 18:46	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		20		11/22/17 18:46	17060-07-0	
Toluene-d8 (S)	109	%	70-130		20		11/22/17 18:46	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-15 Lab ID: 92363548014 Collected: 11/14/17 08:38 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:51	11/17/17 23:16	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	115	%	60-140		1	11/17/17 16:51	11/17/17 23:16	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 09:52	75-85-4	
tert-Amyl methyl ether	ND	ug/L	10.0	3.4	1		11/23/17 09:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 09:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 09:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 09:52	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 09:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 09:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 09:52	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 09:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 09:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 09:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 09:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 09:52	91-20-3	C8
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 09:52	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 09:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 09:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 09:52	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/23/17 09:52	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/23/17 09:52	17060-07-0	
Toluene-d8 (S)	113	%	70-130		1		11/23/17 09:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92383548

Sample: MW-17 Lab ID: 92363548015 Collected: 11/14/17 09:13 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:52	11/17/17 23:56	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	86	%	80-140		1	11/17/17 16:52	11/17/17 23:56	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 10:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 10:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 10:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 10:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 10:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 10:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 10:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 10:08	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 10:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 10:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 10:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 10:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 10:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 10:08	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 10:08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 10:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 10:08	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/23/17 10:08	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/23/17 10:08	17060-07-0	
Toluene-d8 (S)	113	%	70-130		1		11/23/17 10:08	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-18 Lab ID: 92363548016 Collected: 11/14/17 11:16 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:52	11/18/17 00:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	123	%	60-140		1	11/17/17 16:52	11/18/17 00:15	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 10:25	75-85-4	
tert-Amyl methyl ether	ND	ug/L	10.0	3.4	1		11/23/17 10:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 10:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 10:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 10:25	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 10:25	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 10:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 10:25	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 10:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 10:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 10:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 10:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 10:25	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 10:25	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 10:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 10:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 10:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/23/17 10:25	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/23/17 10:25	17060-07-0	
Toluene-d8 (S)	114	%	70-130		1		11/23/17 10:25	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-19 Lab ID: 92363548017 Collected: 11/14/17 11:34 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	11/17/17 16:52	11/18/17 00:35	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	11/17/17 16:52	11/18/17 00:35	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/24/17 14:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/24/17 14:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/24/17 14:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/24/17 14:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/24/17 14:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/24/17 14:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/24/17 14:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/24/17 14:03	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/24/17 14:03	64-17-5	
Ethylbenzene	5.2	ug/L	5.0	1.6	1		11/24/17 14:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/24/17 14:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/24/17 14:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/24/17 14:03	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/24/17 14:03	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/24/17 14:03	1330-20-7	
m&p-Xylene	9.2J	ug/L	10.0	3.1	1		11/24/17 14:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/24/17 14:03	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/24/17 14:03	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		11/24/17 14:03	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		11/24/17 14:03	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

Sample: MW-20 Lab ID: 92383548018 Collected: 11/14/17 08:31 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:52	11/18/17 00:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	115	%	60-140		1	11/17/17 16:52	11/18/17 00:55	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 10:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 10:41	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 10:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 10:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 10:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 10:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 10:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 10:41	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 10:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 10:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 10:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 10:41	1634-04-4	
Naphthalene	6.2	ug/L	5.0	2.0	1		11/23/17 10:41	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 10:41	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 10:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 10:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 10:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		11/23/17 10:41	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		11/23/17 10:41	17060-07-0	
Toluene-d8 (S)	114	%	70-130		1		11/23/17 10:41	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-21 Lab ID: 92363548019 Collected: 11/14/17 10:10 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	0.033	ug/L	0.019	0.019	1	11/17/17 16:52	11/18/17 01:15	108-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	11/17/17 16:52	11/18/17 01:15	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	1000	768	10		11/24/17 15:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		11/24/17 15:43	994-05-8	
Benzene	21.9J	ug/L	50.0	17.0	10		11/24/17 15:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		11/24/17 15:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		11/24/17 15:43	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		11/24/17 15:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		11/24/17 15:43	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		11/24/17 15:43	108-20-3	
Ethanol	ND	ug/L	2000	1310	10		11/24/17 15:43	64-17-5	
Ethylbenzene	647	ug/L	50.0	16.0	10		11/24/17 15:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		11/24/17 15:43	837-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		11/24/17 15:43	1634-04-4	
Naphthalene	226	ug/L	50.0	20.0	10		11/24/17 15:43	91-20-3	
Toluene	558	ug/L	50.0	16.0	10		11/24/17 15:43	108-88-3	
Xylene (Total)	3280	ug/L	50.0	50.0	10		11/24/17 15:43	1330-20-7	
m&p-Xylene	2470	ug/L	100	31.0	10		11/24/17 15:43	179601-23-1	
o-Xylene	813	ug/L	50.0	16.0	10		11/24/17 15:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	110	%	70-130		10		11/24/17 15:43	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		10		11/24/17 15:43	17080-07-0	
Toluene-d8 (S)	111	%	70-130		10		11/24/17 15:43	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: MW-22 Lab ID: 92363548020 Collected: 11/14/17 10:47 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:52	11/18/17 01:35	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	118	%	60-140		1	11/17/17 16:52	11/18/17 01:35	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	2000	1540	20		11/22/17 19:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		11/22/17 19:36	994-05-8	
Benzene	ND	ug/L	100	34.0	20		11/22/17 19:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		11/22/17 19:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		11/22/17 19:36	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		11/22/17 19:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		11/22/17 19:36	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		11/22/17 19:36	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		11/22/17 19:36	64-17-5	
Ethylbenzene	1250	ug/L	100	32.0	20		11/22/17 19:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		11/22/17 19:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	34.0	20		11/22/17 19:36	1634-04-4	
Naphthalene	450	ug/L	100	40.0	20		11/22/17 19:36	91-20-3	
Toluene	588	ug/L	100	32.0	20		11/22/17 19:36	108-88-3	
Xylene (Total)	4940	ug/L	100	100	20		11/22/17 19:36	1330-20-7	
m&p-Xylene	4580	ug/L	200	62.0	20		11/22/17 19:36	179601-23-1	
o-Xylene	359	ug/L	100	32.0	20		11/22/17 19:36	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		20		11/22/17 19:36	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		20		11/22/17 19:36	17060-07-0	
Toluene-d8 (S)	111	%	70-130		20		11/22/17 19:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: DW-1      Lab ID: 92363548021      Collected: 11/14/17 12:38      Received: 11/15/17 08:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:52	11/18/17 01:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	122	%	80-140		1	11/17/17 16:52	11/18/17 01:55	301-79-58	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 08:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 08:33	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 08:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 08:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 08:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 08:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 08:33	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 08:33	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 08:33	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 08:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 08:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 08:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 08:33	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 08:33	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 08:33	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 08:33	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 08:33	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/23/17 08:33	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		11/23/17 08:33	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/23/17 08:33	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: DW-2 Lab ID: 92363548022 Collected: 11/14/17 10:48 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:53	11/18/17 02:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	11/17/17 16:53	11/18/17 02:15	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 08:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 08:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 08:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 08:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 08:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 08:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 08:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 08:50	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 08:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 08:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 08:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 08:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 08:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 08:50	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 08:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 08:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 08:50	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/23/17 08:50	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		11/23/17 08:50	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/23/17 08:50	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

Sample: DW-3 Lab ID: 92363548023 Collected: 11/14/17 09:01 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:53	11/18/17 02:35	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	11/17/17 16:53	11/18/17 02:35	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	98.2J	ug/L	100	76.8	1		11/23/17 12:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 12:21	994-05-8	
Benzene	11.1	ug/L	5.0	1.7	1		11/23/17 12:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 12:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 12:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 12:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 12:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 12:21	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 12:21	64-17-5	
Ethylbenzene	130	ug/L	5.0	1.6	1		11/23/17 12:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 12:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 12:21	1634-04-4	
Naphthalene	19.0	ug/L	5.0	2.0	1		11/23/17 12:21	91-20-3	
Toluene	4.1J	ug/L	5.0	1.6	1		11/23/17 12:21	108-88-3	
Xylene (Total)	13.1	ug/L	5.0	5.0	1		11/23/17 12:21	1330-20-7	
m&p-Xylene	13.1	ug/L	10.0	3.1	1		11/23/17 12:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 12:21	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		11/23/17 12:21	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		11/23/17 12:21	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/23/17 12:21	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

Sample: DW-4 Lab ID: 92363548024 Collected: 11/14/17 08:16 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:53	11/18/17 02:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	120	%	60-140		1	11/17/17 16:53	11/18/17 02:55	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 09:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 09:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 09:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 09:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 09:08	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 09:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 09:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 09:08	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 09:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 09:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 09:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 09:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 09:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 09:08	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 09:08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 09:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 09:08	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/23/17 09:08	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130		1		11/23/17 09:08	17060-07-0	
Toluene-d8 (S)	122	%	70-130		1		11/23/17 09:08	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: DW-5      Lab ID: 92363548025      Collected: 11/14/17 09:49      Received: 11/15/17 08:45      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011      Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:53	11/18/17 03:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	132	%	60-140		1	11/17/17 16:53	11/18/17 03:15	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 09:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 09:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 09:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 09:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 09:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 09:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 09:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 09:25	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 09:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 09:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 09:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 09:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 09:25	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 09:25	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 09:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 09:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 09:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/23/17 09:25	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		11/23/17 09:25	17080-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/23/17 09:25	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: DW-6 Lab ID: 92363548026 Collected: 11/14/17 10:30 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	11/17/17 16:57	11/18/17 04:54	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	11/17/17 16:57	11/18/17 04:54	301-79-58	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 09:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 09:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 09:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 09:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 09:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 09:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 09:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 09:43	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 09:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 09:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 09:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 09:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 09:43	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 09:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 09:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 09:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 09:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/23/17 09:43	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		11/23/17 09:43	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/23/17 09:43	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: DUP-1 Lab ID: 92363548027 Collected: 11/14/17 08:15 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:58	11/18/17 05:14	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	116	%	80-140		1	11/17/17 16:58	11/18/17 05:14	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/24/17 14:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/24/17 14:20	994-05-8	
Benzene	3.7J	ug/L	5.0	1.7	1		11/24/17 14:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/24/17 14:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/24/17 14:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/24/17 14:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/24/17 14:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/24/17 14:20	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/24/17 14:20	64-17-5	
Ethylbenzene	26.2	ug/L	5.0	1.6	1		11/24/17 14:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/24/17 14:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/24/17 14:20	1634-04-4	
Naphthalene	7.0	ug/L	5.0	2.0	1		11/24/17 14:20	91-20-3	
Toluene	33.2	ug/L	5.0	1.6	1		11/24/17 14:20	108-88-3	
Xylene (Total)	134	ug/L	5.0	5.0	1		11/24/17 14:20	1330-20-7	
m&p-Xylene	96.2	ug/L	10.0	3.1	1		11/24/17 14:20	179601-23-1	
o-Xylene	37.7	ug/L	5.0	1.6	1		11/24/17 14:20	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/24/17 14:20	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/24/17 14:20	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		11/24/17 14:20	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: DUP-2 Lab ID: 92363548028 Collected: 11/14/17 12:12 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	11/17/17 16:58	11/18/17 05:34	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	11/17/17 16:58	11/18/17 05:34	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/24/17 14:37	75-85-4	
tert-Amyl methyl ether	ND	ug/L	10.0	3.4	1		11/24/17 14:37	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/24/17 14:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/24/17 14:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/24/17 14:37	75-85-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/24/17 14:37	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/24/17 14:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/24/17 14:37	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/24/17 14:37	64-17-5	M1
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/24/17 14:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/24/17 14:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/24/17 14:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/24/17 14:37	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/24/17 14:37	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/24/17 14:37	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/24/17 14:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/24/17 14:37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/24/17 14:37	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/24/17 14:37	17060-07-0	
Toluene-d8 (S)	113	%	70-130		1		11/24/17 14:37	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: FIELD BLANK Lab ID: 92363548029 Collected: 11/14/17 12:35 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/17/17 16:58	11/18/17 05:53	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	112	%	60-140		1	11/17/17 16:58	11/18/17 05:53	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 06:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 06:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 06:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 06:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 06:12	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 06:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 06:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 06:12	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 06:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 06:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 06:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 06:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 06:12	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 06:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 06:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 06:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 06:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/23/17 06:12	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		11/23/17 06:12	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/23/17 06:12	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

Sample: TRIP BLANK Lab ID: 92363548030 Collected: 11/14/17 12:35 Received: 11/15/17 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		11/23/17 06:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		11/23/17 06:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		11/23/17 06:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		11/23/17 06:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		11/23/17 06:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		11/23/17 06:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		11/23/17 06:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		11/23/17 06:29	108-20-3	
Ethanol	ND	ug/L	200	131	1		11/23/17 06:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		11/23/17 06:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		11/23/17 06:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		11/23/17 06:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		11/23/17 06:29	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		11/23/17 06:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		11/23/17 06:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		11/23/17 06:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		11/23/17 06:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		11/23/17 06:29	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		11/23/17 06:29	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/23/17 06:29	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

QC Batch: 388073 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92363548021, 92363548022, 92363548024, 92363548025, 92363548026, 92363548029, 92363548030

METHOD BLANK: 2153178 Matrix: Water  
 Associated Lab Samples: 92363548021, 92363548022, 92363548024, 92363548025, 92363548026, 92363548029, 92363548030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/23/17 05:02	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/23/17 05:02	
Benzene	ug/L	ND	5.0	1.7	11/23/17 05:02	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/23/17 05:02	
Ethanol	ug/L	ND	200	131	11/23/17 05:02	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/23/17 05:02	
Ethylbenzene	ug/L	ND	5.0	1.6	11/23/17 05:02	
m&p-Xylene	ug/L	ND	10.0	3.1	11/23/17 05:02	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/23/17 05:02	
Naphthalene	ug/L	ND	5.0	2.0	11/23/17 05:02	
o-Xylene	ug/L	ND	5.0	1.6	11/23/17 05:02	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/23/17 05:02	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/23/17 05:02	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/23/17 05:02	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/23/17 05:02	
Toluene	ug/L	ND	5.0	1.6	11/23/17 05:02	
Xylene (Total)	ug/L	ND	5.0	5.0	11/23/17 05:02	
1,2-Dichloroethane-d4 (S)	%	83	70-130		11/23/17 05:02	
4-Bromofluorobenzene (S)	%	101	70-130		11/23/17 05:02	
Toluene-d8 (S)	%	105	70-130		11/23/17 05:02	

LABORATORY CONTROL SAMPLE: 2153179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.9	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1040	104	70-130	
Benzene	ug/L	50	48.4	97	70-130	
Diisopropyl ether	ug/L	50	47.5	95	70-130	
Ethanol	ug/L	2000	2220	111	70-130	
Ethyl-tert-butyl ether	ug/L	100	94.6	95	70-130	
Ethylbenzene	ug/L	50	47.8	96	70-130	
m&p-Xylene	ug/L	100	97.9	98	70-130	
Methyl-tert-butyl ether	ug/L	50	48.0	96	70-130	
Naphthalene	ug/L	50	49.1	98	70-130	
o-Xylene	ug/L	50	49.2	98	70-130	
tert-Amyl Alcohol	ug/L	1000	1040	104	70-130	
tert-Amylmethyl ether	ug/L	100	98.7	99	70-130	
tert-Butyl Alcohol	ug/L	500	502	100	70-130	
tert-Butyl Formate	ug/L	400	395	99	70-130	
Toluene	ug/L	50	46.4	93	70-130	

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

LABORATORY CONTROL SAMPLE: 2153179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 2153181

Parameter	Units	92363770004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.3	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	517	129	70-130	
Benzene	ug/L	ND	20	22.7	113	70-130	
Diisopropyl ether	ug/L	ND	20	21.7	109	70-130	
Ethanol	ug/L	ND	800	1360	170	70-130 M1	
Ethyl-tert-butyl ether	ug/L	ND	40	40.4	101	70-130	
Ethylbenzene	ug/L	ND	20	22.3	112	70-130	
m&p-Xylene	ug/L	ND	40	44.5	111	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.0	100	70-130	
Naphthalene	ug/L	ND	20	22.7	113	70-130	
o-Xylene	ug/L	ND	20	22.9	114	70-130	
tert-Amyl Alcohol	ug/L	ND	400	520	130	70-130	
tert-Amylmethyl ether	ug/L	ND	40	44.6	111	70-130	
tert-Butyl Alcohol	ug/L	ND	200	296	148	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	110	69	70-130 M1,P5	
Toluene	ug/L	ND	20	21.6	108	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2153180

Parameter	Units	92363770003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

SAMPLE DUPLICATE: 2153180

Parameter	Units	92363770003 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	87	96	9		
4-Bromofluorobenzene (S)	%	102	104	2		
Toluene-d8 (S)	%	105	103	1		

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

QC Batch: 388081 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92363548002, 92363548004, 92363548006, 92363548013, 92363548020

METHOD BLANK: 2153205 Matrix: Water  
 Associated Lab Samples: 92363548002, 92363548004, 92363548006, 92363548013, 92363548020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/22/17 16:50	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/22/17 16:50	
Benzene	ug/L	ND	5.0	1.7	11/22/17 16:50	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/22/17 16:50	
Ethanol	ug/L	ND	200	131	11/22/17 16:50	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/22/17 16:50	
Ethylbenzene	ug/L	ND	5.0	1.6	11/22/17 16:50	
m&p-Xylene	ug/L	ND	10.0	3.1	11/22/17 16:50	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/22/17 16:50	
Naphthalene	ug/L	ND	5.0	2.0	11/22/17 16:50	
o-Xylene	ug/L	ND	5.0	1.6	11/22/17 16:50	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/22/17 16:50	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/22/17 16:50	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/22/17 16:50	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/22/17 16:50	
Toluene	ug/L	ND	5.0	1.6	11/22/17 16:50	
Xylene (Total)	ug/L	ND	5.0	5.0	11/22/17 16:50	
1,2-Dichloroethane-d4 (S)	%	91	70-130		11/22/17 16:50	
4-Bromofluorobenzene (S)	%	103	70-130		11/22/17 16:50	
Toluene-d8 (S)	%	110	70-130		11/22/17 16:50	

LABORATORY CONTROL SAMPLE: 2153206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.4	87	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	960	96	70-130	
Benzene	ug/L	50	45.0	90	70-130	
Diisopropyl ether	ug/L	50	46.6	93	70-130	
Ethanol	ug/L	2000	1860	93	70-130	
Ethyl-tert-butyl ether	ug/L	100	93.1	93	70-130	
Ethylbenzene	ug/L	50	45.5	91	70-130	
m&p-Xylene	ug/L	100	92.0	92	70-130	
Methyl-tert-butyl ether	ug/L	50	45.4	91	70-130	
Naphthalene	ug/L	50	47.1	94	70-130	
o-Xylene	ug/L	50	46.6	93	70-130	
tert-Amyl Alcohol	ug/L	1000	993	99	70-130	
tert-Amylmethyl ether	ug/L	100	97.5	98	70-130	
tert-Butyl Alcohol	ug/L	500	483	97	70-130	
tert-Butyl Formate	ug/L	400	376	94	70-130	
Toluene	ug/L	50	44.7	89	70-130	

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

LABORATORY CONTROL SAMPLE: 2153206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	139	92	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 2153207

Parameter	Units	92363548004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	200	221	111	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	4000	3120	78	70-130	
Benzene	ug/L	ND	200	199	99	70-130	
Diisopropyl ether	ug/L	ND	200	210	105	70-130	
Ethanol	ug/L	ND	8000	5460	68	70-130 M1	
Ethyl-tert-butyl ether	ug/L	ND	400	401	100	70-130	
Ethylbenzene	ug/L	387	200	599	106	70-130	
m&p-Xylene	ug/L	1420	400	1840	103	70-130	
Methyl-tert-butyl ether	ug/L	ND	200	193	96	70-130	
Naphthalene	ug/L	38.0J	200	220	91	70-130	
o-Xylene	ug/L	251	200	451	100	70-130	
tert-Amyl Alcohol	ug/L	ND	4000	3100	78	70-130	
tert-Amylmethyl ether	ug/L	ND	400	364	91	70-130	
tert-Butyl Alcohol	ug/L	ND	2000	1890	94	70-130	
tert-Butyl Formate	ug/L	ND	1600	638	40	70-130 M1,P5	
Toluene	ug/L	ND	200	210	97	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2153208

Parameter	Units	92363548006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	34.7J	37.0J		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	577	598	4	30	
m&p-Xylene	ug/L	2100	2170	3	30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	242	245	1	30	
o-Xylene	ug/L	92.1	92.8	1	30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

SAMPLE DUPLICATE: 2153208

Parameter	Units	92363548006 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	101	107	5	30	
Xylene (Total)	ug/L	2200	2280	3	30	
1,2-Dichloroethane-d4 (S)	%	89	90	1		
4-Bromofluorobenzene (S)	%	103	104	0		
Toluene-d8 (S)	%	111	112	1		

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

QC Batch: 388122 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92363548007, 92363548008, 92363548011, 92363548014, 92363548015, 92363548016, 92363548018, 92363548023

METHOD BLANK: 2153609 Matrix: Water  
 Associated Lab Samples: 92363548007, 92363548008, 92363548011, 92363548014, 92363548015, 92363548016, 92363548018, 92363548023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/23/17 06:32	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/23/17 06:32	
Benzene	ug/L	ND	5.0	1.7	11/23/17 06:32	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/23/17 06:32	
Ethanol	ug/L	ND	200	131	11/23/17 06:32	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/23/17 06:32	
Ethylbenzene	ug/L	ND	5.0	1.8	11/23/17 06:32	
m&p-Xylene	ug/L	ND	10.0	3.1	11/23/17 06:32	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/23/17 06:32	
Naphthalene	ug/L	ND	5.0	2.0	11/23/17 06:32	
o-Xylene	ug/L	ND	5.0	1.8	11/23/17 06:32	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/23/17 06:32	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/23/17 06:32	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/23/17 06:32	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/23/17 06:32	
Toluene	ug/L	ND	5.0	1.8	11/23/17 06:32	
Xylene (Total)	ug/L	ND	5.0	5.0	11/23/17 06:32	
1,2-Dichloroethane-d4 (S)	%	99	70-130		11/23/17 06:32	
4-Bromofluorobenzene (S)	%	104	70-130		11/23/17 06:32	
Toluene-d8 (S)	%	111	70-130		11/23/17 06:32	

LABORATORY CONTROL SAMPLE: 2153610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.4	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	973	97	70-130	
Benzene	ug/L	50	44.7	89	70-130	
Diisopropyl ether	ug/L	50	53.2	106	70-130	
Ethanol	ug/L	2000	2110	105	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	45.9	92	70-130	
m&p-Xylene	ug/L	100	91.0	91	70-130	
Methyl-tert-butyl ether	ug/L	50	47.9	96	70-130	
Naphthalene	ug/L	50	47.3	95	70-130	
o-Xylene	ug/L	50	48.7	93	70-130	
tert-Amyl Alcohol	ug/L	1000	1040	104	70-130	
tert-Amylmethyl ether	ug/L	100	98.8	99	70-130	
tert-Butyl Alcohol	ug/L	500	553	111	70-130	

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

LABORATORY CONTROL SAMPLE: 2153610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	412	103	70-130	
Toluene	ug/L	50	44.7	89	70-130	
Xylene (Total)	ug/L	150	138	92	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 2153612

Parameter	Units	92363548016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.4	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	342	86	70-130	
Benzene	ug/L	ND	20	16.0	80	70-130	
Diisopropyl ether	ug/L	ND	20	18.3	91	70-130	
Ethanol	ug/L	ND	800	1020	127	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	35.1	88	70-130	
Ethylbenzene	ug/L	ND	20	15.9	80	70-130	
m&p-Xylene	ug/L	ND	40	33.0	83	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	16.1	81	70-130	
Naphthalene	ug/L	ND	20	14.1	71	70-130	
o-Xylene	ug/L	ND	20	16.6	83	70-130	
tert-Amyl Alcohol	ug/L	ND	400	362	90	70-130	
tert-Amylmethyl ether	ug/L	ND	40	30.4	76	70-130	
tert-Butyl Alcohol	ug/L	ND	200	289	144	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1,P5
Toluene	ug/L	ND	20	16.0	80	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				109	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2153611

Parameter	Units	92363548015 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

SAMPLE DUPLICATE: 2153611

Parameter	Units	92363548015 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	100	100	0		
4-Bromofluorobenzene (S)	%	103	101	2		
Toluene-d8 (S)	%	113	110	2		

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

QC Batch: 388123 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92363548001

METHOD BLANK: 2153613 Matrix: Water  
 Associated Lab Samples: 92363548001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/23/17 06:49	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/23/17 06:49	
Benzene	ug/L	ND	5.0	1.7	11/23/17 06:49	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/23/17 06:49	
Ethanol	ug/L	ND	200	131	11/23/17 06:49	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/23/17 06:49	
Ethylbenzene	ug/L	ND	5.0	1.6	11/23/17 06:49	
m&p-Xylene	ug/L	ND	10.0	3.1	11/23/17 06:49	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/23/17 06:49	
Naphthalene	ug/L	ND	5.0	2.0	11/23/17 06:49	
o-Xylene	ug/L	ND	5.0	1.6	11/23/17 06:49	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/23/17 06:49	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/23/17 06:49	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/23/17 06:49	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/23/17 06:49	
Toluene	ug/L	ND	5.0	1.6	11/23/17 06:49	
Xylene (Total)	ug/L	ND	5.0	5.0	11/23/17 06:49	
1,2-Dichloroethane-d4 (S)	%	101	70-130		11/23/17 06:49	
4-Bromofluorobenzene (S)	%	102	70-130		11/23/17 06:49	
Toluene-d8 (S)	%	112	70-130		11/23/17 06:49	

LABORATORY CONTROL SAMPLE: 2153614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.3	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	41.6	83	70-130	
Diisopropyl ether	ug/L	50	49.1	98	70-130	
Ethanol	ug/L	2000	2290	114	70-130	
Ethyl-tert-butyl ether	ug/L	100	96.4	96	70-130	
Ethylbenzene	ug/L	50	43.2	86	70-130	
m&p-Xylene	ug/L	100	86.9	87	70-130	
Methyl-tert-butyl ether	ug/L	50	46.3	93	70-130	
Naphthalene	ug/L	50	48.7	97	70-130	
o-Xylene	ug/L	50	43.6	87	70-130	
tert-Amyl Alcohol	ug/L	1000	1070	107	70-130	
tert-Amylmethyl ether	ug/L	100	95.9	96	70-130	
tert-Butyl Alcohol	ug/L	500	577	115	70-130	
tert-Butyl Formate	ug/L	400	396	99	70-130	
Toluene	ug/L	50	41.7	83	70-130	

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

LABORATORY CONTROL SAMPLE: 2153614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	131	87	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 2153616

Parameter	Units	92363556013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	23.9	119	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	482	121	70-130	
Benzene	ug/L	ND	20	19.3	96	70-130	
Diisopropyl ether	ug/L	ND	20	23.1	116	70-130	
Ethanol	ug/L	ND	800	1280	158	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	43.7	109	70-130	
Ethylbenzene	ug/L	ND	20	20.7	103	70-130	
m&p-Xylene	ug/L	ND	40	41.2	103	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.9	99	70-130	
Naphthalene	ug/L	ND	20	20.7	103	70-130	
o-Xylene	ug/L	ND	20	20.9	105	70-130	
tert-Amyl Alcohol	ug/L	ND	400	118	30	70-130	M1
tert-Amylmethyl ether	ug/L	ND	40	38.8	97	70-130	
tert-Butyl Alcohol	ug/L	ND	200	403	201	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1,P5
Toluene	ug/L	ND	20	19.8	99	70-130	
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				106	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2153615

Parameter	Units	92363556012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

SAMPLE DUPLICATE: 2153615

Parameter	Units	92363556012 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	104	101	3		
4-Bromofluorobenzene (S)	%	105	106	1		
Toluene-d8 (S)	%	113	113	0		

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

QC Batch: 388148 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92363548003, 92363548005, 92363548017, 92363548019, 92363548027, 92363548028

METHOD BLANK: 2153706 Matrix: Water  
 Associated Lab Samples: 92363548003, 92363548005, 92363548017, 92363548019, 92363548027, 92363548028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/24/17 11:00	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/24/17 11:00	
Benzene	ug/L	ND	5.0	1.7	11/24/17 11:00	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/24/17 11:00	
Ethanol	ug/L	ND	200	131	11/24/17 11:00	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/24/17 11:00	
Ethylbenzene	ug/L	ND	5.0	1.6	11/24/17 11:00	
m&p-Xylene	ug/L	ND	10.0	3.1	11/24/17 11:00	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/24/17 11:00	
Naphthalene	ug/L	ND	5.0	2.0	11/24/17 11:00	
o-Xylene	ug/L	ND	5.0	1.6	11/24/17 11:00	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/24/17 11:00	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/24/17 11:00	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/24/17 11:00	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/24/17 11:00	
Toluene	ug/L	ND	5.0	1.6	11/24/17 11:00	
Xylene (Total)	ug/L	ND	5.0	5.0	11/24/17 11:00	
1,2-Dichloroethane-d4 (S)	%	106	70-130		11/24/17 11:00	
4-Bromofluorobenzene (S)	%	104	70-130		11/24/17 11:00	
Toluene-d8 (S)	%	111	70-130		11/24/17 11:00	

LABORATORY CONTROL SAMPLE: 2153707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.2	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	984	98	70-130	
Benzene	ug/L	50	45.5	91	70-130	
Diisopropyl ether	ug/L	50	55.3	111	70-130	
Ethanol	ug/L	2000	2240	112	70-130	
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
Ethylbenzene	ug/L	50	48.4	93	70-130	
m&p-Xylene	ug/L	100	93.5	94	70-130	
Methyl-tert-butyl ether	ug/L	50	48.4	97	70-130	
Naphthalene	ug/L	50	47.0	94	70-130	
o-Xylene	ug/L	50	48.3	97	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	95.1	95	70-130	
tert-Butyl Alcohol	ug/L	500	603	121	70-130	
tert-Butyl Formate	ug/L	400	417	104	70-130	
Toluene	ug/L	50	45.2	90	70-130	

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

LABORATORY CONTROL SAMPLE: 2153707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 2153708

Parameter	Units	92363548028 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	23.8	119	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	433	108	70-130	
Benzene	ug/L	ND	20	19.1	95	70-130	
Diisopropyl ether	ug/L	ND	20	22.5	113	70-130	
Ethanol	ug/L	ND	800	1260	157	70-130	M1
Ethyl-tert-butyl ether	ug/L	ND	40	43.1	108	70-130	
Ethylbenzene	ug/L	ND	20	19.9	99	70-130	
m&p-Xylene	ug/L	ND	40	40.9	102	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.9	99	70-130	
Naphthalene	ug/L	ND	20	20.1	101	70-130	
o-Xylene	ug/L	ND	20	20.8	104	70-130	
tert-Amyl Alcohol	ug/L	ND	400	436	109	70-130	
tert-Amylmethyl ether	ug/L	ND	40	36.6	92	70-130	
tert-Butyl Alcohol	ug/L	ND	200	374	187	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1,P5
Toluene	ug/L	ND	20	19.2	96	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2153709

Parameter	Units	92363547010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	11.4	11.3	1	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	11.7	10.7	9	30	
Naphthalene	ug/L	4.1J	4.2J		30	
o-Xylene	ug/L	24.5	23.4	5	30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

SAMPLE DUPLICATE: 2153709

Parameter	Units	92363547010 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	24.5	23.4	5	30	
1,2-Dichloroethane-d4 (S)	%	104	104	0		
4-Bromofluorobenzene (S)	%	107	107	0		
Toluene-d8 (S)	%	113	115	1		

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

QC Batch: 388176 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92363548009, 92363548010, 92363548012

METHOD BLANK: 2153803 Matrix: Water  
 Associated Lab Samples: 92363548009, 92363548010, 92363548012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	11/25/17 12:25	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	11/25/17 12:25	
Benzene	ug/L	ND	5.0	1.7	11/25/17 12:25	
Diisopropyl ether	ug/L	ND	5.0	1.7	11/25/17 12:25	
Ethanol	ug/L	ND	200	131	11/25/17 12:25	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	11/25/17 12:25	
Ethylbenzene	ug/L	ND	5.0	1.6	11/25/17 12:25	
m&p-Xylene	ug/L	ND	10.0	3.1	11/25/17 12:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	11/25/17 12:25	
Naphthalene	ug/L	ND	5.0	2.0	11/25/17 12:25	
o-Xylene	ug/L	ND	5.0	1.6	11/25/17 12:25	
tert-Amyl Alcohol	ug/L	ND	100	76.8	11/25/17 12:25	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	11/25/17 12:25	
tert-Butyl Alcohol	ug/L	ND	100	57.7	11/25/17 12:25	
tert-Butyl Formate	ug/L	ND	50.0	7.3	11/25/17 12:25	
Toluene	ug/L	ND	5.0	1.6	11/25/17 12:25	
Xylene (Total)	ug/L	ND	5.0	5.0	11/25/17 12:25	
1,2-Dichloroethane-d4 (S)	%	103	70-130		11/25/17 12:25	
4-Bromofluorobenzene (S)	%	102	70-130		11/25/17 12:25	
Toluene-d8 (S)	%	115	70-130		11/25/17 12:25	

LABORATORY CONTROL SAMPLE: 2153804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.0	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	40.7	81	70-130	
Diisopropyl ether	ug/L	50	50.7	101	70-130	
Ethanol	ug/L	2000	2520	126	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.3	99	70-130	
Ethylbenzene	ug/L	50	42.5	85	70-130	
m&p-Xylene	ug/L	100	85.9	86	70-130	
Methyl-tert-butyl ether	ug/L	50	45.0	90	70-130	
Naphthalene	ug/L	50	47.5	95	70-130	
o-Xylene	ug/L	50	44.2	88	70-130	
tert-Amyl Alcohol	ug/L	1000	1200	120	70-130	
tert-Amylmethyl ether	ug/L	100	91.7	92	70-130	
tert-Butyl Alcohol	ug/L	500	640	128	70-130	
tert-Butyl Formate	ug/L	400	409	102	70-130	
Toluene	ug/L	50	40.7	81	70-130	

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

LABORATORY CONTROL SAMPLE: 2153804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	130	87	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 2153805

Parameter	Units	92364063001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	200	241	120	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	4000	3630	91	70-130	
Benzene	ug/L	148	200	346	99	70-130	
Diisopropyl ether	ug/L	ND	200	232	116	70-130	
Ethanol	ug/L	ND	8000	8360	105	70-130	
Ethyl-tert-butyl ether	ug/L	ND	400	434	109	70-130	
Ethylbenzene	ug/L	ND	200	203	101	70-130	
m&p-Xylene	ug/L	ND	400	409	102	70-130	
Methyl-tert-butyl ether	ug/L	944	200	1160	109	70-130	
Naphthalene	ug/L	ND	200	203	93	70-130	
o-Xylene	ug/L	ND	200	208	102	70-130	
tert-Amyl Alcohol	ug/L	ND	4000	4230	106	70-130	
tert-Amylmethyl ether	ug/L	ND	400	420	97	70-130	
tert-Butyl Alcohol	ug/L	ND	2000	2800	140	70-130	M1
tert-Butyl Formate	ug/L	ND	1600	649	41	70-130	M1,P5
Toluene	ug/L	ND	200	198	99	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				108	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 2153806

Parameter	Units	92364063002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	161	167	4	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	1030	990	4	30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	34.4J	ND		30	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

SAMPLE DUPLICATE: 2153806

Parameter	Units	92364063002 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	108	105	3		
4-Bromofluorobenzene (S)	%	101	104	3		
Toluene-d8 (S)	%	113	113	0		

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

QC Batch: 387108 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92363548001, 92363548002, 92363548003, 92363548004, 92363548005, 92363548006, 92363548007, 92363548008, 92363548009, 92363548010

METHOD BLANK: 2147196 Matrix: Water  
 Associated Lab Samples: 92363548001, 92363548002, 92363548003, 92363548004, 92363548005, 92363548006, 92363548007, 92363548008, 92363548009, 92363548010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	11/17/17 02:58	
1-Chloro-2-bromopropane (S)	%	117	60-140		11/17/17 02:58	

LABORATORY CONTROL SAMPLE & LCSD: 2147197 2147198

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.27	0.26	112	110	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				115	118	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147199 2147200

Parameter	Units	92363548003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.27	0.28	110	114	60-140	4	20	
1-Chloro-2-bromopropane (S)	%						119	125	60-140			

SAMPLE DUPLICATE: 2147201

Parameter	Units	92363548008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	123	115	5		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

QC Batch: 387279 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92363548011, 92363548012, 92363548013, 92363548014, 92363548015, 92363548016, 92363548017, 92363548018, 92363548019, 92363548020, 92363548021, 92363548022, 92363548023, 92363548024, 92363548025

METHOD BLANK: 2148535 Matrix: Water  
 Associated Lab Samples: 92363548011, 92363548012, 92363548013, 92363548014, 92363548015, 92363548016, 92363548017, 92363548018, 92363548019, 92363548020, 92363548021, 92363548022, 92363548023, 92363548024, 92363548025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	11/17/17 18:57	
1-Chloro-2-bromopropane (S)	%	117	60-140		11/17/17 18:57	

LABORATORY CONTROL SAMPLE & LCSD: 2148536 2148537

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.27	0.29	114	117	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				124	122	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2148538 2148539

Parameter	Units	92363548013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.27	0.28	112	117	60-140	4	20	
1-Chloro-2-bromopropane (S)	%						132	136	60-140			

SAMPLE DUPLICATE: 2148540

Parameter	Units	92363548014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	115	112	3		

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK 00332/55032  
 Pace Project No.: 92363548

QC Batch: 387280 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92363548026, 92363548027, 92363548028, 92363548029

METHOD BLANK: 2148541 Matrix: Water  
 Associated Lab Samples: 92363548026, 92363548027, 92363548028, 92363548029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	11/18/17 03:54	
1-Chloro-2-bromopropane (S)	%	117	60-140		11/18/17 03:54	

LABORATORY CONTROL SAMPLE & LCSD: 2148542 2148543

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.27	0.26	110	107	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				115	114	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2148544 2148545

Parameter	Units	92363556001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.29	0.29	119	119	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						140	135	60-140			

SAMPLE DUPLICATE: 2148546

Parameter	Units	92363556002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	138	144	2	S3	

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## QUALIFIERS

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

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### DEFINITIONS

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

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

C2 Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.  
C8 Result may be biased high due to carryover from previously analyzed sample.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.  
S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: INTERSTATE TRUCK 00332/55032

Pace Project No.: 92363548

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92363548001	MW-1	EPA 8011	387108	EPA 8011	387204
92363548002	MW-2	EPA 8011	387108	EPA 8011	387204
92363548003	MW-3	EPA 8011	387108	EPA 8011	387204
92363548004	MW-4R	EPA 8011	387108	EPA 8011	387204
92363548005	MW-5R	EPA 8011	387108	EPA 8011	387204
92363548006	MW-6	EPA 8011	387108	EPA 8011	387204
92363548007	MW-7	EPA 8011	387108	EPA 8011	387204
92363548008	MW-8	EPA 8011	387108	EPA 8011	387204
92363548009	MW-9	EPA 8011	387108	EPA 8011	387204
92363548010	MW-10	EPA 8011	387108	EPA 8011	387204
92363548011	MW-12	EPA 8011	387279	EPA 8011	387385
92363548012	MW-13	EPA 8011	387279	EPA 8011	387385
92363548013	MW-14	EPA 8011	387279	EPA 8011	387385
92363548014	MW-15	EPA 8011	387279	EPA 8011	387385
92363548015	MW-17	EPA 8011	387279	EPA 8011	387385
92363548016	MW-18	EPA 8011	387279	EPA 8011	387385
92363548017	MW-19	EPA 8011	387279	EPA 8011	387385
92363548018	MW-20	EPA 8011	387279	EPA 8011	387385
92363548019	MW-21	EPA 8011	387279	EPA 8011	387385
92363548020	MW-22	EPA 8011	387279	EPA 8011	387385
92363548021	DW-1	EPA 8011	387279	EPA 8011	387385
92363548022	DW-2	EPA 8011	387279	EPA 8011	387385
92363548023	DW-3	EPA 8011	387279	EPA 8011	387385
92363548024	DW-4	EPA 8011	387279	EPA 8011	387385
92363548025	DW-5	EPA 8011	387279	EPA 8011	387385
92363548026	DW-6	EPA 8011	387280	EPA 8011	387386
92363548027	DUP-1	EPA 8011	387280	EPA 8011	387386
92363548028	DUP-2	EPA 8011	387280	EPA 8011	387386
92363548029	FIELD BLANK	EPA 8011	387280	EPA 8011	387386
92363548001	MW-1	EPA 8260	388123		
92363548002	MW-2	EPA 8260	388081		
92363548003	MW-3	EPA 8260	388148		
92363548004	MW-4R	EPA 8260	388081		
92363548005	MW-5R	EPA 8260	388148		
92363548006	MW-6	EPA 8260	388081		
92363548007	MW-7	EPA 8260	388122		
92363548008	MW-8	EPA 8260	388122		
92363548009	MW-9	EPA 8260	388176		
92363548010	MW-10	EPA 8260	388176		
92363548011	MW-12	EPA 8260	388122		
92363548012	MW-13	EPA 8260	388176		
92363548013	MW-14	EPA 8260	388081		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: INTERSTATE TRUCK 00332/55032  
Pace Project No.: 92363548

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92363548014	MW-15	EPA 8260	388122		
92363548015	MW-17	EPA 8260	388122		
92363548016	MW-18	EPA 8260	388122		
92363548017	MW-19	EPA 8260	388148		
92363548018	MW-20	EPA 8260	388122		
92363548019	MW-21	EPA 8260	388148		
92363548020	MW-22	EPA 8260	388081		
92363548021	DW-1	EPA 8260	388073		
92363548022	DW-2	EPA 8260	388073		
92363548023	DW-3	EPA 8260	388122		
92363548024	DW-4	EPA 8260	388073		
92363548025	DW-5	EPA 8260	388073		
92363548026	DW-6	EPA 8260	388073		
92363548027	DUP-1	EPA 8260	388148		
92363548028	DUP-2	EPA 8260	388148		
92363548029	FIELD BLANK	EPA 8260	388073		
92363548030	TRIP BLANK	EPA 8260	388073		

### REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Open Receipt (SCOR)	Document Revised: August 4, 2017 Page 1 of 2
	Document No.: E-CAR-CS-033-Rev.04	Issuing Authority: Pace Quality Office

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition  
Open Receipt

Client Name: SCDHCE

Project #: WO# 92363548

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initial Person Examining Container: 11/15/17

Packing Material:  Bubble Wrap  Bubble Bags  Nons  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  In Use ID: 1101 Type of Seal:  Wet  Blue  None

Correction Factor: Cooler Temp Corrected (°C): 0.3

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun.

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>M</u>			
Headspace in VOA Vials (>3-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		

CLIENT NOTIFICATION/RESOLUTION Field Data Required?  Yes  No

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

Comments/Sample Discrepancy: \_\_\_\_\_

Lot ID of split containers: \_\_\_\_\_

Project Manager SCURF Review: TC Date: 11/16/17

Project Manager SRF Review: TC Date: 11/16/17

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



Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: August 4, 2017 Page 2 of 2
Document No.: <b>F-CAR-CS-033-Rev.04</b>	Issuing Authority: Pace Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

**WO# 92363548**

PH: RNC      Due Date: 11/22/17  
CLIENT: B2-SCHEC

\*Bottom half of box is to list number of bottles

Item #	Material	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125	ml. Plastic, Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
BP5U-250	ml. Plastic, Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
BP7U-500	ml. Plastic, Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
BP7U-1	liter Plastic, Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
BP4P-125	ml. Plastic H2SO4 (pH < 2) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
BP5P-250	ml. Plastic H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
BP4Z-125	ml. Plastic Zn Acetate & NaOH (pH)	/	/	/	/	/	/	/	/	/	/	/	/
BP4Z-250	ml. Plastic NaOH (pH > 12) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
W68U-1	High-temperature Glass Jar Unpreserved	/	/	/	/	/	/	/	/	/	/	/	/
NA21U-2	liter Amber Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
AS19U-3	liter Amber HCl (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AS31U-1	250 ml. Amber Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
AS31U-2	liter Amber H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AS33U-250	ml. Amber H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AS33U-500	ml. Amber H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
AS33U-1000	ml. Amber H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
DC09U-40	ml. VOA HCl (N/A)	6	6	6	6	6	6	6	6	6	6	6	6
YES0U-40	ml. VOA H2SO4 (N/A)												
YES1U-40	ml. VOA Sup. (N/A)												
DC09P-40	ml. VOA H2PO4 (N/A)												
VOA1U-15	4000 per 100-5000 IR (N/A)												
V/OA1U-15	vials per 100-5000 IR/Gas IR (N/A)												
SP5U-125	ml. Sterile Plastic (N/A - 100)	/	/	/	/	/	/	/	/	/	/	/	/
SP2U-250	ml. Sterile Plastic (N/A - 100)	/	/	/	/	/	/	/	/	/	/	/	/
BP5P-250	ml. Plastic H2O2 (pH 5-9.7)	/	/	/	/	/	/	/	/	/	/	/	/
	Culture Jar												
YES6U-20	ml. Sanitization Jars (N/A)												
	GR												

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

\*\*Bottom half of box is to list number of bottles

Project # **NO# 92363548**  
 PR: RRC      Due Date: 11/22/17  
 CLIENT: 02-SCDREC

Item#	Description	1	2	3	4	5	6	7	8	9	10	11	12	13
BP40-125 ml. Plastic Unpreserved (N/A) (D-)		/	/	/	/	/	/	/	/	/	/	/	/	/
BP2M-250 ml. Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/	/
BP2U-500 ml. Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/	/
BP5U-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml. Plastic #2504 (pH < 2) (D-)		/	/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml. Plastic #1008 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml. Plastic #2N Acetate, & NaOH (D-)		/	/	/	/	/	/	/	/	/	/	/	/	/
BP40-125 ml. Plastic #601 (pH > 12) (D-)		/	/	/	/	/	/	/	/	/	/	/	/	/
W6R1-W606-modified Glass Jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/	/
AG11A-1 liter Amber Unpreserved (N/A) (D-)		/	/	/	/	/	/	/	/	/	/	/	/	/
AG11A-2 liter Amber HCl (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/	/
AG11A-3 liter Amber Unpreserved (N/A) (D-)		/	/	/	/	/	/	/	/	/	/	/	/	/
AG11A-1 liter Amber Unpreserved (N/A) (D-)		/	/	/	/	/	/	/	/	/	/	/	/	/
AG11A-1 liter Amber #2504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/	/
AG11A-250 ml. Amber Unpreserved (N/A) (D-)		/	/	/	/	/	/	/	/	/	/	/	/	/
AG11A-250 ml. Amber #2504 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/	/
AG11A #2504-250 ml. Amber #1463 (N/A) (D-)		/	/	/	/	/	/	/	/	/	/	/	/	/
AG11A-40 ml. VOA HCl (N/A)		6	6	6	6	6	6	6	6	6	6	6	6	6
AG11A-40 ml. VOA #2504 (N/A)														
AG11A-40 ml. VOA Unp (N/A)														
D63P-40 ml. VOA #5904 (N/A)														
VOA# (6 vials per kit) 5035 kit (N/A)														
V16A (5 vials per kit) #1474/S&S kit (N/A)														
BP5T-125 ml. Sterile Plastic (N/A - lab)		/	/	/	/	/	/	/	/	/	/	/	/	/
BP5T-250 ml. Sterile Plastic (N/A - lab)		/	/	/	/	/	/	/	/	/	/	/	/	/
BP20-250 ml. Plastic (N/A) (D-)		/	/	/	/	/	/	/	/	/	/	/	/	/
Subliner		/	/	/	/	/	/	/	/	/	/	/	/	/
VO60-20 ml. Scintillation vial (N/A)		/	/	/	/	/	/	/	/	/	/	/	/	/
GM		/	/	/	/	/	/	/	/	/	/	/	/	/

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #



Document Name: Sample Condition Upon Receipt (SCUR)  
 Document No.: F-CAR-03-033-Rev.04  
 Document Revised: August 4, 2017  
 Page 2 of 2  
 Issuing Authority: Pace Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.  
 \*\*Bottom half of box is to list number of bottles.

Project # **W0# : 92363548**  
 Date: 11/22/17  
 CLIENT: B2-SCHEC

*POB*

Item #	Description	1	2	3	4	5	6	7	8	9	10	11	12
BP40-250 ml. Plastic Unpreserved (N/A) (C1)		/	/	/	/	/	/	/	/	/	/	/	/
BP30-250 ml. Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP21-300 ml. Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP10-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP45-125 ml. Plastic N2SO4 (pH < 2) (C1)		/	/	/	/	/	/	/	/	/	/	/	/
BP35-250 ml. Plastic (N2O) (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP42-125 ml. Plastic 2N Acetone N-NaOH (pH)		/	/	/	/	/	/	/	/	/	/	/	/
BP46-125 ml. Plastic NaOH (pH > 12) (C1)		/	/	/	/	/	/	/	/	/	/	/	/
W8715 Wide-mouthed Glass Jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
26211-3 liter Amber Unpreserved (N/A) (C1)		/	/	/	/	/	/	/	/	/	/	/	/
AG14-1 liter Amber HD (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG31-250 ml. Amber Unpreserved (N/A) (C1)		/	/	/	/	/	/	/	/	/	/	/	/
AG15-1 liter Amber N2SO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG33-250 ml. Amber N2SO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG24 (D33) 250 ml. Amber NHE3 (N/A) (C1)		/	/	/	/	/	/	/	/	/	/	/	/
AG31H-49 ml. VOA HC (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
W687-40 ml. VOA N2SO4 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V6501-48 ml. VOA LUR (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DIGAP-40 ml. VOA TBPOX (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VOAK (6 wks) per AM-5035 IR (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
V/GR (3 wks) per AM-VIN/GRS IR (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
SP51-125 ml. Sterile Plastic (N/A - lab)		/	/	/	/	/	/	/	/	/	/	/	/
SP71-250 ml. Sterile Plastic (N/A - lab)		/	/	/	/	/	/	/	/	/	/	/	/
BP2A-250 ml. Plastic (N2) (N2O) (pH > 4-7)		/	/	/	/	/	/	/	/	/	/	/	/
Cultivator		/	/	/	/	/	/	/	/	/	/	/	/
V691-20 ml. Amplexation vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
GN		/	/	/	/	/	/	/	/	/	/	/	/

16666666

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservation added	Lot #



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

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<b>Section A</b> Requester Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Analytical Information:
Company: <b>SCDHCC</b>	Report To: <b>A Thrash - UST</b>	Client:
Address: <b>2400 Bull St</b>	City To:	Company Name:
<b>Ashley Thrash</b>	Address: <b>4600H 225 St</b>	Address:
Email To: <b>Ashley Thrash @ SCDHEC</b>	Phone Order No: <b>08253200V</b>	State: <b>SC</b>
Phone: <b>(803) 948-0107 / 948-948-4171</b>	Project Name: <b>Interstate Truck Stop</b>	City: <b>Alexandria</b>
Requested Date (MM/YY):	Project Number: <b>0374 00332 Yace CA# 5582</b>	State: <b>SC</b>
	Personnel: <b>T. Carter</b>	City: <b>Alexandria</b>

FRNK #	SAMPLE ID (AZ, B, C, E, L) Sample IDs MUST BE UNIQUE	Matrix Code: Drinking Water: DW Water: WT Waste Water: WW Pesticide: P Soils/Sediment: SL Air: AIR Tissue: TS Other: OT	Matrix Code: Asst. / Other	SAMPLE TYPE (E-ORMS O-COMP)	COLLECTED		PRESERVATIVES	REGULATED ANALYTES FILTERED (Y/N)										Residual Chlorine (Y/N)	Pass Project No. / Lib ID								
					DATE	TIME		Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	NaOCl	Methanol	Other	Asst. Test 1	Asst. Test 2			Asst. Test 3	Asst. Test 4	Asst. Test 5	Asst. Test 6	Asst. Test 7	Asst. Test 8		
																										COMPOSITE METHOD	COMPOSITE SUBSTRATE
1	MW-1	WTG		MINI 17	11/17	6:00	6																		No odor	01	
2	MW-2	WTG		MINI 17	11/17	6:05	6																			Slight odor	01
3	MW-3	WTG		MINI 17	11/17	6:10	6																			Slight odor	01
4	MW-4A	WTG		MINI 17	11/17	6:15	6																			Slight odor	01
5	MW-5A	WTG		MINI 17	11/17	6:20	6																			Slight odor	01
6	MW-6	WTG		MINI 17	11/17	6:25	6																			Slight odor	01
7	MW-7	WTG		MINI 17	11/17	6:30	6																			No odor	01
8	MW-8	WTG		MINI 17	11/17	6:35	6																			Slight odor	01
9	MW-9	WTG		MINI 17	11/17	6:40	6																			Slight odor	01
10	MW-10	WTG		MINI 17	11/17	6:45	6																			No odor	01
11	MW-11	WTG		MINI 17	11/17	6:50	6																			No odor	01
12	MW-12	WTG		MINI 17	11/17	6:55	6																			odor	01

ADDITIONAL COMMENTS	ACCEPTED BY (AFFILIATION)	DATE	TIME	ACCEPTED BY (AFFILIATION)	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	11/17	8:15	<i>[Signature]</i>	11/17	8:45	02 ✓ NY

ORIGINAL

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: <b>Chris Carter</b>	
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): <b>11/14/17</b>

Temp: 70  
 Filtered on Ice (Y/N)  
 Country: Street Code (Y/N)  
 Samples Taken (Y/N)

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.95 per month for any invoices not paid within 30 days. F-ALL-C-020 rev. 07, 15-May-2007



**CHAIN-OF-CUSTODY / Analytical Request Document**  
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<b>Section A</b> Requester Client Information:		<b>Section B</b> Requested Project Information:		<b>Section C</b> Analytical Information:	
Company: <b>SODNEC</b>		Report For: <b>A THROUGH -UST</b>		Company Name:	
Address: <b>2600 Bull St</b>		Copy To:		REGULATORY AGENCY:	
<b>Ashley Thrash</b>				<input checked="" type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Project Order No.: <b>4600422-513</b>		Project Name: <b>Interstate Truck Stop</b>		Site Location: <b>SC</b>	
Phone: <b>803-998-0607</b>		Fax: <b>803-998-0673</b>		State: <b>SC</b>	
Requested Due Date/TIME: <b>03/14/17 00:32</b>		Pace Order No.: <b>04825822</b>		Attachment: <b>Appendix</b>	
Project Manager: <b>T. Carter</b>		Pace Point #:			

ITEM#	SAMPLE ID (AZ, P, S, I, J) Sample IDs MUST BE UNIQUE!	Matrix Code (see well code below)	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVED							ANALYSIS TEST #	RESIDUAL CHLORINE (CY)	Pace Project No./ Lab ID:
			DATE	TIME	DATE	TIME		UNPRESERVED	H2SO4	PHOS	HCl	NO3H	PHOSPHO	Metalband			
1	MW-13	WT	6		11/14/17	8:01	6										No odor
2	MW-14	WT	6			8:00	6										slight odor
3	MW-15	WT	6			8:30	6										No odor
4	MW-16																N/A
5	MW-17	WT	6			9:15	6										No odor
6	MW-18					11:16											slight odor
7	MW-19					11:39											No odor
8	MW-20					8:51											No odor
9	MW-21					10:16											strong odor/ble
10	MW-22					10:47											odor
11	DW-1					12:28											No odor
12	DW-2					10:18											No odor

ADDITIONAL COMMENTS	RELEASED BY APPLICATION	DATE	TIME	ACCEPTED BY APPLICATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	11/14/17	8:55	<i>[Signature]</i>	11/14/17	04:5	N Y
	<i>[Signature]</i>	11/14/17	15:35	<i>[Signature]</i>	11/14/17	03:4	N Y

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp to 10	Preserved in (CY)	Chain of Custody (NY)	Sampler used (CY)
FRONT NAME OF SAMPLER:	<b>CLAY'S CHARTER</b>				
SIGNATURE OF SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	11/14/17		

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month. Please contact the pace sales dept.





# CHAIN-OF-CUSTODY / Analytical Request Document

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

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REGULATORY AGENCY

NPDES  GROUND-WATER  DRINKING WATER

UST  RCRA  OTHER

SIS Location: SC

STATE: Allendale

Section A: Required Client Information

Company: SCHEC

Address: 2100 Bull St

City: Ashley

State: SC

Zip: 29407

Phone: 803-818-6732

Section B: Required Project Information

Project Title: A Thrash - UST

Copy To:

Purchase Order No: H600422013

Project Name: Superstore Truck stop

Requested Date/Deliverable: UST 400332 Pace CA# 5932

Section C: Invoicing Information

Company Name:

Address:

Phone/Fax Reference:

Pace Project Manager: T. Carter

Pace Profile #:

STEP #	SAMPLE ID (A-Z, 0-9) SIGNATURE MUST BE UNIQUE	MATERIAL CODES Drinking Water DW Waste Water WW Product Water PW Oil OI Vapor VA Tank TANK Other OT	MATRIX CODE (see user access report)	SAMPLE TYPE (SOP: C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives												Residual Chlorine (Y/N)				
					DATE	TIME			DATE	TIME	Unpreserved	H2SO4	HNO3	HAOCL	HAOCL2	HAOCL3	Methanol	CRW	VAI						
1	DW-3		N7C			11/13/17		6										X	X	X	X	X			No odor 014
2	DW-4							6																	No odor 015
3	DW-5							6																	No odor 016
4	DW-6							6																	No odor 017
5	DW-1							6																	odor 018
6	DW-2							6																	No odor 019
7	Field Blank							6																	FB 020
8	Trip Blank							6																	TB 021

ADDITIONAL COMMENTS	RELEASER BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i> Pace	11/15/17	5:15	<i>[Signature]</i> Pace	11/15/17	5:35	
				<i>[Signature]</i> Pace	11/15/17	5:55	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chris Chartier

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: 11/14/17

Temperature

Refrigeration (Y/N)

Quality Sealed Container (Y/N)

Sample Intact (Y/N)

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

P-FALL-G-020Rev 07, 15-May-2007



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544



MEMORANDUM

TO: Midlands Environmental Consultants, Inc  
FROM: Cody Heinze  
RE: Site Specific Work Plan Request

Facility Name: Interstate Truck Terminal  
Permit Number: 00332  
County: Allendale

Work To Be Completed: Sample all monitoring wells and water supply wells for BTEX+naph+MtBE+DCA+oxygenates and EDB. Purge all wells that do not bracket the water table. Do not sample wells containing measureable (0.01') free-phase product.

Total Number of Monitoring Well Samples: 28  
Analysis Being Requested: BTEX+naph+MtBE+DCA+oxygenates(8260B) and EDB(8011)  
Total Number of Water Supply Well Samples: 1  
Analysis Being Requested: BTEXNM+1,2 DCA (524.2), Oxygenates & Ethanol (8260B), and EDB (504.1)





**JUL 06 2018**

MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

Re: Site Specific Work Plan Requests  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906; PO #4600624358

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400012906 and the UST Management Division Quality Assurance Program Plan (QAPP) Revision 3.1, it is requested that you submit a Site Specific Work Plan (SSWP) based on the site information packages provided.

The SSWPs must be submitted within 15 business days to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. Please contact me with the sampling schedule before commencing work at these facilities. In addition, a weekly update for each site is required to be submitted via e-mail to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-0671 or email [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov).

Sincerely,

Robert A. Dunn, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Site Information Packages

Cc: Technical File (w/o Enc)

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

July 23, 2018

Mr. Robert Dunn, Hydrogeologist  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: Site-Specific Work Plan  
Interstate Truck Terminal  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 18-6534  
Certified Site Rehabilitation Contractor UCC-0009




Dear Mr. Dunn,


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

On July 13, 2018, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

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

  
Kyle V. Pudney  
Project Biologist

  
Jeff L. Coleman  
Senior Scientist



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

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

Facility Name: Interstate Truck Terminal UST Permit #: 00332  
 Facility Address: Intersection of Highway 301 & 321, Ulmer, SC 29849  
 Responsible Party: Julius Moody Phone: 803-245-4470  
 RP Address: Rt 3 PO Box 192 B, Bamberg, SC 29003  
 Property Owner (if different): SAA  
 Property Owner Address: SAA  
 Current Use of Property: Abandoned Store

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

- IGWA       Tier II       Groundwater Sampling       GAC  
 Tier I       Monitoring Well Installation       Other \_\_\_\_\_

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

**Groundwater/Surface Water:**

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

**Drinking Water Supply Wells:**

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

**Soil:**

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

**Air:**

- BTEXN

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

\_\_\_\_\_ Soil      1 Water Supply Wells      \_\_\_\_\_ Air      2 Field Blank  
28 Monitoring Wells      \_\_\_\_\_ 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 #: 00332

Facility Name: Interstate Truck Terminal

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

Field Work Start-Up: 7/23/2018

Field Work Completion: 8/23/2018

Report Submittal: 9/23/2018

# of Copies Provided to Property Owners: 0

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

**Investigation Derived Waste Disposal**

Soil: \_\_\_\_\_ Tons

Purge Water: 300.0

Gallons

Drilling Fluids: \_\_\_\_\_ Gallons

Free-Phase Product: \_\_\_\_\_

Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

-During the initial site visit, monitoring well MW-11 was unable to be located. All other monitoring wells were located. A total of eight bolts are needed to properly secure wells at the subject site.

-Only monitoring wells which do not bracket the water table will be purged prior to sample collection.

-One water supply well sample will also be collected (WSW-2).

-Monitoring well samples will be analyzed for BTEXNM, 8-OXY, 1,2-DCA (8260B) & EDB (8011).

-Water supply well samples will be analyzed for BTEXNM, 1,2-DCA (524.2), 8 Oxy's (8260B) & EDB (504.1).

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: \_\_\_\_\_

SCDHEC Certification Number: \_\_\_\_\_

Name of Laboratory Director: \_\_\_\_\_

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_

SCLLR Certification Number: \_\_\_\_\_

None Other variations from ACQAP. Please describe below.

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

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
 

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



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO NUMBER 4600559329**

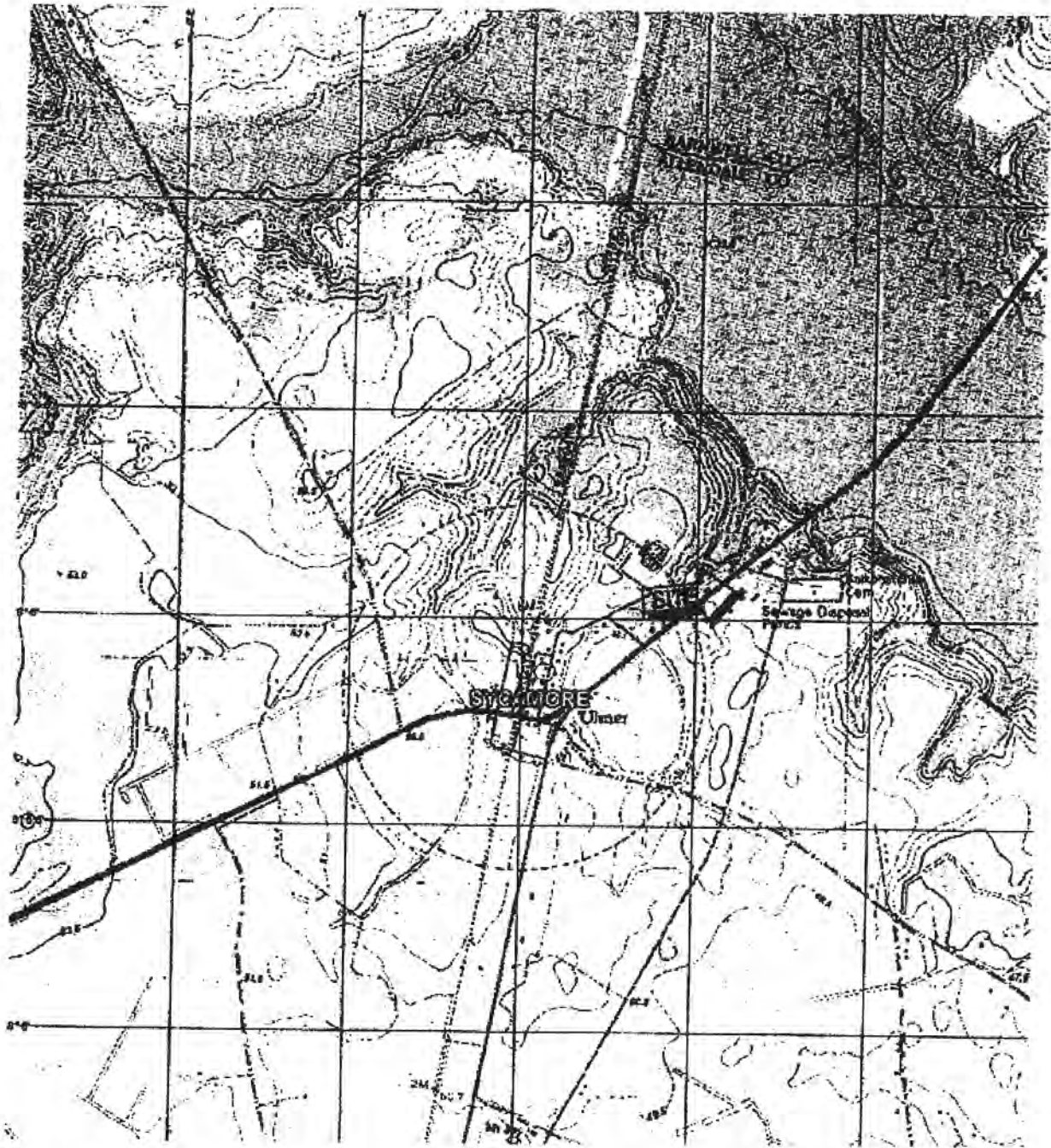
**Facility Name:** Interstate Truck Terminal

**UST Permit #:** 00332

**Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$1.00	\$1.00
B1. Tax Map		each	\$1.00	\$0.00
C1. QAPP Appendix B		each	\$1.00	\$0.00
<b>2. A1. Receptor Survey</b>		each	\$1.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$1.00	\$2.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	6	per well	\$36.50	\$219.00
B1. Air or Vapors		samples	\$1.00	\$0.00
C1. Water Supply	1	samples	\$18.00	\$18.00
D1. Groundwater No Purge or Duplicate	22	per well	\$27.50	\$605.00
E1. Gauge Well only		per well	\$1.00	\$0.00
F1. Sample Below Product		per well	\$1.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	2	each	\$1.00	\$2.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	300	gallons	\$1.00	\$300.00
BB. Free Product		gallons	\$0.05	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
<b>23. D. Site Reconnaissance</b>	1	each	\$1.00	\$1.00
<b>18. Miscellaneous</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Data Table		each	\$50.00	\$0.00
Low Flow Sampling		per well	\$55.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$50.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$50.00	\$0.00
D1. Replace Well Vault		each	\$50.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts	8	each	\$2.60	\$20.80
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$1,168.80</b>

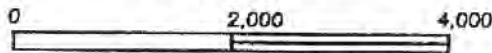
\*The appropriate mobilization cost can be added to complete these tasks, as necessary



REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP. 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

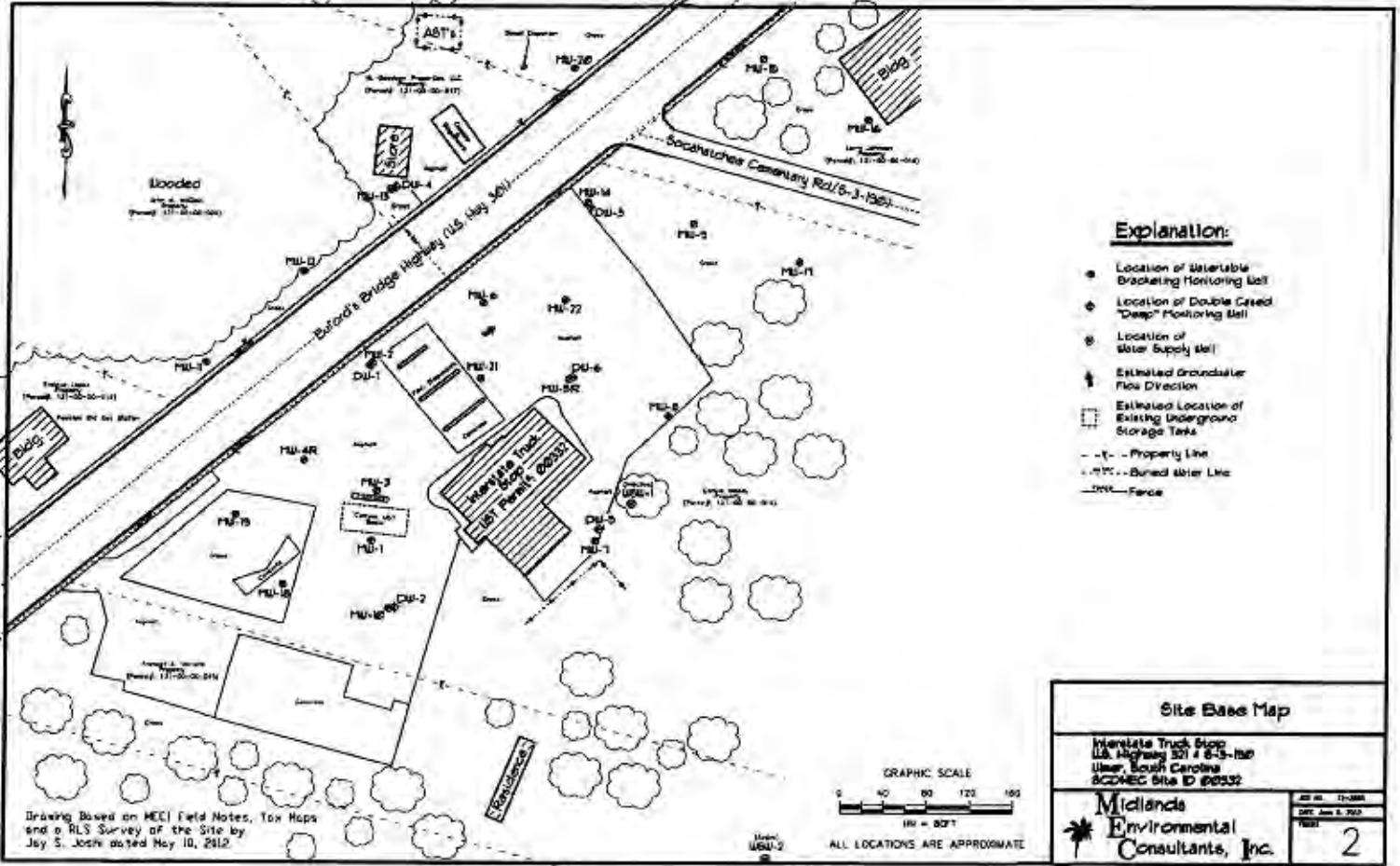
FIGURE 1  
SITE LOCATION MAP

CONSULTECH ENVIRONMENTAL, INC.



Environmental Consulting  
and Engineering  
© 1998

Delivering innovative solutions to today's environmental concerns



**Explanation:**

- Location of Meterable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ➔ Estimated Groundwater Flow Direction
- ▭ Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- - - - - Bored Water Line
- - - - - Fence

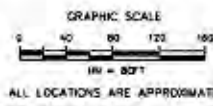
**Site Base Map**

Interstate Truck Stop  
 US Highway 301 & S-3-135  
 Ulmer, South Carolina  
 SCDEC Site ID #20532

**Midlands Environmental Consultants, Inc.**

REV. NO.	17-2000
DATE	June 8, 2001
FIG. NO.	2

Drawing Based on MECI Field Notes, Top Maps and a RLS Survey of the Site by Jay S. Joehs dated May 10, 2002





**AUG 09 2018**



MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC29071

Re: Notice to Proceed-Site Specific Work Plan Approval  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906, PO #4600640194  
Interstate Truck Terminal, Hwy 301 & Hwy 321, Ulmer, SC  
UST Permit #00332; MECI CA #57751; Pace CA #57752  
Allendale County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400012906 and the Underground Storage Tank (UST) Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved QAPP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

Services at the site are to be performed on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. Please coordinate access to the facility with the property owner. DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All Investigation-Derived Waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

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



If you have any site-specific questions, please contact me at (803) 898-0610 or via e-mail at heinzecw@dhec.sc.gov. If you have any contract specific questions, please contact Robert Dunn by phone (803) 898-0671 or email dunnra@dhec.sc.gov.

Sincerely,



Cody Heinze, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc:Approved Cost Agreement (both CAs)

Cc: Trey Carter, Pace Analytical Services, 9800 Kinsey Ave, Ste 100, Huntersville, NC, 28078  
(w/CA)

Technical File (w/ Enc)

**Approved Cost Agreement 57751**

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

HEINZECW

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1.0000	\$1.000	1.00
04 MOB/DEMOB		B1 PERSONNEL	2.0000	\$1.000	2.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	6.0000	\$36.500	219.00
		C1 WATER SUPPLY	1.0000	\$18.000	18.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	22.0000	\$27.500	605.00
		H1 FIELD BLANK	2.0000	\$1.000	2.00
17 DISPOSAL		AA WASTEWATER	300.0000	\$1.000	300.00
23 EFR		D SITE RECONNAISSANCE	1.0000	\$1.000	1.00
25 WELL REPAIR		F1 REPLACE WELL COVER BOLTS	8.0000	\$2.600	20.80
<b>Total Amount</b>					<b>1,168.80</b>

# Approved Cost Agreement 57752

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

HEINZECW

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	32.0000	\$21.000	672.00
		F1 EDB BY 8011	31.0000	\$18.000	558.00
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	4.0000	\$36.000	144.00
		M 7-OXYGENATES & ETHANOL (8260B)	4.0000	\$13.000	52.00
		N EDB (504.1)	3.0000	\$18.000	54.00
		<b>Total Amount</b>			<b>1,480.00</b>

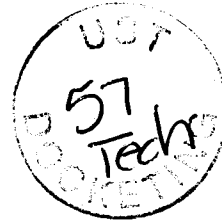


# Midlands Environmental Consultants, Inc.



August 31, 2018

Mr. Robert A. Dunn, Hydrogeologist  
 Corrective Action Section  
 Underground Storage Tank Program  
 Bureau of Land and Waste Management  
 South Carolina Department of Health  
 and Environmental Control  
 2600 Bull Street  
 Columbia, South Carolina 29201



Subject: Report of Groundwater Sampling  
 Interstate Truck Terminal  
 Highway 301 & 321  
 Ulmer, South Carolina  
 SCDHEC Site ID Number 00332; CA # 57751  
 MECI Project Number 18-6534  
 Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

## PROJECT INFORMATION

The subject site (Interstate Truck Terminal) is located near the intersection of Highway 301 & Highway 321 in Ulmer, Allendale County, South Carolina. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	8,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
2	8,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
3	8,000 Gal. Gasoline	In Ground	Rendered Non-Usable
4	6,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
5	6,000 Gal. Gasoline	In Ground	Rendered Non-Usable
6	6,000 Gal. Gasoline	In Ground	Rendered Non-Usable
7	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
8	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
9	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in June of 2002. This release was confirmed in October of 2002, and the release has been ranked a class 2BB due to water supply wells being located within 1,000' feet of the site.

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

### MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On August 29, 2018, MECI personnel collected groundwater samples from twenty-five (25) monitoring wells and one (1) water supply well at the subject site. Monitoring well MW-21 was found to contain 0.03' of free phase petroleum product. In addition, monitoring well MW-16 was gauged and determined to be dry, and monitoring well MW-11 was unable to be located. Based on a request from SCDHEC, only monitoring wells with screens not bracketing the water table were to be purged prior to sample collection. Ten (10) monitoring wells were purged prior to sampling.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1		X					X	X	X	X			
MW-2		X					X	X	X	X			
MW-3		X					X	X	X	X			
MW-4R	X						X	X	X	X			
MW-5R		X					X	X	X	X			
MW-6		X					X	X	X	X			
MW-7		X					X	X	X	X			
MW-8		X					X	X	X	X			
MW-9		X					X	X	X	X			
MW-10		X					X	X	X	X			
MW-11						X							
MW-12	X						X	X	X	X			
MW-13	X						X	X	X	X			
MW-14	X						X	X	X	X			

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide


Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
Mw-15		X					X	X	X	X			
MW-16			X										
MW-17		X					X	X	X	X			
MW-18		X					X	X	X	X			
MW-19		X					X	X	X	X			
MW-20		X					X	X	X	X			
MW-21					X		X	X	X	X			
MW-22		X					X	X	X	X			
DW-1	X						X	X	X	X			
DW-2	X						X	X	X	X			
DW-3	X						X	X	X	X			
DW-4	X						X	X	X	X			
DW-5	X						X	X	X	X			
DW-6	X						X	X	X	X			
DUP-1							X	X	X	X			
DUP-2							X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank							X		X	X			
WSW-1					X								
WSW-2										X		X	X
WSW-DUP										X		X	X
Field Blank										X		X	X
Trip Blank										X		X	X


Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 140.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

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

Sincerely,  
 Midlands Environmental Consultants, Inc.

  
 Bryce P. Garner  
 Staff Hydrogeologist

  
 Jeff H. Coleman  
 Senior Scientist

Attachments:

**Contractor Checklist**

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?			X
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

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



**Site Activity Summary**

UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: B. Garner, C. Phillips, J. Coolman



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-1	Y	8/29/18	14:50	25-35	***	25.90	***	4.03	0.00	No Odor
MW-2	Y	8/29/18	14:20	25-35	***	25.82	***	3.81	0.00	Odor
MW-3	Y	8/29/18	13:30	24-34	***	26.23	***	1.95	0.00	Strong Odor
MW-4R	Y	8/29/18	15:10	25-35	***	24.4	***	2.71	9.00	Odor
MW-5R	Y	8/29/18	13:10	25-35	***	28.42	***	0.19	0.00	Odor
MW-6	Y	8/29/18	13:20	25-35	***	25.75	***	2.10	0.00	Odor
MW-7	Y	8/29/18	11:50	25-35	***	28.51	***	5.94	0.00	No Odor
MW-8	Y	8/29/18	12:00	25-35	***	27.63	***	6.82	0.00	No Odor
MW-9	Y	8/29/18	10:50	25-35	***	25.39	***	2.02	0.00	No Odor
MW-10	Y	8/29/18	14:45	25-35	***	25.09	***	5.19	0.00	No Odor
MW-11	N	8/29/18	NL	25-35	***	NL	***	NL	0.00	Not Located
MW-12	Y	8/29/18	11:40	25-35	***	23.10	***	4.02	10.00	No Odor
MW-13	Y	8/29/18	11:05	25-35	***	24.05	***	6.32	9.00	No Odor
MW-14	Y	8/29/18	10:20	25-35	***	24.58	***	3.65	8.50	Odor
MW-15	Y	8/29/18	10:15	15-35	***	24.89	***	4.60	0.00	No Odor
									36.50	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**



**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Terminal  
**County:** Allendale  
**Field Personnel:** B. Garner, C. Phillips, J. Coolman

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-16	N	8/29/18	DRY	15-35	***	DRY	***	DRY	DRY	Guaged Dry; TD: 24.40' BTOC
MW-17	Y	8/29/18	10:30	15-35	***	26.30	***	5.75	0.00	No Odor
MW-18	Y	8/29/18	14:55	15-35	***	22.03	***	4.63	0.00	No Odor
MW-19	Y	8/29/18	15:00	15-35	***	22.84	***	3.84	0.00	Odor
MW-20	Y	8/29/18	10:20	15-35	***	24.10	***	5.64	0.00	No Odor
MW-21	N	8/29/18	PROD	25-35	27.77	27.80	0.03	PROD	0.00	0.03' Free Phase Petroleum Product
MW-22	Y	8/29/18	13:15	25-35	***	26.44	***	1.54	0.00	Odor
DW-1	Y	8/29/18	14:15	65-70	***	27.29	***	1.98	13.00	No Odor
DW-2	Y	8/29/18	14:40	65-70	***	26.95	***	6.04	13.00	No Odor
DW-3	Y	8/29/18	10:45	65-70	***	26.35	***	4.02	12.00	No Odor
DW-4	Y	8/29/18	11:25	65-70	***	25.85	***	4.37	16.00	No Odor
DW-5	Y	8/29/18	12:20	80-85	***	26.75	***	6.44	20.00	No Odor
DW-6	Y	8/29/18	13:05	80-85	***	29.34	***	5.53	30.00	No Odor
DUP-1	Y	8/29/18	13:30	***	***	***	***	***	***	Duplicate sample of MW-3
DUP-2	Y	8/29/18	14:20	***	***	***	***	***	***	Duplicate sample of MW-2
									104.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Terminal  
**County:** Allendale  
**Field Personnel:** B. Garner, C. Phillips, J. Coolman



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
Field Blank	Y	8/29/18	15:10	***	***	***	***	***	***	Field Blank
Trip Blank	Y	8/29/18	15:11	***	***	***	***	***	***	Trip Blank
WSW-1	N	8/29/18	NS	***	***	***	***	***	***	NS=Not Sampled; Well has been Removed
WSW-2	Y	8/29/18	14:50	***	***	***	***	***	***	1224 Buford's Bridge Highway; Sample collected from spigot in front yard
WSW-DUP	Y	8/29/18	14:50	***	***	***	***	***	***	Duplicate sample of WSW-2
Field Blank	Y	8/29/18	15:12	***	***	***	***	***	***	Field Blank-WSW
Trip Blank	Y	8/29/18	15:12	***	***	***	***	***	***	Trip Blank-WSW
									0.00	<b>TOTAL GALLONS PURGED</b>



# Monitoring Well Purge And Sampling Data

Field Personnel: BG, CP, JC  
 Sampling Date(s): 8/29/18  
 Sampling Case#: 2

Job Name: Interstate Truck Terminal  
 Job Number: 18-6534

Calibration Data for:  
 Calibration Successful: Yes (Please Circle)  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	Final H <sub>2</sub> O			**calc.	actual	
MW-1	Initial	14:50	5.10	85.2	23.9	4.03	20.61				25-35				No Purge No Odor
	1st										25.90				
	2nd														
	3rd														
	4th														
	5th														
Sampling															
MW-2	Initial	14:20	5.47	177.5	24.1	3.81	17.51				25-35				No Purge Odor Dup 2
	1st										25.82				
	2nd														
	3rd														
	4th														
	5th														
Sampling															
MW-3	Initial	13:30	5.90	81.8	24.5	19.5	25.74				24-34				No Purge Odor Strong Dup 1
	1st										26.23				
	2nd														
	3rd														
	4th														
	5th														
Sampling						2.71									
MW-4R	Initial	15:05	5.77	102.3	24.8	2.78	21.15				25-35				Odor
	1st	15:06	5.70	97.5	24.1	2.64	27.02				24.40		1.73	9	
	2nd	15:07	5.64	90.7	23.8	2.56	34.10								
	3rd	15:08	5.60	87.6	23.6	2.53	39.74								
	4th	15:09	5.57	84.0	23.5	2.47	46.51								
	5th	15:10	5.56	83.7	23.4	2.45	49.33						8.64		
Sampling															

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

## Monitoring Well Purge And Sampling Data

Field Personnel: BG, CP, JC  
 Sampling Date(s): 8/29/18  
 Sampling Case#: 2

Job Name: Interstate Truck Terminal  
 Job Number: 18-6534

Calibration Data for: 2  
 Calibration Successful? Yes or No (Please Circle) No  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-5R	Initial	13:10	5.47	127.5	23.1	0.19	19.74				25-35	—	—	—	No Purge Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
Sampling															
MW-6	Initial	13:20	9.75	108.7	24.1	2.10	26.11				25-35	✓	—	—	No Purge Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
Sampling															
MW-7	Initial	11:50	4.53	75.4	22.4	3.94	19.04				25-35	✓	—	—	No Purge No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
Sampling															
MW-8	Initial	12:00	5.28	53.6	22.0	6.32	22.57				25-35	✓	—	—	No Purge No Odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
Sampling															

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x .047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



# Monitoring Well Purge And Sampling Data

Field Personnel: BG, CP, JC  
 Sampling Date(s): 8/29/18  
 Sampling Case#: 2

Job Name: Interstate Truck Terminal  
 Job Number: 18-6534

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-9	Initial	10:50	5.88	93.2	23.2	2.02	17.35				25-35	—	—	—	No Purge No Odor
	1st										25.39				
	2nd														
	3rd														
	4th														
	5th														
MW-10	Initial	11:45	5.46	91.8	23.3	5.19	17.84				25-35	—	—	—	No Purge No Odor
	1st										25.09				
	2nd														
	3rd														
	4th														
	5th														
MW-11	Initial										25-35				Not Isolated Metal detector used
	1st														
	2nd														
	3rd														
	4th														
	5th														
MW-12	Initial	11:30	4.68	90.1	22.4	4.02	19.84				25-35	11.90	1.94	10	No Odor
	1st	11:32	4.61	84.7	22.0	3.86	23.05				23.10				
	2nd	11:34	4.56	80.9	21.9	3.77	21.19								
	3rd	11:36	4.55	76.2	21.7	3.70	23.75								
	4th	11:38	4.53	70.5	21.6	3.68	27.22								
	5th	11:40	4.50	67.1	21.5	3.67	40.52								
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x .047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Pt/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

## Monitoring Well Purge And Sampling Data

Field Personnel: AG, CP, JC  
 Sampling Date(s): 8/29/18  
 Sampling Case#: 2

Job Name: Interstate Truck Terminal  
 Job Number: 18-6534

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-13	Initial	11:00	5.06	43.8	21.7	6.32	23.65	24.05		25-35	10.95	1.78	9	No Odor	
	1st	11:01	5.02	40.2	21.5	6.15	22.04								
	2nd	11:02	4.95	38.7	21.4	5.90	22.42								
	3rd	11:03	4.93	35.1	21.3	5.84	22.84								
	4th	11:04	4.90	33.3	21.1	5.80	23.71								
	5th	11:05	4.88	31.6	21.0	5.75	24.34								
Sampling															
MW-14	Initial	10:15	5.79	121.3	24.0	3.65	19.07	24.58		25-35	10.42	1.70	8.5	Odor	
	1st	10:16	5.67	114.0	23.7	3.57	17.21								
	2nd	10:17	5.60	109.9	23.6	3.50	35.57								
	3rd	10:18	5.58	97.6	23.5	3.46	39.44								
	4th	10:19	5.52	93.2	23.4	3.41	48.97								
	5th	10:20	5.50	90.9	23.3	3.37	51.56								
Sampling															
MW-15	Initial	10:15	6.70	37.4	23.1	4.60	16.55	24.89		15-35	-	-	-	No Purge No Odor	
	1st														
	2nd														
	3rd														
	4th														
	5th														
Sampling															
MW-16	Initial									15-35					
	1st														
	2nd														
	3rd														
	4th														
	5th														
Sampling															

\*= (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

## Monitoring Well Purge And Sampling Data

Field Personnel: BG, CP, JC  
 Sampling Date(s): 8/29/18  
 Sampling Case#: 2

Job Name: Interstate Truck Terminal  
 Job Number: 18-6534

Calibration Data for  
 Calibration Successful: Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-17	Initial	10:30	5.43	49.3	21.7	5.79	19.02								No Purge No Odor
	1st														
	2nd								26.30		15-35				
	3rd														
	4th														
	5th														
	Sampling														
MW-18	Initial	14:55	4.90	45.1	23.0	4.63	26.57								No Purge No Odor
	1st														
	2nd								22.03		15-35				
	3rd														
	4th														
	5th														
	Sampling														
MW-19	Initial	15:00	5.34	57.9	23.5	3.74	27.95								No Purge Odor
	1st														
	2nd								22.84		15-35				
	3rd														
	4th														
	5th														
	Sampling														
MW-20	Initial	10:20	5.82	73.1	22.8	5.64	23.04								No Purge No Odor
	1st														
	2nd								27.10		15-35				
	3rd														
	4th														
	5th														
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



# Monitoring Well Purge And Sampling Data

Field Personnel: BG, CP, JC  
 Sampling Date(s): 8/29/18  
 Sampling Case#: 2

Job Name: Interstate Truck Terminal  
 Job Number: 18-6534

Calibration Data for:  
 Calibration Successful: Yes Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-21	Initial	<del>12:25</del>													
	1st														
	2nd		0.03'	Product				27.77	27.80		25-35				
	3rd														
	4th														
	5th														
	Sampling														No Sample
MW-22	Initial	13:15	5.58	69.5	24.1	1.54	16.34								
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														No Purge Odor
DW-1	Initial	13:20	5.39	95.4	23.2	1.98	2.74								
	1st	13:27	5.23	92.3	23.0	1.90	25.19								
	2nd	14:04	5.17	80.1	22.7	1.79	35.41								
	3rd														
	4th														
	5th														
	Sampling	14:15	5.10	85.8	22.6	1.71	32.57								No Odor
DW-2	Initial	14:20	5.95	100.7	22.6	6.04	15.96								
	1st	14:27	5.46	95.3	21.3	5.90	24.26								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	14:50	5.40	92.5	22.1	5.84	21.04								No Odor

\* = (Depth of Well) - (Depth to Water = Water Height)  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



# Monitoring Well Purge And Sampling Data

Field Personnel: BO, CP, JC  
 Sampling Date(s): 8/29/18  
 Sampling Case#: 2

Job Name: Interstate Truck Terminal  
 Job Number: 18-6534

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
DW-3	Initial	10:25	5.70	174.7	23.8	4.02	21.05								
	1st	10:32	5.60	120.1	23.6	3.92	20.14								
	2nd														
	3rd														
	4th														
	5th														
	Sampling	10:45	5.53	113.5	23.5	3.84	34.65								
DW-4	Initial	11:00	5.76	15.6	21.9	4.37	19.37								
	1st	11:07	5.71	107.3	20.8	4.25	24.19								
	2nd	11:14	5.87	101.4	20.5	4.26	35.02								
	3rd														
	4th														
	5th														
	Sampling	11:25	5.58	95.1	20.4	4.16	31.32								
DW-5	Initial	11:50	5.46	121.0	22.2	6.44	15.59								
	1st	11:59	5.38	96.7	21.9	6.37	26.25								
	2nd	12:08	5.32	91.5	21.6	6.32	32.14								
	3rd														
	4th														
	5th														
	Sampling	12:20	5.26	82.8	21.0	6.28	39.04								
DW-6	Initial	12:25	5.03	71.9	22.3	5.53	12.73								
	1st	12:34	4.96	68.4	22.0	5.38	19.64								
	2nd	12:43	4.90	65.2	21.2	5.29	27.04								
	3rd	12:52	4.84	62.8	20.8	5.21	34.51								
	4th														
	5th														
	Sampling	13:05	4.80	60.5	20.5	5.14	30.70								

\*= (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Pb/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: BG, CP, JC  
 Sampling Date(s): 8/29/18  
 Sampling Case#: 2

Job Name: Interstate Truck Terminal  
 Job Number: 18-6534

Calibration Data for:  
 Calibration Successful? Yes Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
Dup	Initial														
	1st	Dup 1	MW-3		13:30										
	2nd														
	3rd	Dup 2	MW-2		14:20										
	4th														
	5th														
Blanks	Initial														
	1st	Field Blank			15:10										
	2nd														
	3rd	Trip Blank			15:11										
	4th														
	5th														
WSWs	Initial														
	1st	WSW-1			Well has been removed										
	2nd														
	3rd														
	4th	WSW-2			Sp. got on house	14:50									
	5th				180ft deep										
Dup	Initial														
	1st														
	2nd														
	3rd	WSW-2 @			14:50										
	4th														
	5th														

\*= (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

## Monitoring Well Purge And Sampling Data

Field Personnel: BG, CP, JC  
 Sampling Date(s): 8/27/18  
 Sampling Case#: \_\_\_\_\_

Job Name: Interstate Truck Terminal  
 Job Number: 18-6534

Calibration Data for :  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
WSW Blanks	Initial														
	1st	Field Blank 15:12													
	2nd	Trip Blank 15:12													
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

\*= (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 of 3  
**2269175**

**Section A**  
Required Client Information:

Company: EDHEC

Address: 2500 Bull St  
Columbia, SC 29201

Email To: sample@edhec.com

Phone: 803 998 0671 Fax: \_\_\_\_\_

Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
Required Project Information:

Report To: DEAN

Copy To: \_\_\_\_\_

Purchase Order No.: \_\_\_\_\_

Project Name: Interstate Tank Terminal

Project Number: INT-00332/APAC1-57752

**Section C**  
Invoice Information:

Attention: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Pace Quote Reference: \_\_\_\_\_

Pace Project Manager: T. Carter

Pace Profile #: \_\_\_\_\_

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Site Location: SC Allendale

STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE		COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)		
		DW	WT	COMPOSITE START	COMPOSITE END/GRAB	Unpreserved	H <sub>2</sub> SO <sub>4</sub>			HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other																	
		WW	P	DATE	TIME	DATE	TIME																									
		Product	Soil/Solid	DATE	TIME	DATE	TIME																									
1	DW-3			8/27/18	10:45			6																								
2	DW-4				11:15																											
3	DW-5				11:20																											
4	DW-6				13:05																											
5	DW-1				15:30																											
6	DW-2				15:20																											
7	Field Blank				15:10			6																								
8	Tap Blank			8/29/18	15:11			2		X										X	X											
9																																
10																																
11																																
12																																

Pace Project No./ Lab I.D.

No Odor  
No Odor  
No Odor  
No Odor  
Slight Odor  
No Odor  
FB

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS		
		Calvin Phillips		8/29/18	17:00							

2

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Calvin Phillips

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): 8/29/18

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

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



# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: <u>2</u> of <u>3</u>	
Company: <u>COLLEC</u>		Report To: <u>P. Dunn</u>		Attention:		2269177	
Address: <u>2600 Bell St</u>		Copy To:		Company Name:		REGULATORY AGENCY	
City/State: <u>Columbia, SC 29201</u>		Purchase Order No.:		Address:			
Email To: <u>XXXXXX@other.com</u>		Project Name: <u>Interstate Truck Terminal</u>		Pace Quote Reference:		Site Location	
Phone: <u>803-898-0671</u> Fax:		Project Number: <u>WT-00330 / AIR-57752</u>		Pace Project Manager: <u>T Carter</u>		STATE: <u>SC</u> <u>Allendale</u>	
Requested Due Date/TAT:				Pace Profile #:			

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other					
					DATE	TIME	DATE	TIME															
1	MIW-15	DW	WT	G			5/29/18	11:05	6				X					X	X	X		No Odor	
2	MIW-16	WW	WT	G			5/29/18	10:20	6				X					X	X	X		Odor	
3	MIW-15	P	WT	G			5/29/18	10:15	6				X					X	X	X		No Odor	
4	MIW-16	SL	WT	G			5/29/18	10:15	6				X					X	X	X		No Odor	
5	MIW-17	OL	WT	G			5/29/18	10:30	6				X					X	X	X		No Sample	
6	MIW-18	WP	WT	G			5/29/18	14:55	6				X					X	X	X		No Odor	
7	MIW-19	AR	WT	G			5/29/18	15:00	6				X					X	X	X		Odor	
8	MIW-20	TS	WT	G			5/29/18	0:20	6				X					X	X	X		No Odor	
9	MIW-21	OT																				No Sample	
10	MIW-22		WT	G			5/29/18	13:15	6				X					X	X	X		Odor	
11	MIW DW-1		WT	G			5/29/18	14:15	6				X					X	X	X		No Odor	
12	DW-2		WT	G			5/29/18	14:40	6				X					X	X	X		No Odor	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	C. Phillips	5/29/18	17:00				

2

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>C. Phillips</u>	SIGNATURE of SAMPLER: <u>C. Phillips</u>				
		DATE Signed (MM/DD/YY): <u>5/29/18</u>			

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

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

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 1 of 3	
Company: <u>CEVEC</u>		Report To: <u>R. Dunn</u>		Attention:		<b>2269176</b>	
Address: <u>2600 R. II St</u>		Copy To:		Company Name:			
<u>Columbia, SC 29201</u>				Address:		<b>REGULATORY AGENCY</b>	
Email To: <u>Dunn@cevec.com</u>		Purchase Order No.:		Pace Quote Reference:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	
Phone: <u>803-738-0671</u> Fax:		Project Name: <u>Interstate Truck Terminal</u>		Pace Project Manager: <u>T. Colter</u>		<input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Requested Due Date/TAT:		Project Number: <u>URG-00332/PACE-57752</u>		Pace Profile #:		Site Location: <u>SC Allendale</u>	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.			
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol					Other		
					DATE	TIME	DATE	TIME																
1	MW-1		WT	G				7/29/18	14:50	6														
2	MW-2								14:20	1														No Odor
3	MW-3								5:50	1														Odor
4	MW-4 R								5:10	1														Strong Odor
5	MW-5 R								13:10	1														Odor
6	MW-6								13:10	1														Odor
7	MW-7								11:50	1														No Odor
8	MW-8								12:20	1														No Odor
9	MW-9								10:50	1														No Odor
10	MW-10		WT	G				8/29/18	14:45	6			X											No Odor
11	MW-11									1														No Odor
12	MW-12		WT	G				8/29/18	11:40	6			X											No sample

	<b>ADDITIONAL COMMENTS</b>	<b>RELINQUISHED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>ACCEPTED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>SAMPLE CONDITIONS</b>																
		<u>Colin Phillips</u>	8/29/18	17:00																				

2

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Colin Phillips</u>					
SIGNATURE of SAMPLER: <u>Colin Phillips</u>					
DATE Signed (MM/DD/YY): <u>8/29/18</u>					

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

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

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

**Section A**

**Required Client Information:**  
 Company: SCHEC  
 Address: 2500 Ball St  
Columbia SC 29201  
 Email To: anna@schec.sc.gov  
 Phone: 803 598 0671 Fax:  
 Requested Due Date/TAT:

**Section B**

**Required Project Information:**  
 Report To: Dunn  
 Copy To:  
 Purchase Order No.:  
 Project Name: Tobacco Trust Terminal  
 Project Number: 17-0033/AFCE-47752

**Section C**

**Invoice Information:**  
 Attention:  
 Company Name:  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager: T. Carter  
 Pace Profile #:

Page: \_\_\_\_\_ of \_\_\_\_\_  
**2192816**

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

ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ (Y/N)	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	1	2	3	4	5	6	7	8	9		
1	WSP-1																													
2	WSP-2		WTG			8/29/18	14:50		9		X	X						X	X	X								No Sample		
3	Dup 1		WTG			8/29/18	14:50		9		X	X						X	X	X								COL'S		
4	Field Blank		WTG			8/29/18	15:17		9		X	X						X	X	X								COL'S		
5	Lab Blank		WTG			8/29/18	15:17		6		X							X	X									FB		
6																													LB	
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	<u>Carol Keller</u>	<u>8/29/18</u>	<u>17:00</u>						

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: COLUMBIA  
 SIGNATURE of SAMPLER: Carol Keller  
 DATE Signed (MM/DD/YY): 8/29/18  
 Temp in °C \_\_\_\_\_  
 Received on Ice (Y/N) \_\_\_\_\_  
 Custody Sealed Cooler (Y/N) \_\_\_\_\_  
 Samples Intact (Y/N) \_\_\_\_\_

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





August 31, 2018

Re: Treatment of Purge Water  
Interstate Truck Terminal  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 18-6534

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.


All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

**A total of 140.50 gallons were treated on August 29, 2018 at the referenced site.**

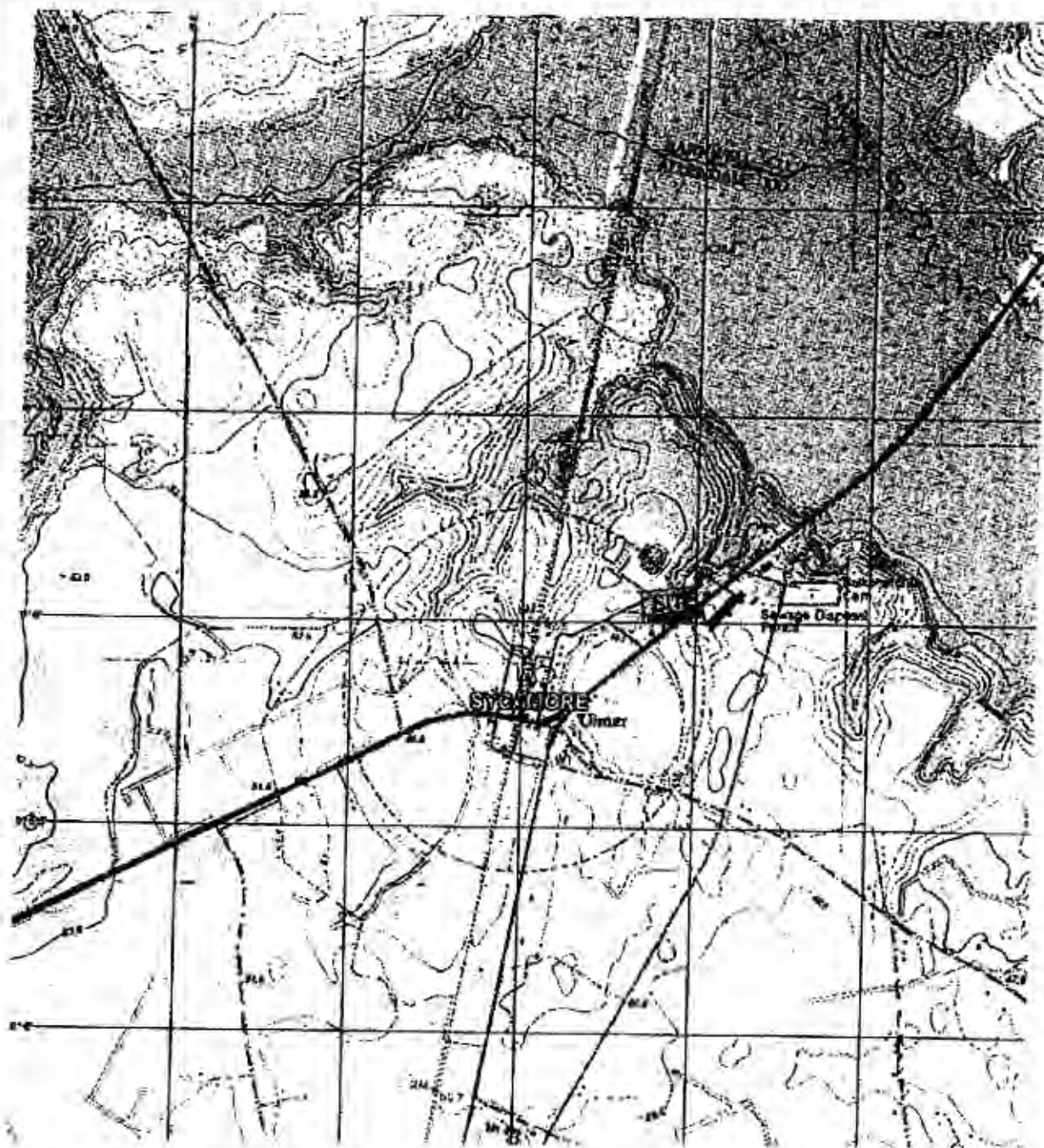
Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.



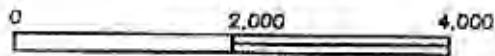
Bryce P. Garner  
Staff Hydrogeologist



REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

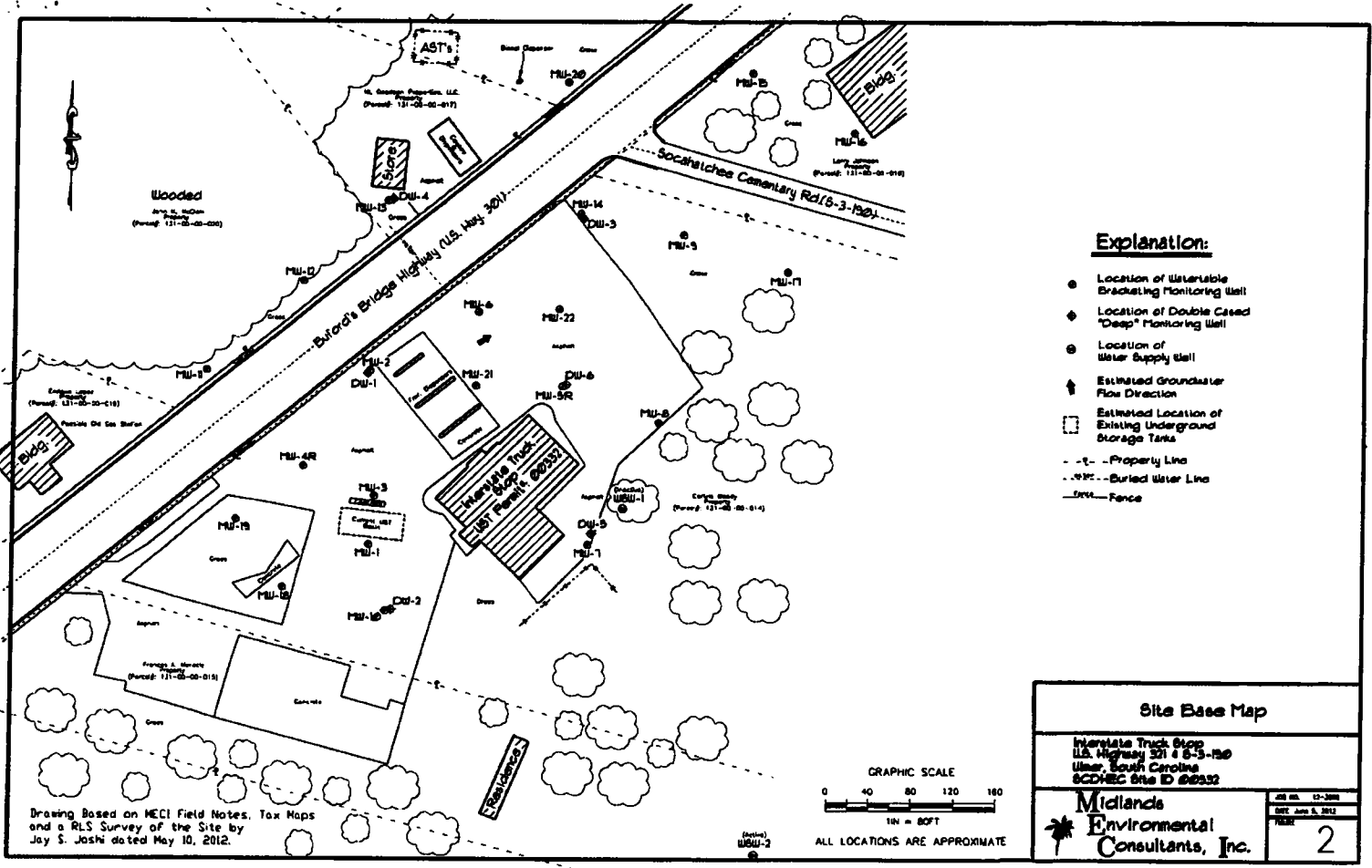
FIGURE 1  
SITE LOCATION MAP

CONSULTECH ENVIRONMENTAL, INC.



Environmental Consulting  
and Engineering  
© 1998

Integrating Innovative Solutions to Society's Environmental Concerns



**Explanation:**

- Location of Waterable Bracketing Monitoring Well
- ◆ Location of Double Cased "Deep" Monitoring Well
- Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- - - Buried Water Line
- - - Fence

<b>Site Base Map</b>	
Interstate Truck Stop U.S. Highway 301 & S-3-150 Waver, South Carolina SCDEC Site ID #2032	
 <b>Midlands Environmental Consultants, Inc.</b>	JOB NO. 12-2008 DATE June 6, 2012 DRAWING <div style="font-size: 2em; font-weight: bold;">2</div>

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.

GRAPHIC SCALE  
 0 40 80 120 160  
 1" = 80 FT  
 ALL LOCATIONS ARE APPROXIMATE



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

September 07, 2018

Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on August 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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without the written consent of Pace Analytical Services, LLC.



## CERTIFICATIONS

Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

---

### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

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

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92397787001	MW-1	Water	08/29/18 14:50	08/30/18 12:03
92397787002	MW-2	Water	08/29/18 14:20	08/30/18 12:03
92397787003	MW-3	Water	08/29/18 13:30	08/30/18 12:03
92397787004	MW-4R	Water	08/29/18 15:10	08/30/18 12:03
92397787005	MW-5R	Water	08/29/18 13:10	08/30/18 12:03
92397787006	MW-6	Water	08/29/18 13:20	08/30/18 12:03
92397787007	MW-7	Water	08/29/18 11:50	08/30/18 12:03
92397787008	MW-8	Water	08/29/18 12:00	08/30/18 12:03
92397787009	MW-9	Water	08/29/18 10:50	08/30/18 12:03
92397787010	MW-10	Water	08/29/18 14:45	08/30/18 12:03
92397787011	MW-12	Water	08/29/18 11:40	08/30/18 12:03
92397787012	MW-13	Water	08/29/18 11:05	08/30/18 12:03
92397787013	MW-14	Water	08/29/18 10:20	08/30/18 12:03
92397787014	MW-15	Water	08/29/18 10:15	08/30/18 12:03
92397787015	MW-17	Water	08/29/18 10:30	08/30/18 12:03
92397787016	MW-18	Water	08/29/18 14:55	08/30/18 12:03
92397787017	MW-19	Water	08/29/18 15:00	08/30/18 12:03
92397787018	MW-20	Water	08/29/18 10:20	08/30/18 12:03
92397787019	MW-22	Water	08/29/18 13:15	08/30/18 12:03
92397787020	DW-1	Water	08/29/18 14:15	08/30/18 12:03
92397787021	DW-2	Water	08/29/18 14:40	08/30/18 12:03
92397787022	DW-3	Water	08/29/18 10:45	08/30/18 12:03
92397787023	DW-4	Water	08/29/18 11:25	08/30/18 12:03
92397787024	DW-5	Water	08/29/18 12:20	08/30/18 12:03
92397787025	DW-6	Water	08/29/18 13:05	08/30/18 12:03
92397787026	DUP 1	Water	08/29/18 13:30	08/30/18 12:03
92397787027	DUP 2	Water	08/29/18 14:20	08/30/18 12:03
92397787028	FIELD BLANK	Water	08/29/18 15:10	08/30/18 12:03
92397787029	TRIP BLANK	Water	08/29/18 15:11	08/30/18 12:03

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92397787001	MW-1	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787002	MW-2	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787003	MW-3	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787004	MW-4R	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787005	MW-5R	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787006	MW-6	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787007	MW-7	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787008	MW-8	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787009	MW-9	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787010	MW-10	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787011	MW-12	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787012	MW-13	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787013	MW-14	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787014	MW-15	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787015	MW-17	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787016	MW-18	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787017	MW-19	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787018	MW-20	EPA 8011	SEM	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92397787019	MW-22	EPA 8011	SEM	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92397787020	DW-1	EPA 8260B	SAS	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92397787021	DW-2	EPA 8260B	SAS	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92397787022	DW-3	EPA 8260B	SAS	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92397787023	DW-4	EPA 8260B	SAS	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92397787024	DW-5	EPA 8260B	SAS	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92397787025	DW-6	EPA 8260B	SAS	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92397787026	DUP 1	EPA 8260B	SAS	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92397787027	DUP 2	EPA 8260B	SAS	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92397787028	FIELD BLANK	EPA 8260B	GAW	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92397787029	TRIP BLANK	EPA 8260B	SAS	20	PASI-C
		EPA 8260B	SAS	20	PASI-C

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### SUMMARY OF DETECTION

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92397787002</b>	<b>MW-2</b>					
EPA 8260B	Ethylbenzene	1110	ug/L	62.5	09/05/18 07:33	
EPA 8260B	Naphthalene	177	ug/L	62.5	09/05/18 07:33	
EPA 8260B	Toluene	490	ug/L	62.5	09/05/18 07:33	
EPA 8260B	Xylene (Total)	3780	ug/L	62.5	09/05/18 07:33	
EPA 8260B	m&p-Xylene	3780	ug/L	125	09/05/18 07:33	
EPA 8260B	o-Xylene	47.0J	ug/L	62.5	09/05/18 07:33	
<b>92397787003</b>	<b>MW-3</b>					
EPA 8260B	Ethylbenzene	100	ug/L	5.0	09/04/18 18:30	
EPA 8260B	Naphthalene	24.9	ug/L	5.0	09/04/18 18:30	
EPA 8260B	Xylene (Total)	367	ug/L	5.0	09/04/18 18:30	
EPA 8260B	m&p-Xylene	348	ug/L	10.0	09/04/18 18:30	
EPA 8260B	o-Xylene	19.4	ug/L	5.0	09/04/18 18:30	
<b>92397787004</b>	<b>MW-4R</b>					
EPA 8011	1,2-Dibromoethane (EDB)	0.022	ug/L	0.020	09/06/18 09:29	
EPA 8260B	Ethylbenzene	502	ug/L	50.0	09/05/18 23:02	
EPA 8260B	Naphthalene	51.6	ug/L	50.0	09/05/18 23:02	
EPA 8260B	Toluene	172	ug/L	50.0	09/05/18 23:02	
EPA 8260B	Xylene (Total)	2090	ug/L	50.0	09/05/18 23:02	
EPA 8260B	m&p-Xylene	1850	ug/L	100	09/05/18 23:02	
EPA 8260B	o-Xylene	244	ug/L	50.0	09/05/18 23:02	
<b>92397787005</b>	<b>MW-5R</b>					
EPA 8260B	Ethylbenzene	149	ug/L	10.0	09/04/18 19:41	
EPA 8260B	Naphthalene	142	ug/L	10.0	09/04/18 19:41	
EPA 8260B	Xylene (Total)	590	ug/L	10.0	09/04/18 19:41	
EPA 8260B	m&p-Xylene	514	ug/L	20.0	09/04/18 19:41	
EPA 8260B	o-Xylene	75.5	ug/L	10.0	09/04/18 19:41	
<b>92397787006</b>	<b>MW-6</b>					
EPA 8260B	Benzene	20.4J	ug/L	50.0	09/05/18 06:39	
EPA 8260B	Ethylbenzene	406	ug/L	50.0	09/05/18 06:39	
EPA 8260B	Naphthalene	209	ug/L	50.0	09/05/18 06:39	
EPA 8260B	Toluene	95.8	ug/L	50.0	09/05/18 06:39	
EPA 8260B	Xylene (Total)	1930	ug/L	50.0	09/05/18 06:39	
EPA 8260B	m&p-Xylene	1930	ug/L	100	09/05/18 06:39	
EPA 8260B	o-Xylene	21.0J	ug/L	50.0	09/05/18 06:39	
<b>92397787009</b>	<b>MW-9</b>					
EPA 8260B	Ethylbenzene	82.1	ug/L	12.5	09/04/18 19:59	
EPA 8260B	Naphthalene	145	ug/L	12.5	09/04/18 19:59	
EPA 8260B	Toluene	74.0	ug/L	12.5	09/04/18 19:59	
EPA 8260B	Xylene (Total)	759	ug/L	12.5	09/04/18 19:59	
EPA 8260B	m&p-Xylene	743	ug/L	25.0	09/04/18 19:59	
EPA 8260B	o-Xylene	15.7	ug/L	12.5	09/04/18 19:59	
<b>92397787011</b>	<b>MW-12</b>					
EPA 8260B	Benzene	3.4J	ug/L	5.0	09/04/18 18:48	
EPA 8260B	Naphthalene	5.2	ug/L	5.0	09/04/18 18:48	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92397787011</b>	<b>MW-12</b>					
EPA 8260B	Toluene	2.1J	ug/L	5.0	09/04/18 18:48	
<b>92397787013</b>	<b>MW-14</b>					
EPA 8260B	Ethylbenzene	899	ug/L	62.5	09/05/18 07:51	
EPA 8260B	Naphthalene	116	ug/L	62.5	09/05/18 07:51	
EPA 8260B	Toluene	899	ug/L	62.5	09/05/18 07:51	
EPA 8260B	Xylene (Total)	3380	ug/L	62.5	09/05/18 07:51	
EPA 8260B	m&p-Xylene	3200	ug/L	125	09/05/18 07:51	
EPA 8260B	o-Xylene	171	ug/L	62.5	09/05/18 07:51	
<b>92397787017</b>	<b>MW-19</b>					
EPA 8260B	Ethylbenzene	77.0	ug/L	10.0	09/04/18 19:23	
EPA 8260B	Naphthalene	9.1J	ug/L	10.0	09/04/18 19:23	
EPA 8260B	Toluene	4.1J	ug/L	10.0	09/04/18 19:23	
EPA 8260B	Xylene (Total)	309	ug/L	10.0	09/04/18 19:23	
EPA 8260B	m&p-Xylene	261	ug/L	20.0	09/04/18 19:23	
EPA 8260B	o-Xylene	48.7	ug/L	10.0	09/04/18 19:23	
<b>92397787018</b>	<b>MW-20</b>					
EPA 8260B	Naphthalene	13.0	ug/L	5.0	09/04/18 19:05	
<b>92397787019</b>	<b>MW-22</b>					
EPA 8260B	Ethylbenzene	478	ug/L	25.0	09/05/18 06:04	
EPA 8260B	Naphthalene	197	ug/L	25.0	09/05/18 06:04	
EPA 8260B	Toluene	59.4	ug/L	25.0	09/05/18 06:04	
EPA 8260B	Xylene (Total)	1970	ug/L	25.0	09/05/18 06:04	
EPA 8260B	m&p-Xylene	1870	ug/L	50.0	09/05/18 06:04	
EPA 8260B	o-Xylene	95.9	ug/L	25.0	09/05/18 06:04	
<b>92397787022</b>	<b>DW-3</b>					
EPA 8260B	tert-Amyl Alcohol	128	ug/L	100	09/05/18 02:30	
EPA 8260B	Benzene	12.0	ug/L	5.0	09/05/18 02:30	
EPA 8260B	Ethylbenzene	124	ug/L	5.0	09/05/18 02:30	
EPA 8260B	Naphthalene	54.0	ug/L	5.0	09/05/18 02:30	
EPA 8260B	Toluene	6.9	ug/L	5.0	09/05/18 02:30	
EPA 8260B	Xylene (Total)	17.7	ug/L	5.0	09/05/18 02:30	
EPA 8260B	m&p-Xylene	17.7	ug/L	10.0	09/05/18 02:30	
<b>92397787026</b>	<b>DUP 1</b>					
EPA 8260B	Ethylbenzene	24.3	ug/L	5.0	09/05/18 03:41	
EPA 8260B	Naphthalene	5.3	ug/L	5.0	09/05/18 03:41	
EPA 8260B	Xylene (Total)	72.8	ug/L	5.0	09/05/18 03:41	
EPA 8260B	m&p-Xylene	72.8	ug/L	10.0	09/05/18 03:41	
EPA 8260B	o-Xylene	4.2J	ug/L	5.0	09/05/18 03:41	
<b>92397787027</b>	<b>DUP 2</b>					
EPA 8260B	Ethylbenzene	1050	ug/L	50.0	09/05/18 17:56	M1
EPA 8260B	Naphthalene	135	ug/L	50.0	09/05/18 17:56	
EPA 8260B	Toluene	565	ug/L	50.0	09/05/18 17:56	M1
EPA 8260B	Xylene (Total)	3230	ug/L	50.0	09/05/18 17:56	MS

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92397787027</b>	<b>DUP 2</b>					
EPA 8260B	m&p-Xylene	3230	ug/L	100	09/05/18 17:56	M1
EPA 8260B	o-Xylene	45.0J	ug/L	50.0	09/05/18 17:56	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

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**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** September 07, 2018

**General Information:**

28 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

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

**Duplicate Sample:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

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**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** September 07, 2018

**General Information:**

29 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

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

QC Batch: 428611

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92397653002

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

- MS (Lab ID: 2367224)
  - Toluene
- MSD (Lab ID: 2367225)
  - Toluene
  - m&p-Xylene
  - o-Xylene

QC Batch: 428678

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92397774013

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

- MS (Lab ID: 2367558)
  - Naphthalene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

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**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** September 07, 2018

QC Batch: 428678

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92397774013

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2367558)
  - tert-Butyl Formate
- MSD (Lab ID: 2367559)
  - tert-Butyl Formate

QC Batch: 428901

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92397787004

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2368434)
  - tert-Butyl Formate
- MSD (Lab ID: 2368435)
  - tert-Butyl Formate

QC Batch: 428924

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92397787027

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

- MS (Lab ID: 2368499)
  - Ethylbenzene
  - Toluene
- MSD (Lab ID: 2368500)
  - Ethylbenzene
  - Toluene
  - m&p-Xylene

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2368499)
  - tert-Butyl Formate
- MSD (Lab ID: 2368500)
  - tert-Butyl Formate

### Additional Comments:

Analyte Comments:

QC Batch: 428611

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 2367225)
  - Toluene

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

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-1 Lab ID: 92397787001 Collected: 08/29/18 14:50 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 08:10	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	09/05/18 08:30	09/06/18 08:10	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 14:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 14:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 14:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 14:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 14:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 14:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 14:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 14:56	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 14:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 14:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 14:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 14:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/04/18 14:56	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 14:56	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 14:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 14:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 14:56	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/04/18 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		09/04/18 14:56	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		09/04/18 14:56	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

Sample: **MW-2** Lab ID: **92397787002** Collected: 08/29/18 14:20 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 08:30	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	128	%	60-140		1	09/05/18 08:30	09/06/18 08:30	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	1250	960	12.5		09/05/18 07:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	42.5	12.5		09/05/18 07:33	994-05-8	
Benzene	ND	ug/L	62.5	21.2	12.5		09/05/18 07:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	401	12.5		09/05/18 07:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	721	12.5		09/05/18 07:33	75-65-0	
tert-Butyl Formate	ND	ug/L	625	91.2	12.5		09/05/18 07:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	22.5	12.5		09/05/18 07:33	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	21.2	12.5		09/05/18 07:33	108-20-3	
Ethanol	ND	ug/L	2500	1640	12.5		09/05/18 07:33	64-17-5	
Ethylbenzene	1110	ug/L	62.5	20.0	12.5		09/05/18 07:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	45.0	12.5		09/05/18 07:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	21.2	12.5		09/05/18 07:33	1634-04-4	
Naphthalene	177	ug/L	62.5	25.0	12.5		09/05/18 07:33	91-20-3	
Toluene	490	ug/L	62.5	20.0	12.5		09/05/18 07:33	108-88-3	
Xylene (Total)	3780	ug/L	62.5	62.5	12.5		09/05/18 07:33	1330-20-7	
m&p-Xylene	3780	ug/L	125	38.8	12.5		09/05/18 07:33	179601-23-1	
o-Xylene	47.0J	ug/L	62.5	20.0	12.5		09/05/18 07:33	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		12.5		09/05/18 07:33	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		12.5		09/05/18 07:33	17060-07-0	
Toluene-d8 (S)	104	%	70-130		12.5		09/05/18 07:33	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-3		Lab ID: 92397787003		Collected: 08/29/18 13:30		Received: 08/30/18 12:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 09:10	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	09/05/18 08:30	09/06/18 09:10	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 18:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 18:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 18:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 18:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 18:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 18:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 18:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 18:30	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 18:30	64-17-5	
Ethylbenzene	100	ug/L	5.0	1.6	1		09/04/18 18:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 18:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 18:30	1634-04-4	
Naphthalene	24.9	ug/L	5.0	2.0	1		09/04/18 18:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 18:30	108-88-3	
Xylene (Total)	367	ug/L	5.0	5.0	1		09/04/18 18:30	1330-20-7	
m&p-Xylene	348	ug/L	10.0	3.1	1		09/04/18 18:30	179601-23-1	
o-Xylene	19.4	ug/L	5.0	1.6	1		09/04/18 18:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		09/04/18 18:30	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		09/04/18 18:30	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		09/04/18 18:30	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-4R Lab ID: 92397787004 Collected: 08/29/18 15:10 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	0.022	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 09:29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	134	%	60-140		1	09/05/18 08:30	09/06/18 09:29	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	1000	768	10		09/05/18 23:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		09/05/18 23:02	994-05-8	
Benzene	ND	ug/L	50.0	17.0	10		09/05/18 23:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		09/05/18 23:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		09/05/18 23:02	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		09/05/18 23:02	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		09/05/18 23:02	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		09/05/18 23:02	108-20-3	
Ethanol	ND	ug/L	2000	1310	10		09/05/18 23:02	64-17-5	
Ethylbenzene	502	ug/L	50.0	16.0	10		09/05/18 23:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		09/05/18 23:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		09/05/18 23:02	1634-04-4	
Naphthalene	51.6	ug/L	50.0	20.0	10		09/05/18 23:02	91-20-3	
Toluene	172	ug/L	50.0	16.0	10		09/05/18 23:02	108-88-3	
Xylene (Total)	2090	ug/L	50.0	50.0	10		09/05/18 23:02	1330-20-7	
m&p-Xylene	1850	ug/L	100	31.0	10		09/05/18 23:02	179601-23-1	
o-Xylene	244	ug/L	50.0	16.0	10		09/05/18 23:02	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		10		09/05/18 23:02	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		10		09/05/18 23:02	17060-07-0	
Toluene-d8 (S)	102	%	70-130		10		09/05/18 23:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-5R Lab ID: 92397787005 Collected: 08/29/18 13:10 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 09:49	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	09/05/18 08:30	09/06/18 09:49	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	200	154	2		09/04/18 19:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.8	2		09/04/18 19:41	994-05-8	
Benzene	ND	ug/L	10.0	3.4	2		09/04/18 19:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	64.2	2		09/04/18 19:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	115	2		09/04/18 19:41	75-65-0	
tert-Butyl Formate	ND	ug/L	100	14.6	2		09/04/18 19:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	3.6	2		09/04/18 19:41	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	3.4	2		09/04/18 19:41	108-20-3	
Ethanol	ND	ug/L	400	262	2		09/04/18 19:41	64-17-5	
Ethylbenzene	149	ug/L	10.0	3.2	2		09/04/18 19:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	7.2	2		09/04/18 19:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	3.4	2		09/04/18 19:41	1634-04-4	
Naphthalene	142	ug/L	10.0	4.0	2		09/04/18 19:41	91-20-3	
Toluene	ND	ug/L	10.0	3.2	2		09/04/18 19:41	108-88-3	
Xylene (Total)	590	ug/L	10.0	10.0	2		09/04/18 19:41	1330-20-7	
m&p-Xylene	514	ug/L	20.0	6.2	2		09/04/18 19:41	179601-23-1	
o-Xylene	75.5	ug/L	10.0	3.2	2		09/04/18 19:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		2		09/04/18 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		2		09/04/18 19:41	17060-07-0	
Toluene-d8 (S)	101	%	70-130		2		09/04/18 19:41	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

Sample: MW-6 Lab ID: 92397787006 Collected: 08/29/18 13:20 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 09:48	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	132	%	60-140		1	09/05/18 08:30	09/06/18 09:48	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	1000	768	10		09/05/18 06:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		09/05/18 06:39	994-05-8	
Benzene	20.4J	ug/L	50.0	17.0	10		09/05/18 06:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		09/05/18 06:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		09/05/18 06:39	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		09/05/18 06:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		09/05/18 06:39	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		09/05/18 06:39	108-20-3	
Ethanol	ND	ug/L	2000	1310	10		09/05/18 06:39	64-17-5	
Ethylbenzene	406	ug/L	50.0	16.0	10		09/05/18 06:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		09/05/18 06:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		09/05/18 06:39	1634-04-4	
Naphthalene	209	ug/L	50.0	20.0	10		09/05/18 06:39	91-20-3	
Toluene	95.8	ug/L	50.0	16.0	10		09/05/18 06:39	108-88-3	
Xylene (Total)	1930	ug/L	50.0	50.0	10		09/05/18 06:39	1330-20-7	
m&p-Xylene	1930	ug/L	100	31.0	10		09/05/18 06:39	179601-23-1	
o-Xylene	21.0J	ug/L	50.0	16.0	10		09/05/18 06:39	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		10		09/05/18 06:39	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		10		09/05/18 06:39	17060-07-0	
Toluene-d8 (S)	103	%	70-130		10		09/05/18 06:39	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-7 Lab ID: 92397787007 Collected: 08/29/18 11:50 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 10:07	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	09/05/18 08:30	09/06/18 10:07	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 15:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 15:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 15:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 15:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 15:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 15:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 15:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 15:14	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 15:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 15:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 15:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 15:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/04/18 15:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 15:14	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 15:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 15:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 15:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/04/18 15:14	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		09/04/18 15:14	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		09/04/18 15:14	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-8      Lab ID: 92397787008      Collected: 08/29/18 12:00      Received: 08/30/18 12:03      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 10:25	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	09/05/18 08:30	09/06/18 10:25	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 15:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 15:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 15:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 15:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 15:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 15:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 15:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 15:32	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 15:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 15:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 15:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 15:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/04/18 15:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 15:32	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 15:32	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 15:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 15:32	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/04/18 15:32	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		09/04/18 15:32	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		09/04/18 15:32	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-9 Lab ID: 92397787009 Collected: 08/29/18 10:50 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 10:44	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	09/05/18 08:30	09/06/18 10:44	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	250	192	2.5		09/04/18 19:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	25.0	8.5	2.5		09/04/18 19:59	994-05-8	
Benzene	ND	ug/L	12.5	4.2	2.5		09/04/18 19:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	250	80.2	2.5		09/04/18 19:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	250	144	2.5		09/04/18 19:59	75-65-0	
tert-Butyl Formate	ND	ug/L	125	18.2	2.5		09/04/18 19:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	12.5	4.5	2.5		09/04/18 19:59	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	4.2	2.5		09/04/18 19:59	108-20-3	
Ethanol	ND	ug/L	500	328	2.5		09/04/18 19:59	64-17-5	
Ethylbenzene	82.1	ug/L	12.5	4.0	2.5		09/04/18 19:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	25.0	9.0	2.5		09/04/18 19:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	12.5	4.2	2.5		09/04/18 19:59	1634-04-4	
Naphthalene	145	ug/L	12.5	5.0	2.5		09/04/18 19:59	91-20-3	
Toluene	74.0	ug/L	12.5	4.0	2.5		09/04/18 19:59	108-88-3	
Xylene (Total)	759	ug/L	12.5	12.5	2.5		09/04/18 19:59	1330-20-7	
m&p-Xylene	743	ug/L	25.0	7.8	2.5		09/04/18 19:59	179601-23-1	
o-Xylene	15.7	ug/L	12.5	4.0	2.5		09/04/18 19:59	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		2.5		09/04/18 19:59	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		2.5		09/04/18 19:59	17060-07-0	
Toluene-d8 (S)	102	%	70-130		2.5		09/04/18 19:59	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-10 Lab ID: 92397787010 Collected: 08/29/18 14:45 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 11:03	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	09/05/18 08:30	09/06/18 11:03	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 15:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 15:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 15:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 15:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 15:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 15:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 15:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 15:50	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 15:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 15:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 15:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 15:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/04/18 15:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 15:50	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 15:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 15:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 15:50	95-47-6	
<b>Surrogates</b>									
4-Broifluorobenzene (S)	102	%	70-130		1		09/04/18 15:50	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-130		1		09/04/18 15:50	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		09/04/18 15:50	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752

Pace Project No.: 92397787

Sample: MW-12 Lab ID: 92397787011 Collected: 08/29/18 11:40 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 11:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	09/05/18 08:30	09/06/18 11:21	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 18:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 18:48	994-05-8	
Benzene	3.4J	ug/L	5.0	1.7	1		09/04/18 18:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 18:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 18:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 18:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 18:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 18:48	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 18:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 18:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 18:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 18:48	1634-04-4	
Naphthalene	5.2	ug/L	5.0	2.0	1		09/04/18 18:48	91-20-3	
Toluene	2.1J	ug/L	5.0	1.6	1		09/04/18 18:48	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 18:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 18:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 18:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		09/04/18 18:48	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		09/04/18 18:48	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		09/04/18 18:48	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-13 Lab ID: 92397787012 Collected: 08/29/18 11:05 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 11:39	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	09/05/18 08:30	09/06/18 11:39	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 16:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 16:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 16:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 16:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 16:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 16:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 16:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 16:08	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 16:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 16:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 16:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 16:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/04/18 16:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 16:08	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 16:08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 16:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 16:08	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/04/18 16:08	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		09/04/18 16:08	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		09/04/18 16:08	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-14 Lab ID: 92397787013 Collected: 08/29/18 10:20 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 15:03	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	116	%	60-140		1	09/05/18 08:30	09/06/18 15:03	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	1250	960	12.5		09/05/18 07:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	42.5	12.5		09/05/18 07:51	994-05-8	
Benzene	ND	ug/L	62.5	21.2	12.5		09/05/18 07:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	401	12.5		09/05/18 07:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	721	12.5		09/05/18 07:51	75-65-0	
tert-Butyl Formate	ND	ug/L	625	91.2	12.5		09/05/18 07:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	22.5	12.5		09/05/18 07:51	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	21.2	12.5		09/05/18 07:51	108-20-3	
Ethanol	ND	ug/L	2500	1640	12.5		09/05/18 07:51	64-17-5	
Ethylbenzene	899	ug/L	62.5	20.0	12.5		09/05/18 07:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	45.0	12.5		09/05/18 07:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	21.2	12.5		09/05/18 07:51	1634-04-4	
Naphthalene	116	ug/L	62.5	25.0	12.5		09/05/18 07:51	91-20-3	
Toluene	899	ug/L	62.5	20.0	12.5		09/05/18 07:51	108-88-3	
Xylene (Total)	3380	ug/L	62.5	62.5	12.5		09/05/18 07:51	1330-20-7	
m&p-Xylene	3200	ug/L	125	38.8	12.5		09/05/18 07:51	179601-23-1	
o-Xylene	171	ug/L	62.5	20.0	12.5		09/05/18 07:51	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		12.5		09/05/18 07:51	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		12.5		09/05/18 07:51	17060-07-0	
Toluene-d8 (S)	101	%	70-130		12.5		09/05/18 07:51	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-15 Lab ID: 92397787014 Collected: 08/29/18 10:15 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 15:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	09/05/18 08:30	09/06/18 15:21	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 16:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 16:26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 16:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 16:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 16:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 16:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 16:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 16:26	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 16:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 16:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 16:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 16:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/04/18 16:26	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 16:26	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 16:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 16:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 16:26	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/04/18 16:26	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-130		1		09/04/18 16:26	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		09/04/18 16:26	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-17 Lab ID: 92397787015 Collected: 08/29/18 10:30 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 15:40	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	09/05/18 08:30	09/06/18 15:40	301-79-56	
<b>8260 MSV</b>									
			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 16:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 16:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 16:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 16:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 16:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 16:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 16:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 16:43	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 16:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 16:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 16:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 16:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/04/18 16:43	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 16:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 16:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 16:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 16:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/04/18 16:43	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		09/04/18 16:43	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		09/04/18 16:43	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-18 Lab ID: 92397787016 Collected: 08/29/18 14:55 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 15:58	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	09/05/18 08:30	09/06/18 15:58	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 17:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 17:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 17:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 17:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 17:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 17:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 17:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 17:01	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 17:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 17:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 17:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 17:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/04/18 17:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 17:01	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 17:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 17:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 17:01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/04/18 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		09/04/18 17:01	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		09/04/18 17:01	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-19 Lab ID: 92397787017 Collected: 08/29/18 15:00 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 16:17	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	118	%	60-140		1	09/05/18 08:30	09/06/18 16:17	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	200	154	2		09/04/18 19:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.8	2		09/04/18 19:23	994-05-8	
Benzene	ND	ug/L	10.0	3.4	2		09/04/18 19:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	64.2	2		09/04/18 19:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	115	2		09/04/18 19:23	75-65-0	
tert-Butyl Formate	ND	ug/L	100	14.6	2		09/04/18 19:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	3.6	2		09/04/18 19:23	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	3.4	2		09/04/18 19:23	108-20-3	
Ethanol	ND	ug/L	400	262	2		09/04/18 19:23	64-17-5	
Ethylbenzene	77.0	ug/L	10.0	3.2	2		09/04/18 19:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	7.2	2		09/04/18 19:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	3.4	2		09/04/18 19:23	1634-04-4	
Naphthalene	9.1J	ug/L	10.0	4.0	2		09/04/18 19:23	91-20-3	
Toluene	4.1J	ug/L	10.0	3.2	2		09/04/18 19:23	108-88-3	
Xylene (Total)	309	ug/L	10.0	10.0	2		09/04/18 19:23	1330-20-7	
m&p-Xylene	261	ug/L	20.0	6.2	2		09/04/18 19:23	179601-23-1	
o-Xylene	48.7	ug/L	10.0	3.2	2		09/04/18 19:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	131	%	70-130		2		09/04/18 19:23	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		2		09/04/18 19:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130		2		09/04/18 19:23	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-20 Lab ID: 92397787018 Collected: 08/29/18 10:20 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 16:35	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	09/05/18 08:30	09/06/18 16:35	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 19:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 19:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 19:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 19:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 19:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 19:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 19:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 19:05	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 19:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 19:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 19:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 19:05	1634-04-4	
Naphthalene	13.0	ug/L	5.0	2.0	1		09/04/18 19:05	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 19:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 19:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 19:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 19:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		09/04/18 19:05	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		09/04/18 19:05	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		09/04/18 19:05	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: MW-22 Lab ID: 92397787019 Collected: 08/29/18 13:15 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 16:54	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	09/05/18 08:30	09/06/18 16:54	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	500	384	5		09/05/18 06:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		09/05/18 06:04	994-05-8	
Benzene	ND	ug/L	25.0	8.5	5		09/05/18 06:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		09/05/18 06:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		09/05/18 06:04	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		09/05/18 06:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		09/05/18 06:04	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		09/05/18 06:04	108-20-3	
Ethanol	ND	ug/L	1000	655	5		09/05/18 06:04	64-17-5	
Ethylbenzene	478	ug/L	25.0	8.0	5		09/05/18 06:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		09/05/18 06:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		09/05/18 06:04	1634-04-4	
Naphthalene	197	ug/L	25.0	10.0	5		09/05/18 06:04	91-20-3	
Toluene	59.4	ug/L	25.0	8.0	5		09/05/18 06:04	108-88-3	
Xylene (Total)	1970	ug/L	25.0	25.0	5		09/05/18 06:04	1330-20-7	
m&p-Xylene	1870	ug/L	50.0	15.5	5		09/05/18 06:04	179601-23-1	
o-Xylene	95.9	ug/L	25.0	8.0	5		09/05/18 06:04	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		5		09/05/18 06:04	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		5		09/05/18 06:04	17060-07-0	
Toluene-d8 (S)	105	%	70-130		5		09/05/18 06:04	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: DW-1 Lab ID: 92397787020 Collected: 08/29/18 14:15 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 17:31	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	09/05/18 08:30	09/06/18 17:31	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 17:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 17:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 17:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 17:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 17:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 17:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 17:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 17:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 17:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 17:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 17:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 17:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/04/18 17:19	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 17:19	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 17:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 17:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 17:19	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		09/04/18 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		09/04/18 17:19	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		09/04/18 17:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: DW-2 Lab ID: 92397787021 Collected: 08/29/18 14:40 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 17:49	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	09/05/18 08:30	09/06/18 17:49	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/04/18 17:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/04/18 17:36	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/04/18 17:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/04/18 17:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/04/18 17:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/04/18 17:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/04/18 17:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/04/18 17:36	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/04/18 17:36	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/04/18 17:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/04/18 17:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/04/18 17:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/04/18 17:36	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/04/18 17:36	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/04/18 17:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/04/18 17:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/04/18 17:36	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/04/18 17:36	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		09/04/18 17:36	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		09/04/18 17:36	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: DW-3 Lab ID: 92397787022 Collected: 08/29/18 10:45 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 18:08	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	09/05/18 08:30	09/06/18 18:08	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	128	ug/L	100	76.8	1		09/05/18 02:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/05/18 02:30	994-05-8	
Benzene	12.0	ug/L	5.0	1.7	1		09/05/18 02:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/05/18 02:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/05/18 02:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/05/18 02:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/05/18 02:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/05/18 02:30	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/05/18 02:30	64-17-5	
Ethylbenzene	124	ug/L	5.0	1.6	1		09/05/18 02:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/05/18 02:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/05/18 02:30	1634-04-4	
Naphthalene	54.0	ug/L	5.0	2.0	1		09/05/18 02:30	91-20-3	
Toluene	6.9	ug/L	5.0	1.6	1		09/05/18 02:30	108-88-3	
Xylene (Total)	17.7	ug/L	5.0	5.0	1		09/05/18 02:30	1330-20-7	
m&p-Xylene	17.7	ug/L	10.0	3.1	1		09/05/18 02:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/05/18 02:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		09/05/18 02:30	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		09/05/18 02:30	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		09/05/18 02:30	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: DW-4 Lab ID: 92397787023 Collected: 08/29/18 11:25 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 18:26	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	09/05/18 08:30	09/06/18 18:26	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/05/18 02:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/05/18 02:48	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/05/18 02:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/05/18 02:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/05/18 02:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/05/18 02:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/05/18 02:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/05/18 02:48	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/05/18 02:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/05/18 02:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/05/18 02:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/05/18 02:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/05/18 02:48	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/05/18 02:48	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/05/18 02:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/05/18 02:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/05/18 02:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		09/05/18 02:48	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		09/05/18 02:48	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		09/05/18 02:48	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: DW-5 Lab ID: 92397787024 Collected: 08/29/18 12:20 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 18:45	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	09/05/18 08:30	09/06/18 18:45	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/05/18 03:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/05/18 03:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/05/18 03:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/05/18 03:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/05/18 03:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/05/18 03:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/05/18 03:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/05/18 03:05	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/05/18 03:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/05/18 03:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/05/18 03:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/05/18 03:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/05/18 03:05	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/05/18 03:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/05/18 03:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/05/18 03:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/05/18 03:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	702	%	70-130		1		09/05/18 03:05	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		09/05/18 03:05	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		09/05/18 03:05	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: DW-6 Lab ID: 92397787025 Collected: 08/29/18 13:05 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 19:03	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	09/05/18 08:30	09/06/18 19:03	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/05/18 03:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/05/18 03:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/05/18 03:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/05/18 03:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/05/18 03:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/05/18 03:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/05/18 03:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/05/18 03:23	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/05/18 03:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/05/18 03:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/05/18 03:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/05/18 03:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/05/18 03:23	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/05/18 03:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/05/18 03:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/05/18 03:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/05/18 03:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		09/05/18 03:23	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		09/05/18 03:23	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		09/05/18 03:23	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: DUP 1 Lab ID: 92397787026 Collected: 08/29/18 13:30 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 11:29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	09/05/18 08:30	09/06/18 11:29	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/05/18 03:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/05/18 03:41	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/05/18 03:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/05/18 03:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/05/18 03:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/05/18 03:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/05/18 03:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/05/18 03:41	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/05/18 03:41	64-17-5	
Ethylbenzene	24.3	ug/L	5.0	1.6	1		09/05/18 03:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/05/18 03:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/05/18 03:41	1634-04-4	
Naphthalene	5.3	ug/L	5.0	2.0	1		09/05/18 03:41	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/05/18 03:41	108-88-3	
Xylene (Total)	72.8	ug/L	5.0	5.0	1		09/05/18 03:41	1330-20-7	
m&p-Xylene	72.8	ug/L	10.0	3.1	1		09/05/18 03:41	179601-23-1	
o-Xylene	4.2J	ug/L	5.0	1.6	1		09/05/18 03:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		09/05/18 03:41	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		09/05/18 03:41	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		09/05/18 03:41	2037-26-5	

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: DUP 2 Lab ID: 92397787027 Collected: 08/29/18 14:20 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/05/18 08:30	09/06/18 11:49	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	132	%	60-140		1	09/05/18 08:30	09/06/18 11:49	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	1000	768	10		09/05/18 17:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		09/05/18 17:56	994-05-8	
Benzene	ND	ug/L	50.0	17.0	10		09/05/18 17:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		09/05/18 17:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		09/05/18 17:56	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		09/05/18 17:56	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		09/05/18 17:56	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		09/05/18 17:56	108-20-3	
Ethanol	ND	ug/L	2000	1310	10		09/05/18 17:56	64-17-5	
Ethylbenzene	1050	ug/L	50.0	16.0	10		09/05/18 17:56	100-41-4	M1
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		09/05/18 17:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		09/05/18 17:56	1634-04-4	
Naphthalene	135	ug/L	50.0	20.0	10		09/05/18 17:56	91-20-3	
Toluene	565	ug/L	50.0	16.0	10		09/05/18 17:56	108-88-3	M1
Xylene (Total)	3230	ug/L	50.0	50.0	10		09/05/18 17:56	1330-20-7	MS
m&p-Xylene	3230	ug/L	100	31.0	10		09/05/18 17:56	179601-23-1	M1
o-Xylene	45.0J	ug/L	50.0	16.0	10		09/05/18 17:56	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	87	%	70-130		10		09/05/18 17:56	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130		10		09/05/18 17:56	17060-07-0	
Toluene-d8 (S)	115	%	70-130		10		09/05/18 17:56	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: FIELD BLANK Lab ID: 92397787028 Collected: 08/29/18 15:10 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/05/18 08:30	09/06/18 12:09	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	09/05/18 08:30	09/06/18 12:09	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/05/18 01:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/05/18 01:54	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/05/18 01:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/05/18 01:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/05/18 01:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/05/18 01:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/05/18 01:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/05/18 01:54	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/05/18 01:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/05/18 01:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/05/18 01:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/05/18 01:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/05/18 01:54	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/05/18 01:54	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/05/18 01:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/05/18 01:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/05/18 01:54	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/05/18 01:54	480-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		09/05/18 01:54	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		09/05/18 01:54	2037-26-5	

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**ANALYTICAL RESULTS**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Sample: TRIP BLANK Lab ID: 92397787029 Collected: 08/29/18 15:11 Received: 08/30/18 12:03 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		09/05/18 02:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		09/05/18 02:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		09/05/18 02:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		09/05/18 02:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		09/05/18 02:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		09/05/18 02:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		09/05/18 02:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		09/05/18 02:12	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/05/18 02:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		09/05/18 02:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		09/05/18 02:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		09/05/18 02:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		09/05/18 02:12	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		09/05/18 02:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		09/05/18 02:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		09/05/18 02:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		09/05/18 02:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		09/05/18 02:12	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		09/05/18 02:12	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		09/05/18 02:12	2037-26-5	

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

QC Batch: 428611 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92397787001, 92397787003, 92397787005, 92397787007, 92397787008, 92397787009, 92397787010, 92397787011, 92397787012, 92397787014, 92397787015, 92397787016, 92397787017, 92397787018, 92397787020, 92397787021

METHOD BLANK: 2367222 Matrix: Water  
 Associated Lab Samples: 92397787001, 92397787003, 92397787005, 92397787007, 92397787008, 92397787009, 92397787010, 92397787011, 92397787012, 92397787014, 92397787015, 92397787016, 92397787017, 92397787018, 92397787020, 92397787021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	09/04/18 14:03	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	09/04/18 14:03	
Benzene	ug/L	ND	5.0	1.7	09/04/18 14:03	
Diisopropyl ether	ug/L	ND	5.0	1.7	09/04/18 14:03	
Ethanol	ug/L	ND	200	131	09/04/18 14:03	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	09/04/18 14:03	
Ethylbenzene	ug/L	ND	5.0	1.6	09/04/18 14:03	
m&p-Xylene	ug/L	ND	10.0	3.1	09/04/18 14:03	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	09/04/18 14:03	
Naphthalene	ug/L	ND	5.0	2.0	09/04/18 14:03	
o-Xylene	ug/L	ND	5.0	1.6	09/04/18 14:03	
tert-Amyl Alcohol	ug/L	ND	100	76.8	09/04/18 14:03	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	09/04/18 14:03	
tert-Butyl Alcohol	ug/L	ND	100	57.7	09/04/18 14:03	
tert-Butyl Formate	ug/L	ND	50.0	7.3	09/04/18 14:03	
Toluene	ug/L	ND	5.0	1.6	09/04/18 14:03	
Xylene (Total)	ug/L	ND	5.0	5.0	09/04/18 14:03	
1,2-Dichloroethane-d4 (S)	%	114	70-130		09/04/18 14:03	
4-Bromofluorobenzene (S)	%	101	70-130		09/04/18 14:03	
Toluene-d8 (S)	%	108	70-130		09/04/18 14:03	

LABORATORY CONTROL SAMPLE: 2367223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.0	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	994	99	70-130	
Benzene	ug/L	50	52.5	105	70-130	
Diisopropyl ether	ug/L	50	57.1	114	70-130	
Ethanol	ug/L	2000	1950	97	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
Ethylbenzene	ug/L	50	49.8	100	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	49.7	99	70-130	
Naphthalene	ug/L	50	54.6	109	70-130	
o-Xylene	ug/L	50	50.7	101	70-130	
tert-Amyl Alcohol	ug/L	1000	1110	111	70-130	

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

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

LABORATORY CONTROL SAMPLE: 2367223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	475	95	70-130	
tert-Butyl Formate	ug/L	400	488	122	70-130	
Toluene	ug/L	50	48.3	97	70-130	
Xylene (Total)	ug/L	150	152	101	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2367224 2367225

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92397653002 Result	Spike Conc.	Spike Conc.	MS Result							
1,2-Dichloroethane	ug/L	ND	1000	1000	1170	1170	117	117	70-130	0	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	18300	19200	92	96	70-130	5	30	
Benzene	ug/L	1120	1000	1000	2280	2420	116	130	70-130	6	30	
Diisopropyl ether	ug/L	ND	1000	1000	1160	1190	116	119	70-130	2	30	
Ethanol	ug/L	ND	40000	40000	39800	39700	99	99	70-130	0	30	
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	2200	2220	110	111	70-130	1	30	
Ethylbenzene	ug/L	1550	1000	1000	2540	2780	99	123	70-130	9	30	
m&p-Xylene	ug/L	10400	2000	2000	12000	13300	82	147	70-130	10	30	M1
Methyl-tert-butyl ether	ug/L	ND	1000	1000	1040	1030	104	103	70-130	0	30	
Naphthalene	ug/L	1130	1000	1000	2070	2270	94	114	70-130	9	30	
o-Xylene	ug/L	4820	1000	1000	5650	6240	83	142	70-130	10	30	M1
tert-Amyl Alcohol	ug/L	ND	20000	20000	21000	22200	105	111	70-130	5	30	
tert-Amylmethyl ether	ug/L	ND	2000	2000	2170	2250	108	113	70-130	4	30	
tert-Butyl Alcohol	ug/L	ND	10000	10000	9880	10100	99	101	70-130	2	30	
tert-Butyl Formate	ug/L	ND	8000	8000	7950	8050	99	101	70-130	1	30	
Toluene	ug/L	9310	1000	1000	9930	11000	61	165	70-130	10	30	E,M1
Xylene (Total)	ug/L	15200	3000	3000	17700	19600	83	146	70-130	10	30	MS
1,2-Dichloroethane-d4 (S)	%						107	104	70-130			
4-Bromofluorobenzene (S)	%						98	99	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

QC Batch: 428678 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92397787002, 92397787006, 92397787013, 92397787019, 92397787022, 92397787023, 92397787024, 92397787025, 92397787026, 92397787028, 92397787029

METHOD BLANK: 2367556 Matrix: Water  
 Associated Lab Samples: 92397787002, 92397787006, 92397787013, 92397787019, 92397787022, 92397787023, 92397787024, 92397787025, 92397787026, 92397787028, 92397787029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	09/05/18 01:19	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	09/05/18 01:19	
Benzene	ug/L	ND	5.0	1.7	09/05/18 01:19	
Diisopropyl ether	ug/L	ND	5.0	1.7	09/05/18 01:19	
Ethanol	ug/L	ND	200	131	09/05/18 01:19	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	09/05/18 01:19	
Ethylbenzene	ug/L	ND	5.0	1.6	09/05/18 01:19	
m&p-Xylene	ug/L	ND	10.0	3.1	09/05/18 01:19	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	09/05/18 01:19	
Naphthalene	ug/L	ND	5.0	2.0	09/05/18 01:19	
o-Xylene	ug/L	ND	5.0	1.6	09/05/18 01:19	
tert-Amyl Alcohol	ug/L	ND	100	76.8	09/05/18 01:19	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	09/05/18 01:19	
tert-Butyl Alcohol	ug/L	ND	100	57.7	09/05/18 01:19	
tert-Butyl Formate	ug/L	ND	50.0	7.3	09/05/18 01:19	
Toluene	ug/L	ND	5.0	1.6	09/05/18 01:19	
Xylene (Total)	ug/L	ND	5.0	5.0	09/05/18 01:19	
1,2-Dichloroethane-d4 (S)	%	106	70-130		09/05/18 01:19	
4-Bromofluorobenzene (S)	%	102	70-130		09/05/18 01:19	
Toluene-d8 (S)	%	104	70-130		09/05/18 01:19	

LABORATORY CONTROL SAMPLE: 2367557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.7	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	952	95	70-130	
Benzene	ug/L	50	49.6	99	70-130	
Diisopropyl ether	ug/L	50	52.0	104	70-130	
Ethanol	ug/L	2000	1680	84	70-130	
Ethyl-tert-butyl ether	ug/L	100	98.2	98	70-130	
Ethylbenzene	ug/L	50	46.6	93	70-130	
m&p-Xylene	ug/L	100	94.3	94	70-130	
Methyl-tert-butyl ether	ug/L	50	46.0	92	70-130	
Naphthalene	ug/L	50	50.4	101	70-130	
o-Xylene	ug/L	50	47.4	95	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	
tert-Amylmethyl ether	ug/L	100	99.5	99	70-130	
tert-Butyl Alcohol	ug/L	500	435	87	70-130	

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

LABORATORY CONTROL SAMPLE: 2367557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	436	109	70-130	
Toluene	ug/L	50	45.7	91	70-130	
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2367558 2367559

Parameter	Units	92397774013		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1,2-Dichloroethane	ug/L	ND	250	250	286	267	115	107	70-130	7	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	5000	5000	4680	4560	94	91	70-130	3	30	
Benzene	ug/L	1160	250	250	1450	1400	116	95	70-130	4	30	
Diisopropyl ether	ug/L	ND	250	250	300	280	120	112	70-130	7	30	
Ethanol	ug/L	ND	10000	10000	10600	9770	106	98	70-130	8	30	
Ethyl-tert-butyl ether	ug/L	ND	500	500	562	529	112	106	70-130	6	30	
Ethylbenzene	ug/L	1410	250	250	1710	1660	118	99	70-130	3	30	
m&p-Xylene	ug/L	1710	500	500	2270	2220	113	101	70-130	3	30	
Methyl-tert-butyl ether	ug/L	ND	250	250	279	265	112	106	70-130	5	30	
Naphthalene	ug/L	1580	250	250	1920	1830	139	102	70-130	5	30	M1
o-Xylene	ug/L	103	250	250	381	368	111	106	70-130	4	30	
tert-Amyl Alcohol	ug/L	ND	5000	5000	5590	5440	112	109	70-130	3	30	
tert-Amylmethyl ether	ug/L	ND	500	500	546	522	109	104	70-130	5	30	
tert-Butyl Alcohol	ug/L	ND	2500	2500	3220	3100	129	124	70-130	4	30	
tert-Butyl Formate	ug/L	ND	2000	2000	766	703	38	35	70-130	9	30	P5
Toluene	ug/L	182	250	250	443	428	105	98	70-130	4	30	
Xylene (Total)	ug/L	1810	750	750	2650	2580	112	103	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%						106	103	70-130			
4-Bromofluorobenzene (S)	%						98	100	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

QC Batch: 428901 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92397787004

METHOD BLANK: 2368432 Matrix: Water  
 Associated Lab Samples: 92397787004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	09/05/18 14:26	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	09/05/18 14:26	
Benzene	ug/L	ND	5.0	1.7	09/05/18 14:26	
Diisopropyl ether	ug/L	ND	5.0	1.7	09/05/18 14:26	
Ethanol	ug/L	ND	200	131	09/05/18 14:26	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	09/05/18 14:26	
Ethylbenzene	ug/L	ND	5.0	1.6	09/05/18 14:26	
m&p-Xylene	ug/L	ND	10.0	3.1	09/05/18 14:26	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	09/05/18 14:26	
Naphthalene	ug/L	ND	5.0	2.0	09/05/18 14:26	
o-Xylene	ug/L	ND	5.0	1.6	09/05/18 14:26	
tert-Amyl Alcohol	ug/L	ND	100	76.8	09/05/18 14:26	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	09/05/18 14:26	
tert-Butyl Alcohol	ug/L	ND	100	57.7	09/05/18 14:26	
tert-Butyl Formate	ug/L	ND	50.0	7.3	09/05/18 14:26	
Toluene	ug/L	ND	5.0	1.6	09/05/18 14:26	
Xylene (Total)	ug/L	ND	5.0	5.0	09/05/18 14:26	
1,2-Dichloroethane-d4 (S)	%	110	70-130		09/05/18 14:26	
4-Bromofluorobenzene (S)	%	101	70-130		09/05/18 14:26	
Toluene-d8 (S)	%	105	70-130		09/05/18 14:26	

LABORATORY CONTROL SAMPLE: 2368433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.1	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	984	98	70-130	
Benzene	ug/L	50	51.8	104	70-130	
Diisopropyl ether	ug/L	50	55.2	110	70-130	
Ethanol	ug/L	2000	1860	93	70-130	
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
Ethylbenzene	ug/L	50	49.6	99	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	48.6	97	70-130	
Naphthalene	ug/L	50	53.9	108	70-130	
o-Xylene	ug/L	50	50.4	101	70-130	
tert-Amyl Alcohol	ug/L	1000	1070	107	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	454	91	70-130	
tert-Butyl Formate	ug/L	400	458	115	70-130	
Toluene	ug/L	50	48.8	98	70-130	

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

LABORATORY CONTROL SAMPLE: 2368433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2368434 2368435

Parameter	Units	92397787004		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
1,2-Dichloroethane	ug/L	ND	200	200	226	244	113	122	70-130	8	30			
3,3-Dimethyl-1-Butanol	ug/L	ND	4000	4000	3950	3980	99	99	70-130	1	30			
Benzene	ug/L	ND	200	200	242	243	121	121	70-130	0	30			
Diisopropyl ether	ug/L	ND	200	200	244	245	122	123	70-130	0	30			
Ethanol	ug/L	ND	8000	8000	7850	7900	98	99	70-130	1	30			
Ethyl-tert-butyl ether	ug/L	ND	400	400	445	454	111	113	70-130	2	30			
Ethylbenzene	ug/L	502	200	200	695	728	96	113	70-130	5	30			
m&p-Xylene	ug/L	1850	400	400	2180	2320	83	118	70-130	6	30			
Methyl-tert-butyl ether	ug/L	ND	200	200	210	217	105	109	70-130	4	30			
Naphthalene	ug/L	51.6	200	200	281	290	115	119	70-130	3	30			
o-Xylene	ug/L	244	200	200	452	480	104	118	70-130	6	30			
tert-Amyl Alcohol	ug/L	ND	4000	4000	4660	4630	117	116	70-130	1	30			
tert-Amylmethyl ether	ug/L	ND	400	400	451	462	113	115	70-130	2	30			
tert-Butyl Alcohol	ug/L	ND	2000	2000	2510	2500	125	125	70-130	0	30			
tert-Butyl Formate	ug/L	ND	1600	1600	720	708	45	44	70-130	2	30	P5		
Toluene	ug/L	172	200	200	382	391	105	109	70-130	2	30			
Xylene (Total)	ug/L	2090	600	600	2630	2800	90	118	70-130	6	30			
1,2-Dichloroethane-d4 (S)	%						107	107	70-130					
4-Bromofluorobenzene (S)	%						100	101	70-130					
Toluene-d8 (S)	%						100	98	70-130					

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

QC Batch: 428924 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92397787027

METHOD BLANK: 2368497 Matrix: Water  
 Associated Lab Samples: 92397787027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	09/05/18 15:41	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	09/05/18 15:41	
Benzene	ug/L	ND	5.0	1.7	09/05/18 15:41	
Diisopropyl ether	ug/L	ND	5.0	1.7	09/05/18 15:41	
Ethanol	ug/L	ND	200	131	09/05/18 15:41	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	09/05/18 15:41	
Ethylbenzene	ug/L	ND	5.0	1.6	09/05/18 15:41	
m&p-Xylene	ug/L	ND	10.0	3.1	09/05/18 15:41	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	09/05/18 15:41	
Naphthalene	ug/L	ND	5.0	2.0	09/05/18 15:41	
o-Xylene	ug/L	ND	5.0	1.6	09/05/18 15:41	
tert-Amyl Alcohol	ug/L	ND	100	76.8	09/05/18 15:41	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	09/05/18 15:41	
tert-Butyl Alcohol	ug/L	ND	100	57.7	09/05/18 15:41	
tert-Butyl Formate	ug/L	ND	50.0	7.3	09/05/18 15:41	
Toluene	ug/L	ND	5.0	1.6	09/05/18 15:41	
Xylene (Total)	ug/L	ND	5.0	5.0	09/05/18 15:41	
1,2-Dichloroethane-d4 (S)	%	84	70-130		09/05/18 15:41	
4-Bromofluorobenzene (S)	%	116	70-130		09/05/18 15:41	
Toluene-d8 (S)	%	110	70-130		09/05/18 15:41	

LABORATORY CONTROL SAMPLE: 2368498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.5	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1030	103	70-130	
Benzene	ug/L	50	58.3	117	70-130	
Diisopropyl ether	ug/L	50	53.7	107	70-130	
Ethanol	ug/L	2000	2180	109	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	48.3	97	70-130	
m&p-Xylene	ug/L	100	94.6	95	70-130	
Methyl-tert-butyl ether	ug/L	50	54.9	110	70-130	
Naphthalene	ug/L	50	50.5	101	70-130	
o-Xylene	ug/L	50	50.1	100	70-130	
tert-Amyl Alcohol	ug/L	1000	1120	112	70-130	
tert-Amylmethyl ether	ug/L	100	110	110	70-130	
tert-Butyl Alcohol	ug/L	500	496	99	70-130	
tert-Butyl Formate	ug/L	400	424	106	70-130	
Toluene	ug/L	50	45.7	91	70-130	

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

LABORATORY CONTROL SAMPLE: 2368498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	145	96	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2368499 2368500

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92397787027 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2-Dichloroethane	ug/L	ND	200	200	183	169	92	85	70-130	8	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	4000	4000	3290	3370	82	84	70-130	2	30	
Benzene	ug/L	ND	200	200	233	211	112	101	70-130	10	30	
Diisopropyl ether	ug/L	ND	200	200	178	176	89	88	70-130	1	30	
Ethanol	ug/L	ND	8000	8000	7420	6470	93	81	70-130	14	30	
Ethyl-tert-butyl ether	ug/L	ND	400	400	358	340	90	85	70-130	5	30	
Ethylbenzene	ug/L	1050	200	200	1190	1160	67	53	70-130	2	30	M1
m&p-Xylene	ug/L	3230	400	400	3510	3140	70	-22	70-130	11	30	M1
Methyl-tert-butyl ether	ug/L	ND	200	200	169	175	84	87	70-130	4	30	
Naphthalene	ug/L	135	200	200	354	343	109	104	70-130	3	30	
o-Xylene	ug/L	45.0J	200	200	260	229	108	92	70-130	13	30	
tert-Amyl Alcohol	ug/L	ND	4000	4000	3690	3650	92	91	70-130	1	30	
tert-Amylmethyl ether	ug/L	ND	400	400	401	379	100	95	70-130	6	30	
tert-Butyl Alcohol	ug/L	ND	2000	2000	2150	2340	108	117	70-130	8	30	
tert-Butyl Formate	ug/L	ND	1600	1600	404J	376J	25	23	70-130		30	P5
Toluene	ug/L	565	200	200	581	575	8	5	70-130	1	30	M1
Xylene (Total)	ug/L	3230	600	600	3770	3370	90	24	70-130	11	30	MS
1,2-Dichloroethane-d4 (S)	%						91	79	70-130			
4-Bromofluorobenzene (S)	%						99	92	70-130			
Toluene-d8 (S)	%						90	90	70-130			

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

QC Batch: 428837 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92397787001, 92397787002, 92397787003, 92397787004, 92397787005

METHOD BLANK: 2368102 Matrix: Water  
 Associated Lab Samples: 92397787001, 92397787002, 92397787003, 92397787004, 92397787005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	09/06/18 01:35	
1-Chloro-2-bromopropane (S)	%	106	60-140		09/06/18 01:35	

LABORATORY CONTROL SAMPLE & LCSD: 2368103 2368104

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.28	0.27	113	108	60-140	6	20	
1-Chloro-2-bromopropane (S)	%				112	105	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2368105 2368106

Parameter	Units	92397746024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.25	0.27	0.28	111	114	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						110	111	60-140			

SAMPLE DUPLICATE: 2368107

Parameter	Units	92397787002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	128	128	1		

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

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

QC Batch: 428840 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92397787006, 92397787007, 92397787008, 92397787009, 92397787010, 92397787011, 92397787012, 92397787013, 92397787014, 92397787015, 92397787016, 92397787017, 92397787018, 92397787019, 92397787020, 92397787021, 92397787022, 92397787023, 92397787024, 92397787025

METHOD BLANK: 2368112 Matrix: Water  
 Associated Lab Samples: 92397787006, 92397787007, 92397787008, 92397787009, 92397787010, 92397787011, 92397787012, 92397787013, 92397787014, 92397787015, 92397787016, 92397787017, 92397787018, 92397787019, 92397787020, 92397787021, 92397787022, 92397787023, 92397787024, 92397787025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	09/06/18 08:54	
1-Chloro-2-bromopropane (S)	%	106	60-140		09/06/18 08:54	

LABORATORY CONTROL SAMPLE & LCSD: 2368113 2368114

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.24	0.25	97	102	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				99	108	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2368115 2368116

Parameter	Units	92397787012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.26	0.27	108	110	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						108	107	60-140			

SAMPLE DUPLICATE: 2368117

Parameter	Units	92397787019 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	105	102	1		

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**QUALITY CONTROL DATA**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

QC Batch: 428841 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92397787026, 92397787027, 92397787028

METHOD BLANK: 2368120 Matrix: Water  
 Associated Lab Samples: 92397787026, 92397787027, 92397787028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	09/06/18 10:29	
1-Chloro-2-bromopropane (S)	%	114	60-140		09/06/18 10:29	

LABORATORY CONTROL SAMPLE & LCSD: 2368121 2368122

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.27	0.27	108	108	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				105	106	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2368123 2368124

Parameter	Units	92397810024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	0.063	.25	.25	0.34	0.34	114	114	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						123	132	60-140			

SAMPLE DUPLICATE: 2368125

Parameter	Units	92397810051 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	117	120	2		

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

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## QUALIFIERS

Project: INTERSTATE TRUCK T 00332/57752  
Pace Project No.: 92397787

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### DEFINITIONS

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

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92397787001	MW-1	EPA 8011	428837	EPA 8011	428970
92397787002	MW-2	EPA 8011	428837	EPA 8011	428970
92397787003	MW-3	EPA 8011	428837	EPA 8011	428970
92397787004	MW-4R	EPA 8011	428837	EPA 8011	428970
92397787005	MW-5R	EPA 8011	428837	EPA 8011	428970
92397787006	MW-6	EPA 8011	428840	EPA 8011	428971
92397787007	MW-7	EPA 8011	428840	EPA 8011	428971
92397787008	MW-8	EPA 8011	428840	EPA 8011	428971
92397787009	MW-9	EPA 8011	428840	EPA 8011	428971
92397787010	MW-10	EPA 8011	428840	EPA 8011	428971
92397787011	MW-12	EPA 8011	428840	EPA 8011	428971
92397787012	MW-13	EPA 8011	428840	EPA 8011	428971
92397787013	MW-14	EPA 8011	428840	EPA 8011	428971
92397787014	MW-15	EPA 8011	428840	EPA 8011	428971
92397787015	MW-17	EPA 8011	428840	EPA 8011	428971
92397787016	MW-18	EPA 8011	428840	EPA 8011	428971
92397787017	MW-19	EPA 8011	428840	EPA 8011	428971
92397787018	MW-20	EPA 8011	428840	EPA 8011	428971
92397787019	MW-22	EPA 8011	428840	EPA 8011	428971
92397787020	DW-1	EPA 8011	428840	EPA 8011	428971
92397787021	DW-2	EPA 8011	428840	EPA 8011	428971
92397787022	DW-3	EPA 8011	428840	EPA 8011	428971
92397787023	DW-4	EPA 8011	428840	EPA 8011	428971
92397787024	DW-5	EPA 8011	428840	EPA 8011	428971
92397787025	DW-6	EPA 8011	428840	EPA 8011	428971
92397787026	DUP 1	EPA 8011	428841	EPA 8011	428973
92397787027	DUP 2	EPA 8011	428841	EPA 8011	428973
92397787028	FIELD BLANK	EPA 8011	428841	EPA 8011	428973
92397787001	MW-1	EPA 8260B	428611		
92397787002	MW-2	EPA 8260B	428678		
92397787003	MW-3	EPA 8260B	428611		
92397787004	MW-4R	EPA 8260B	428901		
92397787005	MW-5R	EPA 8260B	428611		
92397787006	MW-6	EPA 8260B	428678		
92397787007	MW-7	EPA 8260B	428611		
92397787008	MW-8	EPA 8260B	428611		
92397787009	MW-9	EPA 8260B	428611		
92397787010	MW-10	EPA 8260B	428611		
92397787011	MW-12	EPA 8260B	428611		
92397787012	MW-13	EPA 8260B	428611		
92397787013	MW-14	EPA 8260B	428678		
92397787014	MW-15	EPA 8260B	428611		
92397787015	MW-17	EPA 8260B	428611		

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: INTERSTATE TRUCK T 00332/57752  
 Pace Project No.: 92397787

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92397787016	MW-18	EPA 8260B	428611		
92397787017	MW-19	EPA 8260B	428611		
92397787018	MW-20	EPA 8260B	428611		
92397787019	MW-22	EPA 8260B	428678		
92397787020	DW-1	EPA 8260B	428611		
92397787021	DW-2	EPA 8260B	428611		
92397787022	DW-3	EPA 8260B	428678		
92397787023	DW-4	EPA 8260B	428678		
92397787024	DW-5	EPA 8260B	428678		
92397787025	DW-6	EPA 8260B	428678		
92397787026	DUP 1	EPA 8260B	428678		
92397787027	DUP 2	EPA 8260B	428924		
92397787028	FIELD BLANK	EPA 8260B	428678		
92397787029	TRIP BLANK	EPA 8260B	428678		

**REPORT OF LABORATORY ANALYSIS**

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:

SCUR

Project

WO#: 92397787



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: CDK 8/30/18

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: 92T045

Type of Ice:  Wet  Blue  None

Cooler Temp (°C): 3.1 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.0

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil ( N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: TC

Date: 8/30/18

Project Manager SRF Review: TC

Date: 8/30/18



Document Name:  
**Sample Condition Upon Receipt(SCUR)**  
 Document No.:  
**F-CAR-CS-033-Rev.06**

Document Revised: February 7, 2018  
 Page 1 of 2  
 Issuing Authority:  
**Pace Carolinas Quality Office**

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

Project # **WO# : 92397787**

PH: RNC

Due Date: 09/07/18

CLIENT: 92-SCDHEC

Page 1

Item#	BP41U-125 mL Plastic Unpreserved (N/A) (C-)	BP31U-250 mL Plastic Unpreserved (N/A)	BP21U-500 mL Plastic Unpreserved (N/A)	BP11U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HMO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG11U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Uap (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG9U-100 mL Amber Unpreserved vials (N/A)	VG9U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

Project: **WO# : 92397787**

PH: RHC Due Date: 09/07/18  
CLIENT: 92-SCDHEC

Page 2

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WG9U-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SPXT-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG9U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																b													
2																b													
3																b													
4																													
5																b													
6																b													
7																b													
8																b													
9																													
10																b													
11																b													
12																b													

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VDA, Coliform, TOC, Oil and Grease, DRO/BO15 (water) DOC, L.Hg

\*\*Bottom half of box is to list number of bottle

Project # **WO# : 92397787**

PH: RWC Due Date: 09/07/18  
CLIENT: 92-SCDHEC

Page 3

Item#	BP4U-125 ml. Plastic Unpreserved (N/A) (CI-)	BP3U-250 ml. Plastic Unpreserved (N/A)	BP2U-500 ml. Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 ml. Plastic H2SO4 (pH < 2) (CI-)	BP3S-250 ml. plastic HNO3 (pH < 2)	BP4Z-125 ml. Plastic Zn Acetate & NaOH (p-9)	BP4C-125 ml. Plastic NaOH (pH > 12) (CI-)	WGFLU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 ml. Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 ml. Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 ml. Amber NH4Cl (N/A)(CI-)	DG9H-40 ml. VOA HCl (N/A)	VG9T-40 ml. VOA Na2S2O3 (N/A)	VG9U-40 ml. VOA Unp (N/A)	DG9P-40 ml. VOA H3PO4 (N/A)	VDAX (6 vials per kit)-5035 kit (N/A)	V/GSK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 ml. Sterile Plastic (N/A - lab)	SP7T-250 ml. Sterile Plastic (N/A - lab)	BP3A-250 ml. Plastic (NH2)2SO4 (9.3-9.7)	AG8U-100 ml. Amber Unpreserved vials (N/A)	V56U-20 ml. Scintillation vials (N/A)	DG8U-40 ml. Amber Unpreserved vials (N/A)		
1																6													
2																6													
3																6													
4																6													
5																6													
6																6													
7																6													
8																2													
9																													
10																													
11																													
12																													

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

**2269176**

Page 59 of 61

**Section A**  
Required Client Information:

**Section B**  
Required Project Information:

**Section C**  
Invoice Information:

Company: **SCHEC**

Address: **2600 Bull St. Columbia, SC 29201**

Email To: **dunnr@chee.sc.gov**

Phone: **803-588-0671** Fax: \_\_\_\_\_

Requested Due Date/TAT: \_\_\_\_\_

Report To: **R. Dunn**

Copy To: \_\_\_\_\_

Purchase Order No.: \_\_\_\_\_

Project Name: **Interstate Truck Terminal**

Project Number: **UST-00352/ACE-57752**

Attention: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Pace Quote Reference: \_\_\_\_\_

Pace Project Manager: **T. Carter**

Pace Profile #: \_\_\_\_\_

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER

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

Site Location: **SC** **Allendale**

STATE: \_\_\_\_\_

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Pb, Cu, Ni, Cd, Cr, Mn, Fe, Zn, Al, Hg, Se, V, As, Co, Ni, S, O <sub>3</sub> , H <sub>2</sub> O, HNO <sub>3</sub> , HCl, NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , Methanol, Other	Y/N ↓	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)
				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other				
				DATE	TIME	DATE	TIME														
1	MW-1	WTG		8/29/18	14:50			6			X							XXX			
2	MW-2				14:20			1										XXX			
3	MW-3				15:50			1										XXX			
4	MW-4R				15:10			1										XXX			
5	MW-5R				13:10			1										XXX			
6	MW-6				13:20			1										XXX			
7	MW-7				11:50			1										XXX			
8	MW-8				12:20			1										XXX			
9	MW-9				10:50			1										XXX			
10	MW-10	WTG		8/29/18	14:45			6			X							XXX			
11	MW-11							6										XXX			
12	MW-12	WTG		8/29/18	11:40			6			X							XXX			

92397787  
Pace Project No./ Lab ID.

No Odor 001  
Odor 002  
Strong Odor 003  
Odor 004  
Odor 005  
No Odor 006  
No Odor 007  
No Odor 008  
No Odor 009  
No Odor 010  
No Sample  
No Odor 011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[Signature]	8/29/18	12:00	[Signature]	8/29/18	12:03	3D Y N Y
	[Signature]	8/30	12:53	[Signature]	8/31/18	12:03	3D Y N Y

ORIGINAL

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: **Colin Phillips**

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): **8/29/18**

Temp in °C \_\_\_\_\_

Received on Ice (Y/N) \_\_\_\_\_

Custody Sealed Cooler (Y/N) \_\_\_\_\_

Samples Intact (Y/N) \_\_\_\_\_

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









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

September 07, 2018

Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: Interstate Truck T 00332/57752  
Pace Project No.: 92397762

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on August 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: Interstate Truck T 00332/57752  
Pace Project No.: 92397762

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### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Connecticut Certification #: PH-0216  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification #: Cert 0074  
Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity  
New Hampshire Certification #: 2958  
New Jersey Certification #: FL022  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
North Dakota Certification #: R-216  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
Wyoming Certification: FL NELAC Reciprocity  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

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### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

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

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### SAMPLE SUMMARY

Project: Interstate Truck T 00332/57752  
Pace Project No.: 92397762

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92397762001	WSW-2	Water	08/29/18 14:50	08/30/18 06:00
92397762002	DUP-1	Water	08/29/18 14:50	08/30/18 06:00
92397762003	FIELD BLANK	Water	08/29/18 15:12	08/30/18 06:00
92397762004	TRIP BLANK	Water	08/29/18 15:12	08/30/18 06:00

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**SAMPLE ANALYTE COUNT**

Project: Interstate Truck T 00332/57752  
 Pace Project No.: 92397762

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92397762001	WSW-2	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	CAH	11	PASI-C
92397762002	DUP-1	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	CAH	11	PASI-C
92397762003	FIELD BLANK	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	CAH	11	PASI-C
92397762004	TRIP BLANK	EPA 524.2	JLR	10	PASI-O
		EPA 8260B	CAH	11	PASI-C

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### ANALYTICAL RESULTS

Project: Interstate Truck T 00332/57752  
 Pace Project No.: 92397762

Sample: WSW-2 Lab ID: 92397762001 Collected: 08/29/18 14:50 Received: 08/30/18 06:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/06/18 12:06	09/07/18 01:07	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	108	%	70-130		1	09/06/18 12:06	09/07/18 01:07	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		09/06/18 01:22	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/06/18 01:22	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/06/18 01:22	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/06/18 01:22	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		09/06/18 01:22	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		09/06/18 01:22	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/06/18 01:22	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		09/06/18 01:22	460-00-4	
Toluene-d8 (S)	105	%	70-130		1		09/06/18 01:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		09/06/18 01:22	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		08/31/18 05:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		08/31/18 05:57	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		08/31/18 05:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		08/31/18 05:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		08/31/18 05:57	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/31/18 05:57	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/31/18 05:57	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		08/31/18 05:57	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		08/31/18 05:57	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		08/31/18 05:57	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/31/18 05:57	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: Interstate Truck T 00332/57752  
 Pace Project No.: 92397762

Sample: DUP-1 Lab ID: 92397762002 Collected: 08/29/18 14:50 Received: 08/30/18 06:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	09/06/18 12:06	09/07/18 01:25	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	70-130		1	09/06/18 12:06	09/07/18 01:25	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		09/06/18 01:46	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/06/18 01:46	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/06/18 01:46	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/06/18 01:46	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		09/06/18 01:46	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		09/06/18 01:46	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/06/18 01:46	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		09/06/18 01:46	460-00-4	
Toluene-d8 (S)	107	%	70-130		1		09/06/18 01:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		09/06/18 01:46	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		08/31/18 06:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		08/31/18 06:13	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		08/31/18 06:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		08/31/18 06:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		08/31/18 06:13	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/31/18 06:13	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/31/18 06:13	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		08/31/18 06:13	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/31/18 06:13	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		08/31/18 06:13	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		08/31/18 06:13	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: Interstate Truck T 00332/57752  
 Pace Project No.: 92397762

Sample: FIELD BLANK      Lab ID: 92397762003      Collected: 08/29/18 15:12      Received: 08/30/18 06:00      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	09/06/18 12:06	09/07/18 01:43	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	70-130		1	09/06/18 12:06	09/07/18 01:43	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		09/06/18 02:10	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/06/18 02:10	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/06/18 02:10	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/06/18 02:10	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		09/06/18 02:10	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		09/06/18 02:10	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/06/18 02:10	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		09/06/18 02:10	460-00-4	
Toluene-d8 (S)	107	%	70-130		1		09/06/18 02:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		09/06/18 02:10	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		08/31/18 06:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		08/31/18 06:29	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		08/31/18 06:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		08/31/18 06:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		08/31/18 06:29	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/31/18 06:29	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/31/18 06:29	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		08/31/18 06:29	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		08/31/18 06:29	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		08/31/18 06:29	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		08/31/18 06:29	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: Interstate Truck T 00332/57752  
 Pace Project No.: 92397762

**Sample: TRIP BLANK**      **Lab ID: 92397762004**      Collected: 08/29/18 15:12      Received: 08/30/18 06:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		09/06/18 02:34	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/06/18 02:34	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/06/18 02:34	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/06/18 02:34	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		09/06/18 02:34	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		09/06/18 02:34	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/06/18 02:34	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		09/06/18 02:34	460-00-4	
Toluene-d8 (S)	108	%	70-130		1		09/06/18 02:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		09/06/18 02:34	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		08/31/18 06:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		08/31/18 06:46	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		08/31/18 06:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		08/31/18 06:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		08/31/18 06:46	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		08/31/18 06:46	108-20-3	
Ethanol	ND	ug/L	200	131	1		08/31/18 06:46	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		08/31/18 06:46	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		08/31/18 06:46	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		08/31/18 06:46	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		08/31/18 06:46	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Interstate Truck T 00332/57752  
 Pace Project No.: 92397762

QC Batch: 474862 Analysis Method: EPA 524.2  
 QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
 Associated Lab Samples: 92397762001, 92397762002, 92397762003, 92397762004

METHOD BLANK: 2569863 Matrix: Water  
 Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	09/05/18 22:56	
Benzene	ug/L	ND	0.50	0.25	09/05/18 22:56	
Ethylbenzene	ug/L	ND	0.50	0.25	09/05/18 22:56	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	09/05/18 22:56	
Naphthalene	ug/L	ND	0.50	0.25	09/05/18 22:56	
Toluene	ug/L	ND	0.50	0.25	09/05/18 22:56	
Xylene (Total)	ug/L	ND	0.50	0.25	09/05/18 22:56	
1,2-Dichloroethane-d4 (S)	%	117	70-130		09/05/18 22:56	
4-Bromofluorobenzene (S)	%	102	70-130		09/05/18 22:56	
Toluene-d8 (S)	%	106	70-130		09/05/18 22:56	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 2569864 2569865									
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2-Dichloroethane	ug/L	40	46.4	43.6	116	109	70-130	6	40		
Benzene	ug/L	40	44.1	42.9	110	107	70-130	3	40		
Ethylbenzene	ug/L	40	43.1	42.2	108	106	70-130	2	40		
Methyl-tert-butyl ether	ug/L	40	44.0	45.5	110	114	70-130	3	40		
Naphthalene	ug/L	40	37.5	38.3	94	96	70-130	2	40		
Toluene	ug/L	40	40.3	39.8	101	99	70-130	1	40		
Xylene (Total)	ug/L	120	139	137	116	115	70-130	1	40		
1,2-Dichloroethane-d4 (S)	%				113	108	70-130				
4-Bromofluorobenzene (S)	%				100	103	70-130				
Toluene-d8 (S)	%				104	103	70-130				

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

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Interstate Truck T 00332/57752  
Pace Project No.: 92397762

QC Batch: 428143 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92397762001, 92397762002, 92397762003, 92397762004

METHOD BLANK: 2364930 Matrix: Water  
Associated Lab Samples: 92397762001, 92397762002, 92397762003, 92397762004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	08/31/18 01:38	
Diisopropyl ether	ug/L	ND	1.0	0.12	08/31/18 01:38	
Ethanol	ug/L	ND	200	131	08/31/18 01:38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	08/31/18 01:38	
tert-Amyl Alcohol	ug/L	ND	100	50.0	08/31/18 01:38	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	08/31/18 01:38	
tert-Butyl Alcohol	ug/L	ND	100	3.6	08/31/18 01:38	
tert-Butyl Formate	ug/L	ND	50.0	1.9	08/31/18 01:38	
1,2-Dichloroethane-d4 (S)	%	102	70-130		08/31/18 01:38	
4-Bromofluorobenzene (S)	%	96	70-130		08/31/18 01:38	
Toluene-d8 (S)	%	98	70-130		08/31/18 01:38	

LABORATORY CONTROL SAMPLE: 2364931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Diisopropyl ether	ug/L	50	48.9	98	70-130	
Ethanol	ug/L	2000	1900	95	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.6	100	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	110	110	70-130	
tert-Butyl Alcohol	ug/L	500	487	97	70-130	
tert-Butyl Formate	ug/L	400	490	122	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 2364933

Parameter	Units	92397761002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	361	90	70-130	
Diisopropyl ether	ug/L	ND	20	20.0	100	70-130	
Ethanol	ug/L	ND	800	789	99	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	40.6	102	70-130	
tert-Amyl Alcohol	ug/L	ND	400	412	103	70-130	
tert-Amylmethyl ether	ug/L	ND	40	43.3	108	70-130	
tert-Butyl Alcohol	ug/L	ND	200	271	136	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 P5	

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**QUALITY CONTROL DATA**

Project: Interstate Truck T 00332/57752  
Pace Project No.: 92397762

MATRIX SPIKE SAMPLE: 2364933		92397761002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 2364932		92397761001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	105	105	0		
4-Bromofluorobenzene (S)	%	99	97	1		
Toluene-d8 (S)	%	97	98	0		

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**QUALITY CONTROL DATA**

Project: Interstate Truck T 00332/57752  
 Pace Project No.: 92397762

QC Batch: 429144 Analysis Method: EPA 504.1  
 QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
 Associated Lab Samples: 92397762001, 92397762002, 92397762003

METHOD BLANK: 2369359 Matrix: Water  
 Associated Lab Samples: 92397762001, 92397762002, 92397762003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	09/06/18 19:40	
1-Chloro-2-bromopropane (S)	%	121	70-130		09/06/18 19:40	

LABORATORY CONTROL SAMPLE & LCSD: 2369360 2369361

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.30	0.28	125	113	70-130	8	20	
1-Chloro-2-bromopropane (S)	%				121	108	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2369362 2369363

Parameter	Units	92397422003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.25	0.31	0.30	128	124	65-135	3	20	
1-Chloro-2-bromopropane (S)	%						121	118	70-130			

SAMPLE DUPLICATE: 2369364

Parameter	Units	92397761003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	104	116	13		

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## QUALIFIERS

Project: Interstate Truck T 00332/57752  
Pace Project No.: 92397762

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### DEFINITIONS

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

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Interstate Truck T 00332/57752  
 Pace Project No.: 92397762

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92397762001	WSW-2	EPA 504.1	429144	EPA 504.1	429255
92397762002	DUP-1	EPA 504.1	429144	EPA 504.1	429255
92397762003	FIELD BLANK	EPA 504.1	429144	EPA 504.1	429255
92397762001	WSW-2	EPA 524.2	474862		
92397762002	DUP-1	EPA 524.2	474862		
92397762003	FIELD BLANK	EPA 524.2	474862		
92397762004	TRIP BLANK	EPA 524.2	474862		
92397762001	WSW-2	EPA 8260B	428143		
92397762002	DUP-1	EPA 8260B	428143		
92397762003	FIELD BLANK	EPA 8260B	428143		
92397762004	TRIP BLANK	EPA 8260B	428143		

**REPORT OF LABORATORY ANALYSIS**

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-039-Rev.06	Issuing Authority: Pace Carolina Quality Office

Laboratory receiving samples:  
 Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Client Name: SCDHEC Project #: **WO#: 92397762**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: mp 8/30/18

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_ Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  (A Sun ID: 92T045) Type of Ice:  Wet  Blue  None

Cooler Temp (°C): 1.4 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.3

USDA Regulated Soil  N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)?  Yes  No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Batch Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>NO PACE/Time on label</u>
-Includes Date/Time/ID/Analysis Metric: <u>W-T</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. <u>mp 8/30/18</u>
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: TC Date: 8/30/18

Project Manager SRF Review: TC Date: 8/30/18





Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: February 7, 2018 Page 1 of 2
Document No.: F-CAR-CS-083-Rev.06	Issuing Authority: Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/BOIS (water) DOC, UHg  
\*\*Bottom half of box is to list number of bottle

Project: **WO# : 92397762**  
 PH: RMC Due Date: 09/11/18  
 CLIENT: 82-6CDHEC

Serial	Material	1	2	3	4	5	6	7	8	9	10	11	12
	BP99-125 ml. Plastic Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	BP99-250 ml. Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP99-500 ml. Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP99-1 liter Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP99-125 ml. Plastic HClSD4 (pH < 2) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	BP99-250 ml. plastic HClSD4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	BP99-125 ml. Plastic Zn Acetate & NaOH (P-H)	/	/	/	/	/	/	/	/	/	/	/	/
	BP99-125 ml. Plastic NaOH (pH > 12) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	WSPU-Wide-mouthed Glass jar Unpreserved	/	/	/	/	/	/	/	/	/	/	/	/
	ART1M-1 liter Amber Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	ART1M-1 liter Amber HCl (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AG9U-250 ml. Amber Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	AG9U-1 liter Amber HClSD4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AG9U-250 ml. Amber HClSD4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AG9U(0894)-250 ml. Amber HClSD4 (N/A)(C-)	/	/	/	/	/	/	/	/	/	/	/	/
	DB9H-40 ml. VOA HCl (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VB9T-40 ml. VOA Na2S2O3 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VB9U-40 ml. VOA Urac (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	DB9P-40 ml. VOA H3PO4 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VOA (P) vials per 949-5032 IR (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	V/IR (P) vials per 949-5032 IR (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	SP9T-125 ml. Static Plastic (N/A - lab)	/	/	/	/	/	/	/	/	/	/	/	/
	SP9T-125 ml. Static Plastic (N/A - lab)	/	/	/	/	/	/	/	/	/	/	/	/
	BP99-250 ml. Plastic (NA)(2)SD4 (P-3-P-2)	/	/	/	/	/	/	/	/	/	/	/	/
	AG9U-100 ml. Amber Unpreserved vial (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VB9U-20 ml. Scintillation vial (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	DB9U-40 ml. Amber Unpreserved vial (N/A)	/	/	/	/	/	/	/	/	/	/	/	/

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Sample ID	Type of Preservative	pH upon receipt	Date preservative adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



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

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

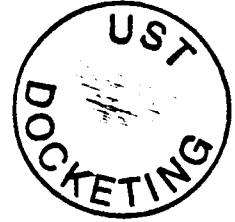
<b>Section A</b> Required Client Information: Company: <b>SCNRC</b> Address: <b>2500 Bull St</b> City: <b>Columbia SC 29201</b> Email To: <b>clerk@dnr.sc.gov</b> Phone: <b>803-896-0671</b> Requested Date Delivered:		<b>Section B</b> Required Project Information: Report To: <b>R. Dunn</b> Copy To: Purchase Order No.: Project Name: <b>Intrastate Rock Terminal</b> Project Number: <b>DT-0032-1002-5752</b>		<b>Section C</b> Invoicing Information: Attention: Company Name: Address: PACE Quote Reference: PACE Project Approval: PACE Profile #: <b>T. Carter</b>		Page: <b>1</b> of <b>1</b> <b>2192816</b> <b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> LIST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER Site Location: <b>SC</b> <b>Alberkle</b> STATE:	
<b>Section D</b> Required Client Information: SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Matrix Codes WWT WW P SL SP WP AP AR TB TS Other	COLLECTED COMPOSITE START COMPOSITE CHECKED		PRESERVATIVES Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH HAc H <sub>2</sub> O <sub>2</sub> Methanol Other		Requested Analysis Filtered (Y/N)	
		MATRIX CODE (see website for list) SAMPLE TYPE (D-GROUP CODE)	SAMPLE TIME AT COLLECTION # OF CONTAINERS	ANALYTICAL TEST # (Y/N)	RESIDUAL CHLORINE (Y/N)	Pace Project No./ Lab I.D. <b>92397762</b> No Sample LDC's <b>001</b> LCL'S <b>002</b> PB <b>003</b> TB <b>004</b>	
ITEM # 1 2 3 4 5 6 7 8 9 10 11 12	WSW-1 WSW-2 D40 Field Blank Ice Blank	WWT WWT WWT WWT	DATE TIME DATE TIME DATE TIME DATE TIME	9 9 9 6	X X X X	X X X X	X X X X
ADDITIONAL COMMENTS		RECEIVED BY / AFFILIATION DATE TIME		ACCEPTED BY / AFFILIATION DATE TIME		SAMPLE CONDITIONS Temp in °C Recovered Air (Y/N) Quality Standard (Y/N) Sampled (Y/N)	
		[Signature] [Signature]		[Signature] [Signature]		13 Y N Y	
ORIGINAL		SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):		Temp in °C Recovered Air (Y/N) Quality Standard (Y/N) Sampled (Y/N)	
		[Signature] [Signature]		8/29/18		13 Y N Y	

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days. F-ALL-O-025rev.07, 15-May-2007



JUL 05 2019

MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071



Re: Site Specific Work Plan Requests  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400012906 and the UST Management Division Quality Assurance Program Plan (QAPP) Revision 3.1, submission of Site Specific Work Plans (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 15 calendar days to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. Please contact me with the sampling schedule before commencing work at these facilities. A weekly update for each site is required to be submitted via email to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-0671 or email [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov).

Sincerely,

Robert A. Dunn, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Site Information Packages

Cc: Angela Baioni, Pace Analytical Services, 9800 Kincey Ave. STE 100, Huntersville, NC 28078 (w/ Summary)  
Technical File (w/o Enc)

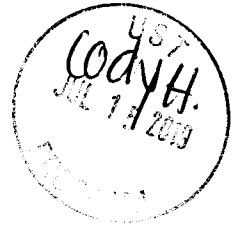
Stephanie

July 12, 2019

**Midlands  
Environmental  
Consultants, Inc.**



Mr. Robert Dunn, Hydrogeologist  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



**Subject:** Site-Specific Work Plan  
Interstate Truck Terminal  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 19-6993  
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn,

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

On July 8, 2019, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

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

For  
J. Levi Pinckney  
Staff Biologist

  
Jeff L. Coleman  
Senior Scientist



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

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

Facility Name: Interstate Truck Terminal UST Permit #: 00332
Facility Address: Intersection of Highway 301 & 321, Ulmer, SC 29849
Responsible Party: Julius Moody Phone: 803-245-4470
RP Address: Rt 3 PO Box 192 B, Bamberg, SC 29003
Property Owner (if different): Harry Bennett
Property Owner Address: 1093 Bufords Bridge Hwy. Ulmer, SC 29849
Current Use of Property: Abandoned Store

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Drinking Water Supply Wells:

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

Soil:

- BTEXNM, PAH, Lead, RCRA Metals, Oil & Grease (9071), TPH-DRO (3550B/8015B), TPH-GRO (5030B/8015B), Grain Size, TOC

Air:

- BTEXN

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

Soil 1 Water Supply Wells Air 2 Field Blank
28 Monitoring Wells 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 #: 00332 Facility Name: Interstate Truck Terminal

**Implementation Schedule (Number of calendar days from approval)**  
Field Work Start-Up: 7/12/2019 Field Work Completion: 8/12/2019  
Report Submittal: 9/12/2019 # of Copies Provided to Property Owners: 0

**Aquifer Characterization**  
Pump Test:  Slug Test:  (Check one and provide explanation below for choice)  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**  
Soil: \_\_\_\_\_ Tons Purge Water: 300.0 Gallons  
Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**  
For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
-During the initial site visit, monitoring well MW-11 was unable to be located. All other monitoring wells were located. A total of four bolts are needed to properly secure wells at the subject site.  
-All wells will be purged prior to sample collection.  
-One water supply well sample will also be collected (WSW-2).  
-Monitoring well samples will be analyzed for BTEXNM, 8-OXY, 1,2-DCA (8260B) & EDB (8011).  
-Water supply well samples will be analyzed for BTEXNM, 1,2-DCA (524.2), 8 Oxy's (8260B) & EDB (504.1).

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**  
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_  
N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.  
Name of Well Driller: \_\_\_\_\_  
SCLLR Certification Number: \_\_\_\_\_  
None Other variations from ACQAP. Please describe below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

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



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

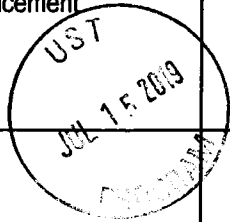
Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO NUMBER 4600559329**

**Facility Name:** Interstate Truck Terminal

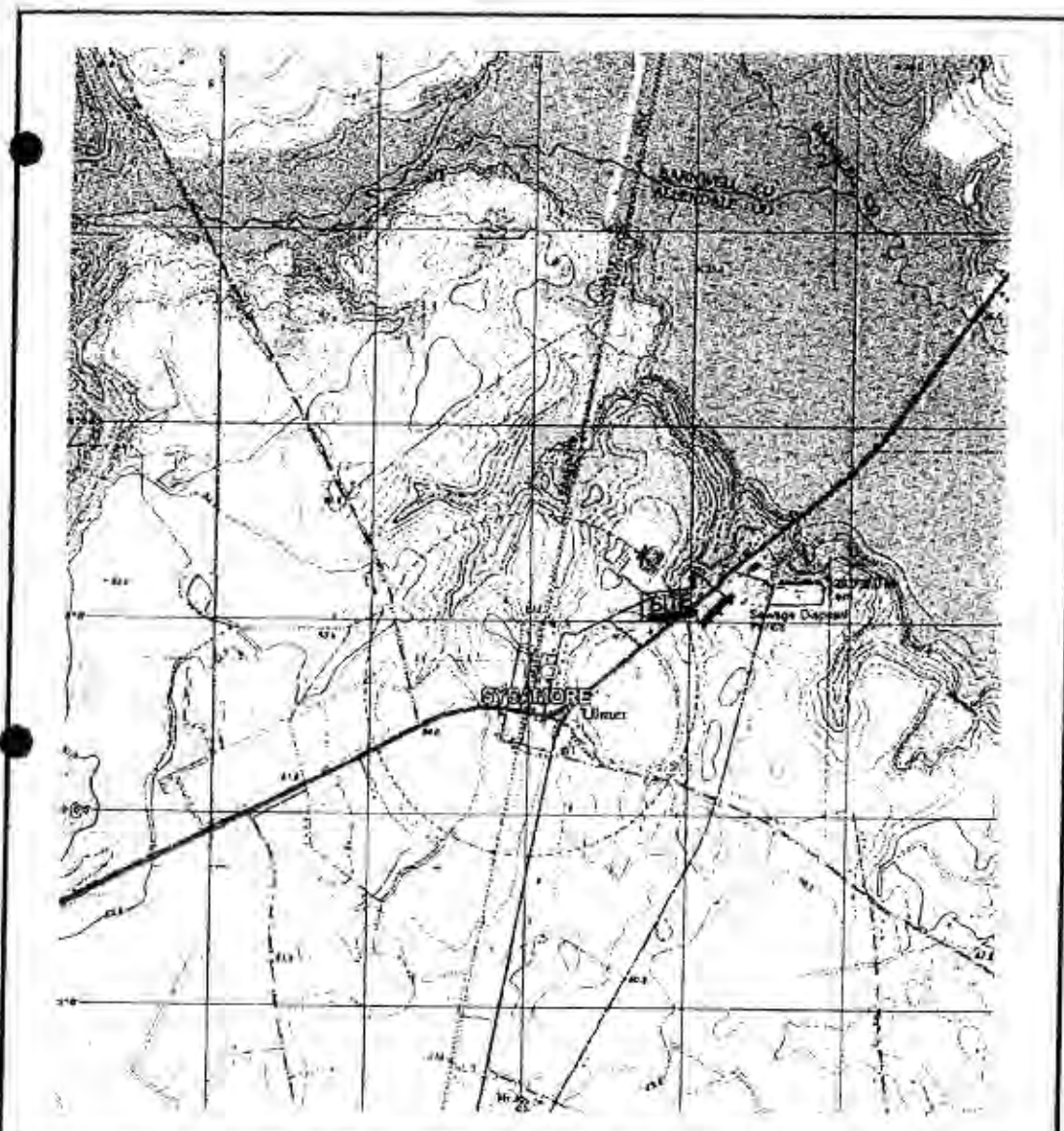
**UST Permit #:** 00332

**Cost Agreement #:** Proposal

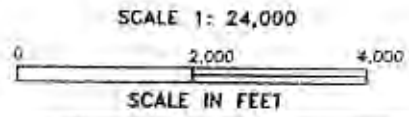
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$1.00	\$1.00
B1. Tax Map		each	\$1.00	\$0.00
C1. QAPP Appendix B		each	\$1.00	\$0.00
<b>2. A1. Receptor Survey</b>		each	\$1.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$1.00	\$2.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	28	per well	\$36.50	\$1,022.00
B1. Air or Vapors		samples	\$1.00	\$0.00
C1. Water Supply	1	samples	\$18.00	\$18.00
D1. Groundwater No Purge or Duplicate		per well	\$27.50	\$0.00
E1. Gauge Well only		per well	\$1.00	\$0.00
F1. Sample Below Product		per well	\$1.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	2	each	\$1.00	\$2.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	300	gallons	\$1.00	\$300.00
BB. Free Product		gallons	\$0.05	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
<b>23. D. Site Reconnaissance</b>	1	each	\$1.00	\$1.00
<b>18. Miscellaneous</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Data Table		each	\$50.00	\$0.00
Low Flow Sampling		per well	\$55.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$50.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$50.00	\$0.00
D1. Replace Well Vault		each	\$50.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts	4	each	\$2.60	\$10.40
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$1,356.40</b>



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



REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



DRAWN: SRC	DATE: 12/05/05
LIST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

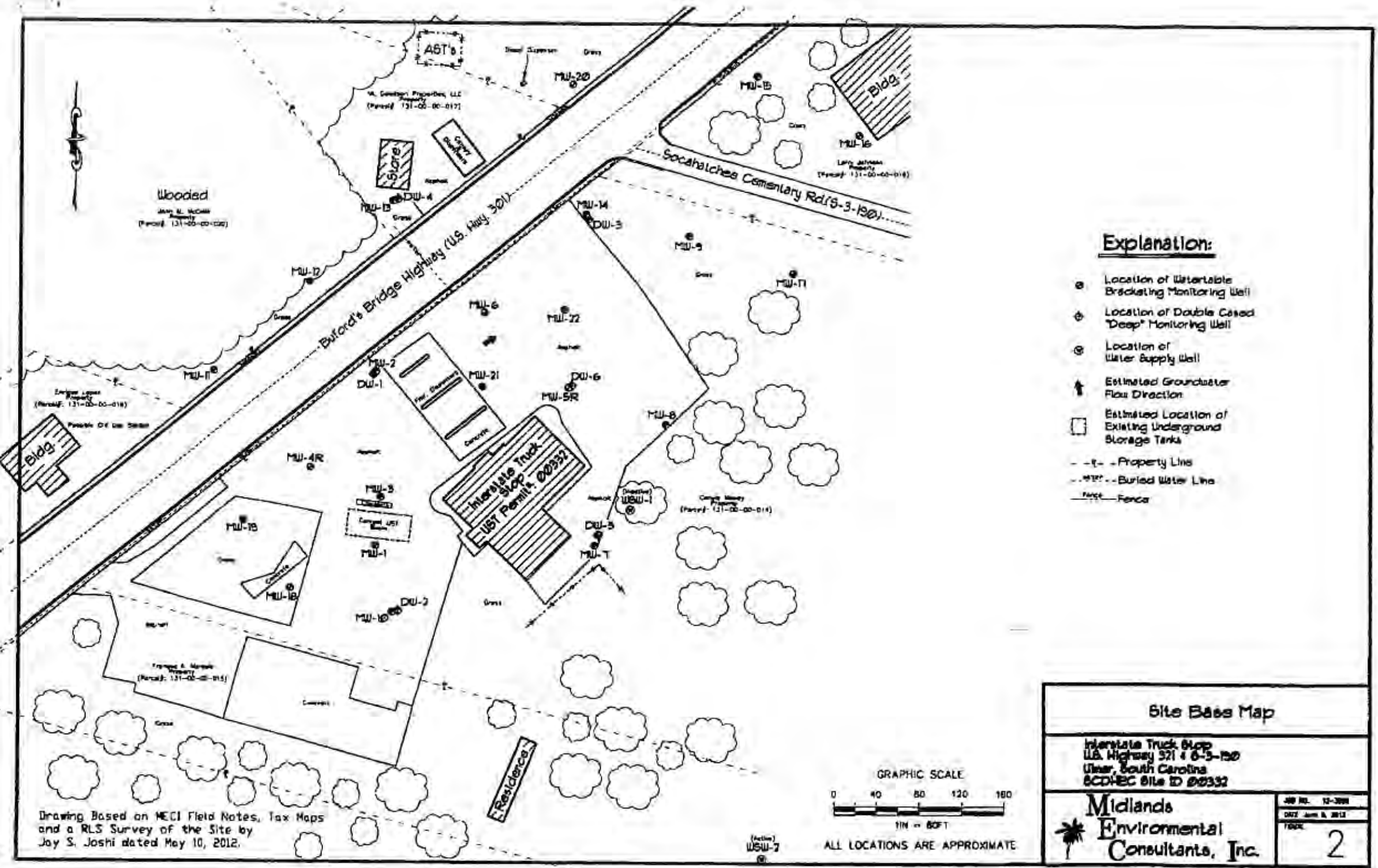
FIGURE 1  
SITE LOCATION MAP

**CONSULTECH ENVIRONMENTAL, INC.**

Environmental Consulting  
and Engineering  
© 1998

Protecting Earth's air, water & land's natural resources.

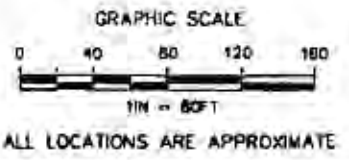




**Explanation:**

- ⊙ Location of Waterable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊗ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- - - Buried Water Line
- Fence

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Joy S. Joshi dated May 10, 2012.



<b>Site Base Map</b>	
Interstate Truck Stop U.S. Highway 321 & S-3-190 Union, South Carolina SCDEC Site ID 00332	
<b>Midlands Environmental Consultants, Inc.</b>	JOB NO. 12-2008 DATE June 8, 2012 DRAWING NO. <b>2</b>

leo Tech

MW ID	Sampling Date	Screened Interval	GW Depth	TOC Elevation	GW Elevation	Free Product	Benzene	Toluene	Ethylb	Xylene	MIBE	Naphth	EDB	1,2 DCA	ETBE	ETBA	TAME	DIPE	Ethanol	TBF	TBA	TAA	Lead		
<b>RBSL (ug/L)</b>							<b>5</b>	<b>1000</b>	<b>700</b>	<b>10,000</b>	<b>40</b>	<b>25</b>	<b>0.05</b>	<b>5</b>	<b>47</b>	<b>NE</b>	<b>128</b>	<b>150</b>	<b>10,000</b>	<b>NE</b>	<b>1400</b>	<b>240</b>	<b>15</b>		
MW-1	9/19/02	25-35'	30.06				<5.0	<5.0	<5.0	<15	<5.0	<5.0	<0.020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	25	
	4/6/05		28.11	100.00	71.89		78.4	3400	1730	7880	<0.2	153	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	100	
	9/6/06		28.88	103.24	74.36		<0.67	1.2	1.4	2.9	<0.62	<4.0	<0.0049	<0.82	<1.1	<1.7	<1.1	<0.89	<55	<18	<1.1	<15	<3.9		
	12/10/08		29.58	103.24	73.66		6.42	3.71	33.5	69.52	<0.18	12.5	<0.0051	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2	
	4/8/10		25.00	103.24	78.24		3.5	18.6	28.7	63	<2.0	14.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/5/11		28.72	103.24	74.52		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.20	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	NS	
	10/5/11 DUP		28.72	103.24	74.52		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	NS	
	5/16/12		30.05	165.08	135.03		2.4	<1.7	4.3	2.9	<0.40	<1.7	<0.20	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	NS	
	5/16/12 DUP		30.05	165.08	135.03		2.6	<1.7	5.5	3.5	<0.40	1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	NS	
	6/10/13		25.15	165.08	139.93		3.3	2.9	31	83	<0.40	3.8	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	NS	
	6/10/13 DUP		25.15	165.08	139.93		3.4	3.1	36	100	<0.40	3.6	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	17	26	NS	NS	
	2/16/16		22.81	165.08	142.27		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	NS	
	2/16/16 DUP		22.81	165.08	142.27		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	NS	
11/14/17		25.55	165.08	139.53		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	NS		
11/14/17 DUP		25.55	165.08	139.53		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	NS		
8/29/18		25.90	165.08	139.18		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	NS		
MW-2	9/19/02	25-35'	29.88				<500	3800	1300	4300	<5.0	140	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	54	
	4/6/05		28.18	100.93	72.75		2.4	4.7	17.8	35.5	<0.2	2.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.2	
	9/6/06		28.64	102.49	73.85		180	4400	2200	11000	<12	200	0.24	<16	<22	<340	<22	<18	<1100	<360	<22	<300	109		
	12/10/08		29.44	102.49	73.05		154	2180	1450	5450	<1.80	271	0.099	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	14
	4/8/10		25.09	102.49	77.40		160	1890	969	2540	<2.0	237	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/5/11		28.60	102.49	73.89		200	6500	2600	9300	<16	<68	0.039	<12	<8.0	<40	<8.0	<16	<1300	<40	<270	1900	NS	NS	
	5/16/12		29.95	164.19	134.24		150	4600	2100	14000	<8.0	320	0.089	<6.0	<4.0	<20	<4.0	<8.0	<660	<20	<130	<130	NS	NS	
	6/10/13		25.63	164.19	138.56		67	820	1300	5000	<20	150	0.029	<15	<10	<50	<10	<20	<1700	<50	<340	<340	NS	NS	
	6/10/13 DUP		25.63	164.19	138.56		70	820	1400	5300	<20	170	0.03	<15	<10	<50	<10	<20	<1700	<50	<340	600	NS	NS	
	2/16/16		22.97	164.19	141.22		<21.2	155	1180	3840	<21.2	133	<0.020	<22.5	<45	<401	<42.5	<21.2	<1720	<91.2	<721	<960	NS	NS	
	2/16/16 DUP		22.97	164.19	141.22		<21.2	144	1180	3810	<21.2	137	<0.020	<22.5	<45	<401	<42.5	<21.2	<1720	<91.2	<721	<960	NS	NS	
	11/14/17		25.59	164.19	138.60		<21.2	81.5	954	3040	<21.2	104	<0.019	<22.5	<45	<401	<42.5	<21.2	<1640	<91.2	<721	<960	NS	NS	
	8/29/18		25.82	164.19	138.37		<21.2	490	1110	3780	<21.2	177	<0.020	<22.5	<45	<401	<42.5	<21.2	<1640	<91.2	<721	<960	NS	NS	
8/29/18 DUP		25.82	164.19	138.37		<17	565	1050	3230	<17	135	<0.020	<18	<36	<321	<34	<17	<1310	<73	<577	<768	NS	NS		
MW-3	4/6/05	24-34'	28.52	101.08	72.56		6.1	132	532	2590	<0.2	171	0.09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	42
	9/6/06		28.14	103.46	75.32		<13	29	130	650	<12	<80	<0.0050	<16	<22	<340	<22	<18	<1100	<360	<22	<300	<3.9		
	12/10/08		30.35			1.5'	6.5	52.6	234	1766	<0.90	268	<0.0050	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	11
	4/8/10		26.74	103.46	76.72		7.8	133	1120	5270	<2.0	93.1	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/5/11		29.05	103.46	74.41		2.3	6.2	39	110	<0.40	40	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	38	NS	NS	
	10/5/11 DUP		29.05	103.46	74.41		1.9	5.6	30	93	<0.40	36	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	39	NS	NS	
	5/16/12		30.92	165.26	134.81	0.55'	1.7	<1.7	9.6	44	<0.40	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/10/13		25.85	165.26	139.41		5.4	48	98	320	<2.0	9	0.26	<1.5	<1.0	<5.0	<2.0	<4.0	<330	<10	<67	1300	NS	NS	
	2/16/16		23.01	165.26	142.25		<4.2	11.8	235	1070	<4.2	112	<0.019	<4.5	<9.0	<80.2	<8.5	<4.2	<344	<18.2	<144	<192	NS	NS	
	11/14/17		26.00	165.26	139.26		<1.7	5	100	356	<1.7	19.1	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	NS	
	8/29/18		26.23	165.26	139.03		<1.7	<1.6	100	367	<1.7	24.9	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	NS	
	8/29/18 DUP		26.23	165.26	139.03		<1.7	<1.6	24.3	72.8	<1.7	5.3	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	NS	
	MW-4	4/6/05	24-34'	25.63	99.10	73.47		5.7	79	352	702	<0.2	55	<0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4R	9/7/06	25-35'	27.35	101.87	74.52		6.8	1300	1200	6200	<6.2	130	0.23	<8.2	<11	<170	<11	<8.9	<550	<180	<11	<150	27.6		
	12/10/08		28.09	101.87	73.78		45.4	1120	976	4337	<1.80	432	<0.0052	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26
	4/8/10		23.61	101.87	78.26	Sheen	16.1	556	768	3480	<2.0	76	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/5/11		27.31	101.87	74.56		32	1400	950	3900	<8.0	<34	0.064	<6.0	<4.0	<20	<4.0	<8.0	<660	<20	<130	540	NS	NS	
	5/16/12		28.63	163.93	135.30		18	620	350	1600	<4.0	120	<0.020	<3.0	<2.0	<10	<2.0	<4.0	<330	<10	<67	1300	NS	NS	
	5/16/12 DUP		28.63	163.93	135.30		19	740	470	2100	<4.0	120	<0.019	<3.0	<2.0	<10	<2.0	<4.0	<330	<10	<6				

MW ID	Sampling Date	Screened Interval	GW Depth	TOC Elevation	GW Elevation	Free Product	Benzene	Toluene	Ethylb	Xylene	MtBE	Naphth	EDB	1,2 DCA	ETBE	ETBA	TAME	DIPE	Ethanol	TBF	TBA	TAA	Lead
RBSL (ug/L)							5	1000	700	10,000	40	25	0.05	5	47	NE	128	150	10,000	NE	1400	240	15
MW-7	9/7/06	25-35'	31 10	104.36	73.26		<0.67	<0.68	<0.66	1.8	<0.62	<4.0	<0.0047	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	27.4
	12/10/08		31 91	104.36	72.45		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0049	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		27.24	104.36	77.12		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		31.10	104.36	73.26		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	5/16/12		32.35	166.41	134.06		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	6/10/13		22.83	166.41	143.58		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	2/16/16		25.16	166.41	141.25		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS
	11/14/17		27.90	166.41	138.51		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS
8/29/18		28.51	166.41	137.90		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
MW-8	9/13/06	25-35'	30 03	102.76	72.73		<0.67	2	<0.66	2	<0.62	<4.0	<0.0046	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	<3.9
	12/10/08		31.07	102.76	71.69		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0049	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/8/10		26.54	102.76	76.22		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		30.30	102.76	72.46		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	5/16/12		31.59	164.79	133.20		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	6/10/13		27.18	164.79	137.61		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	2/16/16		24.78	164.79	140.01		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	194	<7.3	<57.7	<76.8	NS
	11/14/17		27.21	164.79	137.58		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS
8/29/18		27.63	164.79	137.16		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
MW-9	9/7/06	25-35'	28 12	99.67	71.55		180	2900	750	5000	<6.2	290	<0.0051	<8.2	<1.1	<170	<11	<8.9	<550	<180	<11	<150	14.2
	12/10/08		28 79	99.67	70.88		62.8	1540	284	3580	<0.18	167	0.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	11
	4/8/10		25.89	99.67	73.78		3.7	1.8	2.4	22	<2.0	4.7	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		28.12	99.67	71.55		42	430	180	2200	<4.0	180	<0.019	<3.0	<2.0	<1.0	<2.0	<4.0	<330	<1.0	<6.7	480	NS
	5/16/12		29.40	161.70	132.30		17	<8.5	<8.5	<8.5	25	53	<0.020	<1.5	<1.0	<5.0	<1.0	440	<170	<5.0	1100	<34	NS
	6/10/13		25.09	161.70	136.61		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	2/16/16		22.65	161.70	139.05		8.3	29.5	49.1	419	<3.4	220	<0.020	<3.6	<7.2	<64.2	<6.8	<3.4	<276	<14.6	<115	<154	NS
	11/14/17		25.15	161.70	136.55		<8.5	95.1	220	1300	<8.5	415	<0.019	<9.0	<18	<160	<17	<8.5	<655	<36.5	<288	<384	NS
8/29/18		25.39	161.70	136.31		<4.2	74	82.1	759	<4.2	145	<0.019	<4.5	<9.0	<80.2	<8.5	<4.2	<328	<18.2	<144	<192	NS	
MW-10	9/7/06	25-35'	28 01	102.33	74.32		<0.67	<0.68	<0.66	<1.8	<0.62	<4.0	<0.0047	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	16
	12/10/08		28.74	102.33	73.59		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0051	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/8/10		25.22	102.33	77.11		13	<1.8	<1.1	<2.7	63.8	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		27.30	102.33	75.03		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	5/16/12		29.25	164.44	135.19		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	6/10/13		25.09	164.44	139.35		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	2/16/16		21.44	164.44	143.00		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS
	11/14/17		24.73	164.44	139.71		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS
8/29/18		25.09	164.44	139.35		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
MW-11	9/13/06	25-35'	25 31	100.40	75.09		1.1	3.4	1.8	8.2	<0.62	<4.0	<0.0046	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	36.4
	12/10/08		26.11	100.40	74.29		<0.16	6.13	7.82	24.05	<0.18	<0.22	<0.0050	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/8/10		23.56	100.40	76.84		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		Not Located																				
	5/16/12		28.70	162.46	133.76		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	6/10/13		22.50	162.46	139.96		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.021	<5.0	<100	<100	<1.0	<1.0	<1000	<100	<100	<100	NS
	2/16/16		19.84	162.46	142.62		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS
	11/14/17		Not Located																				
8/29/18		Not Located																					
MW-12	9/13/06	25-35'	25.79	99.29	73.50		<0.67	<0.68	<0.66	<1.8	<0.62	<4.0	<0.0046	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	<3.9
	12/10/08		26.18	99.29	73.11		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0050	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		23.41	99.29	75.88		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		25.59	99.29	73.70		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	5/16/12		27.20	161.36	134.16		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	6/10/13		23.00	161.36	138.36		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS
	2/16/16		20.43	161.36	140.93		&																

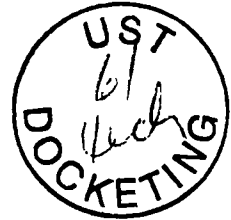
MW ID	Sampling Date	Screened Interval	GW Depth	TOC Elevation	GW Elevation	Free Product	Benzene	Toluene	Ethylb	Xylene	MtBE	Naphth	EDB	1,2 DCA	ETBE	ETBA	TAME	DIPE	Ethanol	TBF	TBA	TAA	Lead			
RBSL (ug/L)							5	1000	700	10,000	40	25	0.05	5	47	NE	128	150	10,000	NE	1400	240	15			
MW-15	8/29/18		24.58	161.32	136.74		<21.2	899	899	3380	<21.2	116	<0.019	<22.5	<45	<401	<42.5	<21.2	<1640	<91.2	<721	<960	NS			
	12/10/08	15-35'	28.14	97.95	69.81		<0.16	2.78	<0.19	<0.71	<0.18	<0.22	<0.0049	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	17		
	4/8/10		25.19	97.95	72.76		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	10/5/11		27.74	97.95	70.21		0.28	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS			
	5/16/12		28.89	160.07	131.18		<0.20	<1.7	<1.7	<1.7	<0.40	10	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS			
	6/10/13		24.62	160.07	135.45		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS			
	2/16/16		22.29	160.07	137.78		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS			
	11/14/17		24.75	160.07	135.32		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS			
8/29/18		24.89	160.07	135.18		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS				
MW-16	12/10/08	15-35'	30.52	99.94	69.42		32.4	303	137	3150	<0.18	263	<0.0048	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
	1/15/09						26	152	76.7	1310	<10.0	182	NS	<6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS			
	4/8/10						Not Located																			
	10/5/11		30.00	99.94	69.94		50	73	270	2400	<4.0	490	<0.020	<3.0	<0.80	<4.0	<0.80	<1.6	<130	<4.0	<27	230	NS			
	5/16/12		31.12	162.01	130.89		18	180	330	4400	<4.0	440	<0.019	<3.0	<1.0	<1.0	<2.0	<4.0	<330	<10	<67	1200	NS			
	6/10/13		26.83	162.01	135.18		4.4	<8.5	<8.5	640	<2.0	150	<0.020	<1.5	<1.0	<5.0	<1.0	<2.0	<170	<5.0	<34	<34	NS			
	2/16/16		Not Sampled/ Dry																							
	11/14/17		Not Sampled/ Dry/ Obstructed?																							
8/29/18		Not Sampled/ Dry																								
MW-17	12/10/08	15-35'	29.71	100.23	70.52		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0049	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2			
	4/8/10		Not Located																							
	10/5/11		Not Located																							
	5/16/12		30.27	162.26	131.99		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS			
	6/10/13		25.93	162.26	136.33		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS			
	2/16/16		23.52	162.26	138.74		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS			
	11/14/17		25.95	162.26	136.31		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS			
	8/29/18		26.30	162.26	135.96		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS			
MW-18	12/10/08	15-35'	25.74	99.96	74.22		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0050	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2			
	4/8/10		21.01	99.96	78.95		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS			
	10/5/11		24.97	99.96	74.99		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS			
	5/16/12		26.35	162.14	135.79		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS			
	6/10/13		21.38	162.14	140.76		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	21	<6.7	NS			
	2/16/16		18.39	162.14	143.75		<1.7	<1.6	2	8.9	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS			
	11/14/17		21.87	162.14	140.27		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS			
	8/29/18		22.03	162.14	140.11		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS			
MW-19	12/10/08	15-35'	26.53	100.86	74.33		<0.16	36.6	145	313.3	<0.18	58.4	<0.0050	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2			
	4/8/10		21.85	100.86	79.01		9.8	225	167	916	<4.0	19.5	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS			
	10/5/11		25.73	100.86	75.13		7.4	130	180	900	<0.40	22	0.1	0.62	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	630	NS			
	5/16/12		27.10	163.02	135.92		4.2	98	140	1200	<2.0	71	0.075	<1.5	<1.0	<5.0	<1.0	<2.0	<170	<5.0	<34	620	NS			
	6/10/13		22.46	163.02	140.56		3.8	90	55	640	<2.0	<8.5	<0.020	<1.5	<1.0	<5.0	<1.0	<2.0	<170	<5.0	<34	210	NS			
	2/16/16		19.42	163.02	143.60		<1.7	<1.6	2.6	12.1	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS			
	11/14/17		22.61	163.02	140.41		<1.7	<1.6	5.2	9.2	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS			
	8/29/18		22.84	163.02	140.18		<3.4	4.1	77	309	<3.4	9.1	<0.019	<3.6	<7.2	<64.2	<6.8	<3.4	<262	<14.6	<115	<154	NS			
MW-20	12/10/08	15-35'	27.09	98.54	71.45		<0.16	<0.14	<0.19	5.1	<0.18	2.2	<0.0050	NS	NS	NS	NS	NS	NS	NS	NS	NS	68			
	4/8/10		25.22	98.54	73.32		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS			
	10/5/11		26.75	98.54	71.79		<0.20	<1.7	1.9	1.8	<0.40	2.1	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS			
	5/16/12		28.10	160.57	132.47		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS			
	6/10/13		23.90	160.57	136.67		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS			
	2/16/16		21.31	160.57	139.26		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS			
	11/14/17		23.95	160.57	136.62		<1.7	<1.6	<1.6	<5.0	<1.7	6.2	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS			
	8/29/18		24.10	160.57	136.47		<1.7	<1.6	<1.6	<5.0	<1.7	13	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS			
MW-21	10/25/10	25-35'	28.68	103.77	75.09		Not Sampled/ Well Installation																			
	10/5/11		30.60	103.77	73.17		11	220	150	710	<0.80	53	0.067	<0.60	<0.40	<2.0	<0.40	<0.80	<66	<2.0	<13	44	NS			
	5/16/12		31.99	165.78	133.81	0.02'	26	520	790	3600	<4.0	530	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
	6/10/13		25.51	165.78	140.27		Not Sampled/ Free Product																			
	2/16/16		24.94	165.78	140.84		12.2	225	301	1680	<8.5	140	NS	<9.0	<1.8	<160	<1.7	<8.5	<689	<36.5	<288	<384	NS			
	11/14/17		27.49	165.78	138.29		21.9	558	647	3280	&															

MW ID	Sampling Date	Screened Interval	GW Depth	TOC Elevation	GW Elevation	Free Product	Benzene	Toluene	Ethylb	Xylene	MIBE	Naphth	EDB	1,2DCA	ETBE	ETBA	TAME	DIPE	Ethanol	TBF	TBA	TAA	Lead	
<b>RBSL (ug/L)</b>							<b>5</b>	<b>1000</b>	<b>700</b>	<b>10,000</b>	<b>40</b>	<b>25</b>	<b>0.05</b>	<b>5</b>	<b>47</b>	<b>NE</b>	<b>128</b>	<b>150</b>	<b>10,000</b>	<b>NE</b>	<b>1400</b>	<b>240</b>	<b>15</b>	
	8/29/18		27.29	164.20	136.91		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
DW-2	9/14/06	65-70'	28.90	102.59	73.69		<0.67	2.9	2	14	<0.62	<4.0	<0.0049	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	<3.9	
	12/10/08		29.77	102.59	72.82		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0048	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		26.39	102.59	76.20		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		29.20	102.59	73.39		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12		32.64	164.64	132.00		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		27.49	164.64	137.15		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		23.26	164.64	141.38		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		25.61	164.64	139.03		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		26.95	164.64	137.69		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
DW-3	9/14/06	65-70'	28.41	99.53	71.12		1.2	17	5.5	29	<0.62	<4.0	<0.0048	<0.82	<1.1	<17	<1.1	<0.89	<55	18	<1.1	<15	12.2	
	12/10/08		28.98	99.53	70.55		<0.16	2.3	<0.19	<0.71	<0.18	<0.22	<0.0051	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		25.10	99.53	74.43		15.3	2.5	4.8	49	<2.0	11.5	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		Not Located																					
	5/16/12		29.60	161.58	131.98		11	<1.7	4.9	57	<0.40	15	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	210	NS	
	6/10/13		25.45	161.58	136.13		19	8.1	34	120	<0.40	23	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	210	NS	
	2/16/16		22.94	161.58	138.64		33.9	6.3	181	21.6	<1.7	40	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	275	NS	
	11/14/17		25.28	161.58	136.30		11.1	4.1	130	13.1	<1.7	19	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	98.2	NS	
	8/29/18		26.35	161.58	135.23		12	6.9	124	17.7	<1.7	54	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	128	NS	
DW-4	10/2/06	65-70'	28.79	99.86	71.07		<0.67	<0.68	<0.66	<1.8	<0.62	<4.0	<0.0048	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	<3.9	
	12/10/08		28.29	99.86	71.57		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0048	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		26.32	99.86	73.54		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		28.48	99.86	71.38		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12		29.67	161.72	132.05		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		25.75	161.72	135.97		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		22.79	161.72	138.93		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		25.56	161.72	136.16		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		25.85	161.72	135.87		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
DW-5	12/10/08	75-80'	32.96	104.66	71.70		<0.16	3.31	1.21	6.32	<0.18	<0.22	0.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		Could not open to obtain sample																					
	10/5/11		32.11	104.66	72.55		0.2	<1.7	<1.7	2.8	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12	80-85'	33.40	166.68	133.28		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		29.15	166.68	137.53		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		24.78	166.68	141.90		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		27.65	166.68	139.03		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		26.75	166.68	139.93		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
DW-6	12/10/08	75-80'	32.99	103.98	70.99		<0.16	<0.14	<0.19	2.07	<0.18	<0.22	0.19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		28.75	103.98	75.23		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		31.76	103.98	72.22		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.025	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12	80-85'	33.25	166.02	132.77		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		29.11	166.02	136.91		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		26.34	166.02	139.68		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		29.09	166.02	136.93		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
8/29/18		29.34	166.02	136.68		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS		
WSW-1		N/A	Unable to be Located/ Attempted abandonment 4/15/10																					
	2/16/16		Inactive/ no electrical supply																					
	11/14/17		Inactive/ Well removed																					
WSW-2	9/6/06	N/A					<0.67	<0.68	<0.66	<1.8	<0.62	<4.0	<0.0047	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	<3.9	
	12/10/08						<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	4/8/10						<0.25	<0.26	<0.30	<0.66	<0.21	<0.24	NS	<0.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/5/11						<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12						<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13						<0.13	<0.33	&															



Healthy People. Healthy Communities.

SEP 16 2019



MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

Re: Notice to Proceed-Site Specific Work Plan Approval  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906, PO #4600719338  
Interstate Truck Terminal, HWY 301 & 321, Ulmer, SC  
UST Permit #00332; MECI CA #60314; Pace CA #60315  
Allendale County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400012906 and the Underground Storage Tank (UST) Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved QAPP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail.

Services at the site are to be performed on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. Please coordinate access to the facility with the property owner. **Sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within three weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.** The final report should comply with the UST QAPP and any additional requirements of the bid solicitation § III. The final report is to be submitted to Robert Dunn, the contract manager.

If you have any site-specific questions, please contact me at (803) 898-0605 or via e-mail at [baldwiba@dhec.sc.gov](mailto:baldwiba@dhec.sc.gov). If you have any contract specific questions, please contact Robert Dunn by phone (803) 898-0671 or email [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Brad Baldwin".

Brad Baldwin, Hydrogeologist  
Corrective Action & Quality Assurance Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Approved Cost Agreement (both CAs)

Cc: Angela Baioni, Pace Analytical Services, 9800 Kinsey Ave, STE 100, Huntersville, NC, 28078 (w/ CA)  
Technical File (w/ Enc)

**Approved Cost Agreement 60314**

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

HEINZECW

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1.0000	\$1.000	1.00
04 MOB/DEMOB		B1 PERSONNEL	2.0000	\$1.000	2.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	28.0000	\$36.500	1,022.00
		C1 WATER SUPPLY	1.0000	\$18.000	18.00
		H1 FIELD BLANK	2.0000	\$1.000	2.00
17 DISPOSAL		AA WASTEWATER	300.0000	\$1.000	300.00
23 EFR		D SITE RECONNAISSANCE	1.0000	\$1.000	1.00
25 WELL REPAIR		F1 REPLACE WELL COVER BOLTS	4.0000	\$2.600	10.40
			<b>Total Amount</b>		<b>1,356.40</b>

**Approved Cost Agreement      60315**

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

HEINZECW

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	33.0000	\$21.000	693.00
		F1 EDB BY 8011	31.0000	\$18.000	558.00
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	4.0000	\$36.000	144.00
		M 7-OXYGENATES & ETHANOL (8260B)	4.0000	\$13.000	52.00
		N EDB (504.1)	3.0000	\$18.000	54.00
		<b>Total Amount</b>			<b>1,501.00</b>





October 10, 2019

*Bruce Baldwin*

Mr. Robert A. Dunn, Hydrogeologist  
 Corrective Action Section  
 Underground Storage Tank Program  
 Bureau of Land and Waste Management  
 South Carolina Department of Health  
 and Environmental Control  
 2600 Bull Street  
 Columbia, South Carolina 29201



Subject: Report of Groundwater Sampling  
 Interstate Truck Terminal  
 Intersection of Highway 301 & 321  
 Ulmer, South Carolina  
 SCDHEC Site ID Number 00332; CA # 60314  
 MECI Project Number 19-6993  
 Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

**PROJECT INFORMATION**

The subject site (Interstate Truck Terminal) is located near the intersection of Highway 301 & Highway 321 in Ulmer, Allendale County, South Carolina. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	8,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
2	8,000 Gal Diesel Fuel	In Ground	Rendered Non-Usable
3	8,000 Gal. Gasoline	In Ground	Rendered Non-Usable
4	6,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
5	6,000 Gal Gasoline	In Ground	Rendered Non-Usable
6	6,000 Gal. Gasoline	In Ground	Rendered Non-Usable
7	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
8	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
9	4,000 Gal Diesel Fuel	In Ground	Rendered Non-Usable

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in June of 2002. This release was confirmed in October of 2002, and the release has been ranked a class 2BB due to water supply wells being located within 1,000' feet of the site.

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

## MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On September 27, 2019, MECI personnel collected groundwater samples from twenty-five (25) monitoring wells and one (1) water supply well at the subject site. Two (2) monitoring wells were gauged and one (1) well was not located (See Site Activity Sheets for Details). Based on a request from SCDHEC, all monitoring wells were to be purged prior to sample collection. Twenty-five (25) monitoring wells were purged prior to sampling.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE (EPA Method 524.2)	EDB (EPA Method 504.1)	
							Analyte Sampled							
MW-1	X						X	X	X	X				
MW-2	X						X	X	X	X				
MW-3	X						X	X	X	X				
MW-4R	X						X	X	X	X				
MW-5R	X						X	X	X	X				
MW-6	X						X	X	X	X				
MW-7	X						X	X	X	X				
MW-8	X						X	X	X	X				
MW-9	X						X	X	X	X				
MW-10	X						X	X	X	X				
MW-11						X								
MW-12	X						X	X	X	X				
MW-13	X						X	X	X	X				
MW-14	X						X	X	X	X				
MW-15	X						X	X	X	X				


Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide

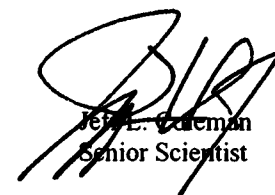
Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-16			X										
MW-17	X						X	X	X	X			
MW-18	X						X	X	X	X			
MW-19	X						X	X	X	X			
MW-20	X						X	X	X	X			
MW-21			X										
MW-22	X						X	X	X	X			
DW-1	X						X	X	X	X			
DW-2	X						X	X	X	X			
DW-3	X						X	X	X	X			
DW-4	X						X	X	X	X			
DW-5	X						X	X	X	X			
DW-6	X						X	X	X	X			
DUP-1							X	X	X	X			
DUP-2							X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank 1							X		X	X			
Trip Blank 2							X		X	X			
WSW-2										X		X	X
WSW-DUP										X		X	X
Field Blank										X		X	X
Trip Blank										X		X	X
<b>Notes: BTEX = Benzene, Toluene, Ethylbenzene, &amp; Total Xylenes</b> <b>MTBE=Methyl tertiary butyl ether</b> <b>1,2 DCA = 1,2 Dichloroethane</b> <b>EDB = Ethylene Dibromide</b>													

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 86.00 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

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

Sincerely,  
Midlands Environmental Consultants, Inc.

  
Kyle X. Jacobs  
Staff Hydrogeologist

  
Jeff L. Gaudeman  
Senior Scientist

Attachments:

**Contractor Checklist**

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?			X
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

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

**Site Activity Summary**

UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: R. Grosslight, B. Powers, G. Gates, K Jacobs



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-1	Y	9/27/19	13:55	25-35	***	27.61	***	7.22	1.50	No Odor
MW-2	Y	9/27/19	13:44	25-35	***	27.46	***	2.99	2.00	Odor; Duplicated
MW-3	Y	9/27/19	14:03	24-34	***	27.90	***	Sheen	1.00	Odor; Sheen
MW-4R	Y	9/27/19	14:14	25-35	***	26.20	***	Sheen	2.00	Odor; Sheen
MW-5R	Y	9/27/19	12:57	25-35	***	30.04	***	4.58	1.00	Slight Odor
MW-6	Y	9/27/19	13:57	25-35	***	28.33	***	3.64	2.00	Slight Odor
MW-7	Y	9/27/19	12:57	25-35	***	29.95	***	6.50	1.00	No Odor
MW-8	Y	9/27/19	13:18	25-35	***	29.22	***	6.48	1.00	No Odor
MW-9	Y	9/27/19	11:14	25-35	***	27.03	***	1.30	2.00	Odor; Duplicated
MW-10	Y	9/27/19	12:53	25-35	***	26.75	***	7.08	2.50	No Odor
MW-11	N	9/27/19	NL	25-35	***	NL	***	NL	0.00	Not Located
MW-12	Y	9/27/19	11:43	25-35	***	24.02	***	4.81	2.00	No Odor
MW-13	Y	9/27/19	12:05	25-35	***	25.72	***	5.02	2.50	No Odor
MW-14	Y	9/27/19	11:10	25-35	***	26.18	***	1.57	2.50	Slight Odor
MW-15	Y	9/27/19	10:50	15-35	***	26.63	***	5.98	2.00	No Odor
									25.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Terminal  
**County:** Allendale  
**Field Personnel:** R. Grosslight, B. Powers, G. Gates, K. Jacobs



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
MW-16	N	9/27/19	DRY	15-35	***	DRY	***	DRY	0.00	Gauged Dry, TD: 24.40' BTOC
MW-17	Y	9/27/19	10:53	15-35	***	27.95	***	7.97	3.00	No Odor
MW-18	Y	9/27/19	13:15	15-35	***	23.88	***	7.24	1.50	No Odor
MW-19	Y	9/27/19	13:36	15-35	***	24.66	***	2.61	3.00	Slight Odor
MW-20	Y	9/27/19	11:43	15-35	***	25.78	***	3.78	3.50	No Odor
MW-21	N	9/27/19	PROD	25-35	29.29	29.31	0.02	PROD	0.00	0.02' Free Phase Petroleum Product
MW-22	Y	9/27/19	13:38	25-35	***	28.10	***	2.32	2.00	Slight Odor
DW-1	Y	9/27/19	13:24	65-70	***	29.18	***	2.77	7.50	No Odor
DW-2	Y	9/27/19	12:33	65-70	***	27.51	***	4.90	7.00	No Odor
DW-3	Y	9/27/19	10:53	65-70	***	27.64	***	0.88	7.00	No Odor
DW-4	Y	9/27/19	11:46	65-70	***	27.82	***	5.13	8.00	No Odor
DW-5	Y	9/27/19	12:37	80-85	***	27.72	***	6.41	9.50	No Odor
DW-6	Y	9/27/19	12:37	80-85	***	31.11	***	6.64	9.00	No Odor
DUP-1	Y	9/27/19	11:14	***	***	***	***	***	***	Duplicate sample of MW-9
DUP-2	Y	9/27/19	13:44	***	***	***	***	***	***	Duplicate sample of MW-2
									61.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**



**UST Permit #:** 00332  
**Facility Name:** Interstate Truck Terminal  
**County:** Allendale  
**Field Personnel:** R. Grosslight, B. Powers, G. Gates, K. Jacobs

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	DO (mg/l)	# Gals. Purged	Comments
Field Blank	Y	9/27/19	14:16	***	***	***	***	***	***	Field Blank
Trip Blank 1	Y	9/27/19	8:00	***	***	***	***	***	***	Trip Blank
Trip Blank 2	Y	9/27/19	8:00	***	***	***	***	***	***	Trip Blank
WSW-1	N	9/27/19	NS	***	***	***	***	***	***	NS = Not Sampled; Well has been Removed
WSW-2	Y	9/27/19	14:28	***	***	***	***	***	***	382 Salkehatche Cemetery Rd.; Sample collected from spigot in front yard
WSW-DUP	Y	9/27/19	14:29	***	***	***	***	***	***	Duplicate sample of WSW-2
Field Blank	Y	9/27/19	14:32	***	***	***	***	***	***	Field Blank-WSW
Trip Blank	Y	9/27/19	8:00	***	***	***	***	***	***	Trip Blank-WSW
									0.00	<b>TOTAL GALLONS PURGED</b>



# Monitoring Well Purge And Sampling Data

Field Personnel: RG, BP, GG, KJ  
 Sampling Date(s): 9/27/2019  
 Sampling Case#: 3

Job Name: Interstate Truck Terminal  
 Job Number: 19-6993

Calibration Data for:  
 Calibration Successful? Yes Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW1	Initial	13:46	6.91	65.2	23.9	7.22	27.16	27.61	25-35	27.39	1.20	1.5	No odor		
	1st	13:47	6.82	67.9	23.6	7.16	49.36								
	2nd														
	3rd														
	4th														
	5th														
MW2	Initial	13:55	6.78	69.4	23.4	7.12	74.56	27.46	25-35	27.54	1.23	2	odor Dup-2		
	1st	13:34	7.51	184.2	26.5	2.99	23.91								
	2nd	13:35	7.39	193.1	26.1	2.72	56.31								
	3rd														
	4th														
	5th														
MW3	Initial	13:44	7.28	201.2	25.8	2.59	24.61	27.90	24-34	6.1	0.99	1	odor sheen		
	1st	13:54													
	2nd	13:55													
	3rd														
	4th														
	5th														
MW-4R	Initial	14:03						26.20	25-35	8.8	1.43	2	odor sheen		
	1st	14:05													
	2nd	14:06													
	3rd														
	4th														
	5th														
	Sampling	14:14													

\* = (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume =  $\pi \times 0.047^2$  for 1" wells,  $\pi \times 0.163^2$  for 2" wells, or  $\pi \times 0.66^2$  for 4" wells, 1.469 for 6" wells.  
 \*\* = One Well Volume  $\times 5$  = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: RG, BP, GG, KJ  
 Sampling Date(s): 9/27/2019  
 Sampling Case#: 3

Job Name: Interstate Truck Terminal  
 Job Number: 19-6993

**Calibration Data for:**

Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Yes No

Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW5R	Initial	12:48	7.60	153.5	24.8	4.58	28.94	30.04		25-35	4.96	0.81	1	Slight odor	
	1st	12:49	7.48	159.4	24.5	4.36	51.26								
	2nd														
	3rd														
	4th														
	5th														
Sampling	12:57	7.39	163.8	24.3	4.28	30.12					4.04				
MW6	Initial	13:48	7.48	184.3	25.9	3.64	27.61	28.33		25-35	6.67	1.09	2	Slight odor	
	1st	13:49	7.29	191.4	25.7	3.42	56.12								
	2nd														
	3rd														
	4th														
	5th														
Sampling	13:57	7.17	199.3	25.6	3.31	24.26					5.44				
MW7	Initial	12:47	6.36	91.9	23.3	6.50	28.21	29.95		25-35	5.04	0.82	1	No odor	
	1st	12:48	6.29	93.4	23.0	6.32	46.91								
	2nd														
	3rd														
	4th														
	5th														
Sampling	12:57	6.21	95.2	22.8	6.24	29.88					4.12				
MW8	Initial	13:08	6.72	59.8	24.8	6.48	26.91	29.22		25-35	5.78	0.94	1	No odor	
	1st	13:09	6.59	62.4	24.2	6.24	56.34								
	2nd														
	3rd														
	4th														
	5th														
Sampling	13:18	6.46	64.0	21.0	6.16	27.16					4.71				

\*\*= (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells, x .163 for 2" wells, or x .66 for 4" wells, 1.469 for 6" wells

\*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: RG, BP, GG, K  
 Sampling Date(s): 9/27/2019  
 Sampling Case#: 3

Job Name: Interstate Truck Terminal  
 Job Number: 19-6993

Calibration Data for:  
 Calibration Successful: Yes (Please Circle)  
 pH: Yes  
 Conductivity: Yes  
 Dissolved Oxygen: Yes  
 Turbidity: Yes

Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):		Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O			final H <sub>2</sub> O	**calc.	
Mw9	Initial	1:03	8.09	189.3	25.6	1.30	27.38			25-35	7.97	1.30	2	odor Dup-1
	1st	11:04	7.98	196.7	25.3	1.16	45.32							
	2nd													
	3rd													
	4th													
	5th													
Mw10	Sampling	11:14	7.82	202.4	25.1	1.09	29.64			25-35	8.25	6.50	2.5	No odor
	Initial	12:43	7.13	60.4	24.4	7.08	23.18							
	1st	12:44	7.04	66.3	24.1	6.94	41.84							
	2nd													
	3rd													
	4th													
Mw11	Sampling	12:53	6.44	68.4	23.9	6.86	25.01			25-35				DNL
	Initial													
	1st													
	2nd													
	3rd													
	4th													
Mw12	Sampling	11:34	7.45	69.8	23.8	4.81	28.32			25-35	10.98	1.79	2	No odor
	Initial	1:35	7.34	72.3	23.6	4.65	41.42							
	1st													
	2nd													
	3rd													
	4th													
	Sampling	11:43	7.29	75.0	23.5	4.41	30.25				8.95			

\* = (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

\*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101451	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: RG, BP, GG, KJ  
 Sampling Date(s): 9/27/2019  
 Sampling Case#: 3

Job Name: Interstate Truck Terminal  
 Job Number: 19-6993

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):		Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes		
								product	Initial H <sub>2</sub> O			final H <sub>2</sub> O	**calc.		actual	
Mw 13	Initial	11:56	7.28	51.3	22.4	5.02	24.17			25-35	9.28			No odor		
	1st	11:57	7.21	54.1	22.1	4.96	51.82									
	2nd															
	3rd															
	4th															
	5th															
	Sampling	12:05	7.14	56.8	22.0	4.74	25.62									
Mw 14	Initial	11:00	8.04	207.0	25.6	1.57	22.16			25-35	8.82			Slight odor		
	1st	11:02	8.01	211.4	25.2	1.42	44.37									
	2nd															
	3rd															
	4th															
	5th															
	Sampling	11:10	7.96	220.7	25.0	1.36	24.92									
Mw 15	Initial	10:40	8.31	34.6	24.8	5.98	23.14			15-35	8.32			No odor		
	1st	10:42	8.20	36.2	24.3	5.73	51.96									
	2nd															
	3rd															
	4th															
	5th															
	Sampling	10:50	8.11	32.9	24.1	5.64	26.43									
Mw 16	Initial									15-35						
	1st															
	2nd															
	3rd															
	4th															
	5th															
	Sampling															

\*= (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: RG, BP, GG, KJ  
 Sampling Date(s): 9/27/2019  
 Sampling Case#: 3

Job Name: Interstate Truck Terminal  
 Job Number: 19-6993

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):		Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O			final H <sub>2</sub> O	**calc.	
MW 17	Initial	10:43	8.66	46.2	23.6	7.97	26.45	27.95	15-35	7.0	1.15	3	No odor	
	1st	10:44	8.47	49.4	23.4	7.62	29.46							
	2nd	10:45	8.32	51.6	23.2	7.43	32.11							
	3rd													
	4th													
	5th													
Sampling	10:53	8.24	55.9	23.1	8.84	25.38								
MW 18	Initial	13:04	6.82	80.1	21.8	7.77	28.39	<del>24.88</del>	15-35	<del>8.12</del>	<del>1.72</del>	1.5	No odor	
	1st	13:05	6.66	84.2	23.5	7.12	47.49							
	2nd													
	3rd													
	4th													
	5th													
Sampling	13:15	6.49	86.1	23.1	7.04	32.50								
MW 19	Initial	13:25	7.47	121.1	24.5	2.61	28.45	24.66	15-35	10.34	1.69	3	Slight odor	
	1st	13:29	7.34	132.4	24.2	2.50	45.31							
	2nd													
	3rd													
	4th													
	5th													
Sampling	13:36	7.28	140.8	24.0	2.43	29.86								
MW 20	Initial	11:32	7.73	59.7	23.0	3.78	28.92	25.78	15-35	9.22	8.43	3.5	No odor	
	1st	11:34	7.61	57.1	22.8	3.66	45.36							
	2nd	11:35	7.56	55.8	22.5	3.49	38.42							
	3rd													
	4th													
	5th													
Sampling	11:43	7.54	52.3	22.2	3.37	31.91								

\* = (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .86 for 4" wells, 1.469 for 6" wells

\*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.853
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: RG, BP, GG, KJ  
 Sampling Date(s): 9/27/2019  
 Sampling Case#: 3

Job Name: Interstate Truck Terminal  
 Job Number: 19-6993

Calibration Data for:  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Conductivity / Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	Final H <sub>2</sub> O			**calc.	actual	
Mw21	Initial							29.29	29.31	25-35					
	1st	Product													
	2nd														
	3rd														
	4th														
	5th														
Sampling															
Mw22	Initial	13:28	7.57	149.8	26.3	2.32	22.16	28.10	25-35	6.90	1.12	2	Slight odor		
	1st	13:29	7.42	152.1	25.9	2.14	37.41								
	2nd														
	3rd														
	4th														
	5th														
Sampling	13:38	7.21	154.2	25.7	2.09	23.18				5.62					
Dw1	Initial	13:07	7.47	94.9	25.7	2.77	23.41	29.18	65-70	40.82	6.65	7.5	No odor		
	1st	13:14	7.31	94.2	25.5	2.89	51.84								
	2nd														
	3rd														
	4th														
	5th														
Sampling	13:24	7.24	93.6	25.3	2.96	24.91				33.27					
Dw2	Initial	12:17	7.38	118.1	24.2	4.90	21.38	27.51	65-70	42.44	6.93	7	No odor		
	1st	12:24	7.29	110.4	24.0	4.96	42.28								
	2nd														
	3rd														
	4th														
	5th														
Sampling	12:33	7.21	106.9	23.9	5.01	22.39				34.63					

\* = (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells, x.163 for 2" wells, or x.66 for 4" wells, 1.469 for 6" wells

\*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: RG, BP, GG, K  
 Sampling Date(s): 9/27/2019  
 Sampling Case#: 3

Job Name: Interstate Truck Terminal  
 Job Number: 19-6993

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Yes No  
 Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):		Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O			final H <sub>2</sub> O	**calc.	
Dw3	Initial	10:38	8.29	158.4	27.4	0.88	21.36	27.64		65-70	42.36	6.90	7	No odor
	1st	10:45	<del>8.26</del>	156.7	27.1	1.35	45.31							
	2nd													
	3rd													
	4th													
	5th													
Sampling	10:55	8.24	154.6	26.8	1.52	24.93					34.52			
Dw4	Initial	11:30	7.91	146.3	22.2	5.13	23.41	27.82		65-70	42.18	6.88	8	No odor
	1st	11:37	7.74	138.2	22.0	5.24	41.39							
	2nd													
	3rd													
	4th													
	5th													
Sampling	11:46	7.69	132.4	21.9	5.31	25.36					34.38			
Dw5	Initial	12:19	7.47	61.7	23.9	6.41	23.08	27.72		80-85	57.28	9.34	9.5	No odor
	1st	12:28	7.34	60.2	23.6	6.24	51.24							
	2nd													
	3rd													
	4th													
	5th													
Sampling	12:37	7.21	59.6	27.2	6.14	25.19					46.68			
Dw6	Initial	12:18	7.68	81.2	24.1	6.64	22.19	31.11		80-85	53.89	8.78	9	No odor
	1st	12:27	7.54	80.4	24.0	6.71	44.26							
	2nd													
	3rd													
	4th													
	5th													
Sampling	12:37	7.52	79.8	23.8	6.78	23.84					43.92			

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

\*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: RG, BP, GG, F  
 Sampling Date(s): 9/27/2019  
 Sampling Case#: 3

Job Name: Interstate Truck Terminal  
 Job Number: 19-6993

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
Dup 1	Initial	11:14		Odor		Mn - 9									
	1st														
	2nd														
	3rd														
	4th														
Dup 2	Initial	13:44		Odor		Mn - 2									
	1st														
	2nd														
	3rd														
	4th														
TB 1 + TB 2	Initial	8:00													
	1st														
	2nd														
	3rd														
	4th														
FB	Initial	14:16													
	1st														
	2nd														
	3rd														
	4th														
WSW 2	Initial	<del>12:44</del>		<del>DuFord's Bridge Hwy</del>		<del>(spigot in front yard)</del>									
	1st														
	2nd	14:28		382 Salkahatchie		Cemetery Rd.									
	3rd														
	4th														
WSW FB	Initial	14:32													
	1st														
	2nd														
	3rd														
	4th														
WSW TB	Initial	8:00													
	1st														
	2nd														
	3rd														
	4th														
WSW Dup	Initial	14:29													
	1st														
	2nd														
	3rd														
	4th														

previous sheets had address listed as 1224 DuFord's Bridge Hwy but this address is about 3 miles from the site. 382 Salkahatchie Cemetery rd. matches with the provided map

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251





# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

Company: SC DHEC

Billing Information:

Address: 2600 Bull + Columbia SC

Report To: R Dunn

Email To: rdunn@dhec.sc.gov

Copy To:

Site Collection Info/Address: 301 1321

Customer Project Name/Number: Interstate Truck

State: SC County/City: Allendale/Clinton Time Zone Collected: MT [ ] CT [ ] ET [ ]

Phone: Email:

Site/Facility ID #: 00332

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Ben Pinner

Purchase Order #: Quote #:

DW PWS ID #: DW Location Code:

Collected By (signature): [Signature]

Turnaround Date Required:

Immediately Packed on Ice: [ ] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold:

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW 1	GW	G	1/27/19	13:55			6	X X
MW 2				13:44				
MW 3				14:03				
MW 4R				14:14				
MW 5R				12:57				
MW 6				13:57				
MW 7				12:57				
MW 8				15:13				
MW 9				11:11				
MW 10				12:53				

Container Preservative Type \*\* Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses										Lab Profile/Line:
Bx + MW + Cr + Ig + PCA + ETH 82600 FDB + 3011										Lab Sample Receipt Checklist:
										Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____
										LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None Packing Material Used: Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A Lab Tracking #: 2418381 Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: Cooler 1 Temp Upon Receipt: oC Cooler 1 Therm Corr. Factor: oC Cooler 1 Corrected Temp: oC Comments:

Relinquished by/Company: (Signature) George Gates Date/Time: 1/27/19 3:40

Received by/Company: (Signature) g. pinner Date/Time: 1/27/19 13:40

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time:

MTJL LAB USE ONLY Table #: Acctnum: Template: Prelogin: PM: PB: Trip Blank Received: Y N NA HCL MeOH TSP Other Non-Conformance(s): YES / NO Page: 4 of 4



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Log# Label Here or List Pace Workorder Number or MTJL Log-in Number Here

## ALL SHADED AREAS are for LAB USE ONLY

Company: SC Dec

Billing Information:

Address: 2800 Bull St Columbia SC

Report To: Penn

Email To: penn@dec.sc.gov

Copy To:

Site Collection Info/Address: 507 P&E

Customer Project Name/Number: Interstate Truck

State: SC County/City: Allendale/Unadilla Time Zone Collected: [ ] MT [ ] CT [ ] ET

Phone: Email:

Site/Facility ID #: 00332

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Dan Jones

Purchase Order #: Quote #:

DW PWS ID #: DW Location Code:

Collected By (signature): [Signature]

Turnaround Date Required:

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold:

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW 11	GW	G	9/27/19					
MW 12	GW	G	9/27/19	11:43			6	X
MW 13				12:05				
MW 14				11:00				
MW 15				10:50				
MW 16								
MW 17				0:53				
MW 18				13:15				
MW 19				13:30				
MW 20				11:43				

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used:

Lab Tracking #: 2418389

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) [Signature]

Date/Time: 3:40 9/27/19

Received by/Company: (Signature) [Signature]

Date/Time: 9/27/19 3:40

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Lab Sample Temperature Info:

Temp Blank Received: Y N NA Therm ID#: Cooler 1 Temp Upon Receipt: oC Cooler 1 Therm Corr. Factor: oC Cooler 1 Corrected Temp: oC Comments:

Trip Blank Received: Y N NA HCL MeOH TSP Other

Non Conformance(s): YES / NO Page: 4 of 4

Vertical handwritten notes: BAC... 0.195... EPA 8200... EPA 8011





# CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or  
MTJL Log-In Number Here

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**ALL SHADED AREAS are for LAB USE ONLY**

Company: SC Dhee Billing Information:

Address: 2000 Bull St Columbia SC

Report To: R Dunn Email To: hanna@daec.sc.gov

Copy To:

Customer Project Name/Number: Integrative Truck State: SC County/City: Alameda Time Zone Collected: ET

Phone: Site/Facility ID #: 00332 Compliance Monitoring?  Yes  No

Collected By (print): Ben Powell Purchase Order #: DW PWS ID #: DW Location Code:

Collected By (signature): [Signature] Turnaround Date Required: Immediately Packed on Ice:  Yes  No

Sample Disposal:  Dispose as appropriate  Return  Archive:  Hold: Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply) Field Filtered (if applicable):  Yes  No Analysis:

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:
	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact Y N NA
	Custody Signatures Present Y N NA
	Collector Signature Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: Y N NA
	Sample pH Acceptable Y N NA
	pH Strips: Y N NA
	Sulfide Present Y N NA
	Lead Acetate Strips: Y N NA

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW 21								
MW 22	GW	G	9/27/19	13:38			6	4
Dw-1				12:24				
Dw-2				12:33				
Dw-3				10:55				
Dw-4				11:46				
Dw-5				12:37				
Dw-6				12:57				
Dup-1				11:14				
Dup-2				15:44				

Alameda + City 395 127th ETH 8 2600  
FPO Bull

LAB USE ONLY:  
Lab Sample # / Comments:

DUS  
No odor  
No odor  
No odor  
No odor  
No odor  
No odor  
No odor  
No odor  
No odor

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used:

Lab Tracking #: **2418388**

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) [Signature] Date/Time: 9/27/19 3:40 Received by/Company: (Signature) [Signature] Date/Time: 9/27/19 3:40

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Table #: MTJL LAB USE ONLY

Account #: Template: Prelogin: PM: PB:

Trip Blank Received: Y N NA  
HCL MeOH TSP Other

Non Conformance(s): YES / NO Page: 4



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

## ALL SHADED AREAS are for LAB USE ONLY

Company: SC PHEC Billing Information:

Address: 600 Bull St Columbia SC

Report To: R Puan Email To: R.Puan@phec.sc.gov

Copy To: 301 7321 Hwy Site Collection Info/Address:

Customer Project Name/Number: Intrastate Truck State: SC County/City: Walden/Walden Time Zone Collected: PT [ ] MT [ ] CT [ ] ET [ ]

Phone: Site/Facility ID #: 00332 Compliance Monitoring?  Yes  No

Collected By (print): Van Powers Purchase Order #: Quote #: DW PWS ID #: DW Location Code:

Collected By (signature): [Signature] Turnaround Date Required: Immediately Packed on Ice:  Yes  No

Sample Disposal:  Dispose as appropriate  Return  Archive  Hold: Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply) Field Filtered (if applicable):  Yes  No Analysis:

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:	
	Lab Sample Receipt Checklist:	
	Custody Seals Present/Intact	Y N NA
	Custody Signatures Present	Y N NA
	Collector Signature Present	Y N NA
	Bottles Intact	Y N NA
	Correct Bottles	Y N NA
	Sufficient Volume	Y N NA
	Samples Received on Ice	Y N NA
	VOA - Headspace Acceptable	Y N NA
	USDA Regulated Soils	Y N NA
	Samples in Holding Time	Y N NA
	Residual Chlorine Present	Y N NA
	Cl Strips:	
	Sample pH Acceptable	Y N NA
	pH Strips:	
	Sulfide Present	Y N NA
	Lead Acetate Strips:	
	LAB USE ONLY:	
	Lab Sample # / Comments:	

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
TB-1	GW	G	9/27	08:00			2	X
TB-2	↓	↓	↓	08:00			2	X
FB	↓	↓	↓	14:16			6	X

Athena + Cuy 9/27 PIP 8:00 AM EDB 801

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: Lab Tracking #: **2418384**

Radchem sample(s) screened (<500 cpm): Y N NA Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) [Signature] Date/Time: 3:40 9/27/19 Received by/Company: (Signature) [Signature] Date/Time: 9/27/19 1340

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Lab Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: Cooler 1 Temp Upon Receipt: °C Cooler 1 Therm Corr. Factor: °C Cooler 1 Corrected Temp: °C Comments: Trip Blank Received: Y N NA HCL MeOH TSP Other Non Conformance(s): YES / NO Page: 4 of: 4





# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY: Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Company: *SC DHEC*

Billing Information:

Address: *260 Bull St Columbia*

Report To: *R Dunn*

Email To: *DunnR@DHEC.SC.GOV*

Copy To:

Site Collection Info/Address: *3017-21 Hwy*

Customer Project Name/Number: *Interstate Truck*

State: *SC* County/City: *Allendale/Almer* Time Zone Collected: *[ ] PT [ ] MT [ ] CT [ ] ET*

Phone: Email:

Site/Facility ID #: *00332*

Compliance Monitoring?  Yes  No

Collected By (print): *George Gotsch*

Purchase Order #: Quote #:

DW PWS ID #: DW Location Code:

Collected By (signature): *George Gotsch*

Turnaround Date Required:

Immediately Packed on Ice:  Yes  No

Sample Disposal:  Dispose as appropriate  Return  Archive:  Hold:

Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply)

Field Filtered (if applicable):  Yes  No Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
<i>W SW 1</i>	<i>DW</i>	<i>G</i>	<i>2/27/19</i>					<i>9</i>
<i>W SW 2</i>	<i>DW</i>	<i>G</i>	<i>2/27/19</i>					<i>9</i>
<i>DUP</i>	<i>DW</i>	<i>G</i>	<i>2/27/19</i>					<i>9</i>
<i>FB</i>	<i>DW</i>	<i>G</i>	<i>2/27/19</i>					<i>9</i>
<i>TB</i>	<i>DW</i>	<i>G</i>	<i>2/27/19</i>					<i>6</i>

## ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type \*\* Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses Lab Profile/Line:

Analyses	Lab Profile/Line:
<i>BTEXNM, 12 DCA, 5242</i>	Lab Sample Receipt Checklist:
<i>Oxy 8-GOB</i>	Custody Seals Present/Intact Y N NA
<i>EDB 504</i>	Custody Signatures Present Y N NA
	Collector Signature Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: _____
	Sample pH Acceptable Y N NA
	pH Strips: _____
	Sulfide Present Y N NA
	Lead Acetate Strips: _____

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used:

Lab Tracking #: **2351182**

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: Cooler 1 Temp Upon Receipt: oC Cooler 1 Therm Corr. Factor: oC Cooler 1 Corrected Temp: oC Comments:

Relinquished by/Company: (Signature) *George Gotsch*

Date/Time: *3:40 9/27/19*

Received by/Company: (Signature) *[Signature]*

Date/Time: *9:27 9/30/19*

MTJL LAB USE ONLY

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Table #: Acctnum: Template: Prelogin:

Trip Blank Received: Y N NA HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

PM: PB:

Non Conformance(s): YES / NO Page: 1 of 1



October 10, 2019

Re: Treatment of Purge Water  
Interstate Truck Terminal  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 19-6993

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

**A total of 86.00 gallons were treated on September 27, 2019 at the referenced site.**

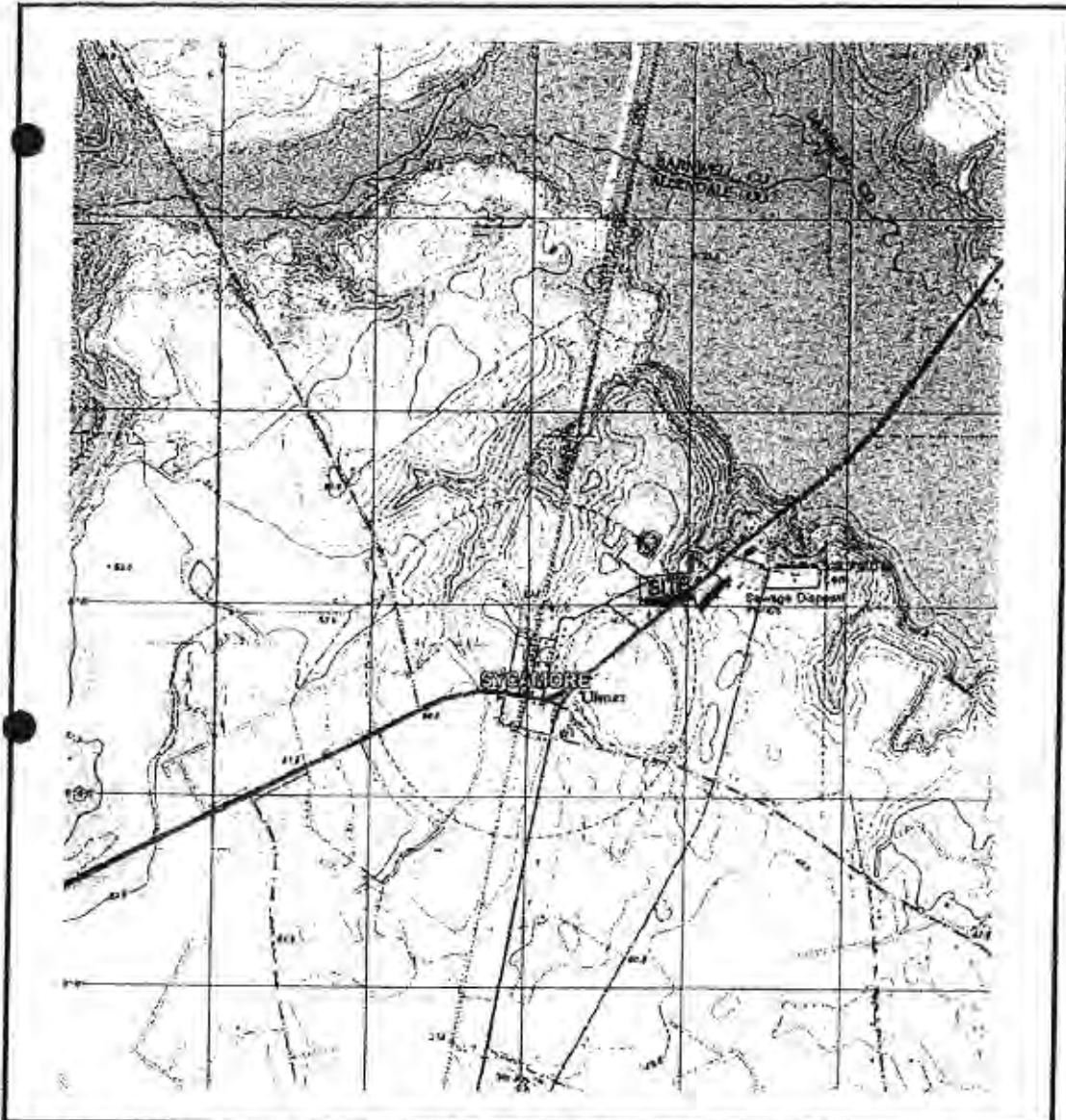
Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

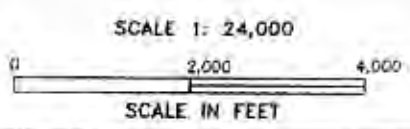
Sincerely,  
Midlands Environmental Consultants, Inc.



Kyle X. Jacobs  
Staff Hydrogeologist



REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

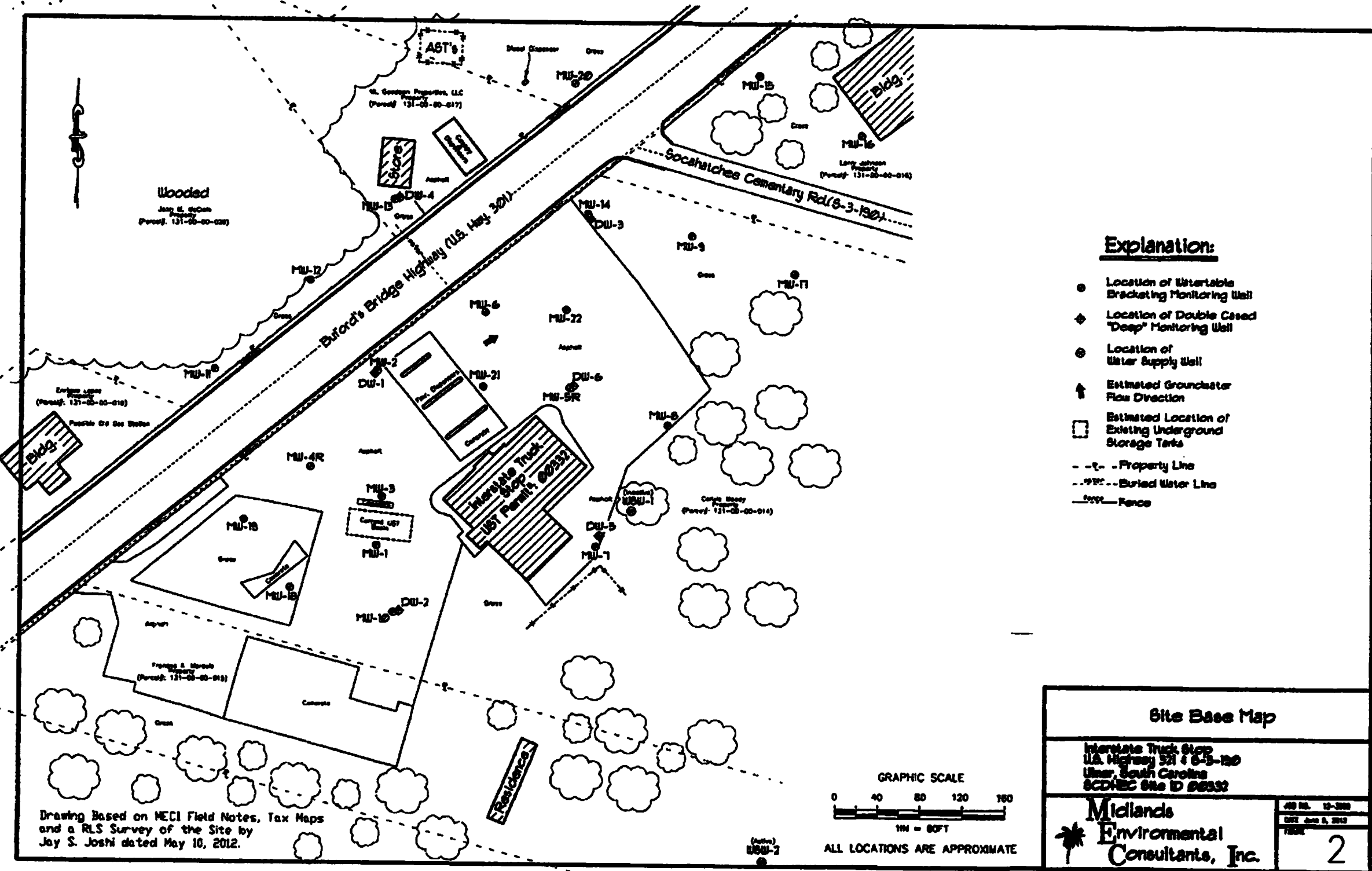
FIGURE 1  
SITE LOCATION MAP

**CONSULTECH ENVIRONMENTAL, INC.**

Environmental Consulting  
and Engineering  
© 1998

Integrating innovative solutions to today's environmental concerns.





October 08, 2019

Robert Dunn  
SCDHEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

*Angela M. Baioni*

Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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without the written consent of Pace Analytical Services, LLC.



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

## CERTIFICATIONS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

---

### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92447513001	MW-1	Water	09/27/19 13:55	09/27/19 15:40
92447513002	MW-2	Water	09/27/19 13:44	09/27/19 15:40
92447513003	MW-3	Water	09/27/19 14:03	09/27/19 15:40
92447513004	MW-4R	Water	09/27/19 14:14	09/27/19 15:40
92447513005	MW-5R	Water	09/27/19 12:57	09/27/19 15:40
92447513006	MW-6	Water	09/27/19 13:57	09/27/19 15:40
92447513007	MW-7	Water	09/27/19 12:57	09/27/19 15:40
92447513008	MW-8	Water	09/27/19 13:18	09/27/19 15:40
92447513009	MW-9	Water	09/27/19 11:14	09/27/19 15:40
92447513010	MW-10	Water	09/27/19 12:53	09/27/19 15:40
92447513011	MW-12	Water	09/27/19 11:43	09/27/19 15:40
92447513012	MW-13	Water	09/27/19 12:05	09/27/19 15:40
92447513013	MW-14	Water	09/27/19 11:10	09/27/19 15:40
92447513014	MW-15	Water	09/27/19 10:50	09/27/19 15:40
92447513015	MW-17	Water	09/27/19 10:53	09/27/19 15:40
92447513016	MW-18	Water	09/27/19 13:15	09/27/19 15:40
92447513017	MW-19	Water	09/27/19 13:36	09/27/19 15:40
92447513018	MW-20	Water	09/27/19 11:43	09/27/19 15:40
92447513019	MW-22	Water	09/27/19 13:38	09/27/19 15:40
92447513020	DW-1	Water	09/27/19 13:24	09/27/19 15:40
92447513021	DW-2	Water	09/27/19 12:33	09/27/19 15:40
92447513022	DW-3	Water	09/27/19 10:55	09/27/19 15:40
92447513023	DW-4	Water	09/27/19 11:46	09/27/19 15:40
92447513024	DW-5	Water	09/27/19 12:37	09/27/19 15:40
92447513025	DW-6	Water	09/27/19 12:37	09/27/19 15:40
92447513026	Dup-1	Water	09/27/19 11:14	09/27/19 15:40
92447513027	Dup-2	Water	09/27/19 13:44	09/27/19 15:40
92447513028	FB	Water	09/27/19 14:16	09/27/19 15:40
92447513029	TB-1	Water	09/27/19 08:00	09/27/19 15:40
92447513030	TB-2	Water	09/27/19 08:00	09/27/19 15:40

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92447513001	MW-1	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92447513002	MW-2	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92447513003	MW-3	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92447513004	MW-4R	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92447513005	MW-5R	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92447513006	MW-6	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92447513007	MW-7	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92447513008	MW-8	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92447513009	MW-9	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92447513010	MW-10	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92447513011	MW-12	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92447513012	MW-13	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92447513013	MW-14	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92447513014	MW-15	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92447513015	MW-17	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92447513016	MW-18	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92447513017	MW-19	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92447513018	MW-20	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92447513019	MW-22	EPA 8011	BAJ	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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### SAMPLE ANALYTE COUNT

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92447513020	DW-1	EPA 8260B	GAW	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92447513021	DW-2	EPA 8260B	DLK	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92447513022	DW-3	EPA 8260B	DLK	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92447513023	DW-4	EPA 8260B	GAW	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92447513024	DW-5	EPA 8260B	DLK	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92447513025	DW-6	EPA 8260B	DLK	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92447513026	Dup-1	EPA 8260B	DLK	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92447513027	Dup-2	EPA 8260B	GAW	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92447513028	FB	EPA 8260B	GAW	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92447513029	TB-1	EPA 8260B	DLK	20	PASI-C
		EPA 8260B	DLK	20	PASI-C
92447513030	TB-2	EPA 8260B	DLK	20	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Interstate Truck 00332/60315

Pace Project No.: 92447513

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92447513002</b>	<b>MW-2</b>					
EPA 8260B	Ethylbenzene	1620	ug/L	100	10/04/19 20:40	
EPA 8260B	Naphthalene	187	ug/L	100	10/04/19 20:40	
EPA 8260B	Toluene	509	ug/L	100	10/04/19 20:40	
EPA 8260B	Xylene (Total)	5310	ug/L	100	10/04/19 20:40	
EPA 8260B	m&p-Xylene	5310	ug/L	200	10/04/19 20:40	
EPA 8260B	o-Xylene	64.9J	ug/L	100	10/04/19 20:40	
<b>92447513003</b>	<b>MW-3</b>					
EPA 8260B	Ethylbenzene	54.6	ug/L	5.0	10/03/19 14:19	
EPA 8260B	Naphthalene	16.9	ug/L	5.0	10/03/19 14:19	
EPA 8260B	Xylene (Total)	162	ug/L	5.0	10/03/19 14:19	
EPA 8260B	m&p-Xylene	156	ug/L	10.0	10/03/19 14:19	
EPA 8260B	o-Xylene	6.7	ug/L	5.0	10/03/19 14:19	
<b>92447513004</b>	<b>MW-4R</b>					
EPA 8260B	Ethylbenzene	303	ug/L	25.0	10/03/19 15:31	
EPA 8260B	Naphthalene	36.6	ug/L	25.0	10/03/19 15:31	
EPA 8260B	Toluene	187	ug/L	25.0	10/03/19 15:31	
EPA 8260B	Xylene (Total)	1120	ug/L	25.0	10/03/19 15:31	
EPA 8260B	m&p-Xylene	1000	ug/L	50.0	10/03/19 15:31	
EPA 8260B	o-Xylene	112	ug/L	25.0	10/03/19 15:31	
<b>92447513005</b>	<b>MW-5R</b>					
EPA 8260B	Ethylbenzene	156	ug/L	10.0	10/03/19 14:37	
EPA 8260B	Naphthalene	124	ug/L	10.0	10/03/19 14:37	
EPA 8260B	Xylene (Total)	598	ug/L	10.0	10/03/19 14:37	
EPA 8260B	m&p-Xylene	526	ug/L	20.0	10/03/19 14:37	
EPA 8260B	o-Xylene	71.9	ug/L	10.0	10/03/19 14:37	
<b>92447513006</b>	<b>MW-6</b>					
EPA 8260B	Ethylbenzene	632	ug/L	50.0	10/03/19 22:49	
EPA 8260B	Naphthalene	166	ug/L	50.0	10/03/19 22:49	
EPA 8260B	Toluene	104	ug/L	50.0	10/03/19 22:49	
EPA 8260B	Xylene (Total)	2950	ug/L	50.0	10/03/19 22:49	
EPA 8260B	m&p-Xylene	2950	ug/L	100	10/03/19 22:49	
<b>92447513009</b>	<b>MW-9</b>					
EPA 8260B	Ethylbenzene	726	ug/L	50.0	10/04/19 19:47	
EPA 8260B	Naphthalene	326	ug/L	50.0	10/04/19 19:47	
EPA 8260B	Toluene	89.5	ug/L	50.0	10/04/19 19:47	
EPA 8260B	Xylene (Total)	2930	ug/L	50.0	10/04/19 19:47	
EPA 8260B	m&p-Xylene	2930	ug/L	100	10/04/19 19:47	
<b>92447513013</b>	<b>MW-14</b>					
EPA 8260B	Ethylbenzene	1170	ug/L	62.5	10/03/19 22:31	
EPA 8260B	Naphthalene	193	ug/L	62.5	10/03/19 22:31	
EPA 8260B	Toluene	509	ug/L	62.5	10/03/19 22:31	
EPA 8260B	Xylene (Total)	3890	ug/L	62.5	10/03/19 22:31	
EPA 8260B	m&p-Xylene	3890	ug/L	125	10/03/19 22:31	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Interstate Truck 00332/60315

Pace Project No.: 92447513

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92447513014</b>	<b>MW-15</b>					
EPA 8260B	Benzene	8.0J	ug/L	20.0	10/04/19 18:35	
EPA 8260B	Ethylbenzene	156	ug/L	20.0	10/04/19 18:35	
EPA 8260B	Naphthalene	24.6	ug/L	20.0	10/04/19 18:35	
EPA 8260B	Toluene	333	ug/L	20.0	10/04/19 18:35	
EPA 8260B	Xylene (Total)	628	ug/L	20.0	10/04/19 18:35	
EPA 8260B	m&p-Xylene	514	ug/L	40.0	10/04/19 18:35	
EPA 8260B	o-Xylene	114	ug/L	20.0	10/04/19 18:35	
<b>92447513017</b>	<b>MW-19</b>					
EPA 8260B	Ethylbenzene	401	ug/L	25.0	10/04/19 18:53	
EPA 8260B	Naphthalene	45.1	ug/L	25.0	10/04/19 18:53	
EPA 8260B	Toluene	26.5	ug/L	25.0	10/04/19 18:53	
EPA 8260B	Xylene (Total)	1960	ug/L	25.0	10/04/19 18:53	
EPA 8260B	m&p-Xylene	1630	ug/L	50.0	10/04/19 18:53	
EPA 8260B	o-Xylene	338	ug/L	25.0	10/04/19 18:53	
<b>92447513019</b>	<b>MW-22</b>					
EPA 8260B	Ethylbenzene	1190	ug/L	62.5	10/04/19 20:05	
EPA 8260B	Naphthalene	403	ug/L	62.5	10/04/19 20:05	
EPA 8260B	Toluene	194	ug/L	62.5	10/04/19 20:05	
EPA 8260B	Xylene (Total)	4590	ug/L	62.5	10/04/19 20:05	
EPA 8260B	m&p-Xylene	4380	ug/L	125	10/04/19 20:05	
EPA 8260B	o-Xylene	211	ug/L	62.5	10/04/19 20:05	
<b>92447513022</b>	<b>DW-3</b>					
EPA 8260B	Benzene	17.3	ug/L	12.5	10/04/19 18:17	
EPA 8260B	Ethylbenzene	273	ug/L	12.5	10/04/19 18:17	
EPA 8260B	Naphthalene	60.7	ug/L	12.5	10/04/19 18:17	
EPA 8260B	Toluene	9.6J	ug/L	12.5	10/04/19 18:17	
EPA 8260B	Xylene (Total)	39.1	ug/L	12.5	10/04/19 18:17	
EPA 8260B	m&p-Xylene	39.1	ug/L	25.0	10/04/19 18:17	
<b>92447513023</b>	<b>DW-4</b>					
EPA 8260B	Naphthalene	3.0J	ug/L	5.0	10/03/19 20:12	
<b>92447513026</b>	<b>Dup-1</b>					
EPA 8260B	Ethylbenzene	902	ug/L	50.0	10/04/19 19:29	
EPA 8260B	Naphthalene	376	ug/L	50.0	10/04/19 19:29	
EPA 8260B	Toluene	145	ug/L	50.0	10/04/19 19:29	
EPA 8260B	Xylene (Total)	3450	ug/L	50.0	10/04/19 19:29	
EPA 8260B	m&p-Xylene	3450	ug/L	100	10/04/19 19:29	
<b>92447513027</b>	<b>Dup-2</b>					
EPA 8260B	Ethylbenzene	1390	ug/L	100	10/04/19 20:23	
EPA 8260B	Naphthalene	204	ug/L	100	10/04/19 20:23	
EPA 8260B	Toluene	461	ug/L	100	10/04/19 20:23	
EPA 8260B	Xylene (Total)	4500	ug/L	100	10/04/19 20:23	
EPA 8260B	m&p-Xylene	4500	ug/L	200	10/04/19 20:23	
EPA 8260B	o-Xylene	64.6J	ug/L	100	10/04/19 20:23	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

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**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** October 08, 2019

**General Information:**

28 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

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

**Duplicate Sample:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

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**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** October 08, 2019

**General Information:**

30 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**QC Batch: 501252**

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2695942)
- tert-Butyl Formate

**QC Batch: 501718**

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2698022)
- tert-Butyl Formate

**Matrix Spikes:**

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

**QC Batch: 501252**

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92447513008

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2695944)
- tert-Butyl Formate

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## PROJECT NARRATIVE

Project: Interstate Truck 00332/60315  
Pace Project No: 92447513

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**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** October 08, 2019

QC Batch: 501450

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92447477030

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

- MS (Lab ID: 2697987)
  - Benzene
  - Toluene
  - m&p-Xylene
- MSD (Lab ID: 2697988)
  - Benzene
  - Toluene

QC Batch: 501454

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92447513013

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

- MS (Lab ID: 2696779)
  - tert-Butyl Alcohol
- MSD (Lab ID: 2696780)
  - Benzene
  - Diisopropyl ether
  - Methyl-tert-butyl ether
  - tert-Amylmethyl ether
  - tert-Butyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2696779)
  - tert-Butyl Formate
- MSD (Lab ID: 2696780)
  - tert-Butyl Formate

QC Batch: 501564

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92447891008

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

- MS (Lab ID: 2697431)
  - Naphthalene
  - tert-Butyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2697431)
  - tert-Butyl Formate

QC Batch: 501590

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92447499001

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

- MS (Lab ID: 2697912)
  - Toluene
- MSD (Lab ID: 2697913)

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## PROJECT NARRATIVE

Project Interstate Truck 00332/60315

Pace Project No.: 92447513

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**Method:** EPA 8260B

**Description:** 8260 MSV

**Client:** SCDHEC

**Date:** October 08, 2019

QC Batch: 501590

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92447499001

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

- Toluene

**Duplicate Sample:**

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

**Additional Comments:**

Analyte Comments:

QC Batch: 501252

1g: Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error for the following compounds

- LCS (Lab ID: 2695942)
- tert-Butyl Formate

QC Batch: 501450

1g: Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error for the following compounds

- LCS (Lab ID: 2696767)
- tert-Butyl Formate

QC Batch: 501590

1g: Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error for the following compounds

- LCS (Lab ID: 2697500)
- tert-Butyl Formate

QC Batch: 501718

1g: Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error for the following compounds

- LCS (Lab ID: 2698022)
- tert-Butyl Formate

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

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315

Pace Project No.: 92447513

Sample: MW-1 Lab ID: 92447513001 Collected: 09/27/19 13:55 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/07/19 19:39	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	82	%	60-140		1	10/04/19 08 15	10/07/19 19:39	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 13:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 13:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 13:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 13:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 13:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 13:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 13:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 13:44	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 13:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 13:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 13:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 13:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 13:44	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 13:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 13:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 13:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 13:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/03/19 13:44	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		10/03/19 13:44	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/03/19 13:44	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-2      Lab ID: 92447513002      Collected: 09/27/19 13:44      Received: 09/27/19 15:40      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011      Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/04/19 08:15	10/07/19 19:57	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	10/04/19 08:15	10/07/19 19:57	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	2000	1310	20		10/04/19 20:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	60.8	20		10/04/19 20:40	994-05-8	
Benzene	ND	ug/L	100	34.8	20		10/04/19 20:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1080	20		10/04/19 20:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1820	20		10/04/19 20:40	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	482	20		10/04/19 20:40	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	100	41.2	20		10/04/19 20:40	107-06-2	
Diisopropyl ether	ND	ug/L	100	69.8	20		10/04/19 20:40	108-20-3	
Ethanol	ND	ug/L	4000	2880	20		10/04/19 20:40	64-17-5	
Ethylbenzene	1620	ug/L	100	36.8	20		10/04/19 20:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	169	20		10/04/19 20:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	62.0	20		10/04/19 20:40	1634-04-4	
Naphthalene	187	ug/L	100	41.8	20		10/04/19 20:40	91-20-3	
Toluene	509	ug/L	100	40.2	20		10/04/19 20:40	108-88-3	
Xylene (Total)	5310	ug/L	100	100	20		10/04/19 20:40	1330-20-7	
m&p-Xylene	5310	ug/L	200	82.2	20		10/04/19 20:40	179601-23-1	
o-Xylene	64.9J	ug/L	100	40.8	20		10/04/19 20:40	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		20		10/04/19 20:40	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		20		10/04/19 20:40	17080-07-0	
Toluene-d8 (S)	95	%	70-130		20		10/04/19 20:40	2037-26-5	

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### ANALYTICAL RESULTS

Project Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-3 Lab ID: 92447513003 Collected: 09/27/19 14:03 Received 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/04/19 08:15	10/07/19 20:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	10/04/19 08:15	10/07/19 20:15	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 14:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 14:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 14:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 14:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 14:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 14:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 14:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 14:19	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 14:19	64-17-5	
Ethylbenzene	54.6	ug/L	5.0	1.8	1		10/03/19 14:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 14:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 14:19	1634-04-4	
Naphthalene	16.9	ug/L	5.0	2.1	1		10/03/19 14:19	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 14:19	108-88-3	
Xylene (Total)	162	ug/L	5.0	5.0	1		10/03/19 14:19	1330-20-7	
m&p-Xylene	156	ug/L	10.0	4.1	1		10/03/19 14:19	179601-23-1	
o-Xylene	6.7	ug/L	5.0	2.0	1		10/03/19 14:19	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/03/19 14:19	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		10/03/19 14:19	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/03/19 14:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-4R Lab ID: 92447513004 Collected: 09/27/19 14:14 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/04/19 08:15	10/07/19 20:34	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	10/04/19 08:15	10/07/19 20:34	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	500	328	5		10/03/19 15:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	15.2	5		10/03/19 15:31	994-05-8	
Benzene	ND	ug/L	25.0	8.7	5		10/03/19 15:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	270	5		10/03/19 15:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	455	5		10/03/19 15:31	75-65-0	
tert-Butyl Formate	ND	ug/L	250	120	5		10/03/19 15:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	10.3	5		10/03/19 15:31	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	17.4	5		10/03/19 15:31	108-20-3	
Ethanol	ND	ug/L	1000	720	5		10/03/19 15:31	64-17-5	
Ethylbenzene	303	ug/L	25.0	9.2	5		10/03/19 15:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	42.3	5		10/03/19 15:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	15.5	5		10/03/19 15:31	1634-04-4	
Naphthalene	36.6	ug/L	25.0	10.4	5		10/03/19 15:31	91-20-3	
Toluene	187	ug/L	25.0	10.0	5		10/03/19 15:31	108-88-3	
Xylene (Total)	1120	ug/L	25.0	25.0	5		10/03/19 15:31	1330-20-7	
m&p-Xylene	1000	ug/L	50.0	20.6	5		10/03/19 15:31	179601-23-1	
o-Xylene	112	ug/L	25.0	10.2	5		10/03/19 15:31	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		5		10/03/19 15:31	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		5		10/03/19 15:31	17060-07-0	
Toluene-d8 (S)	100	%	70-130		5		10/03/19 15:31	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315

Pace Project No.: 92447513

Sample: MW-5R Lab ID: 92447513005 Collected: 09/27/19 12:57 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/07/19 20:52	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	10/04/19 08:15	10/07/19 20:52	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	200	131	2		10/03/19 14:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		10/03/19 14:37	994-05-8	
Benzene	ND	ug/L	10.0	3.5	2		10/03/19 14:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		10/03/19 14:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		10/03/19 14:37	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		10/03/19 14:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		10/03/19 14:37	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		10/03/19 14:37	108-20-3	
Ethanol	ND	ug/L	400	288	2		10/03/19 14:37	64-17-5	
Ethylbenzene	156	ug/L	10.0	3.7	2		10/03/19 14:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		10/03/19 14:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		10/03/19 14:37	1634-04-4	
Naphthalene	124	ug/L	10.0	4.2	2		10/03/19 14:37	91-20-3	
Toluene	ND	ug/L	10.0	4.0	2		10/03/19 14:37	108-88-3	
Xylene (Total)	598	ug/L	10.0	10.0	2		10/03/19 14:37	1330-20-7	
m&p-Xylene	526	ug/L	20.0	8.2	2		10/03/19 14:37	179601-23-1	
o-Xylene	71.9	ug/L	10.0	4.1	2		10/03/19 14:37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		2		10/03/19 14:37	480-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		2		10/03/19 14:37	17060-07-0	
Toluene-d8 (S)	102	%	70-130		2		10/03/19 14:37	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-6 Lab ID: 92447513008 Collected: 09/27/19 13:57 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/07/19 21:10	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	10/04/19 08:15	10/07/19 21:10	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	1000	656	10		10/03/19 22:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	30.4	10		10/03/19 22:49	994-05-8	
Benzene	ND	ug/L	50.0	17.4	10		10/03/19 22:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	539	10		10/03/19 22:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	910	10		10/03/19 22:49	75-65-0	
tert-Butyl Formate	ND	ug/L	500	241	10		10/03/19 22:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	20.6	10		10/03/19 22:49	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	34.9	10		10/03/19 22:49	108-20-3	
Ethanol	ND	ug/L	2000	1440	10		10/03/19 22:49	64-17-5	
Ethylbenzene	632	ug/L	50.0	18.4	10		10/03/19 22:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	84.6	10		10/03/19 22:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	31.0	10		10/03/19 22:49	1634-04-4	
Naphthalene	166	ug/L	50.0	20.9	10		10/03/19 22:49	91-20-3	
Toluene	104	ug/L	50.0	20.1	10		10/03/19 22:49	108-88-3	
Xylene (Total)	2950	ug/L	50.0	50.0	10		10/03/19 22:49	1330-20-7	
m&p-Xylene	2950	ug/L	100	41.1	10		10/03/19 22:49	179601-23-1	
o-Xylene	ND	ug/L	50.0	20.4	10		10/03/19 22:49	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		10		10/03/19 22:49	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		10		10/03/19 22:49	17060-07-0	
Toluene-d8 (S)	98	%	70-130		10		10/03/19 22:49	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Interstate Truck 00332/60315  
 Pace Project No.: 92447513

Sample: MW-7 Lab ID: 92447513007 Collected: 09/27/19 12:57 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/07/19 22:40	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	10/04/19 08:15	10/07/19 22:40	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 14:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 14:02	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 14:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 14:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 14:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 14:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 14:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 14:02	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 14:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 14:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 14:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 14:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 14:02	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 14:02	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 14:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 14:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 14:02	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		10/03/19 14:02	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		10/03/19 14:02	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/03/19 14:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-8 Lab ID: 92447513008 Collected: 09/27/19 13:18 Received: 09/27/19 15.40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/07/19 23:16	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	10/04/19 08 15	10/07/19 23:16	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 07:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 07:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 07:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 07:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 07 57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 07:57	762-75-4	L1,P5
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 07:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 07:57	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 07:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 07:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 07:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 07:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 07:57	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 07:57	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 07:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 07:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 07:57	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		10/03/19 07:57	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		10/03/19 07:57	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/03/19 07:57	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Interstate Truck 00332/60315  
 Pace Project No.: 92447513

Sample: MW-9 Lab ID: 92447513009 Collected: 09/27/19 11:14 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/04/19 08:15	10/08/19 00:10	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	10/04/19 08:15	10/08/19 00:10	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	1000	656	10		10/04/19 19:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	30.4	10		10/04/19 19:47	994-05-8	
Benzene	ND	ug/L	50.0	17.4	10		10/04/19 19:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	539	10		10/04/19 19:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	910	10		10/04/19 19:47	75-65-0	
tert-Butyl Formate	ND	ug/L	500	241	10		10/04/19 19:47	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	50.0	20.6	10		10/04/19 19:47	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	34.9	10		10/04/19 19:47	108-20-3	
Ethanol	ND	ug/L	2000	1440	10		10/04/19 19:47	64-17-5	
Ethylbenzene	726	ug/L	50.0	18.4	10		10/04/19 19:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	84.6	10		10/04/19 19:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	31.0	10		10/04/19 19:47	1634-04-4	
Naphthalene	326	ug/L	50.0	20.9	10		10/04/19 19:47	91-20-3	
Toluene	89.5	ug/L	50.0	20.1	10		10/04/19 19:47	108-88-3	
Xylene (Total)	2930	ug/L	50.0	50.0	10		10/04/19 19:47	1330-20-7	
m&p-Xylene	2930	ug/L	100	41.1	10		10/04/19 19:47	179601-23-1	
o-Xylene	ND	ug/L	50.0	20.4	10		10/04/19 19:47	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		10		10/04/19 19:47	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		10		10/04/19 19:47	17060-07-0	
Toluene-d8 (S)	98	%	70-130		10		10/04/19 19:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-10      Lab ID: 92447513010      Collected: 09/27/19 12:53      Received: 09/27/19 15:40      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 00:28	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	82	%	60-140		1	10/04/19 08:15	10/08/19 00:28	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 17:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 17:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 17:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 17:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 17:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 17:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 17:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 17:19	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 17:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 17:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 17:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 17:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 17:19	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 17:19	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 17:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 17:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 17:19	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/03/19 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		10/03/19 17:19	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/03/19 17:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-12      Lab ID: 92447513011      Collected: 09/27/19 11:43      Received: 09/27/19 15:40      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/04/19 08:15	10/08/19 00:46	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	10/04/19 08:15	10/08/19 00:46	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 17:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 17:37	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 17:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 17:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 17:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 17:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 17:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 17:37	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 17:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 17:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 17:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 17:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 17:37	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 17:37	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 17:37	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 17:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 17:37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/03/19 17:37	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/03/19 17:37	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/03/19 17:37	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315

Pace Project No.: 92447513

Sample: MW-13 Lab ID: 92447513012 Collected: 09/27/19 12:05 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 01:04	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	10/04/19 08:15	10/08/19 01:04	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 17:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 17:54	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 17:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 17:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 17:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 17:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 17:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 17:54	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 17:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 17:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 17:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 17:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 17:54	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 17:54	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 17:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 17:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 17:54	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	163	%	70-130		1		10/03/19 17:54	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		10/03/19 17:54	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/03/19 17:54	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-14      Lab ID: 92447513013      Collected: 09/27/19 11:10      Received: 09/27/19 15:40      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 01:22	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	10/04/19 08:15	10/08/19 01:22	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	1250	820	12.5		10/03/19 22:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	38.0	12.5		10/03/19 22:31	994-05-8	M1
Benzene	ND	ug/L	62.5	21.8	12.5		10/03/19 22:31	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	674	12.5		10/03/19 22:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	1140	12.5		10/03/19 22:31	75-65-0	M1
tert-Butyl Formate	ND	ug/L	625	301	12.5		10/03/19 22:31	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	62.5	25.8	12.5		10/03/19 22:31	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	43.6	12.5		10/03/19 22:31	108-20-3	M1
Ethanol	ND	ug/L	2500	1800	12.5		10/03/19 22:31	64-17-5	
Ethylbenzene	1170	ug/L	62.5	23.0	12.5		10/03/19 22:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	106	12.5		10/03/19 22:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	38.8	12.5		10/03/19 22:31	1634-04-4	M1
Naphthalene	193	ug/L	62.5	26.1	12.5		10/03/19 22:31	91-20-3	
Toluene	509	ug/L	62.5	25.1	12.5		10/03/19 22:31	108-88-3	
Xylene (Total)	3890	ug/L	62.5	62.5	12.5		10/03/19 22:31	1330-20-7	
m&p-Xylene	3890	ug/L	125	51.4	12.5		10/03/19 22:31	179601-23-1	
o-Xylene	ND	ug/L	62.5	25.5	12.5		10/03/19 22:31	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		12.5		10/03/19 22:31	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		12.5		10/03/19 22:31	17060-07-0	
Toluene-d8 (S)	100	%	70-130		12.5		10/03/19 22:31	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Interstate Truck 00332/60315  
 Pace Project No.: 92447513

Sample: MW-15 Lab ID: 92447513014 Collected: 09/27/19 10:50 Received 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/04/19 08:15	10/08/19 01:40	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	10/04/19 08:15	10/08/19 01:40	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	400	262	4		10/04/19 18:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	40.0	12.2	4		10/04/19 18:35	994-05-8	
Benzene	8.0J	ug/L	20.0	7.0	4		10/04/19 18:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	400	216	4		10/04/19 18:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	400	364	4		10/04/19 18:35	75-65-0	
tert-Butyl Formate	ND	ug/L	200	96.4	4		10/04/19 18:35	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	20.0	8.2	4		10/04/19 18:35	107-06-2	
Diisopropyl ether	ND	ug/L	20.0	14.0	4		10/04/19 18:35	108-20-3	
Ethanol	ND	ug/L	800	576	4		10/04/19 18:35	64-17-5	
Ethylbenzene	156	ug/L	20.0	7.4	4		10/04/19 18:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	40.0	33.8	4		10/04/19 18:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	20.0	12.4	4		10/04/19 18:35	1634-04-4	
Naphthalene	24.6	ug/L	20.0	8.4	4		10/04/19 18:35	91-20-3	
Toluene	333	ug/L	20.0	8.0	4		10/04/19 18:35	108-88-3	
Xylene (Total)	628	ug/L	20.0	20.0	4		10/04/19 18:35	1330-20-7	
m&p-Xylene	514	ug/L	40.0	16.4	4		10/04/19 18:35	179601-23-1	
o-Xylene	114	ug/L	20.0	8.2	4		10/04/19 18:35	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		4		10/04/19 18:35	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		4		10/04/19 18:35	17060-07-0	
Toluene-d8 (S)	95	%	70-130		4		10/04/19 18:35	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-17 Lab ID: 92447513015 Collected: 09/27/19 10:53 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 01:58	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	87	%	60-140		1	10/04/19 08:15	10/08/19 01:58	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 18:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 18:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 18:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 18:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 18:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 18:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 18:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 18:29	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 18:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 18:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 18:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 18:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 18:29	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 18:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 18:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 18:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 18:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/03/19 18:29	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/03/19 18:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/03/19 18:29	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-18 Lab ID: 92447513016 Collected: 09/27/19 13:15 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 02:16	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	10/04/19 08:15	10/08/19 02:16	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 18:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 18:46	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 18:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 18:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 18:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 18:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 18:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 18:46	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 18:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 18:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 18:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 18:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 18:46	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 18:46	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 18:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 18:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 18:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		10/03/19 18:46	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		10/03/19 18:46	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/03/19 18:46	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-19      Lab ID: 92447513017      Collected: 09/27/19 13:36      Received 09/27/19 15 40      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/04/19 08:15	10/08/19 02:34	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	91	%	60-140		1	10/04/19 08:15	10/08/19 02:34	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	500	328	5		10/04/19 18:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	15.2	5		10/04/19 18:53	994-05-8	
Benzene	ND	ug/L	25.0	8.7	5		10/04/19 18:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	270	5		10/04/19 18:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	455	5		10/04/19 18:53	75-85-0	
tert-Butyl Formate	ND	ug/L	250	120	5		10/04/19 18:53	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	25.0	10.3	5		10/04/19 18:53	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	17.4	5		10/04/19 18:53	108-20-3	
Ethanol	ND	ug/L	1000	720	5		10/04/19 18:53	64-17-5	
Ethylbenzene	401	ug/L	25.0	9.2	5		10/04/19 18:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	42.3	5		10/04/19 18:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	15.5	5		10/04/19 18:53	1634-04-4	
Naphthalene	45.1	ug/L	25.0	10.4	5		10/04/19 18:53	91-20-3	
Toluene	26.5	ug/L	25.0	10.0	5		10/04/19 18:53	108-88-3	
Xylene (Total)	1960	ug/L	25.0	25.0	5		10/04/19 18:53	1330-20-7	
m&p-Xylene	1630	ug/L	50.0	20.6	5		10/04/19 18:53	179601-23-1	
o-Xylene	338	ug/L	25.0	10.2	5		10/04/19 18:53	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		5		10/04/19 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		5		10/04/19 18:53	17060-07-0	
Toluene-d8 (S)	95	%	70-130		5		10/04/19 18:53	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-20      Lab ID: 92447513018      Collected: 09/27/19 11:43      Received: 09/27/19 15:40      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 02:52	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	10/04/19 08:15	10/08/19 02:52	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 19:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 19:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 19:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 19:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 19:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 19:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 19:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 19:03	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 19:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 19:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 19:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 19:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 19:03	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 19:03	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 19:03	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 19:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 19:03	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/03/19 19:03	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		10/03/19 19:03	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/03/19 19:03	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: MW-22 Lab ID: 92447513019 Collected: 09/27/19 13:38 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 03:11	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	10/04/19 08:15	10/08/19 03:11	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	1250	820	12.5		10/04/19 20:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	38.0	12.5		10/04/19 20:05	994-05-8	
Benzene	ND	ug/L	62.5	21.8	12.5		10/04/19 20:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	674	12.5		10/04/19 20:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	1140	12.5		10/04/19 20:05	75-65-0	
tert-Butyl Formate	ND	ug/L	625	301	12.5		10/04/19 20:05	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	62.5	25.8	12.5		10/04/19 20:05	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	43.6	12.5		10/04/19 20:05	108-20-3	
Ethanol	ND	ug/L	2500	1800	12.5		10/04/19 20:05	64-17-5	
Ethylbenzene	1190	ug/L	62.5	23.0	12.5		10/04/19 20:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	106	12.5		10/04/19 20:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	38.8	12.5		10/04/19 20:05	1634-04-4	
Naphthalene	403	ug/L	62.5	26.1	12.5		10/04/19 20:05	91-20-3	
Toluene	194	ug/L	62.5	25.1	12.5		10/04/19 20:05	108-88-3	
Xylene (Total)	4590	ug/L	62.5	62.5	12.5		10/04/19 20:05	1330-20-7	
m&p-Xylene	4380	ug/L	125	51.4	12.5		10/04/19 20:05	179601-23-1	
o-Xylene	211	ug/L	62.5	25.5	12.5		10/04/19 20:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		12.5		10/04/19 20:05	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		12.5		10/04/19 20:05	17060-07-0	
Toluene-d8 (S)	98	%	70-130		12.5		10/04/19 20:05	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: DW-1      Lab ID: 92447513020      Collected: 09/27/19 13:24      Received: 09/27/19 15:40      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 03:29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	10/04/19 08:15	10/08/19 03:29	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 19:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 19:20	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 19:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 19:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 19:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 19:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 19:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 19:20	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 19:20	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 19:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 19:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 19:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 19:20	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 19:20	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 19:20	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 19:20	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 19:20	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/03/19 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/03/19 19:20	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/03/19 19:20	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: DW-2      Lab ID: 92447513021      Collected: 09/27/19 12:33      Received: 09/27/19 15:40      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 03:47	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	10/04/19 08:15	10/08/19 03:47	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 19:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 19:38	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 19:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 19:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 19:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 19:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 19:38	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 19:38	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 19:38	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 19:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 19:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 19:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 19:38	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 19:38	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 19:38	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 19:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 19:38	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/03/19 19:38	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		10/03/19 19:38	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/03/19 19:38	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315

Pace Project No.: 92447513

Sample: DW-3 Lab ID: 92447513022 Collected: 09/27/19 10:55 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/04/19 08:15	10/08/19 04:05	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	10/04/19 08.15	10/08/19 04:05	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	250	164	2.5		10/04/19 18:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	25.0	7.6	2.5		10/04/19 18:17	994-05-8	
Benzene	17.3	ug/L	12.5	4.4	2.5		10/04/19 18:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	250	135	2.5		10/04/19 18:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	250	228	2.5		10/04/19 18:17	75-65-0	
tert-Butyl Formate	ND	ug/L	125	60.2	2.5		10/04/19 18:17	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	12.5	5.2	2.5		10/04/19 18.17	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	8.7	2.5		10/04/19 18:17	108-20-3	
Ethanol	ND	ug/L	500	360	2.5		10/04/19 18:17	64-17-5	
Ethylbenzene	273	ug/L	12.5	4.6	2.5		10/04/19 18 17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	25.0	21.2	2.5		10/04/19 18:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	12.5	7.8	2.5		10/04/19 18:17	1634-04-4	
Naphthalene	60.7	ug/L	12.5	5.2	2.5		10/04/19 18:17	91-20-3	
Toluene	9.6J	ug/L	12.5	5.0	2.5		10/04/19 18.17	108-88-3	
Xylene (Total)	39.1	ug/L	12.5	12.5	2.5		10/04/19 18:17	1330-20-7	
m&p-Xylene	39.1	ug/L	25.0	10.3	2.5		10/04/19 18:17	179601-23-1	
o-Xylene	ND	ug/L	12.5	5.1	2.5		10/04/19 18:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		2.5		10/04/19 18:17	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		2.5		10/04/19 18:17	17080-07-0	
Toluene-d8 (S)	96	%	70-130		2.5		10/04/19 18:17	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: DW-4 Lab ID: 92447513023 Collected: 09/27/19 11:46 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 04:23	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	10/04/19 08:15	10/08/19 04:23	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 20:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 20:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 20:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 20:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 20:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 20:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 20:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 20:12	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 20:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 20:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 20:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 20:12	1634-04-4	
Naphthalene	3.0J	ug/L	5.0	2.1	1		10/03/19 20:12	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 20:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 20:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 20:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 20:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/03/19 20:12	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/03/19 20:12	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/03/19 20:12	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: DW-5 Lab ID: 92447513024 Collected: 09/27/19 12:37 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 04:41	106-93-4	
<i>Surrogates</i>									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	10/04/19 08:15	10/08/19 04:41	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 20:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 20:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 20:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 20:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 20:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 20:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 20:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 20:30	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 20:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 20:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 20:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 20:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 20:30	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 20:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 20:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 20:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 20:30	95-47-6	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/03/19 20:30	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		10/03/19 20:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/03/19 20:30	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: DW-6		Lab ID: 92447513025		Collected: 09/27/19 12:37		Received: 09/27/19 15:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 04:59	108-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	10/04/19 08:15	10/08/19 04:59	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 20:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 20:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 20:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 20:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 20:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 20:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 20:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 20:47	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 20:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 20:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 20:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 20:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 20:47	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 20:47	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 20:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 20:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 20:47	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/03/19 20:47	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/03/19 20:47	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/03/19 20:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: Dup-1      Lab ID: 92447513026      Collected: 09/27/19 11:14      Received: 09/27/19 15:40      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/08/19 05:17	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	10/04/19 08:15	10/08/19 05:17	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	1000	656	10		10/04/19 19:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	30.4	10		10/04/19 19:29	994-05-8	
Benzene	ND	ug/L	50.0	17.4	10		10/04/19 19:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	539	10		10/04/19 19:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	910	10		10/04/19 19:29	75-65-0	
tert-Butyl Formate	ND	ug/L	500	241	10		10/04/19 19:29	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	50.0	20.6	10		10/04/19 19:29	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	34.9	10		10/04/19 19:29	108-20-3	
Ethanol	ND	ug/L	2000	1440	10		10/04/19 19:29	64-17-5	
Ethylbenzene	902	ug/L	50.0	18.4	10		10/04/19 19:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	84.6	10		10/04/19 19:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	31.0	10		10/04/19 19:29	1634-04-4	
Naphthalene	376	ug/L	50.0	20.9	10		10/04/19 19:29	91-20-3	
Toluene	145	ug/L	50.0	20.1	10		10/04/19 19:29	108-88-3	
Xylene (Total)	3450	ug/L	50.0	50.0	10		10/04/19 19:29	1330-20-7	
m&p-Xylene	3450	ug/L	100	41.1	10		10/04/19 19:29	179601-23-1	
o-Xylene	ND	ug/L	50.0	20.4	10		10/04/19 19:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		10		10/04/19 19:29	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		10		10/04/19 19:29	17060-07-0	
Toluene-d8 (S)	97	%	70-130		10		10/04/19 19:29	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
 Pace Project No.: 92447513

Sample: Dup-2      Lab ID: 92447513027      Collected: 09/27/19 13:44      Received: 09/27/19 15:40      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011    Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/04/19 08:15	10/07/19 19:56	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	10/04/19 08:15	10/07/19 19:56	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	2000	1310	20		10/04/19 20:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	60.8	20		10/04/19 20:23	994-05-8	
Benzene	ND	ug/L	100	34.8	20		10/04/19 20:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1080	20		10/04/19 20:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1820	20		10/04/19 20:23	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	482	20		10/04/19 20:23	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	100	41.2	20		10/04/19 20:23	107-06-2	
Diisopropyl ether	ND	ug/L	100	69.8	20		10/04/19 20:23	108-20-3	
Ethanol	ND	ug/L	4000	2880	20		10/04/19 20:23	64-17-5	
Ethylbenzene	1390	ug/L	100	36.8	20		10/04/19 20:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	169	20		10/04/19 20:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	62.0	20		10/04/19 20:23	1634-04-4	
Naphthalene	204	ug/L	100	41.8	20		10/04/19 20:23	91-20-3	
Toluene	461	ug/L	100	40.2	20		10/04/19 20:23	108-88-3	
Xylene (Total)	4500	ug/L	100	100	20		10/04/19 20:23	1330-20-7	
m&p-Xylene	4500	ug/L	200	82.2	20		10/04/19 20:23	179601-23-1	
o-Xylene	64.6J	ug/L	100	40.8	20		10/04/19 20:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		20		10/04/19 20:23	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		20		10/04/19 20:23	17060-07-0	
Toluene-d8 (S)	95	%	70-130		20		10/04/19 20:23	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315

Pace Project No.: 92447513

Sample: FB									
Lab ID: 92447513028 Collected 09/27/19 14:16 Received: 09/27/19 15:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 08:15	10/07/19 20:08	106-93-4	
<i>Surrogates</i>									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	10/04/19 08:15	10/07/19 20:08	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/03/19 16:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/03/19 16:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/03/19 16:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/03/19 16:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/03/19 16:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/03/19 16:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/03/19 16:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/03/19 16:45	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/03/19 16:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/03/19 16:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/03/19 16:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/03/19 16:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/03/19 16:45	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/03/19 16:45	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/03/19 16:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/03/19 16:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/03/19 16:45	95-47-6	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/03/19 16:45	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/03/19 16:45	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/03/19 16:45	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Sample: TB-1 Lab ID: 92447513029 Collected: 09/27/19 08:00 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/05/19 01:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/05/19 01:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/05/19 01:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/05/19 01:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/05/19 01:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/05/19 01:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/05/19 01:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/05/19 01:34	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/05/19 01:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/05/19 01:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/05/19 01:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/05/19 01:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/05/19 01:34	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/05/19 01:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/05/19 01:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/05/19 01:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/05/19 01:34	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		10/05/19 01:34	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/05/19 01:34	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/05/19 01:34	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Interstate Truck 00332/60315  
 Pace Project No.: 92447513

Sample: TB-2 Lab ID: 92447513030 Collected: 09/27/19 08:00 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/05/19 01:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/05/19 01:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/05/19 01:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/05/19 01:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/05/19 01:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/05/19 01:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/05/19 01:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/05/19 01:17	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/05/19 01:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/05/19 01:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/05/19 01:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/05/19 01:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/05/19 01:17	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/05/19 01:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/05/19 01:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/05/19 01:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/05/19 01:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/05/19 01:17	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/05/19 01:17	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/05/19 01:17	2037-26-5	

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315

Pace Project No.: 92447513

QC Batch: 501252 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92447513008

METHOD BLANK: 2695941 Matrix: Water  
Associated Lab Samples: 92447513008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/02/19 23:00	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/02/19 23:00	
Benzene	ug/L	ND	5.0	1.7	10/02/19 23:00	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/02/19 23:00	
Ethanol	ug/L	ND	200	144	10/02/19 23:00	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/02/19 23:00	
Ethylbenzene	ug/L	ND	5.0	1.8	10/02/19 23:00	
m&p-Xylene	ug/L	ND	10.0	4.1	10/02/19 23:00	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/02/19 23:00	
Naphthalene	ug/L	ND	5.0	2.1	10/02/19 23:00	
o-Xylene	ug/L	ND	5.0	2.0	10/02/19 23:00	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/02/19 23:00	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/02/19 23:00	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/02/19 23:00	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/02/19 23:00	
Toluene	ug/L	ND	5.0	2.0	10/02/19 23:00	
Xylene (Total)	ug/L	ND	5.0	5.0	10/02/19 23:00	
1,2-Dichloroethane-d4 (S)	%	116	70-130		10/02/19 23:00	
4-Bromofluorobenzene (S)	%	101	70-130		10/02/19 23:00	
Toluene-d8 (S)	%	104	70-130		10/02/19 23:00	

LABORATORY CONTROL SAMPLE: 2695942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	61.9	124	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	954	95	70-130	
Benzene	ug/L	50	53.1	106	70-130	
Diisopropyl ether	ug/L	50	57.6	115	70-130	
Ethanol	ug/L	2000	2050	102	70-130	
Ethyl-tert-butyl ether	ug/L	100	112	112	70-130	
Ethylbenzene	ug/L	50	50.2	100	70-130	
m&p-Xylene	ug/L	100	99.5	100	70-130	
Methyl-tert-butyl ether	ug/L	50	58.8	118	70-130	
Naphthalene	ug/L	50	44.6	89	70-130	
o-Xylene	ug/L	50	49.2	98	70-130	
tert-Amyl Alcohol	ug/L	1000	1100	110	70-130	
tert-Amylmethyl ether	ug/L	100	112	112	70-130	
tert-Butyl Alcohol	ug/L	500	619	124	70-130	
tert-Butyl Formate	ug/L	400	535	134	70-130 1g,L1	
Toluene	ug/L	50	49.9	100	70-130	

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

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/80315  
Pace Project No. 92447513

LABORATORY CONTROL SAMPLE: 2695942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	149	99	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2695944

Parameter	Units	92447513008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.4	92	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	371	93	70-130	
Benzene	ug/L	ND	20	20.9	105	70-130	
Diisopropyl ether	ug/L	ND	20	19.7	99	70-130	
Ethanol	ug/L	ND	800	672	84	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	36.6	92	70-130	
Ethylbenzene	ug/L	ND	20	20.6	103	70-130	
m&p-Xylene	ug/L	ND	40	41.6	104	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.2	96	70-130	
Naphthalene	ug/L	ND	20	19.8	99	70-130	
o-Xylene	ug/L	ND	20	20.6	103	70-130	
tert-Amyl Alcohol	ug/L	ND	400	353	88	70-130	
tert-Amylmethyl ether	ug/L	ND	40	39.5	99	70-130	
tert-Butyl Alcohol	ug/L	ND	200	232	116	70-130	
tert-Butyl Formate	ug/L	ND	160	30.8J	19	70-130 P5	
Toluene	ug/L	ND	20	20.0	100	70-130	
Xylene (Total)	ug/L	ND	60	62.3	104	70-130	
1,2-Dichloroethane-d4 (S)	%				90	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2695943

Parameter	Units	92447477009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

SAMPLE DUPLICATE: 2695943

Parameter	Units	92447477009 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	120	88			
4-Bromofluorobenzene (S)	%	103	97			
Toluene-d8 (S)	%	104	97			

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

QC Batch: 501450 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92447513001, 92447513003, 92447513004, 92447513005, 92447513007

METHOD BLANK: 2696766 Matrix: Water  
Associated Lab Samples: 92447513001, 92447513003, 92447513004, 92447513005, 92447513007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/03/19 11:03	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/03/19 11:03	
Benzene	ug/L	ND	5.0	1.7	10/03/19 11:03	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/03/19 11:03	
Ethanol	ug/L	ND	200	144	10/03/19 11:03	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/03/19 11:03	
Ethylbenzene	ug/L	ND	5.0	1.8	10/03/19 11:03	
m&p-Xylene	ug/L	ND	10.0	4.1	10/03/19 11:03	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/03/19 11:03	
Naphthalene	ug/L	ND	5.0	2.1	10/03/19 11:03	
o-Xylene	ug/L	ND	5.0	2.0	10/03/19 11:03	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/03/19 11:03	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/03/19 11:03	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/03/19 11:03	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/03/19 11:03	
Toluene	ug/L	ND	5.0	2.0	10/03/19 11:03	
Xylene (Total)	ug/L	ND	5.0	5.0	10/03/19 11:03	
1,2-Dichloroethane-d4 (S)	%	118	70-130		10/03/19 11:03	
4-Bromofluorobenzene (S)	%	104	70-130		10/03/19 11:03	
Toluene-d8 (S)	%	105	70-130		10/03/19 11:03	

LABORATORY CONTROL SAMPLE: 2696767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	64.5	129	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	935	94	70-130	
Benzene	ug/L	50	54.3	109	70-130	
Diisopropyl ether	ug/L	50	59.6	119	70-130	
Ethanol	ug/L	2000	2120	106	70-130	
Ethyl-tert-butyl ether	ug/L	100	115	115	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
m&p-Xylene	ug/L	100	99.2	99	70-130	
Methyl-tert-butyl ether	ug/L	50	59.2	118	70-130	
Naphthalene	ug/L	50	44.5	89	70-130	
o-Xylene	ug/L	50	50.2	100	70-130	
tert-Amyl Alcohol	ug/L	1000	1110	111	70-130	
tert-Amylmethyl ether	ug/L	100	113	113	70-130	
tert-Butyl Alcohol	ug/L	500	616	123	70-130	
tert-Butyl Formate	ug/L	400	521	130	70-130 1g	
Toluene	ug/L	50	51.8	104	70-130	

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.. 92447513

LABORATORY CONTROL SAMPLE: 2696767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	149	100	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2697987 2697988

Parameter	Units	92447477030		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,2-Dichloroethane	ug/L	ND	1000	1000	995	969	94	92	70-130	3	30		
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	19200	19700	96	99	70-130	3	30		
Benzene	ug/L	7060	1000	1000	5660	6260	-140	-79	70-130	10	30	M1	
Diisopropyl ether	ug/L	ND	1000	1000	1020	1030	100	101	70-130	1	30		
Ethanol	ug/L	ND	40000	40000	34000	33400	85	84	70-130	2	30		
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	1840	1860	92	93	70-130	1	30		
Ethylbenzene	ug/L	1330	1000	1000	2070	2240	74	91	70-130	8	30		
m&p-Xylene	ug/L	3610	2000	2000	4850	5310	62	85	70-130	9	30	M1	
Methyl-tert-butyl ether	ug/L	ND	1000	1000	988	992	99	99	70-130	0	30		
Naphthalene	ug/L	358	1000	1000	1400	1480	104	112	70-130	6	30		
o-Xylene	ug/L	1510	1000	1000	2260	2450	75	94	70-130	8	30		
tert-Amyl Alcohol	ug/L	ND	20000	20000	20000	19900	100	99	70-130	1	30		
tert-Amylmethyl ether	ug/L	ND	2000	2000	2010	2000	100	100	70-130	0	30		
tert-Butyl Alcohol	ug/L	ND	10000	10000	7710	7940	77	79	70-130	3	30		
tert-Butyl Formate	ug/L	ND	8000	8000	9610	9610	120	120	70-130	0	30		
Toluene	ug/L	7270	1000	1000	5860	6540	-141	-74	70-130	11	30	M1	
Xylene (Total)	ug/L	5120	3000	3000	7120	7760	67	88	70-130	9	30	MS	
1,2-Dichloroethane-d4 (S)	%						88	89	70-130				
4-Bromofluorobenzene (S)	%						99	99	70-130				
Toluene-d8 (S)	%						95	95	70-130				

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

QC Batch: 501454 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92447513010, 92447513011, 92447513012, 92447513013, 92447513015, 92447513016, 92447513018, 92447513020, 92447513021, 92447513023, 92447513024, 92447513025, 92447513028

METHOD BLANK: 2696777 Matrix: Water  
Associated Lab Samples: 92447513010, 92447513011, 92447513012, 92447513013, 92447513015, 92447513016, 92447513018, 92447513020, 92447513021, 92447513023, 92447513024, 92447513025, 92447513028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/03/19 16:27	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/03/19 16:27	
Benzene	ug/L	ND	5.0	1.7	10/03/19 16:27	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/03/19 16:27	
Ethanol	ug/L	ND	200	144	10/03/19 16:27	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/03/19 16:27	
Ethylbenzene	ug/L	ND	5.0	1.8	10/03/19 16:27	
m&p-Xylene	ug/L	ND	10.0	4.1	10/03/19 16:27	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/03/19 16:27	
Naphthalene	ug/L	ND	5.0	2.1	10/03/19 16:27	
o-Xylene	ug/L	ND	5.0	2.0	10/03/19 16:27	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/03/19 16:27	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/03/19 16:27	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/03/19 16:27	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/03/19 16:27	
Toluene	ug/L	ND	5.0	2.0	10/03/19 16:27	
Xylene (Total)	ug/L	ND	5.0	5.0	10/03/19 16:27	
1,2-Dichloroethane-d4 (S)	%	104	70-130		10/03/19 16:27	
4-Bromofluorobenzene (S)	%	101	70-130		10/03/19 16:27	
Toluene-d8 (S)	%	100	70-130		10/03/19 16:27	

LABORATORY CONTROL SAMPLE: 2696778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.5	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1040	104	70-130	
Benzene	ug/L	50	49.3	99	70-130	
Diisopropyl ether	ug/L	50	49.4	99	70-130	
Ethanol	ug/L	2000	2000	100	70-130	
Ethyl-tert-butyl ether	ug/L	100	92.1	92	70-130	
Ethylbenzene	ug/L	50	48.9	98	70-130	
m&p-Xylene	ug/L	100	97.5	98	70-130	
Methyl-tert-butyl ether	ug/L	50	49.0	98	70-130	
Naphthalene	ug/L	50	52.4	105	70-130	
o-Xylene	ug/L	50	49.4	99	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	508	102	70-130	

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

LABORATORY CONTROL SAMPLE. 2696778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	411	103	70-130	
Toluene	ug/L	50	49.0	98	70-130	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2696779 2696780

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92447513013 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2-Dichloroethane	ug/L	ND	250	250	282	316	113	126	70-130	11	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	5000	5000	5050	6060	101	121	70-130	18	30	
Benzene	ug/L	ND	250	250	323	358	122	136	70-130	10	30	M1
Diisopropyl ether	ug/L	ND	250	250	302	339	121	136	70-130	12	30	M1
Ethanol	ug/L	ND	10000	10000	10300	12300	103	123	70-130	18	30	
Ethyl-tert-butyl ether	ug/L	ND	500	500	566	637	113	127	70-130	12	30	
Ethylbenzene	ug/L	1170	250	250	1460	1430	118	102	70-130	3	30	
m&p-Xylene	ug/L	3890	500	500	4430	4270	107	76	70-130	4	30	
Methyl-tert-butyl ether	ug/L	ND	250	250	294	335	118	134	70-130	13	30	M1
Naphthalene	ug/L	193	250	250	452	499	104	122	70-130	10	30	
o-Xylene	ug/L	ND	250	250	307	322	120	126	70-130	5	30	
tert-Amyl Alcohol	ug/L	ND	5000	5000	5290	6200	106	124	70-130	16	30	
tert-Amylbenzyl ether	ug/L	ND	500	500	590	672	118	134	70-130	13	30	M1
tert-Butyl Alcohol	ug/L	ND	2500	2500	3350	3980	134	159	70-130	17	30	M1
tert-Butyl Formate	ug/L	ND	2000	2000	845	931	42	47	70-130	10	30	P5
Toluene	ug/L	509	250	250	799	825	116	126	70-130	3	30	
Xylene (Total)	ug/L	3890	750	750	4740	4590	112	93	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%						104	95	70-130			
4-Bromofluorobenzene (S)	%						98	97	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

QC Batch: 501564 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92447513029, 92447513030

METHOD BLANK: 2697428 Matrix: Water  
Associated Lab Samples: 92447513029, 92447513030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/05/19 00:59	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/05/19 00:59	
Benzene	ug/L	ND	5.0	1.7	10/05/19 00:59	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/05/19 00:59	
Ethanol	ug/L	ND	200	144	10/05/19 00:59	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/05/19 00:59	
Ethylbenzene	ug/L	ND	5.0	1.8	10/05/19 00:59	
m&p-Xylene	ug/L	ND	10.0	4.1	10/05/19 00:59	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/05/19 00:59	
Naphthalene	ug/L	ND	5.0	2.1	10/05/19 00:59	
o-Xylene	ug/L	ND	5.0	2.0	10/05/19 00:59	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/05/19 00:59	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/05/19 00:59	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/05/19 00:59	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/05/19 00:59	
Toluene	ug/L	ND	5.0	2.0	10/05/19 00:59	
Xylene (Total)	ug/L	ND	5.0	5.0	10/05/19 00:59	
1,2-Dichloroethane-d4 (S)	%	108	70-130		10/05/19 00:59	
4-Bromofluorobenzene (S)	%	102	70-130		10/05/19 00:59	
Toluene-d8 (S)	%	101	70-130		10/05/19 00:59	

LABORATORY CONTROL SAMPLE: 2697429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.5	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	988	99	70-130	
Benzene	ug/L	50	51.6	103	70-130	
Diisopropyl ether	ug/L	50	51.9	104	70-130	
Ethanol	ug/L	2000	1950	98	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.6	98	70-130	
Ethylbenzene	ug/L	50	50.6	101	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	51.8	104	70-130	
Naphthalene	ug/L	50	53.1	106	70-130	
o-Xylene	ug/L	50	51.6	103	70-130	
tert-Amyl Alcohol	ug/L	1000	961	96	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	494	99	70-130	
tert-Butyl Formate	ug/L	400	423	106	70-130	
Toluene	ug/L	50	51.0	102	70-130	

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

LABORATORY CONTROL SAMPLE: 2697429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	152	102	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2697431

Parameter	Units	92447891008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.7	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	371	93	70-130	
Benzene	ug/L	ND	20	21.7	108	70-130	
Diisopropyl ether	ug/L	ND	20	21.5	107	70-130	
Ethanol	ug/L	ND	800	794	99	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	39.5	99	70-130	
Ethylbenzene	ug/L	ND	20	20.7	103	70-130	
m&p-Xylene	ug/L	ND	40	41.3	103	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.0	104	70-130	
Naphthalene	ug/L	ND	20	26.6	133	70-130 M1	
o-Xylene	ug/L	ND	20	20.9	104	70-130	
tert-Amyl Alcohol	ug/L	ND	400	360	90	70-130	
tert-Amylmethyl ether	ug/L	ND	40	40.8	102	70-130	
tert-Butyl Alcohol	ug/L	ND	200	285	143	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 P5	
Toluene	ug/L	ND	20	20.8	104	70-130	
Xylene (Total)	ug/L	ND	60	62.2	104	70-130	
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2697430

Parameter	Units	92447873001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

SAMPLE DUPLICATE: 2697430

Parameter	Units	92447873001 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	113	113			
4-Bromofluorobenzene (S)	%	105	102			
Toluene-d8 (S)	%	97	98			

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

QC Batch: 501590 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92447513006

METHOD BLANK: 2697499 Matrix: Water

Associated Lab Samples: 92447513006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/03/19 17:09	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/03/19 17:09	
Benzene	ug/L	ND	5.0	1.7	10/03/19 17:09	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/03/19 17:09	
Ethanol	ug/L	ND	200	144	10/03/19 17:09	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/03/19 17:09	
Ethylbenzene	ug/L	ND	5.0	1.8	10/03/19 17:09	
m&p-Xylene	ug/L	ND	10.0	4.1	10/03/19 17:09	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/03/19 17:09	
Naphthalene	ug/L	ND	5.0	2.1	10/03/19 17:09	
o-Xylene	ug/L	ND	5.0	2.0	10/03/19 17:09	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/03/19 17:09	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/03/19 17:09	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/03/19 17:09	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/03/19 17:09	
Toluene	ug/L	ND	5.0	2.0	10/03/19 17:09	
Xylene (Total)	ug/L	ND	5.0	5.0	10/03/19 17:09	
1,2-Dichloroethane-d4 (S)	%	92	70-130		10/03/19 17:09	
4-Bromofluorobenzene (S)	%	95	70-130		10/03/19 17:09	
Toluene-d8 (S)	%	97	70-130		10/03/19 17:09	

LABORATORY CONTROL SAMPLE: 2697500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1130	113	70-130	
Benzene	ug/L	50	49.4	99	70-130	
Diisopropyl ether	ug/L	50	50.8	102	70-130	
Ethanol	ug/L	2000	1900	95	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.7	96	70-130	
Ethylbenzene	ug/L	50	48.6	97	70-130	
m&p-Xylene	ug/L	100	98.2	98	70-130	
Methyl-tert-butyl ether	ug/L	50	52.0	104	70-130	
Naphthalene	ug/L	50	55.1	110	70-130	
o-Xylene	ug/L	50	49.6	99	70-130	
tert-Amyl Alcohol	ug/L	1000	1040	104	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	479	96	70-130	
tert-Butyl Formate	ug/L	400	476	119	70-130 1g	
Toluene	ug/L	50	46.9	94	70-130	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

LABORATORY CONTROL SAMPLE: 2697500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	148	99	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2697912 2697913

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		92447499001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,2-Dichloroethane	ug/L	ND	1000	1000	922	888	90	87	70-130	4	30
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	20500	19700	103	98	70-130	4	30
Benzene	ug/L	2410	1000	1000	3260	3180	85	76	70-130	3	30
Diisopropyl ether	ug/L	ND	1000	1000	1170	1140	98	95	70-130	3	30
Ethanol	ug/L	ND	40000	40000	34700	33400	87	84	70-130	4	30
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	1840	1780	92	89	70-130	4	30
Ethylbenzene	ug/L	1430	1000	1000	2410	2330	98	90	70-130	3	30
m&p-Xylene	ug/L	5940	2000	2000	7680	7460	87	76	70-130	3	30
Methyl-tert-butyl ether	ug/L	ND	1000	1000	1010	956	99	94	70-130	5	30
Naphthalene	ug/L	752	1000	1000	1820	1800	107	105	70-130	1	30
o-Xylene	ug/L	2240	1000	1000	3170	3080	93	84	70-130	3	30
tert-Amyl Alcohol	ug/L	ND	20000	20000	20400	19400	102	97	70-130	5	30
tert-Amylmethyl ether	ug/L	ND	2000	2000	2080	1970	104	99	70-130	5	30
tert-Butyl Alcohol	ug/L	ND	10000	10000	8130	7700	81	77	70-130	5	30
tert-Butyl Formate	ug/L	ND	8000	8000	9890	9320	124	116	70-130	6	30
Toluene	ug/L	8160	1000	1000	8330	8040	17	-12	70-130	4	30 M1
Xylene (Total)	ug/L	8180	3000	3000	10900	10500	89	79	70-130	3	30
1,2-Dichloroethane-d4 (S)	%						89	90	70-130		
4-Bromofluorobenzene (S)	%						98	98	70-130		
Toluene-d8 (S)	%						97	93	70-130		

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project Interstate Truck 00332/60315  
Pace Project No.: 92447513

QC Batch: 501718 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92447513002, 92447513009, 92447513014, 92447513017, 92447513019, 92447513022, 92447513026, 92447513027

METHOD BLANK: 2698021 Matrix: Water  
Associated Lab Samples: 92447513002, 92447513009, 92447513014, 92447513017, 92447513019, 92447513022, 92447513026, 92447513027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/04/19 15:36	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/04/19 15:36	
Benzene	ug/L	ND	5.0	1.7	10/04/19 15:36	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/04/19 15:36	
Ethanol	ug/L	ND	200	144	10/04/19 15:36	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/04/19 15:36	
Ethylbenzene	ug/L	ND	5.0	1.8	10/04/19 15:36	
m&p-Xylene	ug/L	ND	10.0	4.1	10/04/19 15:36	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/04/19 15:36	
Naphthalene	ug/L	ND	5.0	2.1	10/04/19 15:36	
o-Xylene	ug/L	ND	5.0	2.0	10/04/19 15:36	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/04/19 15:36	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/04/19 15:36	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/04/19 15:36	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/04/19 15:36	
Toluene	ug/L	ND	5.0	2.0	10/04/19 15:36	
Xylene (Total)	ug/L	ND	5.0	5.0	10/04/19 15:36	
1,2-Dichloroethane-d4 (S)	%	93	70-130		10/04/19 15:36	
4-Bromofluorobenzene (S)	%	98	70-130		10/04/19 15:36	
Toluene-d8 (S)	%	101	70-130		10/04/19 15:36	

LABORATORY CONTROL SAMPLE: 2698022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.3	89	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1130	113	70-130	
Benzene	ug/L	50	47.6	95	70-130	
Diisopropyl ether	ug/L	50	48.3	97	70-130	
Ethanol	ug/L	2000	1610	81	70-130	
Ethyl-tert-butyl ether	ug/L	100	90.1	90	70-130	
Ethylbenzene	ug/L	50	48.8	98	70-130	
m&p-Xylene	ug/L	100	97.8	98	70-130	
Methyl-tert-butyl ether	ug/L	50	49.2	98	70-130	
Naphthalene	ug/L	50	57.3	115	70-130	
o-Xylene	ug/L	50	49.8	100	70-130	
tert-Amyl Alcohol	ug/L	1000	987	99	70-130	
tert-Amylmethyl ether	ug/L	100	100	100	70-130	
tert-Butyl Alcohol	ug/L	500	427	85	70-130	

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315

Pace Project No.: 92447513

LABORATORY CONTROL SAMPLE: 2698022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	542	136	70-130	1g,L1
Toluene	ug/L	50	45.7	91	70-130	
Xylene (Total)	ug/L	150	148	98	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2698023 2698024

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92447477037 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	1000	1000	941	1030	88	97	70-130	9	30
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	18800	20900	94	104	70-130	11	30
Benzene	ug/L	4560	1000	1000	5650	5660	109	111	70-130	0	30
Diisopropyl ether	ug/L	ND	1000	1000	981	1070	97	106	70-130	8	30
Ethanol	ug/L	ND	40000	40000	31800	34700	79	87	70-130	9	30
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	1750	1920	87	96	70-130	9	30
Ethylbenzene	ug/L	1060	1000	1000	2090	2140	103	108	70-130	3	30
m&p-Xylene	ug/L	2830	2000	2000	4870	4990	102	108	70-130	3	30
Methyl-tert-butyl ether	ug/L	ND	1000	1000	940	1020	94	102	70-130	8	30
Naphthalene	ug/L	446	1000	1000	1420	1560	97	112	70-130	10	30
o-Xylene	ug/L	1230	1000	1000	2250	2300	102	106	70-130	2	30
tert-Amyl Alcohol	ug/L	ND	20000	20000	19100	21200	96	106	70-130	10	30
tert-Amylmethyl ether	ug/L	ND	2000	2000	1930	2120	96	106	70-130	10	30
tert-Butyl Alcohol	ug/L	ND	10000	10000	7780	8760	78	88	70-130	12	30
tert-Butyl Formate	ug/L	ND	8000	8000	8570	9350	107	117	70-130	9	30
Toluene	ug/L	4880	1000	1000	5750	5840	87	95	70-130	1	30
Xylene (Total)	ug/L	4060	3000	3000	7120	7290	102	108	70-130	2	30
1,2-Dichloroethane-d4 (S)	%						89	88	70-130		
4-Bromofluorobenzene (S)	%						98	97	70-130		
Toluene-d8 (S)	%						96	95	70-130		

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

QC Batch: 501686 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92447513001, 92447513002, 92447513003, 92447513004, 92447513005, 92447513006

METHOD BLANK: 2697870 Matrix: Water  
Associated Lab Samples: 92447513001, 92447513002, 92447513003, 92447513004, 92447513005, 92447513006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	10/07/19 13:03	
1-Chloro-2-bromopropane (S)	%	100	60-140		10/07/19 13:03	

LABORATORY CONTROL SAMPLE & LCSD: 2697871

2697872

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.24	109	97	60-140	12	20	
1-Chloro-2-bromopropane (S)	%				105	92	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2697874

2697875

Parameter	Units	92447441002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.25	0.25	102	104	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						102	102	60-140			

SAMPLE DUPLICATE: 2697873

Parameter	Units	92447441001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	96	87			

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

QC Batch: 501687 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92447513007, 92447513008, 92447513009, 92447513010, 92447513011, 92447513012, 92447513013, 92447513014, 92447513015, 92447513016, 92447513017, 92447513018, 92447513019, 92447513020, 92447513021, 92447513022, 92447513023, 92447513024, 92447513025, 92447513026

METHOD BLANK: 2697876 Matrix: Water  
Associated Lab Samples: 92447513007, 92447513008, 92447513009, 92447513010, 92447513011, 92447513012, 92447513013, 92447513014, 92447513015, 92447513016, 92447513017, 92447513018, 92447513019, 92447513020, 92447513021, 92447513022, 92447513023, 92447513024, 92447513025, 92447513026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	10/07/19 21:46	
1-Chloro-2-bromopropane (S)	%	98	60-140		10/07/19 21:46	

LABORATORY CONTROL SAMPLE & LCSD: 2697877

Parameter	Units	2697878		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCSD Result						
1,2-Dibromoethane (EDB)	ug/L	0.25	0.22	88	104	60-140	17	20	
1-Chloro-2-bromopropane (S)	%			90	104	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2697880 2697881

Parameter	Units	92447513008 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.21	0.21	87	87	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						86	89	60-140			

SAMPLE DUPLICATE: 2697879

Parameter	Units	92447513007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	90	89			

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

QC Batch: 501711 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples 92447513027, 92447513028

METHOD BLANK: 2697975 Matrix: Water  
Associated Lab Samples 92447513027, 92447513028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	10/07/19 19:23	
1-Chloro-2-bromopropane (S)	%	95	60-140		10/07/19 19:23	

LABORATORY CONTROL SAMPLE & LCSD: 2697976

2697977

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	0.25	104	102	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				95	92	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE. 2697979

2697980

Parameter	Units	92447517018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.27	0.26	111	108	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						100	98	60-140			

SAMPLE DUPLICATE: 2697978

Parameter	Units	92447517017 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	98	98			

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## QUALIFIERS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

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### DEFINITIONS

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

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

1g Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error for the following compounds  
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92447513001	MW-1	EPA 8011	501686	EPA 8011	501790
92447513002	MW-2	EPA 8011	501686	EPA 8011	501790
92447513003	MW-3	EPA 8011	501686	EPA 8011	501790
92447513004	MW-4R	EPA 8011	501686	EPA 8011	501790
92447513005	MW-5R	EPA 8011	501686	EPA 8011	501790
92447513006	MW-6	EPA 8011	501686	EPA 8011	501790
92447513007	MW-7	EPA 8011	501687	EPA 8011	501793
92447513008	MW-8	EPA 8011	501687	EPA 8011	501793
92447513009	MW-9	EPA 8011	501687	EPA 8011	501793
92447513010	MW-10	EPA 8011	501687	EPA 8011	501793
92447513011	MW-12	EPA 8011	501687	EPA 8011	501793
92447513012	MW-13	EPA 8011	501687	EPA 8011	501793
92447513013	MW-14	EPA 8011	501687	EPA 8011	501793
92447513014	MW-15	EPA 8011	501687	EPA 8011	501793
92447513015	MW-17	EPA 8011	501687	EPA 8011	501793
92447513016	MW-18	EPA 8011	501687	EPA 8011	501793
92447513017	MW-19	EPA 8011	501687	EPA 8011	501793
92447513018	MW-20	EPA 8011	501687	EPA 8011	501793
92447513019	MW-22	EPA 8011	501687	EPA 8011	501793
92447513020	DW-1	EPA 8011	501687	EPA 8011	501793
92447513021	DW-2	EPA 8011	501687	EPA 8011	501793
92447513022	DW-3	EPA 8011	501687	EPA 8011	501793
92447513023	DW-4	EPA 8011	501687	EPA 8011	501793
92447513024	DW-5	EPA 8011	501687	EPA 8011	501793
92447513025	DW-6	EPA 8011	501687	EPA 8011	501793
92447513026	Dup-1	EPA 8011	501687	EPA 8011	501793
92447513027	Dup-2	EPA 8011	501711	EPA 8011	501795
92447513028	FB	EPA 8011	501711	EPA 8011	501795
92447513001	MW-1	EPA 8260B	501450		
92447513002	MW-2	EPA 8260B	501718		
92447513003	MW-3	EPA 8260B	501450		
92447513004	MW-4R	EPA 8260B	501450		
92447513005	MW-5R	EPA 8260B	501450		
92447513006	MW-6	EPA 8260B	501590		
92447513007	MW-7	EPA 8260B	501450		
92447513008	MW-8	EPA 8260B	501252		
92447513009	MW-9	EPA 8260B	501718		
92447513010	MW-10	EPA 8260B	501454		
92447513011	MW-12	EPA 8260B	501454		
92447513012	MW-13	EPA 8260B	501454		
92447513013	MW-14	EPA 8260B	501454		
92447513014	MW-15	EPA 8260B	501718		
92447513015	MW-17	EPA 8260B	501454		

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447513

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92447513016	MW-18	EPA 8260B	501454		
92447513017	MW-19	EPA 8260B	501718		
92447513018	MW-20	EPA 8260B	501454		
92447513019	MW-22	EPA 8260B	501718		
92447513020	DW-1	EPA 8260B	501454		
92447513021	DW-2	EPA 8260B	501454		
92447513022	DW-3	EPA 8260B	501718		
92447513023	DW-4	EPA 8260B	501454		
92447513024	DW-5	EPA 8260B	501454		
92447513025	DW-6	EPA 8260B	501454		
92447513026	Dup-1	EPA 8260B	501718		
92447513027	Dup-2	EPA 8260B	501718		
92447513028	FB	EPA 8260B	501454		
92447513029	TB-1	EPA 8260B	501564		
92447513030	TB-2	EPA 8260B	501564		

**REPORT OF LABORATORY ANALYSIS**

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WO#: 92447513



92447513

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

LAB USE ONLY - Affix Workor

ALL SHADEL

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: SC Dhec

Address: 2600 Aull St Columbia SC

Report To: R Dunn

Copy To:

Customer Project Name/Number: Interstate Truck

State: SC County/City: Allendale / Columbia Time Zone Collected: PT | MT | CT | ET

Phone: \_\_\_\_\_ Site/Facility ID #: 00332

Email: \_\_\_\_\_

Collected By (print): Ben Kover Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_

Collected By (signature): \_\_\_\_\_ Turnaround Date Required: \_\_\_\_\_ DW Location Code: \_\_\_\_\_

Sample Disposal: \_\_\_\_\_ Rush: \_\_\_\_\_ Field Filtered (if applicable): \_\_\_\_\_

Dispose as appropriate  Return  Archive  Hold: \_\_\_\_\_

Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply)

Yes  No  Yes  No  Yes  No

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW 1	GW	G	9/27/19	13:33			6	X X
MW 2				13:44				
MW 3				14:03				
MW 4R				14:14				
MW 5R				12:57				
MW 6				13:57				
MW 7				12:57				
MW 8				13:18				
MW 9				11:14				
MW 10				12:53				

1,2  
 BAK + NM + 2 x 1/2 g (CA + ETH) 82600  
 EP3 + 8011

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N  NA

Custody Signatures Present Y N  NA

Collector Signature Present  N NA

Bottles Intact  N NA

Correct Bottles  N NA

Sufficient Volume  N NA

Samples Received on Ice  N NA

VOA - Headspace Acceptable Y  N NA

USDA Regulated Soils Y N NA

Samples in Holding Time  N NA

Residual Chlorine Present Y N  NA

Cl Strips:

Sample pH Acceptable Y N NA

pH Strips:

Sulfide Present Y N NA

Lead Acetate Strips:

LAB USE ONLY:  
Lab Sample # / Comments:

92447513

No Odor 001  
Odor 002  
Odor 003  
Odor 004  
Odor 005  
Odor 006  
No Odor 007  
No Odor 008  
Odor 009  
No Odor 010

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: Bubble Bags

Radchem sample(s) screened (<500 cpm):  Y  N  NA

SHORT HOLDS PRESENT (<72 hours): Y  N/A

Lab Tracking #: 2418381

Samples received via:  FEDEX  UPS  Client  Courier  Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y  N NA

Therm ID#: 721014

Cooler 1 Temp Upon Receipt: 0.0 oC

Cooler 1 Therm Corr. Factor: 0.0 oC

Cooler 1 Corrected Temp: 0.0 oC

Comments:

Relinquished by/Company: (Signature) George Gates Date/Time: 9/27/19 3:40

Received by/Company: (Signature) g. p. ... Date/Time: 9/27/19 3:40

Relinquished by/Company: (Signature) g. p. ... Date/Time: 9/27/19 18:59

Received by/Company: (Signature) Stacy Pace Date/Time: 9/27/19 18:59

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Table #: \_\_\_\_\_

Acctnum: \_\_\_\_\_

Template: \_\_\_\_\_

Prelogin: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

Trip Blank Received: Y  N NA

HCl MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 4

WO#: 92447513

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Log

MTJLL

PH: AMB

Due Date: 10/04/19

CLIENT: 92-SCDHEC

ALL SHADED ARE

Company: SC Dhec

Billing Information:

Address: 2600 Ball St Columbia SC

Report To: R Penn

Email To: Danna@dhec.sc.gov

Copy To:

Site Collection Info/Address: 701/1920

Customer Project Name/Number: Interstate Truck

State: SC County/City: Allendale/Utilita Time Zone Collected: PT MT CT ET

Phone: Email:

Site/Facility ID #: 00332

Compliance Monitoring? Yes No

Collected By (print): Pam Pores

Purchase Order #: Quote #:

DW PWS ID #: DW Location Code:

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice: Yes No

Sample Disposal: Dispose as appropriate Return Archive Hold

Rush: Same Day Next Day 2 Day 3 Day 4 Day 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): Yes No Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW 11	GW	G	9/27/19					
MW 12	GW	G	9/27/19	11:43			6	X
MW 13				12:05				
MW 14				11:10				
MW 15				10:30				
MW 16								
MW 17				10:53				
MW 18				13:15				
MW 19				13:36				
MW 20				11:43				

Please see orig on 12 Dec Est 8/28/19 EDB 8/11

Container Preservative Type \*\* Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfite, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (R) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses										Lab Profile/Line:	
										Lab Sample Receipt Checklist:	
										Custody Seals Present/Intact	Y N NA
										Custody Signatures Present	Y N NA
										Collector Signature Present	Y N NA
										Bottles Intact	Y N NA
										Correct Bottles	Y N NA
										Sufficient Volume	Y N NA
										Samples Received on Ice	Y N NA
										VOA - Headspace Acceptable	Y N NA
										USDA Regulated Soils	Y N NA
										Samples in Holding Time	Y N NA
										Residual Chlorine Present	Y N NA
										Cl Strips:	
										Sample pH Acceptable	Y N NA
										pH Strips:	
										Sulfide Present	Y N NA
										Lead Acetate Strips:	

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2418389

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: \_\_\_\_\_

Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C

Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C

Cooler 1 Corrected Temp: \_\_\_\_\_ °C

Comments:

Relinquished by/Company: (Signature) George Hester

Date/Time: 9/27/19 3:40

Received by/Company: (Signature) J Penn

Date/Time: 9/27/19 3:40

MTJLL LAB USE ONLY

Relinquished by/Company: (Signature) R Penn

Date/Time: 9/27/19

Received by/Company: (Signature)

Date/Time:

Table #: Acctnum: Template: Prelogin:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

PM: PB:

Non Conformance(s): YES / NC Page: 2 of: 4



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

**WO#: 92447513**

LAB USE ONLY- Affix Workorder/MT.

PH: **AMB** Due Date: **10/04/19**  
 CLIENT: **92-SCDHEC**

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

ALL SHADED A

Company: **SC Dhee**

Billing Information:

Address: **2600 Bull St Columbia SC**

Report To: **R Dunn**

Email To: **Dunnra@Dhee.com**

Copy To:

Site Collection Info/Address: **301/321**

Customer Project Name/Number: **Interstate Truck**

State: **SC** County/City: **Allendale/Uffner** Time Zone Collected:

Phone: **803 332 0032**

Site/Facility ID #:

Compliance Monitoring?  Yes  No

Collected By (print): **Ben Powers**

Purchase Order #: **00332**

DW PWS ID #: **12704 FTH 82606**  
 DW Location Code:

Collected By (signature): *[Signature]*

Turnaround Date Required:

Immediately Packed on Ice:  Yes  No

Sample Disposal:  Dispose as appropriate  Return  Archive  Hold

Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply)

Field Filtered (if applicable):  Yes  No  
 Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW 21								
MW 22	GW	G	9/27/19	13:38			6	X 4
Dw-1				13:24				
Dw-2				12:33				
Dw-3				10:55				
Dw-4				11:46				
Dw-5				12:37				
Dw-6				12:37				
Dup-1				11:14				
Dup-2				13:44				

Mixture + Oxys 12/20/19 FTH 82606  
 EPP 8011

Container Preservative Type \*\*

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signatures Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on ice	Y	N	NA
VDA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:  
 Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: **Styrofoam**

Lab Tracking #: **2418388**

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA  
 Therm ID#: \_\_\_\_\_  
 Cooler 1 Temp Upon Receipt: \_\_\_\_\_oC  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_oC  
 Cooler 1 Corrected Temp: \_\_\_\_\_oC  
 Comments:

Relinquished by/Company: (Signature) *[Signature]*

Date/Time: **9/27/19 3:40**

Received by/Company: (Signature) *[Signature]*

Date/Time: **9/27/19 3:40**

MTJL LAB USE ONLY

Relinquished by/Company: (Signature) *[Signature]*

Date/Time: **9/27/19 19:50**

Received by/Company: (Signature) *[Signature]*

Date/Time:

Table #:

Acctnum:

Template:

Prelogin:

Trip Blank Received: Y N NA  
 HCL MeOH TSP Other

Relinquished by/Company: (Signature) *[Signature]*

Date/Time:

Received by/Company: (Signature)

Date/Time:

PM:

PB:

Non Conformance(s): YES / NO

Page: **3** of **4**

WO#: 92447513

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

*Pace Analytical*  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/LMTJ  
PH: AMB Due Date: 10/04/19  
CLIENT: 92-SCDHEC

Company: SC DHEC  
Address: 2600 Bull St Columbia SC  
Report To: R Dunn  
Copy To:  
Customer Project Name/Number: Interstate Truck  
Phone: Site/Facility ID #: 00332  
Collected By (print): Ben Powers  
Collected By (signature):  
Sample Disposal:  
\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Billing Information:  
Email To: *dunn@dhcc.sc.gov*  
Site Collection Info/Address: 301 132 Hwy  
State: County/City: Time Zone Collected: SC Allendale/Union | PT | MT | CT | ET  
Compliance Monitoring? [ ] Yes [ ] No  
DW PWS ID #: DW Location Code:  
Immediately Packed on Ice: [X] Yes [ ] No  
Field Filtered (if applicable): [ ] Yes [ ] No  
Analysis:  
BTEX and Oxygenated PCA ETH B200  
EDB - 8011

Container Preservative Type \*\*  
Lab Project Manager:  
\*\* Preservative Types (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) ISP, (U) Unpreserved, (O) Other

Analyses  
Lab Profile/Linc:  
Lab Sample Receipt Checklist:  
Custody Seals Present/Intact Y N NA  
Custody Signatures Present Y N NA  
Collector Signature Present Y N NA  
Bottles Intact Y N NA  
Correct Bottles Y N NA  
Sufficient Volume Y N NA  
Samples Received on Ice Y N NA  
VOA - Headspace Acceptable Y N NA  
USDA Regulated Soils Y N NA  
Samples in Holding Time Y N NA  
Residual Chlorine Present Y N NA  
Cl Strips:  
Sample pH Acceptable Y N NA  
pH Strips:  
Sulfide Present Y N NA  
Lead Acetate Strips:  
LAB USE ONLY:  
Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
TB-1	GW	G	9/27/19	8:00			2	X
TB-2	↓	↓	↓	8:00			2	X
FB	↓	↓	↓	14:16			6	X

Customer Remarks / Special Conditions / Possible Hazards:  
Type of Ice Used: Wet Blue Dry None  
SHURT HOLDS PRESENT (<72 hours): Y N N/A  
Packing Material Used: Bubble wrap  
Lab Tracking #: 2418384  
Radchem sample(s) screened (<500 cpm): Y N NA  
Samples received via: FEDEX UPS Client Courier Pace Courier  
MTEL LAB USE ONLY  
Table #:  
Acctnum:  
Template:  
Prelogin:  
PM:  
PB:

Lab Sample Temperature Info:  
Temp Blank Received: Y N NA  
Therm ID#: \_\_\_\_\_ °C  
Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C  
Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C  
Cooler 1 Corrected Temp: \_\_\_\_\_ °C  
Comments:  
Trip Blank Received: Y N NA  
HCL MeOH TSP Other  
Non Conformance(s): YES / NO  
Page: 4 of 4

Relinquished by/Company (Signature): *George Shultz* Date/Time: 9/27/19 3:40  
Received by/Company (Signature): *J. Dunn* Date/Time: 9/27/19 3:40  
Relinquished by/Company (Signature): *[Signature]* Date/Time: 9/27/19 3:40  
Received by/Company (Signature): *[Signature]* Date/Time: 9/27/19 3:40  
Relinquished by/Company (Signature): *[Signature]* Date/Time: 9/27/19 3:40  
Received by/Company (Signature): *[Signature]* Date/Time: 9/27/19 3:40



### Sample Receiving Non-Conformance Form (NCF)

Date: 9-30-19  
 Evaluated by: Shaker Pope  
 Client: SC DHEC (Interstate Truck)

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here  
 92447513

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other issues not listed above:

3. Sample Integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details: 1 in MW6, 1 in MW9, 2 in MW14, 1 in MW15, 1 in MW17, 3 in MW19, 1 in MW20, 1 in MW22, 1 DW1, 2 in EB,

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

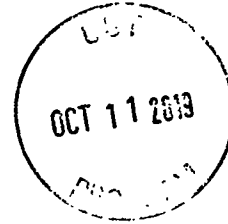
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client: Contacted per:  
 PM Initials: Date/Time:

Client Comments/Instructions:

October 08, 2019



Robert Dunn  
SCDHEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

*Angela M. Baioni*

Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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

## CERTIFICATIONS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

---

### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

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

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92447506001	WSW-2	Water	09/27/19 00:00	09/27/19 15:40
92447506002	Dup	Water	09/27/19 00:00	09/27/19 15:40
92447506003	FB	Water	09/27/19 00:00	09/27/19 15:40
92447506004	TB	Water	09/27/19 00:00	09/27/19 15:40

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: Interstate Truck 00332/60315  
 Pace Project No.: 92447506

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92447506001	WSW-2	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C
92447506002	Dup	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C
92447506003	FB	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C
92447506004	TB	EPA 524.2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

Sample: WSW-2      Lab ID: 92447506001      Collected: 09/27/19 00:00      Received: 09/27/19 15:40      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/04/19 09:38	10/04/19 18:25	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	75	%	70-130		1	10/04/19 09:36	10/04/19 18:25	301-79-56	
<b>524.2 MSV SC List</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		10/02/19 04:32	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		10/02/19 04:32	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/02/19 04:32	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		10/02/19 04:32	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		10/02/19 04:32	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/02/19 04:32	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		10/02/19 04:32	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/02/19 04:32	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	90	%	70-130		1		10/02/19 04:32	2199-69-1	
4-Bromofluorobenzene (S)	85	%	70-130		1		10/02/19 04:32	460-00-4	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		10/05/19 16:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/05/19 16:23	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		10/05/19 16:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		10/05/19 16:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		10/05/19 16:23	762-75-4	P5
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/05/19 16:23	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/05/19 16:23	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		10/05/19 16:23	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		10/05/19 16:23	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/05/19 16:23	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/05/19 16:23	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

Sample: Dup Lab ID: 92447506002 Collected: 09/27/19 00:00 Received: 09/27/19 15.40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/08/19 09:09	10/08/19 15:14	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	91	%	70-130		1	10/08/19 09:09	10/08/19 15:14	301-79-56	
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		10/02/19 04:57	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		10/02/19 04:57	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/02/19 04:57	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		10/02/19 04:57	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		10/02/19 04:57	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/02/19 04:57	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		10/02/19 04:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/02/19 04:57	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		10/02/19 04:57	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		10/02/19 04:57	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		10/05/19 16:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/05/19 16:41	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		10/05/19 16:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		10/05/19 16:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		10/05/19 16:41	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/05/19 16:41	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/05/19 16:41	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		10/05/19 16:41	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		10/05/19 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/05/19 16:41	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/05/19 16:41	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315

Pace Project No.: 92447506

Sample: FB Lab ID: 92447506003 Collected: 09/27/19 00:00 Received 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/08/19 09:09	10/08/19 15:32	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	70-130		1	10/08/19 09:09	10/08/19 15:32	301-79-56	
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		10/02/19 05:23	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		10/02/19 05:23	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/02/19 05:23	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		10/02/19 05:23	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		10/02/19 05:23	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/02/19 05:23	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		10/02/19 05:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/02/19 05:23	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	90	%	70-130		1		10/02/19 05:23	2199-69-1	
4-Bromofluorobenzene (S)	84	%	70-130		1		10/02/19 05:23	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		10/05/19 14:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/05/19 14:56	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		10/05/19 14:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		10/05/19 14:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		10/05/19 14:56	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/05/19 14:56	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/05/19 14:56	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		10/05/19 14:56	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/05/19 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		10/05/19 14:56	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/05/19 14:56	2037-26-5	

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### ANALYTICAL RESULTS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

Sample: TB Lab ID: 92447506004 Collected: 09/27/19 00:00 Received: 09/27/19 15:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV SC List</b>		Analytical Method: EPA 524.2							
Benzene	ND	ug/L	0.50	0.25	1		10/02/19 05:49	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		10/02/19 05:49	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/02/19 05:49	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		10/02/19 05:49	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		10/02/19 05:49	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/02/19 05:49	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		10/02/19 05:49	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/02/19 05:49	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	87	%	70-130		1		10/02/19 05:49	2199-69-1	
4-Bromofluorobenzene (S)	83	%	70-130		1		10/02/19 05:49	460-00-4	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		10/05/19 15:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/05/19 15:13	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		10/05/19 15:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		10/05/19 15:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		10/05/19 15:13	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/05/19 15:13	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/05/19 15:13	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		10/05/19 15:13	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/05/19 15:13	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/05/19 15:13	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/05/19 15:13	2037-26-5	

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

QC Batch: 500929 Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2 Analysis Description: 524 2 MSV  
Associated Lab Samples: 92447506001, 92447506002, 92447506003, 92447506004

METHOD BLANK: 2694532 Matrix: Water  
Associated Lab Samples: 92447506001, 92447506002, 92447506003, 92447506004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	10/01/19 23:48	
Benzene	ug/L	ND	0.50	0.25	10/01/19 23:48	
Ethylbenzene	ug/L	ND	0.50	0.26	10/01/19 23:48	
m&p-Xylene	ug/L	ND	0.50	0.46	10/01/19 23:48	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	10/01/19 23:48	
Naphthalene	ug/L	ND	0.50	0.31	10/01/19 23:48	
o-Xylene	ug/L	ND	0.50	0.25	10/01/19 23:48	
Toluene	ug/L	ND	0.50	0.24	10/01/19 23:48	
1,2-Dichlorobenzene-d4 (S)	%	98	70-130		10/01/19 23:48	
4-Bromofluorobenzene (S)	%	92	70-130		10/01/19 23:48	

LABORATORY CONTROL SAMPLE: 2694533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	16.4	82	70-130	
Benzene	ug/L	20	16.7	84	70-130	
Ethylbenzene	ug/L	20	16.5	83	70-130	
m&p-Xylene	ug/L	40	33.3	83	70-130	
Methyl-tert-butyl ether	ug/L	20	16.4	82	70-130	
Naphthalene	ug/L	20	16.7	83	70-130	
o-Xylene	ug/L	20	16.7	83	70-130	
Toluene	ug/L	20	16.6	83	70-130	
1,2-Dichlorobenzene-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			89	70-130	

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

QC Batch: 501929 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92447506003, 92447506004

METHOD BLANK: 2699057 Matrix: Water  
Associated Lab Samples: 92447506003, 92447506004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	10/05/19 12:37	
Diisopropyl ether	ug/L	ND	1.0	0.22	10/05/19 12:37	
Ethanol	ug/L	ND	200	98.8	10/05/19 12:37	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	10/05/19 12:37	
tert-Amyl Alcohol	ug/L	ND	100	53.9	10/05/19 12:37	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	10/05/19 12:37	
tert-Butyl Alcohol	ug/L	ND	100	27.3	10/05/19 12:37	
tert-Butyl Formate	ug/L	ND	50.0	24.7	10/05/19 12:37	
1,2-Dichloroethane-d4 (S)	%	109	70-130		10/05/19 12:37	
4-Bromofluorobenzene (S)	%	101	70-130		10/05/19 12:37	
Toluene-d8 (S)	%	99	70-130		10/05/19 12:37	

LABORATORY CONTROL SAMPLE: 2699058

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	934	93	70-130	
Diisopropyl ether	ug/L	50	51.8	104	70-130	
Ethanol	ug/L	2000	1900	95	70-130	
Ethyl-tert-butyl ether	ug/L	100	96.8	97	70-130	
tert-Amyl Alcohol	ug/L	1000	922	92	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	466	93	70-130	
tert-Butyl Formate	ug/L	400	415	104	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2699160

Parameter	Units	92447441002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	296	74	70-130	
Diisopropyl ether	ug/L	ND	20	21.2	106	70-130	
Ethanol	ug/L	ND	800	742	93	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	39.0	98	70-130	
tert-Amyl Alcohol	ug/L	ND	400	321	80	70-130	
tert-Amylmethyl ether	ug/L	ND	40	40.0	100	70-130	
tert-Butyl Alcohol	ug/L	ND	200	259	130	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 P5	

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

MATRIX SPIKE SAMPLE: 2699160		92447441002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2699059		92447887007	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	112	111			
4-Bromofluorobenzene (S)	%	102	100			
Toluene-d8 (S)	%	100	100			

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

QC Batch: 501946 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92447506001, 92447506002

METHOD BLANK: 2699124 Matrix: Water  
Associated Lab Samples 92447506001, 92447506002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	10/05/19 13:56	
Diisopropyl ether	ug/L	ND	1.0	0.22	10/05/19 13:56	
Ethanol	ug/L	ND	200	98.8	10/05/19 13:56	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	10/05/19 13:56	
tert-Amyl Alcohol	ug/L	ND	100	53.9	10/05/19 13:56	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	10/05/19 13:56	
tert-Butyl Alcohol	ug/L	ND	100	27.3	10/05/19 13:56	
tert-Butyl Formate	ug/L	ND	50.0	24.7	10/05/19 13:56	
1,2-Dichloroethane-d4 (S)	%	97	70-130		10/05/19 13:56	
4-Bromofluorobenzene (S)	%	105	70-130		10/05/19 13:56	
Toluene-d8 (S)	%	100	70-130		10/05/19 13:56	

LABORATORY CONTROL SAMPLE: 2699125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1110	111	70-130	
Diisopropyl ether	ug/L	50	49.2	98	70-130	
Ethanol	ug/L	2000	2150	108	70-130	
Ethyl-tert-butyl ether	ug/L	100	94.5	94	70-130	
tert-Amyl Alcohol	ug/L	1000	1070	107	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	450	90	70-130	
tert-Butyl Formate	ug/L	400	459	115	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2699127

Parameter	Units	92447506001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	430	107	70-130	
Diisopropyl ether	ug/L	ND	20	19.7	98	70-130	
Ethanol	ug/L	ND	800	881	110	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	37.5	94	70-130	
tert-Amyl Alcohol	ug/L	ND	400	404	101	70-130	
tert-Amylmethyl ether	ug/L	ND	40	41.0	102	70-130	
tert-Butyl Alcohol	ug/L	ND	200	226	113	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Interstate Truck 00332/60315

Pace Project No.: 92447506

MATRIX SPIKE SAMPLE: 2699127		92447506001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				106	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 2699126

Parameter	Units	92447479001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	100	100			
4-Bromofluorobenzene (S)	%	105	103			
Toluene-d8 (S)	%	99	100			

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

QC Batch: 501699 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Associated Lab Samples: 92447506001

METHOD BLANK: 2697928 Matrix: Water  
Associated Lab Samples: 92447506001, 92447506002, 92447506003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	10/04/19 16:31	
1-Chloro-2-bromopropane (S)	%	82	70-130		10/04/19 16:31	

LABORATORY CONTROL SAMPLE & LCSD: 2697929 2697930

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.22	0.21	87	85	70-130	2	20	
1-Chloro-2-bromopropane (S)	%				84	83	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2697932 2697933

Parameter	Units	92447503002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND			0.21	0.21					1	20
1-Chloro-2-bromopropane (S)	%						82	81	70-130			

SAMPLE DUPLICATE: 2697931

Parameter	Units	92447503001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND			
1-Chloro-2-bromopropane (S)	%		83			

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

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

QC Batch: 502244 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Associated Lab Samples: 92447506002, 92447506003

METHOD BLANK: 2700271 Matrix: Water  
Associated Lab Samples: 92447506002, 92447506003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	10/08/19 13:41	
1-Chloro-2-bromopropane (S)	%	99	70-130		10/08/19 13:41	

LABORATORY CONTROL SAMPLE & LCSD: 2700272 2700273

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.24	0.24	97	95	70-130	2	20	
1-Chloro-2-bromopropane (S)	%				105	104	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2700275 2700276

Parameter	Units	92447912002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.27	0.25	107	102	65-135	7	20	
1-Chloro-2-bromopropane (S)	%						109	106	70-130			

SAMPLE DUPLICATE: 2700274

Parameter	Units	92447894003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	102	114			

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

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### DEFINITIONS

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

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Interstate Truck 00332/60315  
Pace Project No.: 92447506

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92447506001	WSW-2	EPA 504.1	501699	EPA 504.1	501798
92447506002	Dup	EPA 504.1	502244	EPA 504.1	502315
92447506003	FB	EPA 504.1	502244	EPA 504.1	502315
92447506001	WSW-2	EPA 524.2	500929		
92447506002	Dup	EPA 524.2	500929		
92447506003	FB	EPA 524.2	500929		
92447506004	TB	EPA 524.2	500929		
92447506001	WSW-2	EPA 8260B	501946		
92447506002	Dup	EPA 8260B	501946		
92447506003	FB	EPA 8260B	501929		
92447506004	TB	EPA 8260B	501929		

**REPORT OF LABORATORY ANALYSIS**

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

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Work

WO#: 92447506



ALL SHAD 92447506

Company: *SCDHEC*

Billing Information:

Address: *2600 Bull St Columbia*

Container Preservative Type: *3 3 8*

Report To: *R Dunn*

Email To: *DunnR@DHEC.SC.GOV*

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Copy To:

Site Collection Info/Address: *301/321 Hwy 5C Altitude/Under*

Customer Project Name/Number: *Interstate Truck*

State: *SC* County/City: *Albany* Time Zone Collected: *PT | MT | CT | ET*

Analyses

Lab Profile/Line:

Phone: *803 799 1234*

Site/Facility ID #: *00332*

Compliance Monitoring?  Yes  No

Lab Sample Receipt Checklist:

Custody Seals Present/Intact  Y  N  NA  
 Custody Signatures Present  Y  N  NA  
 Collector Signature Present  Y  N  NA  
 Bottles Intact  Y  N  NA  
 Correct Bottles  Y  N  NA  
 Sufficient Volume  Y  N  NA  
 Samples Received on Ice  Y  N  NA  
 VOA - Headspace Acceptable  Y  N  NA  
 USDA Regulated Soils  Y  N  NA  
 Samples in Holding Time  Y  N  NA  
 Residual Chlorine Present  Y  N  NA  
 Cl Strips:  Y  N  NA  
 Sample pH Acceptable  Y  N  NA  
 pH Strips:  Y  N  NA  
 Sulfide Present  Y  N  NA  
 Lead Acetate Strips:  Y  N  NA

Collected By (print): *George Gatch*

Purchase Order #: *12345*

DW PWS ID #: *12345*  
 DW Location Code: *12345*

Collected By (signature): *George Gatch*

Turnaround Date Required: *12/31/19*

Immediately Packed on Ice:  Yes  No

Sample Disposal:  Dispose as appropriate  Return  Archive  Hold

Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply)

Field Filtered (if applicable):  Yes  No  
 Analysis: *12345*

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
<i>WSW1</i>	<i>DW</i>	<i>G</i>	<i>9/27/19</i>				<i>9</i>	
<i>WSW2</i>	<i>DW</i>	<i>G</i>	<i>9/27/19</i>				<i>9</i>	
<i>DUP</i>	<i>DW</i>	<i>G</i>	<i>9/27/19</i>				<i>9</i>	
<i>FB</i>	<i>DW</i>	<i>G</i>	<i>9/27/19</i>				<i>6</i>	
<i>TB</i>	<i>DW</i>	<i>G</i>	<i>9/27/19</i>				<i>6</i>	

*BTEXNM, 12DCA, 524.2  
 Oxy 9260B  
 EDB 504.1*

*92447506  
 DMS  
 LDL 001  
 LDL 002  
 LDL 003  
 LDL 004*

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None

SHORT HOLDS PRESENT (<72 hours):  Y  N  N/A

Lab Sample Temperature Info:

Packing Material Used: *White Boxes*

Lab Tracking #: *2351182*

Temp Blank Received:  Y  N  NA  
 Therm ID#: *12345*  
 Cooler 1 Temp Upon Receipt: *12.4* oC  
 Cooler 1 Therm Corr. Factor: *0.0* oC  
 Cooler 1 Corrected Temp: *12.4* oC  
 Comments:

Radchem sample(s) screened (<500 cpm):  Y  N  NA

Samples received via:  FEDEX  UPS  Client  Courier  Pace Courier

Relinquished by/Company: (Signature) *George Gatch*

Date/Time: *9/27/19 3:40*

Received by/Company: (Signature) *[Signature]*

Date/Time: *9/27/19 3:40*

Table #: *MTJL LAB USE ONLY*

Temp Blank Received:  Y  N  NA

Relinquished by/Company: (Signature) *[Signature]*

Date/Time: *9/27/19 3:40*

Received by/Company: (Signature) *[Signature]*

Date/Time: *9/27/19 3:40*

Acctnum: *12345*

Non Conformance(s):  YES  NO

Relinquished by/Company: (Signature) *[Signature]*

Date/Time: *9/27/19 3:40*

Received by/Company: (Signature) *[Signature]*

Date/Time: *9/27/19 3:40*

Template: *12345*

Page: *1* of: *1*



### Sample Receiving Non-Conformance Form (NCF)

Date: <u>9-30-09</u>	Evaluated by: <u>Roper</u>
Client: <u>SCDHEC (Interstate Truck)</u>	

**Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here**

92447506

**1. If Chain-of-Custody (COC) is not received:** contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

**2. If COC is incomplete, check applicable issues below and add details where appropriate:**

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other issues not listed above:

**3. Sample integrity issues: check applicable issues below and add details where appropriate:**

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details: 4 in WSH FB

**4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:**

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

**5. Client Contact: If client is contacted for any issue listed above, fill in details below:**

Client:	Contacted per:
PM Initials:	Date/Time:
Client Comments/Instructions:	



JAN 19 2021



RONNIE LOWDER  
EMERALD INC  
PO BOX 3050  
SUMTER SC 29151-3050

Re: **Aggressive Fluid Vapor Recovery (AFVR) Directive**  
Contract #IFB-5400016539-11/29/18: PO #4600749360  
Notice to Proceed

Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, Aggressive Fluid Vapor Recovery (AFVR) has been approved for the UST facilities listed below. Emerald, Inc. may proceed upon receipt of this letter. The complete packets containing necessary information for each facility are enclosed. Each facility has been assigned an individual cost agreement (CA) number and work scope.

Permit	Facility	County	Work Scope	CA #
00332	Interstate Truck Terminal	Allendale	One 96-hour AFVR	61641

The due date for each of the reports in this block of sites is 90-days from the date of this correspondence. If extenuating circumstances become apparent that will result in a need for an extension, the site-specific circumstances must be communicated in written form with a request for an extension.

AFVR at each facility will be performed in accordance with the referenced contract on behalf of the UST Owner/Operator (O/O). Payment will be made from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval is obtained from the SCDHEC UST Division.

Any changes to the work scope must be pre-approved by the UST Management Division in order for Emerald to seek payment. Please contact the UST Project Manager for technical and financial approval of any proposed changes to the work scope.

DHEC grants preapproval for transportation of free-phase product (FPP) and virgin petroleum-contaminated groundwater from the referenced site(s) to a permitted treatment facility(ies). There can be no spillage or leakage in transport. A copy of the disposal manifest(s) from the receiving facility that clearly designates the quantity received must be included as part of the final report.

If you have any questions, please contact me at (803) 898-0608 or by e-mail at [minerrs@dhec.sc.gov](mailto:minerrs@dhec.sc.gov).

Sincerely,



Read S. Miner, P.G., Hydrogeologist  
Corrective Action and Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Approved Cost Agreements  
Site Information Packets (1)

cc: Technical Files (with enclosures)





UNDERGROUND STORAGE TANK MANAGEMENT DIVISION  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

**MEMORANDUM**

TO: Emerald

FROM: Arthur Brown

RE: NOTICE TO PROCEED

Facility Name: Interstate Truck Terminal Inc.

Permit Number: 00332

County: Allendale

Work to be completed: 1 96 Hour AFVR

Target wells: MW-21

Target depth for Stingers (feet below top of casing) : 34'

Site rank: 2BB

Effluent quantity during last event N/A gallons

CA #: 61641

**Approved Cost Agreement      61641**

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

BROWNAJ

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
23 EFR		A4 96 HOUR EVENT	1.0000	\$5,000.000	5,000.00
		C4 OFF GAS TREATMENT 96 HOUR	1.0000	\$200.000	200.00
		F1 EFFLUENT DISPOSAL	1,000.0000	\$0.130	130.00
		G AFVR EQUIPMENT MOB	1.0000	\$550.000	550.00
		<b>Total Amount</b>			<b>5,880.00</b>

# Emerald, Inc.

CONSULTING AND ENGINEERING  
SERVICES IN ENVIRONMENTAL AFFAIRS

2520 TAHOE DRIVE • POST OFFICE BOX 3050 • SUMTER, SOUTH CAROLINA 29151

WEBSITE:  
www.emeraldinc-us.com

TELEPHONE (803) 469-5454  
FAX (803) 469-5465

February 26, 2021

Arthur Brown, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Management Division  
Bureau of Underground Storage Tank Management  
South Carolina Department of Health and  
Environmental Control  
2600 Bull Street  
Columbia, SC 29201



RECEIVED  
MAR 08 2021  
UST DIVISION

Aggressive Fluid Vapor Recovery Report  
Interstate Truck Terminal Inc.  
Ulmer, South Carolina  
Allendale County  
UST Permit #00332; CA #61641  
Emerald Job 21-001

Mr. Brown,

Please find the attached Aggressive Fluid Vapor Recovery (AFVR) Report for the Interstate Truck Terminal Inc. site. A site reconnaissance was conducted on February 3, 2021 to locate monitoring wells, gauge extraction wells, and assess site conditions. Prior to conducting this AFVR event information gathered during the site reconnaissance was presented to the SCDHEC project manager for review.

## **AGGRESSIVE FLUID VAPOR RECOVERY EVENT**

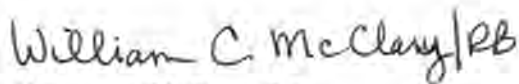
On February 8 through 12, 2021, Emerald, Inc. personnel performed a 96-hour AFVR event utilizing MW-21 as the extraction location. This 96-hour AFVR event was conducted to aid in reducing dissolved chemicals of concern previously detected at the subject site. Free phase petroleum product was detected prior to the event at 0.55 feet. Free phase product was not detected in any well gauged at the conclusion of the event. Monitoring well locations are presented on the attached site map provided by SCDHEC.

Table 1 presents the off-gas concentrations (using a Photoionization Detector), post treatment off-gas concentrations, off-gas velocity, and knockout tank vacuum. Table 2 presents the stinger depths, wellhead vacuum measurements, water levels measurements and magnehelic readings obtained during the event. Emerald, Inc. field personnel normally record data at thirty-minute intervals for the first eight hours of the event, then at one hour intervals from hours nine through twenty-four and at two hour intervals from hour twenty-four until the conclusion of the event. During the hours of midnight to 8 AM event monitoring was suspended. Due the site being vacant, off-gas treatment was not utilized during this event.

According to the calculations as presented on Table 1, a total of 880.95 pounds of hydrocarbons (as vapor) and 140.86 equivalent gallons of hydrocarbons were removed during this event. Free phase product was not detected in the knockout tank during this event. According to the meter, a total of 6,064 gallons of petroleum contaminated groundwater was transported to the City of Manning Wastewater Treatment Facility in Manning, SC for proper disposal. A copy of the disposal manifests for this event is included as an attachment.

If you have any questions or concerns please feel free to contact Emerald, Inc. at 803-469-5454.

Sincerely,  
Emerald, Inc.



William C. McClary, P.G.  
Project Manager



Ronny L. Lowder  
President

Attachments

**TABLE 1**  
**AFVR MONITORING DATA**  
**INTERSTATE TRUCK TERMINAL INC.**  
**ULMER SOUTH CAROLINA**  
**SCDHEC SITE ID #00332**  
**EMERALD JOB #21-001**

Extraction Wells	Date	Time (hh:mm)	Differential Time (hr)	Knockout Tank Vacuum (in. Hg)	Off-Gas Concentration (PPM)	Post-Treatment Concentration (PPM)	Offgas Velocity (ft/min)	Flow Rate (CFM)	CG:M (mg/dsm <sup>3</sup> )	Cg (Lb/Dscf)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-21	2/8/21	9:00	Start	15	169.3	N/A	2,613	128.26	900	5.62E-05	0.43	-
		9:30	0.5	18	184.2	N/A	2,594	127.33	980	6.12E-05	0.47	0.22
		10:00	0.5	15	> 5,000	N/A	2,537	124.53	26,589	1.66E-03	12.40	3.22
		10:30	0.5	15	> 5,000	N/A	2,648	129.98	26,589	1.66E-03	12.95	6.34
		11:00 ↓	0.5	16	3,118	N/A	2,573	126.30	16,581	1.04E-03	7.84	5.20
		11:30	0.5	16	2,865	N/A	2,468	121.14	15,235	9.51E-04	6.91	3.69
		12:00	0.5	20	3,724	N/A	2,556	125.46	19,803	1.24E-03	9.31	4.05
		12:30	0.5	20	3,540	N/A	2,429	119.23	18,825	1.18E-03	8.41	4.43
		13:00 ↓	0.5	21	> 5,000	N/A	2,531	124.23	26,589	1.66E-03	12.37	5.20
		13:30	0.5	21	> 5,000	N/A	2,387	117.17	26,589	1.66E-03	11.67	6.01
		14:00	0.5	21	> 5,000	N/A	2,474	121.44	26,589	1.66E-03	12.09	5.94
		14:30	0.5	21	> 5,000	N/A	2,285	112.16	26,589	1.66E-03	11.17	5.82
		15:00 ↓	0.5	21	> 5,000	N/A	2,410	118.29	26,589	1.66E-03	11.78	5.74
		15:30	0.5	21	> 5,000	N/A	2,359	115.79	26,589	1.66E-03	11.53	5.83
		16:00	0.5	21	> 5,000	N/A	2,364	116.04	26,589	1.66E-03	11.56	5.77
		16:30	0.5	21	> 5,000	N/A	2,512	123.30	26,589	1.66E-03	12.28	5.96
		17:00 ↓	0.5	22	> 5,000	N/A	2,547	125.02	26,589	1.66E-03	12.45	6.18
		18:00	1.0	22	> 5,000	N/A	2,585	126.88	26,589	1.66E-03	12.64	12.54
		19:00	1.0	22	> 5,000	N/A	2,484	121.93	26,589	1.66E-03	12.14	12.39
		20:00	1.0	22	> 5,000	N/A	2,375	116.58	26,589	1.66E-03	11.61	11.88
		21:00	1.0	22	> 5,000	N/A	2,411	118.34	26,589	1.66E-03	11.79	11.70
		22:00	1.0	22	> 5,000	N/A	2,452	120.36	26,589	1.66E-03	11.99	11.89
		23:00	1.0	22	> 5,000	N/A	2,328	114.27	26,589	1.66E-03	11.38	11.68
	2/9/21	0:00	1.0	22	> 5,000	N/A	2,463	120.90	26,589	1.66E-03	12.04	11.71
		8:00	8.0	22	> 5,000	N/A	2,256	110.74	26,589	1.66E-03	11.03	92.28
		10:00	2.0	22	> 5,000	N/A	2,339	114.81	26,589	1.66E-03	11.43	22.46
		12:00	2.0	22	> 5,000	N/A	2,247	110.29	26,589	1.66E-03	10.98	22.42
		14:00	2.0	22	> 5,000	N/A	2,325	114.12	26,589	1.66E-03	11.37	22.35
		16:00	2.0	22	> 5,000	N/A	2,317	113.73	26,589	1.66E-03	11.33	22.69
		18:00	2.0	22	> 5,000	N/A	2,262	111.03	26,589	1.66E-03	11.06	22.39
		20:00	2.0	22	> 5,000	N/A	2,335	114.61	26,589	1.66E-03	11.41	22.47
		22:00	2.0	22	> 5,000	N/A	2,284	112.11	26,589	1.66E-03	11.17	22.58

**TABLE 1 Cont'd.  
AFVR MONITORING DATA  
INTERSTATE TRUCK TERMINAL INC.  
ULMER SOUTH CAROLINA  
SCDHEC SITE ID #00332  
EMERALD JOB #21-001**

Extraction Wells	Date	Time (hh:mm)	Differential Time (hr)	Knockout Tank Vacuum (in. Hg)	Off-Gas Concentration (PPM)	Post-Treatment Concentration (PPM)	Offgas Velocity (ft/min)	Flow Rate (CFM)	CG:M (mg/dsm <sup>3</sup> )	Cg (Lb/Dscf)	Removal Rate (Lbs/Hr)	Interval Removal (Lbs)
MW-21	2/10/21	0:00	2.0	22	> 5,000	N/A	2,194	107.69	26,589	1.66E-03	10.73	21.89
		8:00	8.0	22	4,029	N/A	2,705	132.77	21,425	1.34E-03	10.66	85.53
		10:00	2.0	22	3,848	N/A	2,683	131.70	20,463	1.28E-03	10.09	20.75
		12:00	2.0	22	3,426	N/A	2,734	134.20	18,218	1.14E-03	9.16	19.25
		14:00	2.0	22	3,297	N/A	2,549	125.12	17,532	1.09E-03	8.22	17.37
		16:00	2.0	22	2,858	N/A	2,631	129.14	15,198	9.49E-04	7.35	15.57
		18:00	2.0	22	2,986	N/A	2,510	123.20	15,879	9.91E-04	7.33	14.68
		20:00	2.0	22	3,831	N/A	2,451	120.31	20,372	1.27E-03	9.18	16.51
	22:00	2.0	22	3,642	N/A	2,325	114.12	19,367	1.21E-03	8.28	17.46	
	2/11/21	0:00	2.0	22	3,875	N/A	2,436	119.57	20,606	1.29E-03	9.23	17.51
		8:00	8.0	23	3,119	N/A	2,663	130.71	16,586	1.04E-03	8.12	69.40
		10:00	2.0	23	2,588	N/A	2,671	131.11	13,762	8.59E-04	6.76	14.88
		12:00	2.0	23	2,728	N/A	2,715	133.27	14,507	9.06E-04	7.24	14.00
		14:00	2.0	23	2,395	N/A	2,640	129.58	12,736	7.95E-04	6.18	13.42
16:00		2.0	23	2,534	N/A	2,552	125.26	13,475	8.41E-04	6.32	12.50	
18:00		2.0	23	2,269	N/A	2,743	134.64	12,066	7.53E-04	6.09	12.41	
20:00		2.0	23	2,481	N/A	2,562	125.76	13,193	8.24E-04	6.21	12.30	
2/12/21	22:00	2.0	23	2,375	N/A	2,481	121.78	12,630	7.88E-04	5.76	11.98	
	0:00	2.0	23	2,282	N/A	2,435	119.52	12,135	7.58E-04	5.43	11.19	
	8:00	8.0	23	2,453	N/A	2,321	113.93	13,044	8.14E-04	5.57	44.00	
		9:00	1.0	23	2,282	N/A	2,276	111.72	12,135	7.58E-04	5.08	5.32

Well Gauging Data			Before AFVR Event			After AFVR Event			Equations
Well No.	Diameter (in)	Screened Interval (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-21	2	25-35	29.20	29.75	0.55	---	29.22	---	Cg,m = PPMg*(Mg/K3) Removal Rate = Cg * Flow Rate * 60Min/Hr Interval Removal = (T <sub>1</sub> + T <sub>2</sub> )/2 PPM = Part per Million (by PID) Cg,m = mg/dsm <sup>3</sup> (mass concentration of gasoline emission) Mg = 128 mg/mg-mole, molecular weight of gasoline K3 = 24.07 dsm <sup>3</sup> /1E6 mg-mole, mass to volume conversion Cg = lb/dscf, mass concentration of gasoline by emission Removal Rate = lb/hr,pollutant mass removal rate of emission
Product Thickness			Recovery / Disposal Information						
Product observed in Sight Tube?			No	Hydrocarbons Removed (vapor):		880.95	Pounds		
Product detected in Tanker?			No	Hydrocarbons Removed (liquid):		0.00	Gallons		
Weather Conditions			Emerald, Inc. Personnel	Total Hydrocarbons Removed:		140.86	Equivalent Gallons		
2/8/21	Partly Cloudy, 48-62°F			Molecular Weight Utilized:		128	mg/mg-mole		
2/9/21	Partly Cloudy, 53-67°F			Disposal Facility:		City of Manning Wastewater Treatment Facility			
2/10/21	Cloudy, 56-66°F			Total Liquids Removed:		6,064	Gallons		
2/11/21	Cloudy, 54-65°F								
2/12/21	Rain, 40-52°F								
Notes									
↑ = Stinger raised     ↓ = Stinger lowered									



**TABLE 2  
EVENT MONITORING DATA  
INTERSTATE TRUCK TERMINAL INC.  
ULMER SOUTH CAROLINA  
SCDHEC SITE ID #00332  
EMERALD JOB #21-001**

Date	Time (hh:mm)	Extraction Wells						Event Monitoring			
		MW-21						MW-2		MW-6	
		Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Magnehelic Reading (inches of water)	Depth to Water (ft.)	Magnehelic Reading (inches of water)	Depth to Water (ft.)
2/8/21	9:00	30	10					Pre	27.24	Pre	27.13
	9:30	30	15					---	---	---	---
	10:00	30	10					---	---	---	---
	10:30	30	10					---	---	---	---
	11:00	31	10					---	---	---	---
	11:30	31	10					---	---	---	---
	12:00	31	15					---	---	---	---
	12:30	31	15					---	---	---	---
	13:00	32	15					---	---	---	---
	13:30	32	15					---	---	---	---
	14:00	32	15					---	---	---	---
	14:30	32	15					---	---	---	---
	15:00	33	16					---	---	---	---
	15:30	33	16					---	---	---	---
	16:00	33	16					<0.1	27.31	<0.1	27.15
	16:30	33	16					---	---	---	---
	17:00	34	16					---	---	---	---
	18:00	34	16					---	---	---	---
	19:00	34	16					---	---	---	---
	20:00	34	16					---	---	---	---
	21:00	34	16					---	---	---	---
	22:00	34	16					---	---	---	---
	23:00	34	16					---	---	---	---
2/9/21	0:00	34	16					<0.1	27.37	<0.1	27.21
	8:00	34	16					<0.1	27.35	<0.1	27.20
	10:00	34	16					---	---	---	---
	12:00	34	16					---	---	---	---
	14:00	34	16					---	---	---	---
	16:00	34	16					<0.1	27.32	<0.1	27.18
	18:00	34	16					---	---	---	---
	20:00	34	16					---	---	---	---
	22:00	34	16					---	---	---	---

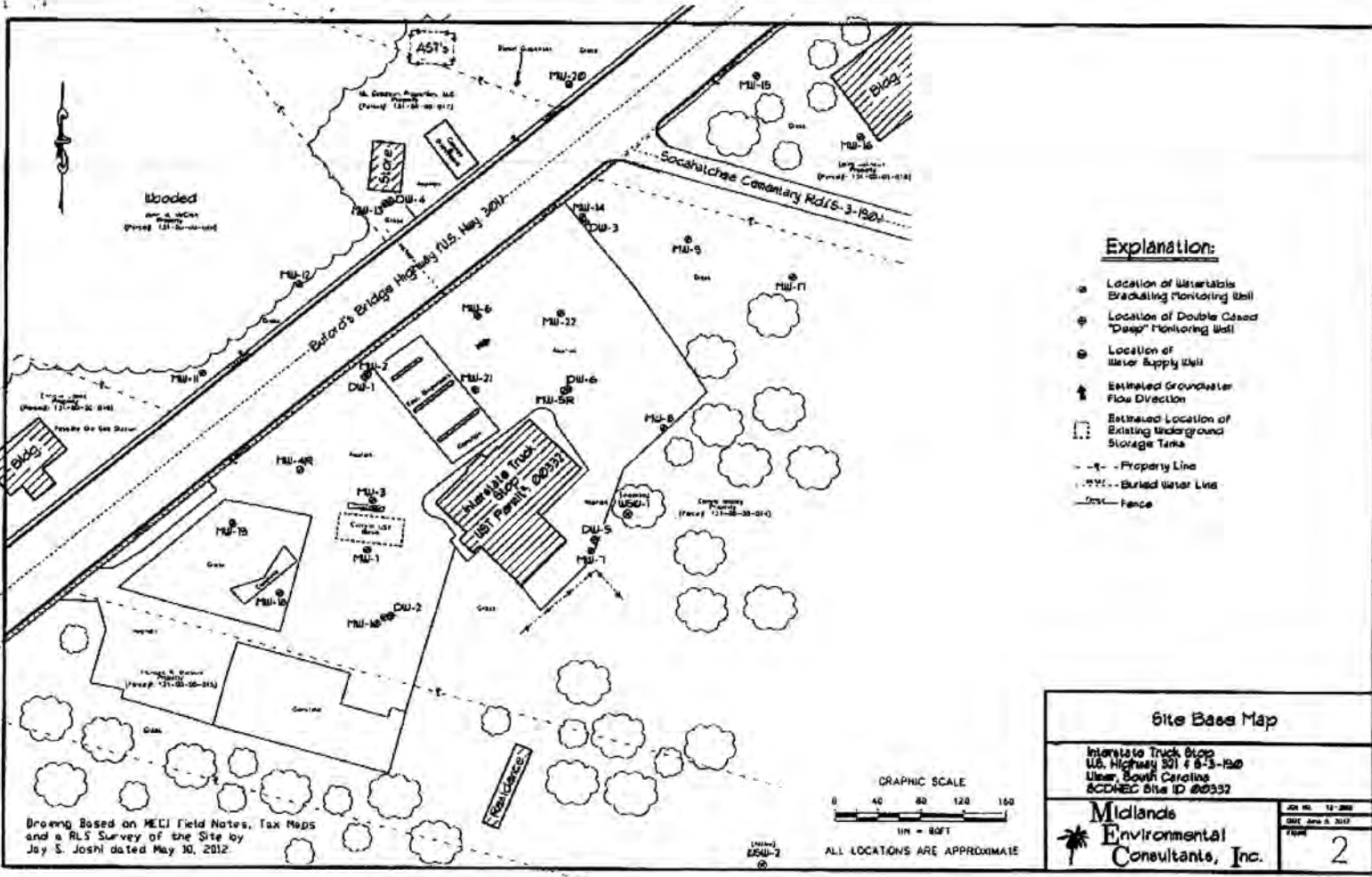
Notes:

**TABLE 2 Cont'd.  
EVENT MONITORING DATA  
INTERSTATE TRUCK TERMINAL INC.  
ULMER SOUTH CAROLINA  
SCDHEC SITE ID #00332  
EMERALD JOB #21-001**

Date	Time (hh:mm)	Extraction Wells						Event Monitoring			
		MW-21						MW-2		MW-6	
		Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Stinger Depth (ft.)	Wellhead Vacuum (in. Hg)	Magnehelic Reading (inches of water)	Depth to Water (ft.)	Magnehelic Reading (inches of water)	Depth to Water (ft.)
2/10/21	0:00	34	16					<1.0	27.33	<0.1	27.17
	8:00	34	16					<1.0	27.41	<0.1	27.20
	10:00	34	16					---	---	---	---
	12:00	34	16					---	---	---	---
	14:00	34	16					---	---	---	---
	16:00	34	16					---	---	---	---
	18:00	34	16					---	---	---	---
	20:00	34	16					---	---	---	---
	22:00	34	16					---	---	---	---
2/11/21	0:00	34	16					<1.0	27.43	<1.0	27.19
	8:00	34	16					<1.0	27.39	<0.1	27.15
	10:00	34	16					---	---	---	---
	12:00	34	16					---	---	---	---
	14:00	34	16					---	---	---	---
	16:00	34	16					<1.0	27.38	<0.1	27.16
	18:00	34	16					---	---	---	---
	20:00	34	16					---	---	---	---
	22:00	34	16					---	---	---	---
2/12/21	0:00	34	16					<1.0	27.39	<0.1	27.18
	8:00	34	16					<1.0	27.22	<0.1	27.11
	9:00	34	16					<1.0	27.21	<0.1	27.11

**Notes:**

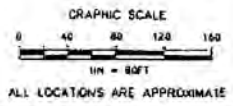




**Explanation:**

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- ⊠ Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- - - Buried Water Line
- - - Fence

Drawing Based on MELI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 30, 2012.



<b>Site Base Map</b>	
Interstate Truck Stop U.S. Highway 301 & S-190 Union, South Carolina RCDEC Site ID #0332	
 <b>Midlands Environmental Consultants, Inc.</b>	Job No. 12-008 Date: June 8, 2012 Title:
	2

# NON-HAZARDOUS WASTE MANIFEST

Please print or type. Form designed for use on eight 1/2 pitch typewriter.

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No. 1583-1	2. Page 1 of
3. Generator's Name and Mailing Address		Interstate Truck Terminal Highway 301 & 321 Ulmer S.C. UST #00332		
4. Generator's Phone				
6. Transporter 1 Company Name	5.	US EPA ID Number	A. State Transporter's ID	
Emerald, Inc.			B. Transporter 1 Phone 803-469-5454	
7. Transporter 2 Company Name	8.	US EPA ID Number	C. State Transporter's ID	
			D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10.	US EPA ID Number	E. State Facility's ID
City of Manning Wastewater Treatment Facility PO Box 546 Manning, SC 29102				F. Facility's Phone

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. Non-Hazardous Petroleum Contaminated Groundwater			4589	gal
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above	H. Handling Codes for Wastes Listed Above
15. Special Handling Instructions and Additional Information	

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name <i>Nicholas Slater</i>	Signature <i>Nicholas Slater</i>	Date Month: 2, Day: 10, Year: 21
17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name <i>ERIC FORD</i>	Signature <i>Eric Ford</i>	Date Month: 2, Day: 09, Year: 21
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date Month: , Day: 10, Year:

19. Discrepancy Indication Space		
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19		
Printed/Typed Name <i>James Bethea</i>	Signature <i>James Bethea</i>	Date Month: 2, Day: 10, Year: 21

NON-HAZARDOUS WASTE GENERATOR FACILITY

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on 48-lb (12 pitch) typewriter)

## NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 1583-2

2. Page 1 of 1

3. Generator's Name and Mailing Address  
 Interstate Truck Terminal  
 Highway 301 & 321  
 Ulmer S.C.  
 UST #00332

4. Generator's Phone

5. Transporter 1 Company Name  
 Emerald, Inc.

9. US EPA ID Number

A. State Transporter's ID

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter 1 Phone 803-469-5454

6. Designated Facility Name and Site Address

City of Manning  
 Wastewater Treatment Facility  
 PO Box 546  
 Manning, SC 29102

10. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

E. State Facility's ID

F. Facility's Phone

11. WASTE DESCRIPTION

12. Containers

No. Type

13. Total Quantity

14. Unit Wt./Vol.

a. Non-Hazardous Petroleum Contaminated Groundwater

1475

GENERATOR

NON-HAZARDOUS WASTE

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name

Alex Skider

Signature

*Alex Skider*

Date

Month Day Year  
2 12 11

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

ERIC FORD

Signature

*Eric Ford*

Date

Month Day Year  
02 12 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19

Printed/Typed Name

James Bethea

Signature

*James Bethea*

Date

Month Day Year  
2 13 11

Manhole Across from Georgia's



06332



MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

JUL 28 2021

Re: Site Specific Work Plan Request  
Groundwater Sampling Contract  
Solicitation #IFB-5400021335

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400021335, submission of a Site-Specific Work Plan (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 20 calendar days of the date of this correspondence. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. A weekly update for each site should be emailed to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-7705 or email wykeljm@dhec.sc.gov.

Sincerely,

Matt Wykel, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Site Information Package Summary (SIPS)  
Site Information Packages

Cc: Lindsey Wooten, Pace Analytical Services, 9800 Kinney Ave. STE 100, Huntersville, NC 28078 (w/ SIPS)  
Technical File (w/o Enc)



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

MEMORANDUM

TO: Midlands Environmental Consultants, Inc

FROM: Arthur Brown

RE: Site Specific Work Plan Request

Facility Name: Interstate Truck Terminal, Inc.

Permit Number: 00332

MECI CA#: 63420

PACE CA #: 63421

County: Allendale

RBCA CLASS: 2BB

Work To Be Completed: Samples are to be collected from all monitoring wells associated with this release along with all water supply wells and surface waters within a 1000-foot radius of the site. All wells are to be purged prior to sampling. Additional scopes of work are to include generating a tax map for UST 09089.

Total Groundwater Sample Points: 28

Analysis Being Requested: K1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B); K7. EDB by EPA 8011

Total Water Supply Well Points: 1

Analysis Being Requested: K14. BTEXNM+1,2 DCA (524.2);15. 7-OXYGENATES & ETHANOL (8260B); 16.EDB (504.1)

Arthur

August 5, 2021

 **Midlands  
Environmental  
Consultants, Inc.**

Mr. Matt Wykel, Hydrogeologist  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan  
Interstate Truck Terminal, Inc.  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 21-7655  
Certified Site Rehabilitation Contractor UCC-0009

RECEIVED  
AUG 09 2021  
UST DIVISION



Dear Mr. Wykel,

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

On August 4, 2021, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any questions or comments, please feel free to contact us at 803-808-2043.

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



Shawn W. Sprott  
Staff Scientist



Jeff L. Coleman  
Senior Scientist





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

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

Facility Name: Interstate Truck Terminal UST Permit #: 00332  
 Facility Address: Intersection of Highway 301 & 321, Ulmer, SC 29849  
 Responsible Party: Julius Moody Phone: 803-245-4470  
 RP Address: Rt 3 PO Box 192 B, Bamberg, SC 29003  
 Property Owner (if different): Harry Bennett  
 Property Owner Address: 1093 Bufords Bridge Hwy. Ulmer, SC 29849  
 Current Use of Property: Abandoned Store

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

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

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

Groundwater/Surface Water:

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

Drinking Water Supply Wells:

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> BTEXNMDCA (524.2)            | <input type="checkbox"/> Mercury (200.8 245.1 or 245.2) | <input checked="" type="checkbox"/> EDB (504.1) |
| <input checked="" type="checkbox"/> Oxygenates & Ethanol (8260B) | <input type="checkbox"/> RCRA Metals (200.8)            |   |

Soil:

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

Air:

- BTEXN

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

_____ Soil	_____ 1 _____ Water Supply Wells	_____ Air	_____ 2 _____ Field Blank
_____ 28 _____ Monitoring Wells	_____ 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 #: 00332 Facility Name: Interstate Truck Terminal

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

Field Work Start-Up: 8/5/2021 Field Work Completion: 9/5/2021  
Report Submittal: 10/5/2021 # of Copies Provided to Property Owners: 0

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

**Investigation Derived Waste Disposal**

Soil: \_\_\_\_\_ Tons Purge Water: 300.0 Gallons  
Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

- During the initial site visit, monitoring wells MW-11, MW-15, and MW-16 were unable to be located. If these wells are located during the sampling event they will be sampled accordingly.
- All wells will be purged prior to sample collection.
- One water supply well sample will also be collected (WSW-2).
- Monitoring well samples will be analyzed for BTEXNM, 8-OXY, 1,2-DCA (8260B) & EDB (8011).
- Water supply well samples will be analyzed for BTEXNM, 1,2-DCA (524.2), 8 Oxy's (8260B) & EDB (504.1).

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
Name of Laboratory: \_\_\_\_\_  
SCDHEC Certification Number: \_\_\_\_\_  
Name of Laboratory Director: \_\_\_\_\_

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

None Other variations from ACQAP. Please describe below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

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





**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

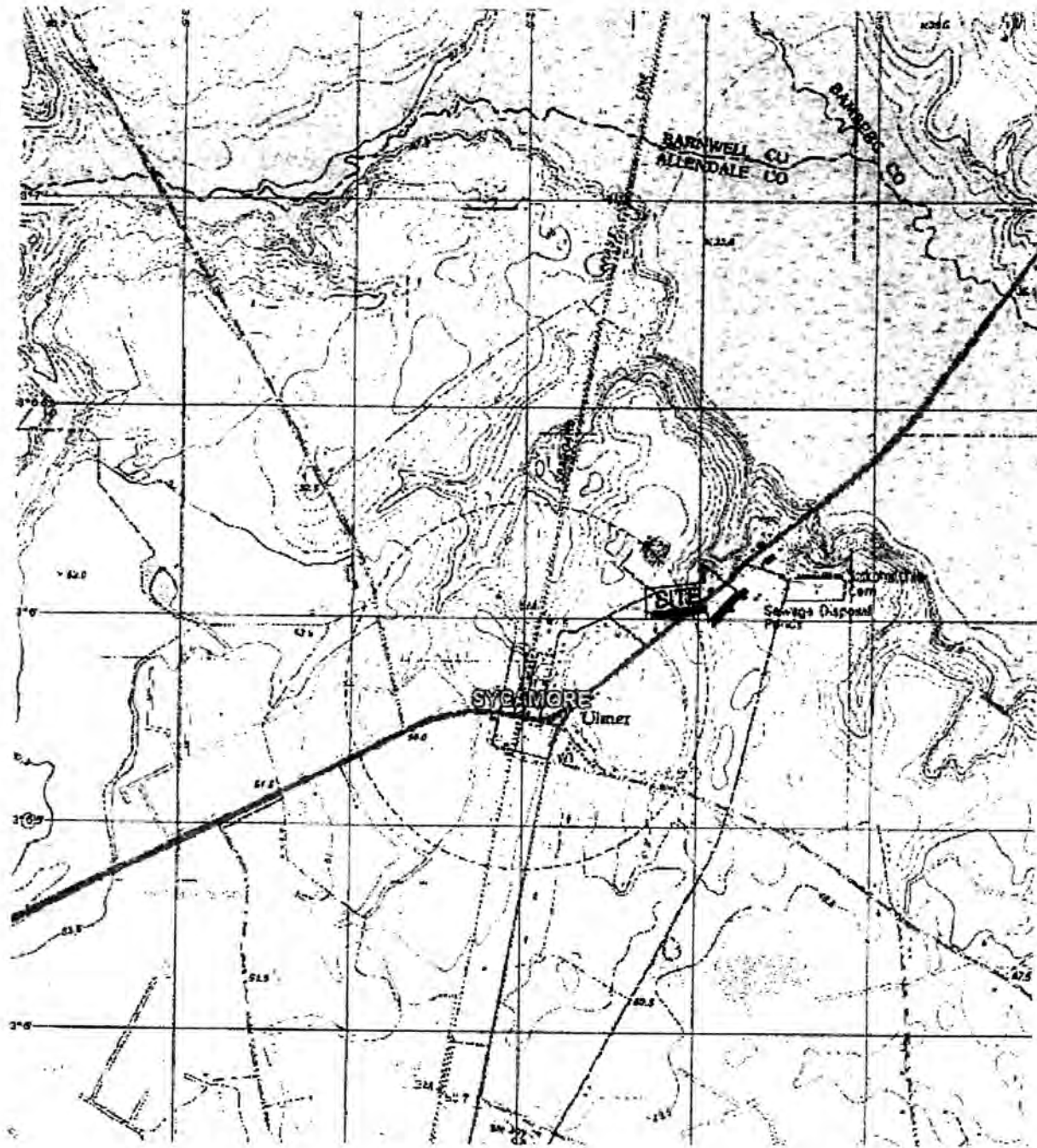
Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO # 4600830568**

**Facility Name:** Interstate Truck Terminal, Inc.

**UST Permit #:** 00332

**Cost Agreement #:** Proposal

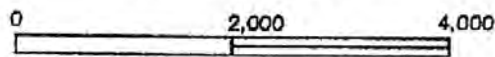
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Plan Preparation</b>				
1. Site Specific Work Plan	1	each	\$425.00	\$425.00
2. Tax Map		each	\$50.00	\$0.00
<b>B. Receptor Survey</b>				
		each	\$50.00	\$0.00
<b>D. Mob/Demob</b>				
2. Personnel	2	each	\$610.00	\$1,220.00
<b>J. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
1. Groundwater Purge	28	per well	\$10.00	\$280.00
2. Air or Vapors		per sample	\$1.00	\$0.00
3. Water Supply Sample	1	per sample	\$40.00	\$40.00
4. Groundwater No Purge/Surface Water		per sample	\$8.00	\$0.00
R-1. HydraSleeve		per sample	\$23.00	\$0.00
5. Gauge Well only		per data point	\$1.00	\$0.00
6. Sample Below Product		per well	\$1.80	\$0.00
7. Passive Diffusion Bag		per well	\$25.00	\$0.00
9. Groundwater (low flow purge)		per well	\$25.00	\$0.00
10. Equipment Blank		per day	\$10.00	\$0.00
<b>Q. Disposal (gallons or tons)</b>				
1. Wastewater	300	per gallon	\$0.33	\$99.00
2. Free Product		per gallon	\$0.05	\$0.00
<b>R. Miscellaneous</b>				
2. Additional Potentiometric Map		each above required two	\$10.00	\$0.00
3. Isoleth Map		each above required one	\$50.00	\$0.00
4. Data Table		per data set	\$100.00	\$0.00
5. Redraw/Digitize Site Map		each	\$150.00	\$0.00
6. Replace Well Lid		each	\$10.00	\$0.00
<b>Y. Well Repair</b>				
1. Additional Copies of Report Delivered		per copy	\$10.00	\$0.00
5. Replace well cover bolts		each	\$6.00	\$0.00
6. Replace locking well cap & lock		each	\$10.00	\$0.00
10. Replace missing/illegible well ID plate		each	\$10.00	\$0.00
<b>Subtotal</b>				<b>\$2,064.00</b>
<b>S. Report Preparation/Project Coordination</b>			Percent of Subtotal	0%
<b>TOTAL</b>				<b>\$2,064.00</b>



REFERENCE: SYCAMORE, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY



SCALE 1: 24,000



SCALE IN FEET



SITE LOCATION

DRAWN: SRC	DATE: 12/05/05
UST #: 00332	
PROJECT: INTERSTATE TRUCK TERMINAL	
PROJECT No.: C-05-05-032	
LOCATION: ULMER, SOUTH CAROLINA	

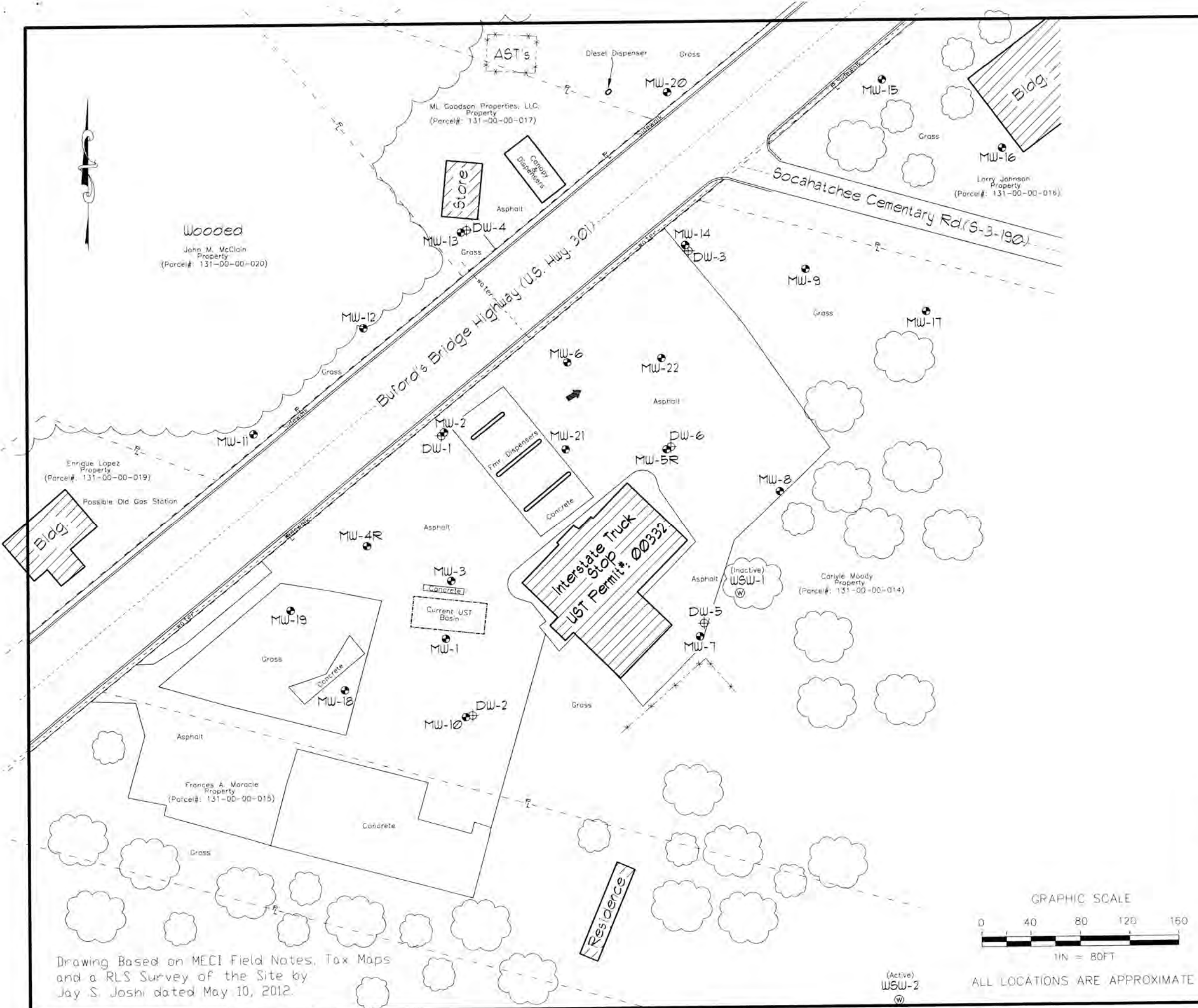
FIGURE 1  
SITE LOCATION MAP

CONSULTECH ENVIRONMENTAL, INC.



Environmental Consulting  
and Engineering  
© 1998

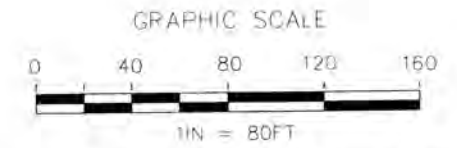
Delivering innovative solutions to today's environmental concerns



**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- - - Buried Water Line
- - - Fence

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.



ALL LOCATIONS ARE APPROXIMATE

<b>Site Base Map</b>	
Interstate Truck Stop U.S. Highway 321 & S-3-190 Ulmer, South Carolina SCDHEC Site ID 00332	
	JOB NO. 12-3888 DATE June 5, 2012 FIGURE <b>2</b>



00332

SEP 30 2021

MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071



Re: Notice to Proceed Site-Specific Work Plan (SSWP) Approval  
Groundwater Sampling Contract  
Solicitation #IFB-5400021335, PO #4600830568  
Interstate Truck Terminal, Inc, Highway 301 & 321, Ulmer, SC  
UST Permit #; MECI CA #63420; Pace CA #63421  
Allendale County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400021335, the SSWP has been reviewed and approved. A status report of the project should be provided on a weekly basis. If any quality assurance problems arise, you must contact me within 24 hours by phone or email.

Please coordinate access to the facility with the property owner. **Sampling should be conducted within 30 calendar days from the date of this letter. If the final report is not submitted within 60 days of the date of this correspondence, a late fee may be imposed.** The final report is to be submitted to the contract manager.

If you have any site-specific questions, please contact me by email brownaj@dhec.sc.gov or phone (803) 898-0500. If you have any contract specific questions, please contact Robert Dunn by email dunnra@dhec.sc.gov or phone (803) 898-0671.

Sincerely,

Arthur Brown, Hydrogeologist

Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Approved Cost Agreement (both CAs)

Cc: Ms. Lindsey Wooten, Pace Analytical Services, 9800 Kincey Ave, STE 100, Huntersville, NC, 28078 (w/ CA)  
Technical File (w/ Enc)



# Approved Cost Agreement 63420

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

BROWNAJ

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION		1 SITE SPECIFIC WORK PLAN	1.0000	\$425.000	425.00
D MOB/DEMOB		2 PERSONNEL	2.0000	\$610.000	1,220.00
J SAMPLE COLLECTION		1 GROUND WATER PURGE	28.0000	\$10.000	280.00
		3 WATER SUPPLY SAMPLE/ DUPLICATE	1.0000	\$40.000	40.00
Q DISPOSAL		1 WASTEWATER	300.0000	\$0.330	99.00
<b>Total Amount</b>					<b>2,064.00</b>

# Approved Cost Agreement

# 63421

Facility: 00332 INTERSTATE TRUCK TERMINAL INC

BROWNAJ

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
K ANALYSES					
	DW DRINKING WATER	14 BTEXNM+1,2 DCA (524.2) WSW	5.0000	\$42.000	210.00
		15 OXY GENATES & ETHANOL 8260B WSW	5.0000	\$20.000	100.00
		16 EDB (504.1) WSW	4.0000	\$22.000	88.00
	GW GROUNDWATER	1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	31.0000	\$26.000	806.00
		7 EDB BY EPA 8011	30.0000	\$22.000	660.00
<b>Total Amount</b>					<b>1,864.00</b>

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# MONITORING REPORT

Interstate Truck Terminal, Inc.  
Intersection of Highway 301 & 321  
Ulmer, South Carolina  
Allendale County  
UST Permit# 00332; CA# 63420  
Solicitation# IFB-5400021335; PO# 4600830568

*Prepared By:*

 Midlands  
Environmental  
Consultants, Inc.  
231 Dooley Road, Lexington, SC 29073  
(803) 808-2043 fax: 808-2048

November 2, 2021

MECI Project No. 21-7655

---



Midlands  
Environmental  
Consultants, Inc.

November 2, 2021

Mr. Matt Wykel, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201


Subject: Report of Groundwater Sampling  
Interstate Truck Terminal, Inc.  
Intersection of Highway 301 & 321  
Ulmer, South Carolina  
Allendale County  
SCDHEC Site ID Number 00332; CA # 63420  
MECI Project Number 19-6993  
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Wykel,


Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

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



Jeff L. Coleman  
Senior Scientist



Bryan T. Shane, P.G.  
Principal Geologist



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APPENDIX C – DISPOSAL MANIFEST

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APPENDIX E – DATA VERIFICATION CHECKLIST

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**1.0 INTRODUCTION**

**i. Facility Information**

Name: Interstate Truck Terminal, Inc.  
 Address: Intersection of Highway 301 & 321, Ulmer, SC 29849  
 Telephone #: N/A

**ii. Owner/Operator Information**

Name: Julius Moody  
 Address: Rt. 3 PO Box 192B, Bamberg, SC 29003  
 Telephone #: 803-245-4470

**iii. Property Owner Information**

Name: Carl & Harry Bennett  
 Tax Map #: Allendale County Tax Map#: 131-00-00-014  
 Address: 116057 Burton's Ferry Highway, Ulmer, SC 29849  
 Telephone #: N/A

**iv. Contractor Information**

Name: Midlands Environmental Consultants, Inc.  
 Certification #: 9  
 Address: P. O. Box 854, Lexington, SC 29071  
 Telephone #: (803) 808-2043

**v. Facility History**

<b>Release Date:</b>	6-21-2002		
<b>Estimated Quantity of Release:</b>	Unknown		
<b>Other Releases at Facility:</b>	N/A		
<b>Release Ranking:</b>	2BB		
<b>Current Site Usage:</b>	Vacant Truck Stop		
<b>Tank #</b>	<b>Capacity/Product</b>	<b>In Use/Abandoned</b>	<b>Tank Status</b>
1	8,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
2	8,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
3	8,000 Gal. Gasoline	In Ground	Rendered Non-Usable
4	6,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
5	6,000 Gal. Gasoline	In Ground	Rendered Non-Usable
6	6,000 Gal. Gasoline	In Ground	Rendered Non-Usable
7	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
8	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable
9	4,000 Gal. Diesel Fuel	In Ground	Rendered Non-Usable

**2.0 RECEPTOR SURVEY & SITE DATA**

**i. Known Potential Receptors**

Receptor ID#	Notes
WSW-1	NS = Not Sampled; Well has been Removed
WSW-2	382 Salkehatchie Cemetery Rd.; Sample collected from spigot in front yard

**ii. Receptor Survey Results**

A receptor survey was not requested as part of the approved cost agreement.

**iii. Site/Adjacent Land Usage** (Residential, Commercial, Agricultural, Industrial, etc.)

<b>Site</b>	Commercial
<b>North</b>	Commercial
<b>South</b>	Wooded
<b>East</b>	Agricultural
<b>West</b>	Commercial/Undeveloped
<b>Permit #'s of UST Sites within 1,000' feet of site</b>	AST Site directly north of site, across Highway 301

**3.0 SAMPLING AND CHEMICAL ANALYSES**

On October 13, 2021, MECI personnel collected groundwater samples from twenty-six (26) monitoring wells and one (1) water supply well at the subject site. One (1) monitoring well (MW-16) was gauged and determined to be obstructed and unable to be sampled. Monitoring well MW-11 could not be located during sampling activities and WSW-1 appears to have been abandoned/removed. Based on a request from SCDHEC, all monitoring wells were to be purged prior to sample collection. Twenty-six (26) monitoring wells were purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC’s Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI’s Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-1	X						X	X	X				
Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes MTBE = Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide													

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-2	X						X	X	X				
MW-3	X						X	X	X				
MW-4R	X						X	X	X				
MW-5R	X						X	X	X				
MW-6	X						X	X	X				
MW-7	X						X	X	X				
MW-8	X						X	X	X				
MW-9	X						X	X	X				
MW-10	X						X	X	X				
MW-11						X							
MW-12	X						X	X	X				
MW-13	X						X	X	X				
MW-14	X						X	X	X				
MW-15	X						X	X	X				
MW-16			X										
MW-17	X						X	X	X				
MW-18	X						X	X	X				
MW-19	X						X	X	X				
MW-20	X						X	X	X				
MW-21	X						X	X	X				
MW-22	X						X	X	X				
DW-1	X						X	X	X				
DW-2	X						X	X	X				
DW-3	X						X	X	X				
DW-4	X						X	X	X				
DW-5	X						X	X	X				
DW-6	X												
DUP-1													
DUP-2													
Field Blank													
Trip Blank													
WSW-1						X							
WSW-2								X				X	X
WSW-DUP								X				X	X
Field Blank								X				X	X
Trip Blank								X				X	

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 357.25 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix C and the required Post-GAC laboratory results in presented in Appendix B.

#### 4.0 RESULTS AND DISCUSSION

- The apparent groundwater flow from the release is to the northeast toward drainage features associated with the Salkehatchie River.
- Free phase petroleum product was not detected in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer with the highest dissolved concentrations being detected in the area of MW-2 and MW-22. Of the twenty-seven sampling locations analyzed, five locations (MW-2, MW-6, MW-14, MW-21 & MW-22) detected petroleum constituents above Risked Based Screening Levels (RBSL's).
- Petroleum constituents detected above the established RBSL include:

<i>Compound</i>	<i>RBSL/SCAL (ug/l)</i>	<i>Wells Above RBSL</i>
Product	0.01'	N/A
Benzene	5	MW-6
Toluene	1,000	N/A
Ethylbenzene	700	MW-2 & MW-22
Total Xylenes	10,000	N/A
Naphthalene	25	MW-2, MW-6, MW-14, MW-21 & MW-22
MTBE	40	N/A
1,2 DCA	5	N/A
EDB	0.05	N/A
TAA	240	N/A
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	N/A
Ethanol	10,000	N/A
ETBE	47	N/A

- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from parent samples MW-2, MW-22 and WSW-2. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field Blanks and trip blanks were collected and submitted during the groundwater sampling activities. No detectable concentrations of the requested method constituents were reported in either of the field or trip blanks.

#### 5.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. Contents of this report are intended for the sole use of MECI and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-

## TABLES

Table #1  
 Summary of Analytical Results - Water Samples  
 00332/63421 Interstate Truck  
 Facility ID# 00332

Analytical Method		EPA 8011	EPA 8260D																
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP-1	10/13/2021	<0.0078	<25.8	<674	<21.8	<43.6	<1800	<106	<b>1330</b>	<38.8	<b>145</b>	231	4080	3970	105	<820	<38.0	<1140	<301
DUP-2	10/13/2021	<0.0080	<25.8	<674	<21.8	<43.6	<1800	<106	<b>794</b>	<38.8	<b>308</b>	48.9 J	2860	2860	<25.5	<820	<38.0	<1140	<301
FB	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-1	10/13/2021	<0.0077	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-10	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-12	10/13/2021	<0.0078	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	23.5	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-13	10/13/2021	<0.0083	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-14	10/13/2021	<0.0082	<4.1	<108	3.9 J	<7.0	<288	<16.9	278	<6.2	<b>47.3</b>	38.0	677	677	<4.1	<131	<6.1	<182	<48.2
MW-15	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-17	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-18	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-19	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-2	10/13/2021	<0.0080	<25.8	<674	<21.8	<43.6	<1800	<106	<b>1240</b>	<38.8	<b>119</b>	208	3470	3360	105	<820	<38.0	<1140	<301
MW-20	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-21	10/13/2021	<0.0077	<2.1	<53.9	<1.7	<3.5	<144	<8.5	70.0	<3.1	<b>26.7</b>	24.9	403	305	98.0	<65.6	<3.0	<91.0	<24.1
MW-22	10/13/2021	<0.0086	<25.8	<674	<21.8	<43.6	<1800	<106	<b>893</b>	<38.8	<b>339</b>	57.7 J	3440	3440	<25.5	<820	<38.0	<1140	<301
MW-3	10/13/2021	<0.0079	<2.1	<53.9	2.7 J	<3.5	<144	<8.5	94.4	<3.1	15.2	23.4	319	212	107	<65.6	<3.0	<91.0	<24.1
MW-4R	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	33.6	<3.1	12.1	4.4 J	276	267	8.6	<65.6	<3.0	<91.0	<24.1
MW-5R	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	13.6	<3.1	18.9	<2.0	7.6	7.6 J	<2.0	<65.6	<3.0	<91.0	<24.1
MW-6	10/13/2021	<0.0079	<8.2	<216	<b>19.2 J</b>	<14.0	<576	<33.8	156	<12.4	<b>108</b>	9.9 J	805	805	<8.2	<262	<12.2	<364	<96.4
MW-7	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-8	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-9	10/13/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	5.6	<3.1	10.2	<2.0	8.8	8.8 J	<2.0	<65.6	<3.0	<91.0	<24.1
TB	10/13/2021	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-1	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-2	10/13/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-3	10/13/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-4	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-5	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-6	10/13/2021	<0.0078	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

NOTES:

ND = Not Detected

ft. BGS = feet below ground surface

mg/L = milligrams per liter

ug/L = micrograms per liter

**Bold data above the RBSL (Risk Based Screening Level)**



Table #1A  
 Summary of Analytical Results - Water Samples  
 00332/63421 INTERSTATE TRUCK  
 Facility ID# 00332

Analytical Method		EPA 504.1	EPA 524.2									EPA 8260D							
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	Benzene	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	3,3-Dimethyl-1-Butanol	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
WSW-2	10/13/2021	<0.0037	<0.16	<0.21	<0.22	<0.14	<0.35	<0.20	<0.22	<0.39	<0.22	<51.9	<0.31	<72.2	<3.2	<36.4	<2.7	<26.8	<29.4
WSW-DUP	10/13/2021	<0.0038	<0.16	<0.21	<0.22	<0.14	<0.35	<0.20	<0.22	<0.39	<0.22	<51.9	<0.31	<72.2	<3.2	<36.4	<2.7	<26.8	<29.4
WSW-FB	10/13/2021	<0.0037	<0.16	<0.21	<0.22	<0.14	<0.35	<0.20	<0.22	<0.39	<0.22	<51.9	<0.31	<72.2	<3.2	<36.4	<2.7	<26.8	<29.4
WSW-TB	10/13/2021	N/A	<0.16	<0.21	<0.22	<0.14	<0.35	<0.20	<0.22	<0.39	<0.22	<51.9	<0.31	<72.2	<3.2	<36.4	<2.7	<26.8	<29.4
South Carolina RBSL for Groundwater		0.05	5	5	700	40	25	1000	10000	N/A	N/A	N/A	150	10000	47	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	150	10000	47	240	128	1400	N/A

NOTES:  
 ND = Not Detected  
 ft. BGS = feet below ground surface  
 mg/L = milligrams per liter  
 ug/L = micrograms per liter  
**Bold data above the RBSL (Risk Based Screening Level)**

**Table 2**  
**Site Activity Summary**



UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: M. Funderburk, T. Adorno, C. Hansen

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Initial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-1	Y	10/13/21	13:33	25-35	***	22.91	***	165.08	142.17	2.30	10.50	No Odor
MW-2	Y	10/13/21	11:42	25-35	***	24.41	***	164.19	139.78	1.87	9.00	Odor; Duplicated
MW-3	Y	10/13/21	13:39	24-34	***	23.91	***	165.26	141.35	3.31	8.50	Odor
MW-4R	Y	10/13/21	14:13	25-35	***	24.29	***	163.93	139.64	1.29	9.00	Odor
MW-5R	Y	10/13/21	12:08	25-35	***	26.78	***	165.98	139.20	2.09	7.00	Odor
MW-6	Y	10/13/21	13:37	25-35	***	24.19	***	163.38	139.19	2.00	9.00	Slight Odor
MW-7	Y	10/13/21	12:56	25-35	***	21.87	***	166.41	144.54	3.01	11.00	No Odor
MW-8	Y	10/13/21	13:16	25-35	***	26.00	***	164.79	138.79	2.94	10.75	No Odor
MW-9	Y	10/13/21	14:45	25-35	***	23.75	***	161.70	137.95	3.69	9.50	No Odor
MW-10	Y	10/13/21	12:54	25-35	***	21.02	***	164.44	143.42	3.89	12.00	No Odor
MW-11	N	10/13/21	NL	25-35	***	NL	***	162.46	NL	NL	0.00	Not Located
MW-12	Y	10/13/21	10:20	25-35	***	21.50	***	161.36	139.86	2.42	11.25	No Odor
MW-13	Y	10/13/21	9:55	25-35	***	22.61	***	161.90	139.29	3.55	10.75	No Odor
MW-14	Y	10/13/21	11:44	25-35	***	23.21	***	161.32	138.11	3.58	10.00	No Odor
MW-15	Y	10/13/21	15:04	15-35	***	21.91	***	160.07	138.16	4.12	11.00	No Odor
											139.25	<b>TOTAL GALLONS PURGED</b>

**Table 2**  
**Site Activity Summary**



UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: M. Funderburk, T. Adorno, C. Hansen

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Initial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-16	N	10/13/21	DRY	15-35	***	DRY	***	162.01	DRY	DRY	0.00	Gauged Dry; TD: 24.40' BTOC
MW-17	Y	10/13/21	14:55	15-35	***	22.39	***	162.26	139.87	4.24	10.50	No Odor
MW-18	Y	10/13/21	13:52	15-35	***	26.01	***	162.14	136.13	3.09	7.50	No Odor
MW-19	Y	10/13/21	14:27	15-35	***	21.52	***	163.02	141.50	3.00	11.25	No Odor
MW-20	Y	10/13/21	10:47	15-35	***	22.82	***	160.57	137.75	4.68	9.50	No Odor
MW-21	Y	10/13/21	13:46	25-35	***	26.17	***	165.78	139.61	0.89	7.50	Strong Odor
MW-22	Y	10/13/21	13:37	25-35	***	22.70	***	163.68	140.98	1.88	10.25	Odor; Duplicated
DW-1	Y	10/13/21	14:24	65-70	***	25.89	***	164.20	138.31	3.53	21.75	No Odor
DW-2	Y	10/13/21	15:40	65-70	***	23.87	***	164.64	140.77	4.08	38.00	No Odor
DW-3	Y	10/13/21	14:23	65-70	***	24.56	***	161.58	137.02	2.36	22.25	No Odor
DW-4	Y	10/13/21	13:12	65-70	***	24.64	***	161.72	137.08	4.84	22.50	No Odor
DW-5	Y	10/13/21	15:41	80-85	***	26.94	***	166.68	139.74	4.82	29.00	No Odor
DW-6	Y	10/13/21	15:13	80-85	***	27.89	***	166.02	138.13	3.59	28.00	No Odor
DUP-1	Y	10/13/21	11:42	***	***	***	***	***	***	***	***	Duplicate sample of MW-2
DUP-2	Y	10/13/21	13:37	***	***	***	***	***	***	***	***	Duplicate sample of MW-22
											218.00	<b>TOTAL GALLONS PURGED</b>

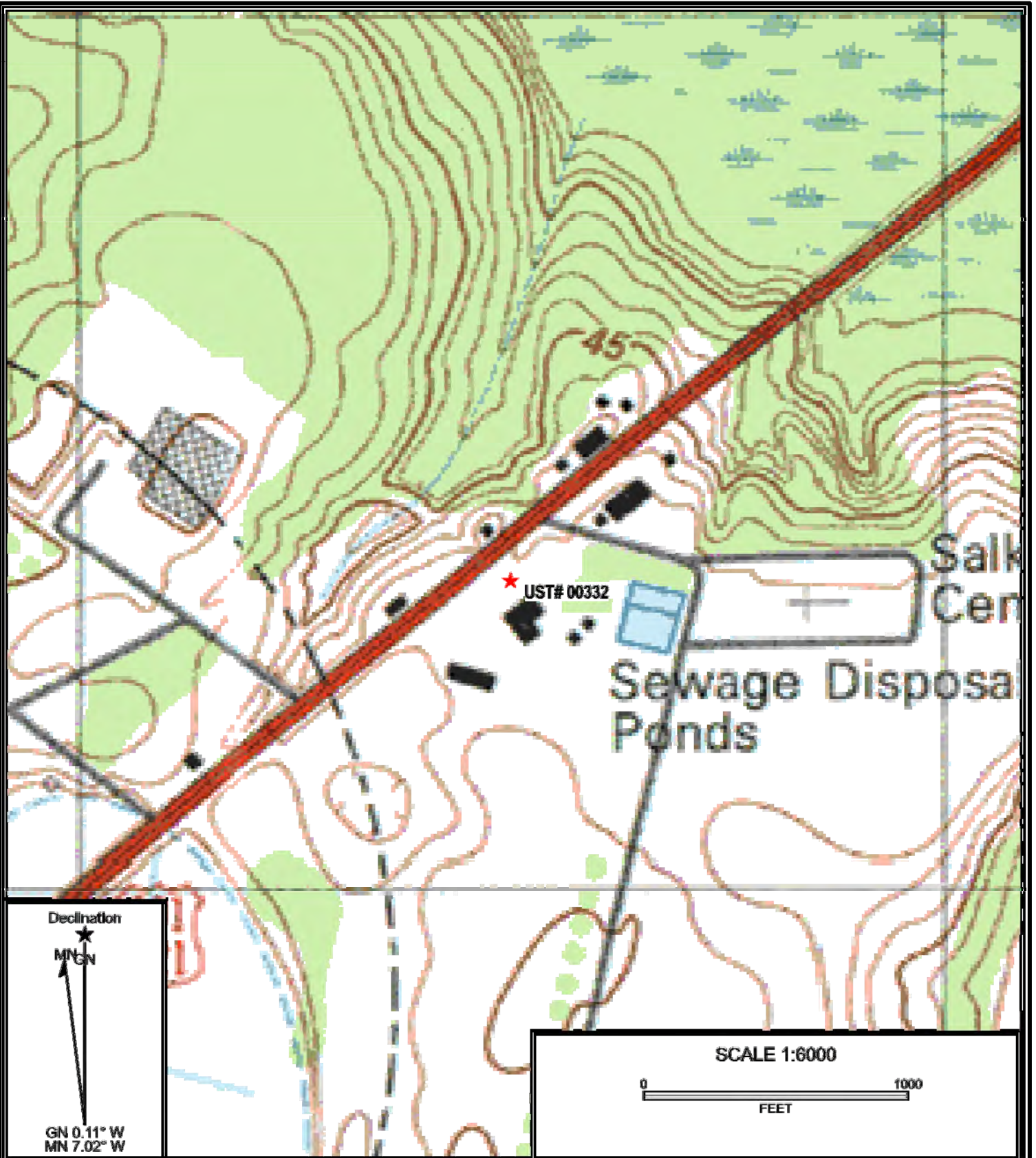
**Table 2**  
**Site Activity Summary**

UST Permit #: 00332  
 Facility Name: Interstate Truck Terminal  
 County: Allendale  
 Field Personnel: M. Funderburk, T. Adorno, C. Hansen



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Initial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
Field Blank	Y	10/13/21	15:10	***	***	***	***	***	***	***	***	Field Blank
Trip Blank 1	Y	10/13/21	8:00	***	***	***	***	***	***	***	***	Trip Blank
WSW-1	N	10/13/21	NS	***	***	***	***	***	***	***	***	NS = Not Sampled; Well has been Removed
WSW-2	Y	10/13/21	15:26	***	***	***	***	***	***	***	***	382 Salkehatchie Cemetery Rd.; Sample collected from spigot in front yard
WSW-DUP	Y	10/13/21	15:27	***	***	***	***	***	***	***	***	Duplicate sample of WSW-2
Field Blank	Y	10/13/21	15:33	***	***	***	***	***	***	***	***	Field Blank-WSW
Trip Blank	Y	10/13/21	8:00	***	***	***	***	***	***	***	***	Trip Blank-WSW
											0.00	<b>TOTAL GALLONS PURGED</b>

## FIGURES



Reference: Sycamore, South Carolina  
 USGS 7.5 Min. Quad  
 Countour Interval – 1.5 Meters

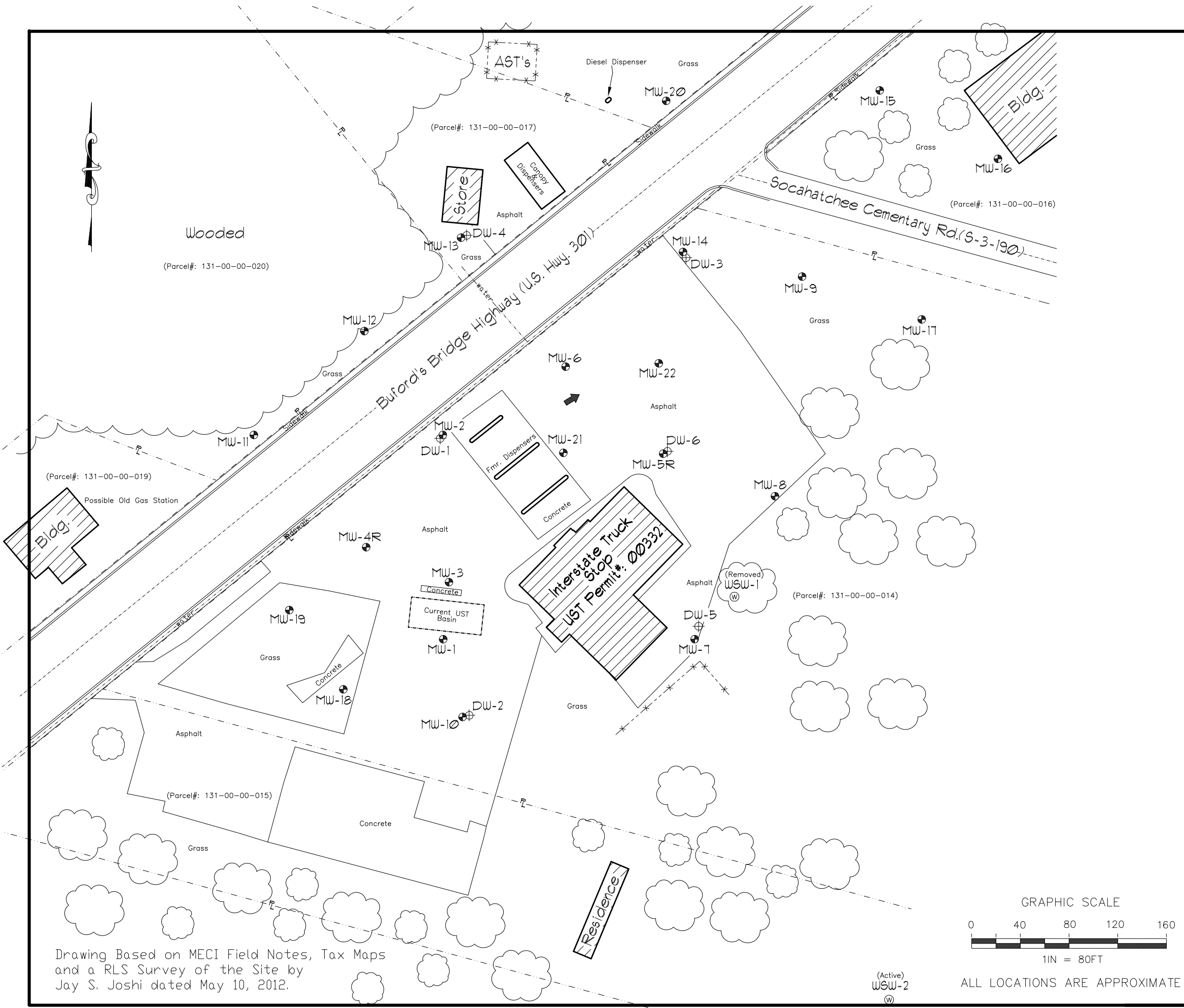
Midlands  
 Environmental  
 Consultants, Inc.

Site Location

Interstate Truck Stop  
 Socahatchee Cemetery Rd. & Hwy. 321, Ulmer, SC  
 SCDHEC Site ID# 00332

Figure 1

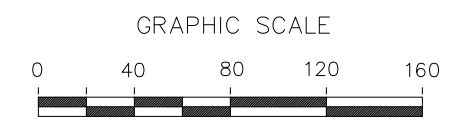
MECI 21-7655



**Explanation:**

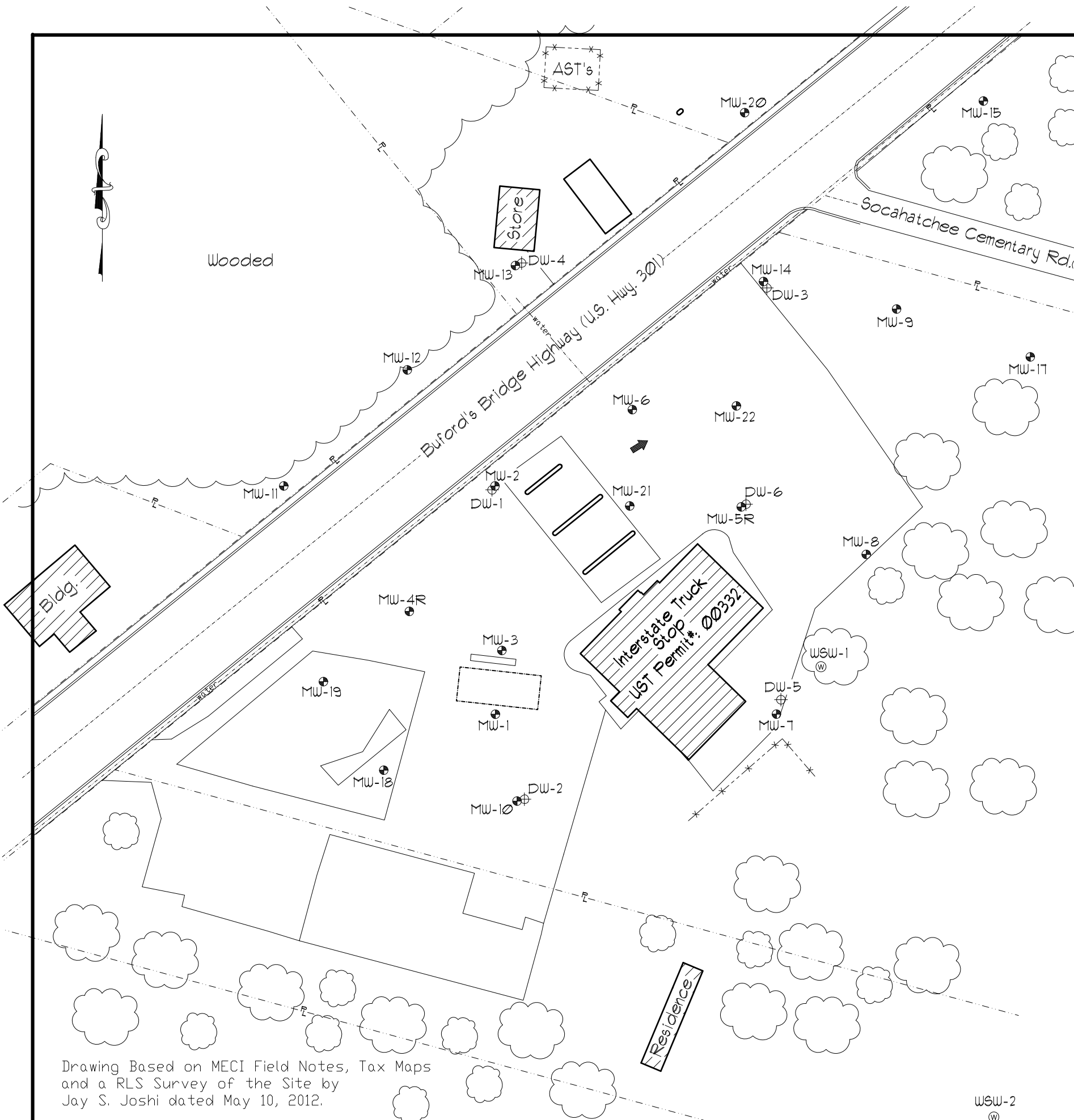
- ⊕ Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- Property Line
- water--- Buried Water Line
- fence--- Fence

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.



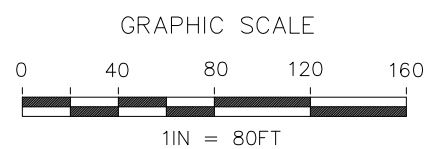
ALL LOCATIONS ARE APPROXIMATE

<b>Site Base Map</b>	
Interstate Truck Stop U.S. Highway 321 & S-3-190 Ulmer, South Carolina SCDHEC Site ID 00332	
	JOB NO. 21-7655 DATE November 2, 2021 FIGURE <span style="font-size: 2em; float: right;">2</span>



Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.

Sample ID	Constituent of Concern	EPA 8260D																	
		1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amyl/methyl ether	tert-Butyl Alcohol	tert-Butyl Formate
Date Collected (mm/dd/yy)		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP-1	10/13/2021	<0.0078	<25.8	<6.7	<21.8	<43.5	<1800	<106	1330	<38.8	145	231	4080	3970	105	<820	<38.0	<1140	<301
DUP 2	10/13/2021	<0.0080	<25.8	<6.7	<21.8	<43.5	<1800	<106	794	<38.8	308	48.9	2860	2860	<25.5	<820	<38.0	<1140	<301
FB	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW 1	10/13/2021	<0.0077	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-10	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-12	10/13/2021	<0.0078	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	23.5	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW 13	10/13/2021	<0.0083	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-14	10/13/2021	<0.0082	<4.1	<108	3.9	<7.0	<288	<16.9	278	<6.2	47.3	38.0	677	677	<4.1	<131	<6.1	<182	<48.2
MW 15	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-17	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-18	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW 19	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-2	10/13/2021	<0.0080	<25.8	<6.7	<21.8	<43.5	<1800	<106	1240	<38.8	119	208	3470	3360	105	<820	<38.0	<1140	<301
MW 20	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW 21	10/13/2021	<0.0077	<2.1	<53.9	<1.7	<3.5	<144	<8.5	70.0	<3.1	26.7	24.9	403	305	98.0	<65.6	<3.0	<91.0	<24.1
MW-22	10/13/2021	<0.0086	<25.8	<6.7	<21.8	<43.5	<1800	<106	893	<38.8	339	57.7	3440	3440	<25.5	<820	<38.0	<1140	<301
MW 3	10/13/2021	<0.0079	<2.1	<53.9	7.7	<3.5	<144	<8.5	94.4	<3.1	15.2	23.4	319	212	107	<65.6	<3.0	<91.0	<24.1
MW-4R	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	33.6	<3.1	12.1	4.4	276	267	8.6	<65.6	<3.0	<91.0	<24.1
MW-5R	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	13.6	<3.1	18.9	<2.0	7.6	7.6	<2.0	<65.6	<3.0	<91.0	<24.1
MW 6	10/13/2021	<0.0079	<8.2	<216	19.2	<14.0	<576	<33.8	156	<12.4	108	9.9	805	805	<8.2	<262	<12.2	<364	<96.4
MW-7	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW 8	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-9	10/13/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	5.6	<3.1	10.2	<2.0	8.8	8.8	<2.0	<65.6	<3.0	<91.0	<24.1
IS	10/13/2021	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw 1	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw 2	10/13/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw 3	10/13/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw 4	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw 5	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw 6	10/13/2021	<0.0078	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A



ALL LOCATIONS ARE APPROXIMATE

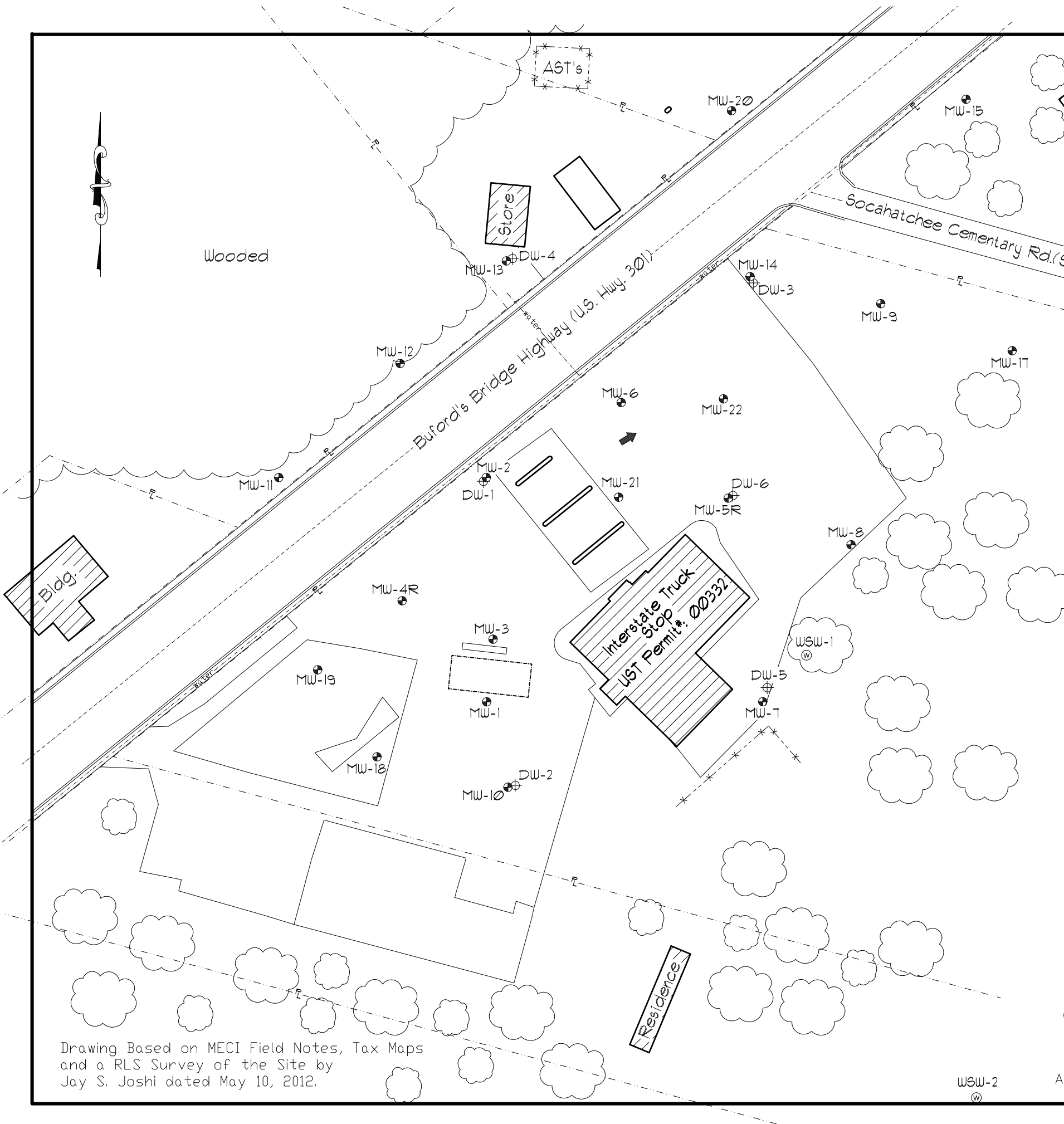
### Groundwater CoC Site Map

Interstate Truck Stop  
U.S. Highway 321 & S-3-190  
Ulmer, South Carolina  
SCDHEC Site ID 00332



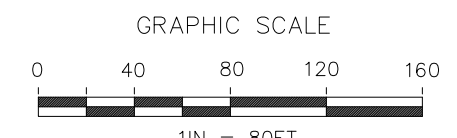
JOB NO. 21-7655  
DATE November 2, 2021  
FIGURE 3





Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
MW-1	Y	10/13/21	13:33	25-35	***	22.91	***	165.08	142.17
MW-2	Y	10/13/21	11:42	25-35	***	24.41	***	164.19	139.78
MW-3	Y	10/13/21	13:39	24-34	***	23.91	***	165.26	141.35
MW-4R	Y	10/13/21	14:13	25-35	***	24.29	***	163.93	139.64
MW-5R	Y	10/13/21	12:08	25-35	***	26.78	***	165.98	139.20
MW-6	Y	10/13/21	13:37	25-35	***	24.19	***	163.38	139.19
MW-7	Y	10/13/21	12:56	25-35	***	21.87	***	166.41	144.54
MW-8	Y	10/13/21	13:16	25-35	***	26.00	***	164.79	138.79
MW-9	Y	10/13/21	14:45	25-35	***	23.75	***	161.70	137.95
MW-10	Y	10/13/21	12:54	25-35	***	21.02	***	164.44	143.42
MW-11	N	10/13/21	NL	25-35	***	NL	***	162.46	NL
MW-12	Y	10/13/21	10:20	25-35	***	21.50	***	161.36	139.86
MW-13	Y	10/13/21	9:55	25-35	***	22.61	***	161.90	139.29
MW-14	Y	10/13/21	11:44	25-35	***	23.21	***	161.32	138.11
MW-15	Y	10/13/21	15:04	15-35	***	21.91	***	160.07	138.16
MW-16	N	10/13/21	DRY	15-35	***	DRY	***	162.01	DRY
MW-17	Y	10/13/21	14:55	15-35	***	22.39	***	162.26	139.87
MW-18	Y	10/13/21	13:52	15-35	***	26.01	***	162.14	136.13
MW-19	Y	10/13/21	14:27	15-35	***	21.52	***	163.02	141.50
MW-20	Y	10/13/21	10:47	15-35	***	22.82	***	160.57	137.75
MW-21	Y	10/13/21	13:46	25-35	***	26.17	***	165.78	139.61
MW-22	Y	10/13/21	13:37	25-35	***	22.70	***	163.68	140.98
DW-1	Y	10/13/21	14:24	65-70	***	25.89	***	164.20	138.31
DW-2	Y	10/13/21	15:40	65-70	***	23.87	***	164.64	140.77
DW-3	Y	10/13/21	14:23	65-70	***	24.56	***	161.58	137.02
DW-4	Y	10/13/21	13:12	65-70	***	24.64	***	161.72	137.08
DW-5	Y	10/13/21	15:41	80-85	***	26.94	***	166.68	139.74
DW-6	Y	10/13/21	15:13	80-85	***	27.89	***	166.02	138.13



ALL LOCATIONS ARE APPROXIMATE

**Potentiometric Data Site Map**

Interstate Truck Stop  
U.S. Highway 321 & S-3-190  
Ulmer, South Carolina  
SCDHEC Site ID 00332

**Midlands  
Environmental  
Consultants, Inc.**

JOB NO. 21-7655  
DATE November 2, 2021  
FIGURE 4

**APPENDIX A:**

**SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS**

# Monitoring Well Purge And Sampling Data

Field Personnel: ME, TA, CH  
 Sampling Date(s): 10/13/2021  
 Sampling Case#: 1

Job Name: Interstate Truck Terminal  
 Job Number: 21-7655

**Calibration Data for:**  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-1	Initial	13:21	6.08	61.7	24.2	2.30	41.22				25 35	12.59	2.05	10.50g	no odor
	1st	13:24	6.21	42.4	23.6	2.39	124.7								
	2nd	13:26	6.24	41.6	23.3	2.44	131.2								
	3rd	13:29	6.32	101.3	23.0	2.47	69.45		22.41						
	4th	13:31	6.35	101.0	22.7	2.49	47.22								
	5th	13:33	6.36	101.2	22.5	2.51	44.10								
	Sampling														
MW-2	Initial	11:31	6.86	189.2	24.3	1.87	74.09				25 35	10.59	1.72	9.00g	Odor (AP)
	1st	11:33	7.11	209.6	23.5	2.89	136.6								
	2nd	11:35	7.21	211.2	23.1	2.93	145.2								
	3rd	11:37	7.25	215.6	22.8	2.95	91.28		24.41						
	4th	11:40	7.27	215.4	22.7	2.95	64.27								
	5th	11:42	7.26	214.9	22.7	2.97	60.12								
	Sampling														
MW-3	Initial	13:32	7.02	99.6	22.9	3.31	96.71				24 34	10.09	1.64	8.50g	ODOR
	1st	13:33	7.11	96.6	22.1	3.47	103.2								
	2nd	13:35	7.19	98.1	21.6	3.51	169.4								
	3rd	13:36	7.23	99.0	21.3	3.53	111.9		23.91						
	4th	13:38	7.26	100.2	21.1	3.56	71.72								
	5th	13:39	7.29	100.1	21.0	3.57	77.69								
	Sampling														
MW-4	Initial	14:00	6.50	201.2	21.9	1.29	69.97				25 35	10.71	1.74	9.00g	ODOR
	1st	14:02	6.57	205.4	21.2	2.08	136.7								
	2nd	14:05	6.93	208.9	20.8	2.12	141.2								
	3rd	14:09	6.96	209.3	20.6	2.18	144.52		24.29						
	4th	14:11	6.99	209.1	20.5	2.18	147.26								
	5th	14:13	7.01	208.8	20.4	2.20	51.16								
	Sampling														

\*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

\*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: ME, JA, CH  
 Sampling Date(s): 10/13/2021  
 Sampling Case#: 1

Job Name: Interstate Truck Terminal  
 Job Number: 21-7655

Calibration Data for:  
 Calibration Successful? Yes Yes or No (Please Circle) No  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-5R	Initial	12:00	6.29	162.3	24.2	2.09	58.12								
	1st	12:01	6.41	164.7	23.1	2.18	131.6								
	2nd	12:03	6.46	169.0	22.7	2.24	147.5								
	3rd	12:05	6.49	171.2	22.4	2.27	151.2								
	4th	12:07	6.52	171.0	22.1	2.31	64.72		26.78		25	8.22	1.33		
	5th	12:08	6.52	171.1	22.0	2.33	52.49				35		6.69	7.00g	odor
	Sampling														
MW-6	Initial	13:25	6.23	111.6	23.7	2.00	39.72								
	1st	13:27	6.39	124.7	23.0	2.31	129.6								
	2nd	13:30	6.42	131.2	22.6	2.40	135.4								
	3rd	13:32	6.45	133.7	22.4	2.45	137.3								
	4th	13:35	6.47	133.4	22.3	2.45	66.21		24.19		25	10.81	1.76		slight odor
	5th	13:37	6.48	133.1	22.1	2.46	42.20				35		8.81	9.00g	odor
	Sampling														
MW-7	Initial	12:45	6.89	124.2	22.9	3.01	18.84								
	1st	12:47	7.05	127.9	22.1	3.21	79.65								
	2nd	12:50	7.12	131.2	21.7	3.29	131.7								
	3rd	12:52	7.16	133.6	21.3	3.33	133.2								
	4th	12:54	7.19	133.4	21.0	3.35	71.42		21.87		25	13.13	2.14		no odor
	5th	12:56	7.21	133.4	21.1	3.37	28.52				35		10.70	11.00g	no odor
	Sampling														
MW-8	Initial	13:03	5.91	101.6	23.1	2.94	21.91								
	1st	13:06	6.09	102.9	22.4	3.11	47.15								
	2nd	13:09	6.15	103.5	21.7	3.24	100.2								
	3rd	13:11	6.19	103.4	21.4	3.27	124.6								
	4th	13:13	6.23	103.6	21.0	3.29	86.16		26.0		25	13.13	2.14		no odor
	5th	13:16	6.25	103.6	20.7	3.31	39.42				35		10.70	10.75g	no odor
	Sampling														

\*= (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: ME, TA, CH  
 Sampling Date(s): 10/13/2021  
 Sampling Case#: 1

Job Name: Interstate Truck Terminal  
 Job Number: 21-7655

**Calibration Data for:**  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Conductivity **Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-9	Initial	14:33	5.89	99.5	21.6	3.69	40.12				25 - 35	11.25	1.83	4.50g	no odor
	1st	14:35	5.93	97.7	21.3	4.04	129.6	23.75							
	2nd	14:37	5.99	102.3	21.0	4.11	147.4								
	3rd	14:40	6.06	103.5	20.8	4.15	101.2								
	4th	14:42	6.07	103.9	20.6	4.18	64.49								
	5th	14:45	6.07	103.8	20.5	4.19	48.26								
	Sampling														
MW-10	Initial	12:47	5.83	124.3	21.1	3.89	19.64				25 - 35	13.98	2.27	12.00g	no odor
	1st	12:50	6.02	126.4	25.4	4.12	64.47	21.02							
	2nd	12:52	6.08	139.2	25.0	4.20	89.62								
	3rd	12:55	6.11	140.1	24.3	4.24	101.2								
	4th	12:57	6.11	140.7	24.1	4.27	64.64								
	5th	12:59	6.12	140.9	24.1	4.27	28.46								
	Sampling														
MW-12	Initial	10:06	6.16	108.6	21.3	2.42	24.64				25 - 35	13.50	2.20	11.25	no odor
	1st	10:09	6.38	111.2	20.7	2.57	132.6	21.50							
	2nd	10:11	6.31	114.6	20.4	2.63	144.0								
	3rd	10:14	6.35	121.0	20.3	2.65	147.2								
	4th	10:18	6.39	122.2	19.9	2.65	54.06								
	5th	10:20	6.41	123.0	19.7	2.64	34.77								
	Sampling														
MW-13	Initial	9:42	7.35	124.7	20.7	3.55	56.06				25 - 35	12.09	2.11	10.75g	no odor
	1st	9:45	7.39	131.9	20.1	3.59	109.4	22.61							
	2nd	9:47	7.44	133.2	19.9	3.62	186.7								
	3rd	9:50	7.46	134.1	19.9	3.65	100.2								
	4th	9:52	7.47	135.6	19.7	3.64	64.72								
	5th	9:55	7.47	135.4	19.8	3.65	51.07								
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height

\*\* = One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: ME, JA, CH  
 Sampling Date(s): 10/13/2021  
 Sampling Case#: 1

Job Name: Interstate Truck Terminal  
 Job Number: 21-7655

Calibration Data for :  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes			
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual				
MW-14	Initial	11:32	7.09	101.6	22.3	3.58	39.81				23.21	25	11.79			no odor		
	1st	11:35	7.21	101.9	21.6	3.61	129.7											
	2nd	11:37	7.20	102.3	21.3	3.66	137.2											
	3rd	11:39	7.33	102.9	21.0	3.72	81.72											
	4th	11:41	7.35	103.7	20.8	3.74	54.24											
	5th	11:44	7.36	103.5	20.8	3.72	42.29											
	Sampling																	
MW-15	Initial	14:52	7.01	96.8	21.9	4.12	24.09				21.91	15	13.09			no odor		
	1st	14:55	7.19	98.2	21.0	4.30	63.22											
	2nd	14:57	7.25	102.6	20.7	4.34	66.91											
	3rd	15:00	7.27	105.4	20.4	4.37	29.92											
	4th	15:02	7.28	106.2	20.1	4.41	10.22											
	5th	15:04	7.29	106.0	20.0	4.40	23.91											
	Sampling																	
MW-17	Initial	14:39	6.09	98.6	23.7	4.24	24.61				22.39	15	12.61			no odor		
	1st	14:44	6.29	106.2	23.1	4.39	89.90											
	2nd	14:47	6.33	111.0	22.8	4.44	120.2											
	3rd	14:50	6.37	113.6	22.5	4.46	84.42											
	4th	14:52	6.38	113.1	22.3	4.48	39.70											
	5th	14:55	6.38	113.0	22.2	4.49	29.91											
	Sampling																	
MW-18	Initial	13:40	6.60	182.2	24.2	3.09	36.70				26.01	15	8.99			no odor		
	1st	13:42	6.69	183.4	23.5	3.16	135.2											
	2nd	13:45	6.72	199.7	23.0	3.22	141.0											
	3rd	13:47	6.75	194.3	22.7	3.25	87.64											
	4th	13:50	6.77	199.3	22.4	3.27	50.19											
	5th	13:52	6.78	199.6	22.3	3.29	42.28											
	Sampling																	

\*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

\*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251



# Monitoring Well Purge And Sampling Data

Field Personnel: ME, JA, CH  
 Sampling Date(s): 10/13/2021  
 Sampling Case#: 1

Job Name: Interstate Truck Terminal  
 Job Number: 21-7655

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH:  Yes  No  
 Conductivity:  Yes  No  
 Dissolved Oxygen:  Yes  No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-19	Initial	14:14	6.38	98.6	22.9										
	1st	14:17	6.49	106.8	22.2	3.00	41.86								
	2nd	14:20	6.52	111.2	21.7	3.42	100.5								
	3rd	14:22	6.55	113.6	21.4	3.50	124.4				15		2.19		
	4th	14:25	6.57	113.2	21.1	3.51	64.11		21.52		35	13.48	10.98	11.25	no odor
	5th	14:27	6.59	113.1	21.0	3.53	44.92								
	Sampling														
MW-20	Initial	10:36	7.11	160.8	21.3	4.68	18.24								
	1st	10:39	7.26	164.2	20.6	4.72	109.2								
	2nd	10:41	7.31	167.0	20.1	4.75	89.64								
	3rd	10:43	7.35	167.6	19.8	4.78	64.09				15		1.98		
	4th	10:45	7.38	168.0	19.6	4.79	34.26		22.82		35	12.18	4.92	9.50g	no odor
	5th	10:47	7.38	168.1	19.3	4.79	21.46								
	Sampling														
MW-21	Initial	13:40	4.63	171.7	24.2	0.89	21.22								
	1st	13:41	4.77	186.9	23.5	1.26	81.96								
	2nd	13:43	4.82	191.2	23.1	1.37	124.4								
	3rd	13:44	4.85	196.4	22.8	1.41	139.7				25		1.43		
	4th	13:45	4.86	196.2	22.5	1.42	64.42		26.17		35	8.83	7.19	7.58g	Strong odor
	5th	13:46	4.87	197.1	22.1	1.45	36.27								
	Sampling														
MW-22	Initial	13:25	4.89	136.7	22.9	1.88	19.95								
	1st	13:27	5.21	144.0	22.2	1.92	124.7								
	2nd	13:30	5.30	146.8	21.6	1.99	137.4								
	3rd	13:32	5.33	147.2	21.3	2.02	139.2				25		2.00		
	4th	13:34	5.35	147.0	21.0	2.06	141.0		22.70		35	12.30	10.02	10.25g	ODOR DYPZ
	5th	13:37	5.37	147.1	20.8	2.06	141.2								
	Sampling														

\*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: ME, JA, CH  
 Sampling Date(s): 10/13/2021  
 Sampling Case#: 1

Job Name: Interstate Truck Terminal  
 Job Number: 21-7655

**Calibration Data for:**  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Conductivity **Calibrated Every 3 Months by QA Manager**

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual		
DW-1	Initial	11:01	8.60	87.62	22.4	3.53	21.69	25.89	25.11	65	44.11	70	7.18	21.75g	no odor	
	1st	11:09	8.66	101.4	22.6	3.57	163.2									
	2nd	11:16	8.72	103.8	22.4	3.61	100.0									
	3rd	11:24	8.77	104.1	22.1	3.63	54.2									
	4th															
	5th															
	6th															
Sampling	11:24	8.61	84.6	22.3	3.51	32.64						35.94				
DW-2	Initial	12:10	7.69	64.2	23.2	4.08	19.69	23.87	22.99	65	46.13	70	7.51	38.00g	no odor	
	1st	12:18	8.31	91.6	22.7	4.15	64.64									
	2nd	12:31	8.39	96.3	22.4	4.21	61.22									
	3rd	12:38	8.41	96.9	23.6	4.02	22.23									
	4th															
	5th															
	6th															
Sampling	15:40	7.71	64.2	23.5	4.03	23.26						70	37.59			
DW-3	Initial	11:00	6.51	90.2	22.7	2.36	29.64	24.56	25.01	65	45.44	70	7.40	22.25	no odor	
	1st	11:08	7.42	96.8	22.0	2.48	106.6									
	2nd	11:16	7.51	102.4	21.7	2.56	64.95									
	3rd	11:23	7.55	102.9	21.3	2.64	71.77									
	4th															
	5th															
	6th															
Sampling	14:23	6.52	91.7	22.6	2.39	28.64						70	37.03			
DW-4	Initial	9:40	7.60	51.9	20.6	4.84	19.64	24.64	23.95	65	415.36	70	7.39	22.50	no odor	
	1st	9:48	7.81	64.7	19.2	5.21	69.97									
	2nd	10:01	7.87	66.2	18.7	5.38	102.4									
	3rd	10:08	7.92	69.0	18.3	5.41	54.24									
	4th															
	5th															
	6th															
Sampling	13:12	7.62	54.0	20.1	4.81	22.06						70	36.96			

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells, x .163 for 2" wells, or x .66 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251



# Monitoring Well Purge And Sampling Data

Field Personnel: ME, JA, CH  
 Sampling Date(s): 10/13/2021  
 Sampling Case#: 1

Job Name: Interstate Truck Terminal  
 Job Number: 21-7655

Calibration Data for :  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Yes / No  
 Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
DW-5	Initial	12:12	7.54	104.9	23.6	4.82	36.71								
	1st	12:22	7.72	111.6	22.0	4.94	96.60								
	2nd	12:31	7.84	113.2	21.5	5.02	101.6								
	3rd	12:40	7.86	114.7	21.1	5.05	124.7								
	4th								26.94	27.31	80		9-46		
	5th										85	58.00		29.0g	no odor
	Sampling	15:41	7.51	103.7	23.4	4.85	29.99						47.31		
DW-6	Initial	11:42	7.29	54.7	23.5	3.59	20.22								
	1st	11:53	7.42	59.7	23.0	4.34	124.7								
	2nd	12:04	7.49	64.2	22.4	4.46	137.0								
	3rd	12:13	7.52	66.5	22.0	4.49	89.4								
	4th								27.81	27.81	80		9-30		
	5th										85	57.11		28.0g	no odor
	Sampling	15:13	7.30	56.9	23.1	3.56	19.64						46.50		
Dup-1	Initial														
	1st	11:42	- MW-2												
Dup-2	2nd														
	3rd	13:37	- MW 22												
	4th														
FB	5th	15:10													
	Sampling														
TB	Initial														
	1st	8:00													
	2nd														
	3rd														
	4th	15:13													
	5th														
	Sampling														

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Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: ME, JA, CH  
 Sampling Date(s): 10/13/2021  
 Sampling Case#: 1

Job Name: Interstate Truck Terminal  
 Job Number: 21-7655

**Calibration Data for:**  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes / No  
 Conductivity: Yes / No  
 Dissolved Oxygen: Yes / No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
WSW-2	Initial	15:26													
	1st														
	2nd														
	3rd	15:27													
	4th														
	5th														
WSW Dup	Sampling	15:33													
WSW FR	Initial														
	1st	2:00													
	2nd														
	3rd														
	4th														
	5th														
WSW TB	Sampling														

\*= (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
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Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

October 22, 2021

Robert Dunn  
SCDHEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

Revised on 10/22/21 to correct project name as well as to add UST and CA #s to project name.

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

Sincerely,



Lindsey N Wooten  
lindsey.wooten@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.  
Kyle Pudney, Midlands Environmental Consultants, Inc.  
Matt Wykel, SCDHEC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

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### **Pace Analytical Services Charlotte**

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92567375001	MW-1	Water	10/13/21 13:33	10/15/21 08:30
92567375002	MW-2	Water	10/13/21 11:42	10/15/21 08:30
92567375003	MW-3	Water	10/13/21 13:39	10/15/21 08:30
92567375004	MW-4R	Water	10/13/21 14:13	10/15/21 08:30
92567375005	MW-5R	Water	10/13/21 12:08	10/15/21 08:30
92567375006	MW-6	Water	10/13/21 13:37	10/15/21 08:30
92567375007	MW-7	Water	10/13/21 12:56	10/15/21 08:30
92567375008	MW-8	Water	10/13/21 13:16	10/15/21 08:30
92567375009	MW-9	Water	10/13/21 14:45	10/15/21 08:30
92567375010	MW-10	Water	10/13/21 12:54	10/15/21 08:30
92567375011	MW-12	Water	10/13/21 10:20	10/15/21 08:30
92567375012	MW-13	Water	10/13/21 09:55	10/15/21 08:30
92567375013	MW-14	Water	10/13/21 11:44	10/15/21 08:30
92567375014	MW-15	Water	10/13/21 15:04	10/15/21 08:30
92567375015	MW-17	Water	10/13/21 14:55	10/15/21 08:30
92567375016	MW-18	Water	10/13/21 13:52	10/15/21 08:30
92567375017	MW-19	Water	10/13/21 14:27	10/15/21 08:30
92567375018	MW-20	Water	10/13/21 10:47	10/15/21 08:30
92567375019	MW-21	Water	10/13/21 13:46	10/15/21 08:30
92567375020	MW-22	Water	10/13/21 13:37	10/15/21 08:30
92567375021	dw-1	Water	10/13/21 14:24	10/15/21 08:30
92567375022	dw-2	Water	10/13/21 15:40	10/15/21 08:30
92567375023	dw-3	Water	10/13/21 14:23	10/15/21 08:30
92567375024	dw-4	Water	10/13/21 13:12	10/15/21 08:30
92567375025	dw-5	Water	10/13/21 15:41	10/15/21 08:30
92567375026	dw-6	Water	10/13/21 15:13	10/15/21 08:30
92567375027	DUP-1	Water	10/13/21 00:00	10/15/21 08:30
92567375028	DUP-2	Water	10/13/21 00:00	10/15/21 08:30
92567375029	FB	Water	10/13/21 15:10	10/15/21 08:30
92567375030	TB	Water	10/13/21 00:00	10/15/21 08:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92567375001	MW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375002	MW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375003	MW-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375004	MW-4R	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375005	MW-5R	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375006	MW-6	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375007	MW-7	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375008	MW-8	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375009	MW-9	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375010	MW-10	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375011	MW-12	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375012	MW-13	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375013	MW-14	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375014	MW-15	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375015	MW-17	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92567375016	MW-18	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92567375017	MW-19	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92567375018	MW-20	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92567375019	MW-21	EPA 8011	HH	2	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92567375020	MW-22	EPA 8260D	SAS	20	PASI-C
		EPA 8011	HH	2	PASI-C
92567375021	dw-1	EPA 8260D	SAS	20	PASI-C
		EPA 8011	HH	2	PASI-C
92567375022	dw-2	EPA 8260D	SAS	20	PASI-C
		EPA 8011	HH	2	PASI-C
92567375023	dw-3	EPA 8260D	SAS	20	PASI-C
		EPA 8011	HH	2	PASI-C
92567375024	dw-4	EPA 8260D	BSH	20	PASI-C
		EPA 8011	HH	2	PASI-C
92567375025	dw-5	EPA 8260D	SAS	20	PASI-C
		EPA 8011	HH	2	PASI-C
92567375026	dw-6	EPA 8260D	SAS	20	PASI-C
		EPA 8011	HH	2	PASI-C
92567375027	DUP-1	EPA 8260D	SAS	20	PASI-C
		EPA 8011	HH	2	PASI-C
92567375028	DUP-2	EPA 8260D	SAS	20	PASI-C
		EPA 8011	HH	2	PASI-C
92567375029	FB	EPA 8260D	BSH	20	PASI-C
		EPA 8011	HH	2	PASI-C
92567375030	TB	EPA 8260D	SAS	20	PASI-C
		EPA 8260D	SAS	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92567375002</b>	<b>MW-2</b>					
EPA 8260D	Ethylbenzene	1240	ug/L	62.5	10/20/21 07:42	
EPA 8260D	Naphthalene	119	ug/L	62.5	10/20/21 07:42	
EPA 8260D	Toluene	208	ug/L	62.5	10/20/21 07:42	
EPA 8260D	Xylene (Total)	3470	ug/L	62.5	10/20/21 07:42	
EPA 8260D	m&p-Xylene	3360	ug/L	125	10/20/21 07:42	
EPA 8260D	o-Xylene	105	ug/L	62.5	10/20/21 07:42	
<b>92567375003</b>	<b>MW-3</b>					
EPA 8260D	Benzene	2.7J	ug/L	5.0	10/20/21 02:35	
EPA 8260D	Ethylbenzene	94.4	ug/L	5.0	10/20/21 02:35	
EPA 8260D	Naphthalene	15.2	ug/L	5.0	10/20/21 02:35	
EPA 8260D	Toluene	23.4	ug/L	5.0	10/20/21 02:35	
EPA 8260D	Xylene (Total)	319	ug/L	5.0	10/20/21 02:35	
EPA 8260D	m&p-Xylene	212	ug/L	10.0	10/20/21 02:35	
EPA 8260D	o-Xylene	107	ug/L	5.0	10/20/21 02:35	
<b>92567375004</b>	<b>MW-4R</b>					
EPA 8260D	Ethylbenzene	33.6	ug/L	5.0	10/20/21 16:08	
EPA 8260D	Naphthalene	12.1	ug/L	5.0	10/20/21 16:08	
EPA 8260D	Toluene	4.4J	ug/L	5.0	10/20/21 16:08	
EPA 8260D	Xylene (Total)	276	ug/L	5.0	10/20/21 16:08	
EPA 8260D	m&p-Xylene	267	ug/L	10.0	10/20/21 16:08	
EPA 8260D	o-Xylene	8.6	ug/L	5.0	10/20/21 16:08	
<b>92567375005</b>	<b>MW-5R</b>					
EPA 8260D	Ethylbenzene	13.6	ug/L	5.0	10/20/21 02:53	
EPA 8260D	Naphthalene	18.9	ug/L	5.0	10/20/21 02:53	
EPA 8260D	Xylene (Total)	7.6	ug/L	5.0	10/20/21 02:53	
EPA 8260D	m&p-Xylene	7.6J	ug/L	10.0	10/20/21 02:53	
<b>92567375006</b>	<b>MW-6</b>					
EPA 8260D	Benzene	19.2J	ug/L	20.0	10/20/21 19:25	
EPA 8260D	Ethylbenzene	156	ug/L	20.0	10/20/21 19:25	
EPA 8260D	Naphthalene	108	ug/L	20.0	10/20/21 19:25	
EPA 8260D	Toluene	9.9J	ug/L	20.0	10/20/21 19:25	
EPA 8260D	Xylene (Total)	805	ug/L	20.0	10/20/21 19:25	
EPA 8260D	m&p-Xylene	805	ug/L	40.0	10/20/21 19:25	
<b>92567375009</b>	<b>MW-9</b>					
EPA 8260D	Ethylbenzene	5.6	ug/L	5.0	10/20/21 16:26	
EPA 8260D	Naphthalene	10.2	ug/L	5.0	10/20/21 16:26	
EPA 8260D	Xylene (Total)	8.8	ug/L	5.0	10/20/21 16:26	
EPA 8260D	m&p-Xylene	8.8J	ug/L	10.0	10/20/21 16:26	
<b>92567375011</b>	<b>MW-12</b>					
EPA 8260D	Toluene	23.5	ug/L	5.0	10/20/21 04:05	
<b>92567375013</b>	<b>MW-14</b>					
EPA 8260D	Benzene	3.9J	ug/L	10.0	10/22/21 08:21	
EPA 8260D	Ethylbenzene	278	ug/L	10.0	10/22/21 08:21	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92567375013</b>	<b>MW-14</b>					
EPA 8260D	Naphthalene	47.3	ug/L	10.0	10/22/21 08:21	
EPA 8260D	Toluene	38.0	ug/L	10.0	10/22/21 08:21	
EPA 8260D	Xylene (Total)	677	ug/L	10.0	10/22/21 08:21	
EPA 8260D	m&p-Xylene	677	ug/L	20.0	10/22/21 08:21	
<b>92567375019</b>	<b>MW-21</b>					
EPA 8260D	Ethylbenzene	70.0	ug/L	5.0	10/19/21 17:50	
EPA 8260D	Naphthalene	26.7	ug/L	5.0	10/19/21 17:50	
EPA 8260D	Toluene	24.9	ug/L	5.0	10/19/21 17:50	
EPA 8260D	Xylene (Total)	403	ug/L	5.0	10/19/21 17:50	
EPA 8260D	m&p-Xylene	305	ug/L	10.0	10/19/21 17:50	
EPA 8260D	o-Xylene	98.0	ug/L	5.0	10/19/21 17:50	
<b>92567375020</b>	<b>MW-22</b>					
EPA 8260D	Ethylbenzene	893	ug/L	62.5	10/19/21 20:51	
EPA 8260D	Naphthalene	339	ug/L	62.5	10/19/21 20:51	
EPA 8260D	Toluene	57.7J	ug/L	62.5	10/19/21 20:51	
EPA 8260D	Xylene (Total)	3440	ug/L	62.5	10/19/21 20:51	
EPA 8260D	m&p-Xylene	3440	ug/L	125	10/19/21 20:51	
<b>92567375027</b>	<b>DUP-1</b>					
EPA 8260D	Ethylbenzene	1330	ug/L	62.5	10/19/21 21:09	
EPA 8260D	Naphthalene	145	ug/L	62.5	10/19/21 21:09	
EPA 8260D	Toluene	231	ug/L	62.5	10/19/21 21:09	
EPA 8260D	Xylene (Total)	4080	ug/L	62.5	10/19/21 21:09	
EPA 8260D	m&p-Xylene	3970	ug/L	125	10/19/21 21:09	
EPA 8260D	o-Xylene	105	ug/L	62.5	10/19/21 21:09	
<b>92567375028</b>	<b>DUP-2</b>					
EPA 8260D	Ethylbenzene	794	ug/L	62.5	10/20/21 20:19	
EPA 8260D	Naphthalene	308	ug/L	62.5	10/20/21 20:19	
EPA 8260D	Toluene	48.9J	ug/L	62.5	10/20/21 20:19	
EPA 8260D	Xylene (Total)	2860	ug/L	62.5	10/20/21 20:19	
EPA 8260D	m&p-Xylene	2860	ug/L	125	10/20/21 20:19	

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## PROJECT NARRATIVE

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

---

**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** October 22, 2021

### General Information:

29 samples were analyzed for EPA 8011 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 653826

R1: RPD value was outside control limits.

- LCSD (Lab ID: 3428387)
- 1,2-Dibromoethane (EDB)

### Matrix Spikes:

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

### Duplicate Sample:

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

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

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**Method:** EPA 8260D

**Description:** 8260 MSV

**Client:** SCDHEC

**Date:** October 22, 2021

### General Information:

30 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 654447

IK: The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

- BLANK (Lab ID: 3431576)
  - tert-Butyl Alcohol
- LCS (Lab ID: 3431577)
  - tert-Butyl Alcohol
- MS (Lab ID: 3431578)
  - tert-Butyl Alcohol
- MSD (Lab ID: 3431579)
  - tert-Butyl Alcohol
- MW-14 (Lab ID: 92567375013)
  - tert-Butyl Alcohol

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 654055

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- MS (Lab ID: 3429426)
  - tert-Butyl Formate
- MSD (Lab ID: 3429427)
  - tert-Butyl Formate

QC Batch: 654447

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 3431576)
  - tert-Butyl Formate
- MW-14 (Lab ID: 92567375013)
  - tert-Butyl Formate

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- LCS (Lab ID: 3431577)
  - tert-Butyl Formate

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## PROJECT NARRATIVE

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

---

**Method:** EPA 8260D  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** October 22, 2021

QC Batch: 654447

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- MS (Lab ID: 3431578)
  - tert-Butyl Formate
- MSD (Lab ID: 3431579)
  - tert-Butyl Formate

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

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

QC Batch: 653834

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92567221020

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

- MS (Lab ID: 3428454)
  - Methyl-tert-butyl ether
- MSD (Lab ID: 3428455)
  - Ethylbenzene
  - Methyl-tert-butyl ether
  - Toluene
  - tert-Amyl Alcohol
  - tert-Butyl Alcohol

QC Batch: 654447

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92567797010

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

- MS (Lab ID: 3431578)
  - Benzene
- MSD (Lab ID: 3431579)
  - Benzene

### Additional Comments:

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## PROJECT NARRATIVE

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

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**Method:** EPA 8260D

**Description:** 8260 MSV

**Client:** SCDHEC

**Date:** October 22, 2021

Analyte Comments:

QC Batch: 653834

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3428454)
  - Methyl-tert-butyl ether
- MSD (Lab ID: 3428455)
  - Methyl-tert-butyl ether

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

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

**Sample: MW-1**      **Lab ID: 92567375001**      Collected: 10/13/21 13:33      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0077	1	10/19/21 15:16	10/19/21 16:29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	71	%	60-140		1	10/19/21 15:16	10/19/21 16:29	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 02:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 02:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 02:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 02:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 02:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 02:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 02:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 02:17	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/20/21 02:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/20/21 02:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 02:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 02:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/20/21 02:17	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 02:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/20/21 02:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/20/21 02:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 02:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/20/21 02:17	460-00-4	
1,2-Dichloroethane-d4 (S)	83	%	70-130		1		10/20/21 02:17	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/20/21 02:17	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

Sample: MW-2		Lab ID: 92567375002		Collected: 10/13/21 11:42		Received: 10/15/21 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/19/21 15:16	10/19/21 17:00	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	10/19/21 15:16	10/19/21 17:00	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	1250	820	12.5		10/20/21 07:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	38.0	12.5		10/20/21 07:42	994-05-8	
Benzene	ND	ug/L	62.5	21.8	12.5		10/20/21 07:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	674	12.5		10/20/21 07:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	1140	12.5		10/20/21 07:42	75-65-0	
tert-Butyl Formate	ND	ug/L	625	301	12.5		10/20/21 07:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	25.8	12.5		10/20/21 07:42	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	43.6	12.5		10/20/21 07:42	108-20-3	
Ethanol	ND	ug/L	2500	1800	12.5		10/20/21 07:42	64-17-5	
Ethylbenzene	<b>1240</b>	ug/L	62.5	23.0	12.5		10/20/21 07:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	106	12.5		10/20/21 07:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	38.8	12.5		10/20/21 07:42	1634-04-4	
Naphthalene	<b>119</b>	ug/L	62.5	26.1	12.5		10/20/21 07:42	91-20-3	
Toluene	<b>208</b>	ug/L	62.5	25.1	12.5		10/20/21 07:42	108-88-3	
Xylene (Total)	<b>3470</b>	ug/L	62.5	62.5	12.5		10/20/21 07:42	1330-20-7	
m&p-Xylene	<b>3360</b>	ug/L	125	51.4	12.5		10/20/21 07:42	179601-23-1	
o-Xylene	<b>105</b>	ug/L	62.5	25.5	12.5		10/20/21 07:42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		12.5		10/20/21 07:42	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		12.5		10/20/21 07:42	17060-07-0	
Toluene-d8 (S)	101	%	70-130		12.5		10/20/21 07:42	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-3		Lab ID: 92567375003		Collected: 10/13/21 13:39	Received: 10/15/21 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0079	1	10/20/21 10:51	10/20/21 15:36	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	10/20/21 10:51	10/20/21 15:36	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 02:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 02:35	994-05-8	
Benzene	<b>2.7J</b>	ug/L	5.0	1.7	1		10/20/21 02:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 02:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 02:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 02:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 02:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 02:35	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/20/21 02:35	64-17-5	
Ethylbenzene	<b>94.4</b>	ug/L	5.0	1.8	1		10/20/21 02:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 02:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 02:35	1634-04-4	
Naphthalene	<b>15.2</b>	ug/L	5.0	2.1	1		10/20/21 02:35	91-20-3	
Toluene	<b>23.4</b>	ug/L	5.0	2.0	1		10/20/21 02:35	108-88-3	
Xylene (Total)	<b>319</b>	ug/L	5.0	5.0	1		10/20/21 02:35	1330-20-7	
m&p-Xylene	<b>212</b>	ug/L	10.0	4.1	1		10/20/21 02:35	179601-23-1	
o-Xylene	<b>107</b>	ug/L	5.0	2.0	1		10/20/21 02:35	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/20/21 02:35	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/20/21 02:35	17060-07-0	
Toluene-d8 (S)	92	%	70-130		1		10/20/21 02:35	2037-26-5	

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## ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-4R		Lab ID: 92567375004		Collected: 10/13/21 14:13	Received: 10/15/21 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/20/21 10:51	10/20/21 15:47	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	10/20/21 10:51	10/20/21 15:47	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 16:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 16:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 16:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 16:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 16:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 16:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 16:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 16:08	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/20/21 16:08	64-17-5	
Ethylbenzene	33.6	ug/L	5.0	1.8	1		10/20/21 16:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 16:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 16:08	1634-04-4	
Naphthalene	12.1	ug/L	5.0	2.1	1		10/20/21 16:08	91-20-3	
Toluene	4.4J	ug/L	5.0	2.0	1		10/20/21 16:08	108-88-3	
Xylene (Total)	276	ug/L	5.0	5.0	1		10/20/21 16:08	1330-20-7	
m&p-Xylene	267	ug/L	10.0	4.1	1		10/20/21 16:08	179601-23-1	
o-Xylene	8.6	ug/L	5.0	2.0	1		10/20/21 16:08	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/20/21 16:08	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/20/21 16:08	17060-07-0	
Toluene-d8 (S)	91	%	70-130		1		10/20/21 16:08	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-5R		Lab ID: 92567375005		Collected: 10/13/21 12:08	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0079	1	10/20/21 10:51	10/20/21 15:57	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	85	%	60-140		1	10/20/21 10:51	10/20/21 15:57	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 02:53	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 02:53	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 02:53	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 02:53	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 02:53	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 02:53	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 02:53	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 02:53	108-20-3		
Ethanol	ND	ug/L	200	144	1		10/20/21 02:53	64-17-5		
Ethylbenzene	13.6	ug/L	5.0	1.8	1		10/20/21 02:53	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 02:53	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 02:53	1634-04-4		
Naphthalene	18.9	ug/L	5.0	2.1	1		10/20/21 02:53	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 02:53	108-88-3		
Xylene (Total)	7.6	ug/L	5.0	5.0	1		10/20/21 02:53	1330-20-7		
m&p-Xylene	7.6J	ug/L	10.0	4.1	1		10/20/21 02:53	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 02:53	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	96	%	70-130		1		10/20/21 02:53	460-00-4		
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		10/20/21 02:53	17060-07-0		
Toluene-d8 (S)	94	%	70-130		1		10/20/21 02:53	2037-26-5		

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-6		Lab ID: 92567375006		Collected: 10/13/21 13:37	Received: 10/15/21 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0079	1	10/20/21 10:51	10/20/21 16:08	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	10/20/21 10:51	10/20/21 16:08	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	400	262	4		10/20/21 19:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	40.0	12.2	4		10/20/21 19:25	994-05-8	
Benzene	<b>19.2J</b>	ug/L	20.0	7.0	4		10/20/21 19:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	400	216	4		10/20/21 19:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	400	364	4		10/20/21 19:25	75-65-0	
tert-Butyl Formate	ND	ug/L	200	96.4	4		10/20/21 19:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	20.0	8.2	4		10/20/21 19:25	107-06-2	
Diisopropyl ether	ND	ug/L	20.0	14.0	4		10/20/21 19:25	108-20-3	
Ethanol	ND	ug/L	800	576	4		10/20/21 19:25	64-17-5	
Ethylbenzene	<b>156</b>	ug/L	20.0	7.4	4		10/20/21 19:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	40.0	33.8	4		10/20/21 19:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	20.0	12.4	4		10/20/21 19:25	1634-04-4	
Naphthalene	<b>108</b>	ug/L	20.0	8.4	4		10/20/21 19:25	91-20-3	
Toluene	<b>9.9J</b>	ug/L	20.0	8.0	4		10/20/21 19:25	108-88-3	
Xylene (Total)	<b>805</b>	ug/L	20.0	20.0	4		10/20/21 19:25	1330-20-7	
m&p-Xylene	<b>805</b>	ug/L	40.0	16.4	4		10/20/21 19:25	179601-23-1	
o-Xylene	ND	ug/L	20.0	8.2	4		10/20/21 19:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		4		10/20/21 19:25	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		4		10/20/21 19:25	17060-07-0	
Toluene-d8 (S)	103	%	70-130		4		10/20/21 19:25	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

**Sample: MW-7**      **Lab ID: 92567375007**      Collected: 10/13/21 12:56      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0079	1	10/20/21 10:51	10/20/21 16:18	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	10/20/21 10:51	10/20/21 16:18	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 03:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 03:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 03:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 03:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 03:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 03:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 03:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 03:11	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/20/21 03:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/20/21 03:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 03:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 03:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/20/21 03:11	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 03:11	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/20/21 03:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/20/21 03:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 03:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/20/21 03:11	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		10/20/21 03:11	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		10/20/21 03:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-8		Lab ID: 92567375008		Collected: 10/13/21 13:16	Received: 10/15/21 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/20/21 10:51	10/20/21 16:29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	10/20/21 10:51	10/20/21 16:29	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 03:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 03:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 03:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 03:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 03:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 03:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 03:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 03:29	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/20/21 03:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/20/21 03:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 03:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 03:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/20/21 03:29	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 03:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/20/21 03:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/20/21 03:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 03:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/20/21 03:29	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		10/20/21 03:29	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		10/20/21 03:29	2037-26-5	

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## ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-9		Lab ID: 92567375009		Collected: 10/13/21 14:45	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0081	1	10/20/21 10:51	10/20/21 16:39	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	95	%	60-140		1	10/20/21 10:51	10/20/21 16:39	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 16:26	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 16:26	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 16:26	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 16:26	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 16:26	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 16:26	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 16:26	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 16:26	108-20-3		
Ethanol	ND	ug/L	200	144	1		10/20/21 16:26	64-17-5		
Ethylbenzene	5.6	ug/L	5.0	1.8	1		10/20/21 16:26	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 16:26	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 16:26	1634-04-4		
Naphthalene	10.2	ug/L	5.0	2.1	1		10/20/21 16:26	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 16:26	108-88-3		
Xylene (Total)	8.8	ug/L	5.0	5.0	1		10/20/21 16:26	1330-20-7		
m&p-Xylene	8.8J	ug/L	10.0	4.1	1		10/20/21 16:26	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 16:26	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	98	%	70-130		1		10/20/21 16:26	460-00-4		
1,2-Dichloroethane-d4 (S)	81	%	70-130		1		10/20/21 16:26	17060-07-0		
Toluene-d8 (S)	105	%	70-130		1		10/20/21 16:26	2037-26-5		

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-10		Lab ID: 92567375010		Collected: 10/13/21 12:54	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/20/21 10:51	10/20/21 16:50	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	90	%	60-140		1	10/20/21 10:51	10/20/21 16:50	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 03:47	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 03:47	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 03:47	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 03:47	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 03:47	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 03:47	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 03:47	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 03:47	108-20-3		
Ethanol	ND	ug/L	200	144	1		10/20/21 03:47	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/20/21 03:47	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 03:47	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 03:47	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.1	1		10/20/21 03:47	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 03:47	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/20/21 03:47	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/20/21 03:47	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 03:47	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	92	%	70-130		1		10/20/21 03:47	460-00-4		
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		10/20/21 03:47	17060-07-0		
Toluene-d8 (S)	105	%	70-130		1		10/20/21 03:47	2037-26-5		

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-12		Lab ID: 92567375011		Collected: 10/13/21 10:20	Received: 10/15/21 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0078	1	10/20/21 10:51	10/20/21 17:00	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	10/20/21 10:51	10/20/21 17:00	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 04:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 04:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 04:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 04:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 04:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 04:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 04:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 04:05	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/20/21 04:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/20/21 04:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 04:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 04:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/20/21 04:05	91-20-3	
Toluene	23.5	ug/L	5.0	2.0	1		10/20/21 04:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/20/21 04:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/20/21 04:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 04:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/20/21 04:05	460-00-4	
1,2-Dichloroethane-d4 (S)	83	%	70-130		1		10/20/21 04:05	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/20/21 04:05	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

**Sample: MW-13**      **Lab ID: 92567375012**      Collected: 10/13/21 09:55      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0083	1	10/20/21 10:51	10/20/21 17:11	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	10/20/21 10:51	10/20/21 17:11	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 04:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 04:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 04:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 04:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 04:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 04:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 04:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 04:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/20/21 04:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/20/21 04:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 04:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 04:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/20/21 04:23	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 04:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/20/21 04:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/20/21 04:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 04:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/20/21 04:23	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		1		10/20/21 04:23	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/20/21 04:23	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-14		Lab ID: 92567375013		Collected: 10/13/21 11:44	Received: 10/15/21 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0082	1	10/20/21 10:51	10/20/21 17:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	10/20/21 10:51	10/20/21 17:21	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	200	131	2		10/22/21 08:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		10/22/21 08:21	994-05-8	
Benzene	<b>3.9J</b>	ug/L	10.0	3.5	2		10/22/21 08:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		10/22/21 08:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		10/22/21 08:21	75-65-0	IK
tert-Butyl Formate	ND	ug/L	100	48.2	2		10/22/21 08:21	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		10/22/21 08:21	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		10/22/21 08:21	108-20-3	
Ethanol	ND	ug/L	400	288	2		10/22/21 08:21	64-17-5	
Ethylbenzene	<b>278</b>	ug/L	10.0	3.7	2		10/22/21 08:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		10/22/21 08:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		10/22/21 08:21	1634-04-4	
Naphthalene	<b>47.3</b>	ug/L	10.0	4.2	2		10/22/21 08:21	91-20-3	
Toluene	<b>38.0</b>	ug/L	10.0	4.0	2		10/22/21 08:21	108-88-3	
Xylene (Total)	<b>677</b>	ug/L	10.0	10.0	2		10/22/21 08:21	1330-20-7	
m&p-Xylene	<b>677</b>	ug/L	20.0	8.2	2		10/22/21 08:21	179601-23-1	
o-Xylene	ND	ug/L	10.0	4.1	2		10/22/21 08:21	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		2		10/22/21 08:21	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		2		10/22/21 08:21	17060-07-0	
Toluene-d8 (S)	104	%	70-130		2		10/22/21 08:21	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-15		Lab ID: 92567375014		Collected: 10/13/21 15:04	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0079	1	10/20/21 10:51	10/20/21 17:32	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	92	%	60-140		1	10/20/21 10:51	10/20/21 17:32	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 04:41	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 04:41	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 04:41	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 04:41	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 04:41	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 04:41	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 04:41	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 04:41	108-20-3		
Ethanol	ND	ug/L	200	144	1		10/20/21 04:41	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/20/21 04:41	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 04:41	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 04:41	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.1	1		10/20/21 04:41	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 04:41	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/20/21 04:41	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/20/21 04:41	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 04:41	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	92	%	70-130		1		10/20/21 04:41	460-00-4		
1,2-Dichloroethane-d4 (S)	81	%	70-130		1		10/20/21 04:41	17060-07-0		
Toluene-d8 (S)	109	%	70-130		1		10/20/21 04:41	2037-26-5		

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-17		Lab ID: 92567375015		Collected: 10/13/21 14:55	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0079	1	10/20/21 10:51	10/20/21 17:42	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	86	%	60-140		1	10/20/21 10:51	10/20/21 17:42	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 16:55	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 16:55	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 16:55	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 16:55	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 16:55	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 16:55	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 16:55	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 16:55	108-20-3		
Ethanol	ND	ug/L	200	144	1		10/19/21 16:55	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/19/21 16:55	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 16:55	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 16:55	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.1	1		10/19/21 16:55	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		10/19/21 16:55	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/19/21 16:55	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/19/21 16:55	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		10/19/21 16:55	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	100	%	70-130		1		10/19/21 16:55	460-00-4		
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/19/21 16:55	17060-07-0		
Toluene-d8 (S)	106	%	70-130		1		10/19/21 16:55	2037-26-5		

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

**Sample: MW-18**      **Lab ID: 92567375016**      Collected: 10/13/21 13:52      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0079	1	10/20/21 10:51	10/20/21 17:53	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	10/20/21 10:51	10/20/21 17:53	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 17:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 17:13	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 17:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 17:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 17:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 17:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 17:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 17:13	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/19/21 17:13	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/19/21 17:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 17:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 17:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/19/21 17:13	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/19/21 17:13	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/19/21 17:13	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/19/21 17:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/19/21 17:13	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/19/21 17:13	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/19/21 17:13	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/19/21 17:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

**Sample: MW-19**      **Lab ID: 92567375017**      Collected: 10/13/21 14:27      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/20/21 10:51	10/20/21 18:03	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	10/20/21 10:51	10/20/21 18:03	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 16:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 16:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 16:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 16:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 16:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 16:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 16:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 16:44	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/20/21 16:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/20/21 16:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 16:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 16:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/20/21 16:44	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 16:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/20/21 16:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/20/21 16:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 16:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/20/21 16:44	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		10/20/21 16:44	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/20/21 16:44	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: MW-20		Lab ID: 92567375018		Collected: 10/13/21 10:47	Received: 10/15/21 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/20/21 10:51	10/20/21 18:13	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	88	%	60-140		1	10/20/21 10:51	10/20/21 18:13	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 17:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 17:31	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 17:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 17:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 17:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 17:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 17:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 17:31	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/19/21 17:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/19/21 17:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 17:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 17:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/19/21 17:31	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/19/21 17:31	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/19/21 17:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/19/21 17:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/19/21 17:31	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/19/21 17:31	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/19/21 17:31	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/19/21 17:31	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

**Sample: MW-21**      **Lab ID: 92567375019**      Collected: 10/13/21 13:46      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0077	1	10/20/21 10:51	10/20/21 18:24	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	10/20/21 10:51	10/20/21 18:24	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 17:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 17:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 17:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 17:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 17:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 17:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 17:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 17:50	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/19/21 17:50	64-17-5	
Ethylbenzene	<b>70.0</b>	ug/L	5.0	1.8	1		10/19/21 17:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 17:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 17:50	1634-04-4	
Naphthalene	<b>26.7</b>	ug/L	5.0	2.1	1		10/19/21 17:50	91-20-3	
Toluene	<b>24.9</b>	ug/L	5.0	2.0	1		10/19/21 17:50	108-88-3	
Xylene (Total)	<b>403</b>	ug/L	5.0	5.0	1		10/19/21 17:50	1330-20-7	
m&p-Xylene	<b>305</b>	ug/L	10.0	4.1	1		10/19/21 17:50	179601-23-1	
o-Xylene	<b>98.0</b>	ug/L	5.0	2.0	1		10/19/21 17:50	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/19/21 17:50	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/19/21 17:50	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/19/21 17:50	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

**Sample: MW-22**      **Lab ID: 92567375020**      Collected: 10/13/21 13:37      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0086	1	10/20/21 10:51	10/20/21 18:34	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	10/20/21 10:51	10/20/21 18:34	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	1250	820	12.5		10/19/21 20:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	38.0	12.5		10/19/21 20:51	994-05-8	
Benzene	ND	ug/L	62.5	21.8	12.5		10/19/21 20:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	674	12.5		10/19/21 20:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	1140	12.5		10/19/21 20:51	75-65-0	
tert-Butyl Formate	ND	ug/L	625	301	12.5		10/19/21 20:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	25.8	12.5		10/19/21 20:51	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	43.6	12.5		10/19/21 20:51	108-20-3	
Ethanol	ND	ug/L	2500	1800	12.5		10/19/21 20:51	64-17-5	
Ethylbenzene	<b>893</b>	ug/L	62.5	23.0	12.5		10/19/21 20:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	106	12.5		10/19/21 20:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	38.8	12.5		10/19/21 20:51	1634-04-4	
Naphthalene	<b>339</b>	ug/L	62.5	26.1	12.5		10/19/21 20:51	91-20-3	
Toluene	<b>57.7J</b>	ug/L	62.5	25.1	12.5		10/19/21 20:51	108-88-3	
Xylene (Total)	<b>3440</b>	ug/L	62.5	62.5	12.5		10/19/21 20:51	1330-20-7	
m&p-Xylene	<b>3440</b>	ug/L	125	51.4	12.5		10/19/21 20:51	179601-23-1	
o-Xylene	ND	ug/L	62.5	25.5	12.5		10/19/21 20:51	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		12.5		10/19/21 20:51	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		12.5		10/19/21 20:51	17060-07-0	
Toluene-d8 (S)	104	%	70-130		12.5		10/19/21 20:51	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: dw-1		Lab ID: 92567375021		Collected: 10/13/21 14:24	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/20/21 10:51	10/20/21 19:27	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	103	%	60-140		1	10/20/21 10:51	10/20/21 19:27	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 18:08	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 18:08	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 18:08	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 18:08	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 18:08	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 18:08	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 18:08	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 18:08	108-20-3		
Ethanol	ND	ug/L	200	144	1		10/19/21 18:08	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/19/21 18:08	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 18:08	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 18:08	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.1	1		10/19/21 18:08	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		10/19/21 18:08	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/19/21 18:08	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/19/21 18:08	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		10/19/21 18:08	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	99	%	70-130		1		10/19/21 18:08	460-00-4		
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/19/21 18:08	17060-07-0		
Toluene-d8 (S)	108	%	70-130		1		10/19/21 18:08	2037-26-5		

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: dw-2		Lab ID: 92567375022		Collected: 10/13/21 15:40	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0081	1	10/20/21 10:51	10/20/21 19:48	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	99	%	60-140		1	10/20/21 10:51	10/20/21 19:48	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 18:26	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 18:26	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 18:26	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 18:26	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 18:26	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 18:26	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 18:26	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 18:26	108-20-3		
Ethanol	ND	ug/L	200	144	1		10/19/21 18:26	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/19/21 18:26	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 18:26	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 18:26	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.1	1		10/19/21 18:26	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		10/19/21 18:26	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/19/21 18:26	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/19/21 18:26	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		10/19/21 18:26	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	98	%	70-130		1		10/19/21 18:26	460-00-4		
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/19/21 18:26	17060-07-0		
Toluene-d8 (S)	105	%	70-130		1		10/19/21 18:26	2037-26-5		

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: dw-3		Lab ID: 92567375023		Collected: 10/13/21 14:23	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0081	1	10/20/21 10:51	10/20/21 20:20	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	88	%	60-140		1	10/20/21 10:51	10/20/21 20:20	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 17:02	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 17:02	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 17:02	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 17:02	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 17:02	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 17:02	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 17:02	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 17:02	108-20-3		
Ethanol	ND	ug/L	200	144	1		10/20/21 17:02	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/20/21 17:02	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 17:02	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 17:02	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.1	1		10/20/21 17:02	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 17:02	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/20/21 17:02	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/20/21 17:02	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 17:02	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	92	%	70-130		1		10/20/21 17:02	460-00-4		
1,2-Dichloroethane-d4 (S)	82	%	70-130		1		10/20/21 17:02	17060-07-0		
Toluene-d8 (S)	102	%	70-130		1		10/20/21 17:02	2037-26-5		

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

**Sample: dw-4**      **Lab ID: 92567375024**      Collected: 10/13/21 13:12      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/20/21 10:51	10/20/21 20:30	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	83	%	60-140		1	10/20/21 10:51	10/20/21 20:30	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 18:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 18:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 18:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 18:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 18:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 18:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 18:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 18:44	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/19/21 18:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/19/21 18:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 18:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 18:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/19/21 18:44	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/19/21 18:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/19/21 18:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/19/21 18:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/19/21 18:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/19/21 18:44	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/19/21 18:44	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/19/21 18:44	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: dw-5		Lab ID: 92567375025		Collected: 10/13/21 15:41	Received: 10/15/21 08:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/20/21 10:51	10/20/21 20:41	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	10/20/21 10:51	10/20/21 20:41	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 19:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 19:02	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 19:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 19:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 19:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 19:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 19:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 19:02	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/19/21 19:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/19/21 19:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 19:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 19:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/19/21 19:02	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/19/21 19:02	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/19/21 19:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/19/21 19:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/19/21 19:02	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/19/21 19:02	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/19/21 19:02	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/19/21 19:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: dw-6		Lab ID: 92567375026		Collected: 10/13/21 15:13		Received: 10/15/21 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0078	1	10/20/21 10:51	10/20/21 20:51	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	87	%	60-140		1	10/20/21 10:51	10/20/21 20:51	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 19:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 19:20	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 19:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 19:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 19:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 19:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 19:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 19:20	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/19/21 19:20	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/19/21 19:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 19:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 19:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/19/21 19:20	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/19/21 19:20	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/19/21 19:20	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/19/21 19:20	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/19/21 19:20	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/19/21 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/19/21 19:20	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/19/21 19:20	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

**Sample: DUP-1**      **Lab ID: 92567375027**      Collected: 10/13/21 00:00      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0078	1	10/20/21 10:51	10/20/21 21:02	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	10/20/21 10:51	10/20/21 21:02	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	1250	820	12.5		10/19/21 21:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	38.0	12.5		10/19/21 21:09	994-05-8	
Benzene	ND	ug/L	62.5	21.8	12.5		10/19/21 21:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	674	12.5		10/19/21 21:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	1140	12.5		10/19/21 21:09	75-65-0	
tert-Butyl Formate	ND	ug/L	625	301	12.5		10/19/21 21:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	25.8	12.5		10/19/21 21:09	107-06-2	
Diisopropyl ether	ND	ug/L	62.5	43.6	12.5		10/19/21 21:09	108-20-3	
Ethanol	ND	ug/L	2500	1800	12.5		10/19/21 21:09	64-17-5	
Ethylbenzene	<b>1330</b>	ug/L	62.5	23.0	12.5		10/19/21 21:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	106	12.5		10/19/21 21:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	38.8	12.5		10/19/21 21:09	1634-04-4	
Naphthalene	<b>145</b>	ug/L	62.5	26.1	12.5		10/19/21 21:09	91-20-3	
Toluene	<b>231</b>	ug/L	62.5	25.1	12.5		10/19/21 21:09	108-88-3	
Xylene (Total)	<b>4080</b>	ug/L	62.5	62.5	12.5		10/19/21 21:09	1330-20-7	
m&p-Xylene	<b>3970</b>	ug/L	125	51.4	12.5		10/19/21 21:09	179601-23-1	
o-Xylene	<b>105</b>	ug/L	62.5	25.5	12.5		10/19/21 21:09	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		12.5		10/19/21 21:09	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		12.5		10/19/21 21:09	17060-07-0	
Toluene-d8 (S)	103	%	70-130		12.5		10/19/21 21:09	2037-26-5	

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

Sample: DUP-2		Lab ID: 92567375028		Collected: 10/13/21 00:00	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/20/21 10:51	10/20/21 21:12	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	91	%	60-140		1	10/20/21 10:51	10/20/21 21:12	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	1250	820	12.5		10/20/21 20:19	75-85-4		
tert-Amylmethyl ether	ND	ug/L	125	38.0	12.5		10/20/21 20:19	994-05-8		
Benzene	ND	ug/L	62.5	21.8	12.5		10/20/21 20:19	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	674	12.5		10/20/21 20:19	624-95-3		
tert-Butyl Alcohol	ND	ug/L	1250	1140	12.5		10/20/21 20:19	75-65-0		
tert-Butyl Formate	ND	ug/L	625	301	12.5		10/20/21 20:19	762-75-4		
1,2-Dichloroethane	ND	ug/L	62.5	25.8	12.5		10/20/21 20:19	107-06-2		
Diisopropyl ether	ND	ug/L	62.5	43.6	12.5		10/20/21 20:19	108-20-3		
Ethanol	ND	ug/L	2500	1800	12.5		10/20/21 20:19	64-17-5		
Ethylbenzene	<b>794</b>	ug/L	62.5	23.0	12.5		10/20/21 20:19	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	125	106	12.5		10/20/21 20:19	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	62.5	38.8	12.5		10/20/21 20:19	1634-04-4		
Naphthalene	<b>308</b>	ug/L	62.5	26.1	12.5		10/20/21 20:19	91-20-3		
Toluene	<b>48.9J</b>	ug/L	62.5	25.1	12.5		10/20/21 20:19	108-88-3		
Xylene (Total)	<b>2860</b>	ug/L	62.5	62.5	12.5		10/20/21 20:19	1330-20-7		
m&p-Xylene	<b>2860</b>	ug/L	125	51.4	12.5		10/20/21 20:19	179601-23-1		
o-Xylene	ND	ug/L	62.5	25.5	12.5		10/20/21 20:19	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	93	%	70-130		12.5		10/20/21 20:19	460-00-4		
1,2-Dichloroethane-d4 (S)	88	%	70-130		12.5		10/20/21 20:19	17060-07-0		
Toluene-d8 (S)	102	%	70-130		12.5		10/20/21 20:19	2037-26-5		

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Sample: <b>FB</b>		Lab ID: <b>92567375029</b>		Collected: 10/13/21 15:10	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0079	1	10/20/21 10:51	10/20/21 21:23	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	93	%	60-140		1	10/20/21 10:51	10/20/21 21:23	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 16:19	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 16:19	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 16:19	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 16:19	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 16:19	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 16:19	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 16:19	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 16:19	108-20-3		
Ethanol	ND	ug/L	200	144	1		10/19/21 16:19	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/19/21 16:19	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 16:19	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 16:19	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.1	1		10/19/21 16:19	91-20-3		
Toluene	ND	ug/L	5.0	2.0	1		10/19/21 16:19	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/19/21 16:19	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/19/21 16:19	179601-23-1		
o-Xylene	ND	ug/L	5.0	2.0	1		10/19/21 16:19	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	99	%	70-130		1		10/19/21 16:19	460-00-4		
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/19/21 16:19	17060-07-0		
Toluene-d8 (S)	104	%	70-130		1		10/19/21 16:19	2037-26-5		

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### ANALYTICAL RESULTS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

**Sample: TB**      **Lab ID: 92567375030**      Collected: 10/13/21 00:00      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/19/21 16:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/19/21 16:37	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/19/21 16:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/19/21 16:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/19/21 16:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/19/21 16:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/19/21 16:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/19/21 16:37	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/19/21 16:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/19/21 16:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/19/21 16:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/19/21 16:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/19/21 16:37	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/19/21 16:37	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/19/21 16:37	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/19/21 16:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/19/21 16:37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/19/21 16:37	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/19/21 16:37	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/19/21 16:37	2037-26-5	

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

QC Batch: 653799 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92567375001, 92567375002, 92567375003, 92567375005, 92567375007, 92567375008, 92567375010, 92567375011, 92567375012, 92567375014

METHOD BLANK: 3428212 Matrix: Water  
Associated Lab Samples: 92567375001, 92567375002, 92567375003, 92567375005, 92567375007, 92567375008, 92567375010, 92567375011, 92567375012, 92567375014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/20/21 01:41	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/20/21 01:41	
Benzene	ug/L	ND	5.0	1.7	10/20/21 01:41	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/20/21 01:41	
Ethanol	ug/L	ND	200	144	10/20/21 01:41	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/20/21 01:41	
Ethylbenzene	ug/L	ND	5.0	1.8	10/20/21 01:41	
m&p-Xylene	ug/L	ND	10.0	4.1	10/20/21 01:41	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/20/21 01:41	
Naphthalene	ug/L	ND	5.0	2.1	10/20/21 01:41	
o-Xylene	ug/L	ND	5.0	2.0	10/20/21 01:41	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/20/21 01:41	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/20/21 01:41	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/20/21 01:41	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/20/21 01:41	
Toluene	ug/L	ND	5.0	2.0	10/20/21 01:41	
Xylene (Total)	ug/L	ND	5.0	5.0	10/20/21 01:41	
1,2-Dichloroethane-d4 (S)	%	82	70-130		10/20/21 01:41	
4-Bromofluorobenzene (S)	%	97	70-130		10/20/21 01:41	
Toluene-d8 (S)	%	103	70-130		10/20/21 01:41	

LABORATORY CONTROL SAMPLE: 3428213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.1	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1140	114	70-130	
Benzene	ug/L	50	51.0	102	70-130	
Diisopropyl ether	ug/L	50	44.6	89	70-130	
Ethanol	ug/L	2000	1840	92	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.6	96	70-130	
Ethylbenzene	ug/L	50	53.2	106	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	47.6	95	70-130	
Naphthalene	ug/L	50	54.8	110	70-130	
o-Xylene	ug/L	50	53.3	107	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	99.7	100	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

LABORATORY CONTROL SAMPLE: 3428213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	451	90	70-130	
tert-Butyl Formate	ug/L	400	366	91	70-130	
Toluene	ug/L	50	49.3	99	70-130	
Xylene (Total)	ug/L	150	161	107	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3428214 3428215

Parameter	Units	MS 92567375014		MSD 3428215		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result							
1,2-Dichloroethane	ug/L	ND	20	20	18.9	18.0	95	90	70-137	5	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	485	454	121	113	39-157	7	30	
Benzene	ug/L	ND	20	20	21.7	21.1	109	105	70-151	3	30	
Diisopropyl ether	ug/L	ND	20	20	15.4	16.0	77	80	63-144	4	30	
Ethanol	ug/L	ND	800	800	781	769	98	96	39-176	2	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	34.4	33.9	86	85	66-137	2	30	
Ethylbenzene	ug/L	ND	20	20	22.3	22.5	111	112	66-153	1	30	
m&p-Xylene	ug/L	ND	40	40	45.5	44.8	114	112	69-152	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.1	16.6	85	83	54-156	3	30	
Naphthalene	ug/L	ND	20	20	20.1	21.0	101	105	61-148	4	30	
o-Xylene	ug/L	ND	20	20	21.8	21.6	109	108	70-148	1	30	
tert-Amyl Alcohol	ug/L	ND	400	400	368	375	92	94	54-153	2	30	
tert-Amylmethyl ether	ug/L	ND	40	40	37.9	37.2	95	93	69-139	2	30	
tert-Butyl Alcohol	ug/L	ND	200	200	215	219	107	110	43-188	2	30	
tert-Butyl Formate	ug/L	ND	160	160	113	101	71	63	10-170	12	30	
Toluene	ug/L	ND	20	20	21.0	20.9	105	105	59-148	0	30	
Xylene (Total)	ug/L	ND	60	60	67.3	66.5	112	111	63-158	1	30	
1,2-Dichloroethane-d4 (S)	%						100	95	70-130			
4-Bromofluorobenzene (S)	%						95	95	70-130			
Toluene-d8 (S)	%						96	97	70-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

QC Batch: 653834 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92567375015, 92567375016, 92567375018, 92567375019, 92567375020, 92567375021, 92567375022, 92567375024, 92567375025, 92567375026, 92567375027, 92567375029, 92567375030

METHOD BLANK: 3428452 Matrix: Water  
Associated Lab Samples: 92567375015, 92567375016, 92567375018, 92567375019, 92567375020, 92567375021, 92567375022, 92567375024, 92567375025, 92567375026, 92567375027, 92567375029, 92567375030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/19/21 16:01	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/19/21 16:01	
Benzene	ug/L	ND	5.0	1.7	10/19/21 16:01	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/19/21 16:01	
Ethanol	ug/L	ND	200	144	10/19/21 16:01	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/19/21 16:01	
Ethylbenzene	ug/L	ND	5.0	1.8	10/19/21 16:01	
m&p-Xylene	ug/L	ND	10.0	4.1	10/19/21 16:01	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/19/21 16:01	
Naphthalene	ug/L	ND	5.0	2.1	10/19/21 16:01	
o-Xylene	ug/L	ND	5.0	2.0	10/19/21 16:01	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/19/21 16:01	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/19/21 16:01	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/19/21 16:01	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/19/21 16:01	
Toluene	ug/L	ND	5.0	2.0	10/19/21 16:01	
Xylene (Total)	ug/L	ND	5.0	5.0	10/19/21 16:01	
1,2-Dichloroethane-d4 (S)	%	96	70-130		10/19/21 16:01	
4-Bromofluorobenzene (S)	%	100	70-130		10/19/21 16:01	
Toluene-d8 (S)	%	101	70-130		10/19/21 16:01	

LABORATORY CONTROL SAMPLE: 3428453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.7	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	923	92	70-130	
Benzene	ug/L	50	54.9	110	70-130	
Diisopropyl ether	ug/L	50	53.0	106	70-130	
Ethanol	ug/L	2000	1980	99	70-130	
Ethyl-tert-butyl ether	ug/L	100	113	113	70-130	
Ethylbenzene	ug/L	50	53.5	107	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	55.2	110	70-130	
Naphthalene	ug/L	50	53.7	107	70-130	
o-Xylene	ug/L	50	53.6	107	70-130	
tert-Amyl Alcohol	ug/L	1000	1090	109	70-130	
tert-Amylmethyl ether	ug/L	100	112	112	70-130	

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

LABORATORY CONTROL SAMPLE: 3428453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	546	109	70-130	
tert-Butyl Formate	ug/L	400	460	115	70-130	
Toluene	ug/L	50	52.8	106	70-130	
Xylene (Total)	ug/L	150	162	108	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3428454 3428455

Parameter	Units	MS 92567221020		MSD 3428455		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	Spike Conc.	Spike Conc.	Result							
1,2-Dichloroethane	ug/L	ND	5000	5000	6440	6590	123	126	70-137	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	100000	100000	109000	103000	109	103	39-157	5	30	
Benzene	ug/L	1530	5000	5000	8080	8740	131	144	70-151	8	30	
Diisopropyl ether	ug/L	937J	5000	5000	7250	7630	126	134	63-144	5	30	
Ethanol	ug/L	ND	200000	200000	239000	236000	119	118	39-176	1	30	
Ethyl-tert-butyl ether	ug/L	ND	10000	10000	12900	12900	129	129	66-137	0	30	
Ethylbenzene	ug/L	7530	5000	5000	13400	16300	118	175	66-153	19	30	M1
m&p-Xylene	ug/L	6080	10000	10000	17900	19700	119	137	69-152	9	30	
Methyl-tert-butyl ether	ug/L	44300	5000	5000	61800	80900	350	731	54-156	27	30	E,M1
Naphthalene	ug/L	539J	5000	5000	6270	6540	115	120	61-148	4	30	
o-Xylene	ug/L	3570	5000	5000	9090	10300	110	135	70-148	13	30	
tert-Amyl Alcohol	ug/L	93800	100000	100000	238000	279000	144	185	54-153	16	30	M1
tert-Amylmethyl ether	ug/L	1340J	10000	10000	13500	13600	122	123	69-139	1	30	
tert-Butyl Alcohol	ug/L	49200	50000	50000	138000	168000	177	237	43-188	20	30	M1
tert-Butyl Formate	ug/L	ND	40000	40000	48900	47900	122	120	10-170	2	30	
Toluene	ug/L	8890	5000	5000	15400	18600	130	193	59-148	19	30	M1
Xylene (Total)	ug/L	9650	15000	15000	27000	30100	116	136	63-158	11	30	
1,2-Dichloroethane-d4 (S)	%						105	100	70-130			
4-Bromofluorobenzene (S)	%						98	99	70-130			
Toluene-d8 (S)	%						101	102	70-130			

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

QC Batch: 654055	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260 MSV SC
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92567375004, 92567375006, 92567375009, 92567375017, 92567375023, 92567375028

METHOD BLANK: 3429424 Matrix: Water

Associated Lab Samples: 92567375004, 92567375006, 92567375009, 92567375017, 92567375023, 92567375028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/20/21 14:38	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/20/21 14:38	
Benzene	ug/L	ND	5.0	1.7	10/20/21 14:38	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/20/21 14:38	
Ethanol	ug/L	ND	200	144	10/20/21 14:38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/20/21 14:38	
Ethylbenzene	ug/L	ND	5.0	1.8	10/20/21 14:38	
m&p-Xylene	ug/L	ND	10.0	4.1	10/20/21 14:38	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/20/21 14:38	
Naphthalene	ug/L	ND	5.0	2.1	10/20/21 14:38	
o-Xylene	ug/L	ND	5.0	2.0	10/20/21 14:38	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/20/21 14:38	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/20/21 14:38	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/20/21 14:38	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/20/21 14:38	
Toluene	ug/L	ND	5.0	2.0	10/20/21 14:38	
Xylene (Total)	ug/L	ND	5.0	5.0	10/20/21 14:38	
1,2-Dichloroethane-d4 (S)	%	82	70-130		10/20/21 14:38	
4-Bromofluorobenzene (S)	%	94	70-130		10/20/21 14:38	
Toluene-d8 (S)	%	105	70-130		10/20/21 14:38	

LABORATORY CONTROL SAMPLE: 3429425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.4	89	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1120	112	70-130	
Benzene	ug/L	50	47.3	95	70-130	
Diisopropyl ether	ug/L	50	43.2	86	70-130	
Ethanol	ug/L	2000	1730	86	70-130	
Ethyl-tert-butyl ether	ug/L	100	91.1	91	70-130	
Ethylbenzene	ug/L	50	52.4	105	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	44.8	90	70-130	
Naphthalene	ug/L	50	54.2	108	70-130	
o-Xylene	ug/L	50	52.0	104	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	
tert-Amylmethyl ether	ug/L	100	94.5	94	70-130	
tert-Butyl Alcohol	ug/L	500	438	88	70-130	
tert-Butyl Formate	ug/L	400	355	89	70-130	

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

LABORATORY CONTROL SAMPLE: 3429425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	45.4	91	70-130	
Xylene (Total)	ug/L	150	157	104	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3429426 3429427

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92567403001 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	20	20	18.0	18.9	90	94	70-137	5	30
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	440	487	110	122	39-157	10	30
Benzene	ug/L	ND	20	20	20.2	21.3	101	106	70-151	5	30
Diisopropyl ether	ug/L	ND	20	20	14.3	15.5	72	78	63-144	8	30
Ethanol	ug/L	ND	800	800	731	760	91	95	39-176	4	30
Ethyl-tert-butyl ether	ug/L	ND	40	40	32.0	34.7	80	87	66-137	8	30
Ethylbenzene	ug/L	ND	20	20	22.4	23.5	112	117	66-153	5	30
m&p-Xylene	ug/L	ND	40	40	43.1	46.5	108	116	69-152	8	30
Methyl-tert-butyl ether	ug/L	ND	20	20	16.0	16.6	80	83	54-156	3	30
Naphthalene	ug/L	ND	20	20	20.2	21.2	101	106	61-148	5	30
o-Xylene	ug/L	ND	20	20	21.0	22.0	105	110	70-148	5	30
tert-Amyl Alcohol	ug/L	ND	400	400	354	364	88	91	54-153	3	30
tert-Amylmethyl ether	ug/L	ND	40	40	36.7	38.6	92	97	69-139	5	30
tert-Butyl Alcohol	ug/L	ND	200	200	222	242	111	121	43-188	9	30
tert-Butyl Formate	ug/L	ND	160	160	65.4	53.5	41	33	10-170	20	30 v3
Toluene	ug/L	ND	20	20	20.4	21.4	102	107	59-148	5	30
Xylene (Total)	ug/L	ND	60	60	64.1	68.4	107	114	63-158	7	30
1,2-Dichloroethane-d4 (S)	%						93	98	70-130		
4-Bromofluorobenzene (S)	%						95	98	70-130		
Toluene-d8 (S)	%						98	99	70-130		

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

QC Batch: 654447

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92567375013

METHOD BLANK: 3431576

Matrix: Water

Associated Lab Samples: 92567375013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/22/21 00:50	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/22/21 00:50	
Benzene	ug/L	ND	5.0	1.7	10/22/21 00:50	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/22/21 00:50	
Ethanol	ug/L	ND	200	144	10/22/21 00:50	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/22/21 00:50	
Ethylbenzene	ug/L	ND	5.0	1.8	10/22/21 00:50	
m&p-Xylene	ug/L	ND	10.0	4.1	10/22/21 00:50	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/22/21 00:50	
Naphthalene	ug/L	ND	5.0	2.1	10/22/21 00:50	
o-Xylene	ug/L	ND	5.0	2.0	10/22/21 00:50	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/22/21 00:50	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/22/21 00:50	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/22/21 00:50	IK
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/22/21 00:50	v2
Toluene	ug/L	ND	5.0	2.0	10/22/21 00:50	
Xylene (Total)	ug/L	ND	5.0	5.0	10/22/21 00:50	
1,2-Dichloroethane-d4 (S)	%	82	70-130		10/22/21 00:50	
4-Bromofluorobenzene (S)	%	95	70-130		10/22/21 00:50	
Toluene-d8 (S)	%	107	70-130		10/22/21 00:50	

LABORATORY CONTROL SAMPLE: 3431577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.7	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1030	103	70-130	
Benzene	ug/L	50	49.4	99	70-130	
Diisopropyl ether	ug/L	50	41.6	83	70-130	
Ethanol	ug/L	2000	1840	92	70-130	
Ethyl-tert-butyl ether	ug/L	100	92.5	93	70-130	
Ethylbenzene	ug/L	50	50.9	102	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	46.2	92	70-130	
Naphthalene	ug/L	50	52.5	105	70-130	
o-Xylene	ug/L	50	51.0	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	97.0	97	70-130	
tert-Butyl Alcohol	ug/L	500	436	87	70-130	IK
tert-Butyl Formate	ug/L	400	358	89	70-130	v3

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

LABORATORY CONTROL SAMPLE: 3431577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	48.8	98	70-130	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			91	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3431578 3431579

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92567797010 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2-Dichloroethane	ug/L	20.6J	100	100	109	111	88	91	70-137	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	2000	2000	2130	2230	107	111	39-157	5	30	
Benzene	ug/L	855	100	100	921	879	66	24	70-151	5	30	M1
Diisopropyl ether	ug/L	52.4	100	100	141	142	89	89	63-144	1	30	
Ethanol	ug/L	ND	4000	4000	3140	3380	79	85	39-176	7	30	
Ethyl-tert-butyl ether	ug/L	ND	200	200	166	170	83	85	66-137	3	30	
Ethylbenzene	ug/L	246	100	100	350	351	104	106	66-153	0	30	
m&p-Xylene	ug/L	404	200	200	601	610	98	103	69-152	2	30	
Methyl-tert-butyl ether	ug/L	19.7J	100	100	108	103	89	83	54-156	5	30	
Naphthalene	ug/L	134	100	100	225	235	91	101	61-148	4	30	
o-Xylene	ug/L	163	100	100	267	267	105	104	70-148	0	30	
tert-Amyl Alcohol	ug/L	854	2000	2000	2690	2710	92	93	54-153	0	30	
tert-Amylmethyl ether	ug/L	ND	200	200	173	177	86	89	69-139	2	30	
tert-Butyl Alcohol	ug/L	ND	1000	1000	1230	1260	123	126	43-188	2	30	IK
tert-Butyl Formate	ug/L	ND	800	800	489	473	61	59	10-170	3	30	v3
Toluene	ug/L	163	100	100	247	248	84	85	59-148	0	30	
Xylene (Total)	ug/L	567	300	300	868	877	101	103	63-158	1	30	
1,2-Dichloroethane-d4 (S)	%						96	107	70-130			
4-Bromofluorobenzene (S)	%						93	95	70-130			
Toluene-d8 (S)	%						97	96	70-130			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

QC Batch: 653826

Analysis Method: EPA 8011

QC Batch Method: EPA 8011

Analysis Description: GCS 8011 EDB DBCP

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92567375001, 92567375002

METHOD BLANK: 3428385

Matrix: Water

Associated Lab Samples: 92567375001, 92567375002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0079	10/19/21 15:47	
1-Chloro-2-bromopropane (S)	%	80	60-140		10/19/21 15:47	

LABORATORY CONTROL SAMPLE & LCSD: 3428386

3428387

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.24	0.19	0.24	78	96	60-140	23	20	R1
1-Chloro-2-bromopropane (S)	%				75	98	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3428388

3428389

Parameter	Units	92567375001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.22	0.22	90	91	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						94	94	60-140			

SAMPLE DUPLICATE: 3428390

Parameter	Units	92567375002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	95	88			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

QC Batch:	653983	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	GCS 8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92567375003, 92567375004, 92567375005, 92567375006, 92567375007, 92567375008, 92567375009, 92567375010, 92567375011, 92567375012, 92567375013, 92567375014, 92567375015, 92567375016, 92567375017, 92567375018, 92567375019, 92567375020

METHOD BLANK: 3429131 Matrix: Water  
Associated Lab Samples: 92567375003, 92567375004, 92567375005, 92567375006, 92567375007, 92567375008, 92567375009, 92567375010, 92567375011, 92567375012, 92567375013, 92567375014, 92567375015, 92567375016, 92567375017, 92567375018, 92567375019, 92567375020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0081	10/20/21 14:13	
1-Chloro-2-bromopropane (S)	%	88	60-140		10/20/21 14:13	

LABORATORY CONTROL SAMPLE & LCSD: 3429132 3429133

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.22	0.21	87	85	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				93	98	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3429135 3429136

Parameter	Units	92567209017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.22	0.22	89	91	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						94	94	60-140			

SAMPLE DUPLICATE: 3429134

Parameter	Units	92567209016 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	92	83			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

QC Batch: 653987 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92567375021, 92567375022, 92567375023, 92567375024, 92567375025, 92567375026, 92567375027, 92567375028, 92567375029

METHOD BLANK: 3429141 Matrix: Water  
Associated Lab Samples: 92567375021, 92567375022, 92567375023, 92567375024, 92567375025, 92567375026, 92567375027, 92567375028, 92567375029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0081	10/20/21 18:55	
1-Chloro-2-bromopropane (S)	%	104	60-140		10/20/21 18:55	

LABORATORY CONTROL SAMPLE & LCSD: 3429142 3429143

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.23	0.22	94	89	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				98	99	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3429145 3429146

Parameter	Units	92567375022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.24	0.24	95	95	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						100	99	60-140			

SAMPLE DUPLICATE: 3429144

Parameter	Units	92567375021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	103	95			

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## QUALIFIERS

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- |    |   |
|----|---|
| E  | Analyte concentration exceeded the calibration range. The reported result is estimated.   |
| IK | The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.   |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.   |
| R1 | RPD value was outside control limits.   |
| v2 | The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard. |
| v3 | The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.   |

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00332/63421 Interstate Truck  
Pace Project No.: 92567375

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92567375001	MW-1	EPA 8011	653826	EPA 8011	653842
92567375002	MW-2	EPA 8011	653826	EPA 8011	653842
92567375003	MW-3	EPA 8011	653983	EPA 8011	654108
92567375004	MW-4R	EPA 8011	653983	EPA 8011	654108
92567375005	MW-5R	EPA 8011	653983	EPA 8011	654108
92567375006	MW-6	EPA 8011	653983	EPA 8011	654108
92567375007	MW-7	EPA 8011	653983	EPA 8011	654108
92567375008	MW-8	EPA 8011	653983	EPA 8011	654108
92567375009	MW-9	EPA 8011	653983	EPA 8011	654108
92567375010	MW-10	EPA 8011	653983	EPA 8011	654108
92567375011	MW-12	EPA 8011	653983	EPA 8011	654108
92567375012	MW-13	EPA 8011	653983	EPA 8011	654108
92567375013	MW-14	EPA 8011	653983	EPA 8011	654108
92567375014	MW-15	EPA 8011	653983	EPA 8011	654108
92567375015	MW-17	EPA 8011	653983	EPA 8011	654108
92567375016	MW-18	EPA 8011	653983	EPA 8011	654108
92567375017	MW-19	EPA 8011	653983	EPA 8011	654108
92567375018	MW-20	EPA 8011	653983	EPA 8011	654108
92567375019	MW-21	EPA 8011	653983	EPA 8011	654108
92567375020	MW-22	EPA 8011	653983	EPA 8011	654108
92567375021	dw-1	EPA 8011	653987	EPA 8011	654110
92567375022	dw-2	EPA 8011	653987	EPA 8011	654110
92567375023	dw-3	EPA 8011	653987	EPA 8011	654110
92567375024	dw-4	EPA 8011	653987	EPA 8011	654110
92567375025	dw-5	EPA 8011	653987	EPA 8011	654110
92567375026	dw-6	EPA 8011	653987	EPA 8011	654110
92567375027	DUP-1	EPA 8011	653987	EPA 8011	654110
92567375028	DUP-2	EPA 8011	653987	EPA 8011	654110
92567375029	FB	EPA 8011	653987	EPA 8011	654110
92567375001	MW-1	EPA 8260D	653799		
92567375002	MW-2	EPA 8260D	653799		
92567375003	MW-3	EPA 8260D	653799		
92567375004	MW-4R	EPA 8260D	654055		
92567375005	MW-5R	EPA 8260D	653799		
92567375006	MW-6	EPA 8260D	654055		
92567375007	MW-7	EPA 8260D	653799		
92567375008	MW-8	EPA 8260D	653799		
92567375009	MW-9	EPA 8260D	654055		
92567375010	MW-10	EPA 8260D	653799		
92567375011	MW-12	EPA 8260D	653799		
92567375012	MW-13	EPA 8260D	653799		
92567375013	MW-14	EPA 8260D	654447		
92567375014	MW-15	EPA 8260D	653799		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00332/63421 Interstate Truck

Pace Project No.: 92567375

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92567375015	MW-17	EPA 8260D	653834		
92567375016	MW-18	EPA 8260D	653834		
92567375017	MW-19	EPA 8260D	654055		
92567375018	MW-20	EPA 8260D	653834		
92567375019	MW-21	EPA 8260D	653834		
92567375020	MW-22	EPA 8260D	653834		
92567375021	dw-1	EPA 8260D	653834		
92567375022	dw-2	EPA 8260D	653834		
92567375023	dw-3	EPA 8260D	654055		
92567375024	dw-4	EPA 8260D	653834		
92567375025	dw-5	EPA 8260D	653834		
92567375026	dw-6	EPA 8260D	653834		
92567375027	DUP-1	EPA 8260D	653834		
92567375028	DUP-2	EPA 8260D	654055		
92567375029	FB	EPA 8260D	653834		
92567375030	TB	EPA 8260D	653834		

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: **SCDHEC** (INCEC)

Address: **2400 Bull Street**

Report To: **R. DUNN**

Copy To:

Customer Project Name/Number: **Imperial Truck Terminal**

Phone: **707 400 3332**

Email: **WD #00332 CA # 6342**

Collected By (print): **Chris Hansen**

Collected By (signature): *[Signature]*

Sample Disposal:  Return  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Dispose as appropriate  Archive:  Hold:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

LAB USE

# MO#: 92567375



Container:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium disulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact  Y  N  NA

Custody Signatures Present  Y  N  NA

Collector Signatures Present  Y  N  NA

Bottles Intact  Y  N  NA

Correct Bottles  Y  N  NA

Sufficient Volume  Y  N  NA

Samples Received on Ice  Y  N  NA

VOA - Headspace Acceptable  Y  N  NA

USDA Regulated Soils  Y  N  NA

Samples in Holding Time  Y  N  NA

Residual Chlorine Present  Y  N  NA

Cl Strips:  Y  N  NA

Sample pH Acceptable  Y  N  NA

pH Strips:  Y  N  NA

Sulfide Present  Y  N  NA

Lead Acetate Strips:  Y  N  NA

LAB USE ONLY:

Lab Sample # / Comments:

92567375

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cnts
			Date	Time	Date	Time		
MM-1	GW	G	10/16/11	12:33			G	X
MM-2				14:13				X
MM-3				14:13				X
MM-4R				14:13				X
MM-5R				14:45				X
MM-6				14:45				X
MM-7				14:45				X
MM-8				14:45				X
MM-9				14:45				X
MM-10				14:45				X

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: **Wet** Blue Dry None

Packing Material Used: **B3**

Raddchem sample(s) screened (<500 ppm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: **2619396**

Samples received via: FEDEX UPS Client

Date/Time: 10/15/11 8:30

Date/Time: 10/15/11 11:55

Date/Time: 10/15/11 8:30

Date/Time: 10/15/11 11:55

Date/Time: 10/15/11 11:55

Date/Time: 10/15/11 11:55

Date/Time: 10/15/11 11:55

Temp Sample Temperature Info: Temp Blank Received:  Y  N NA

Therm ID#: **92567375**

Cooler 1 Temp Upon Receipt: **4.7** °C

Cooler 1 Therm Corr. Factor: **0** °C

Cooler 1 Corrected Temp: **4.7** °C

Comments:

Tripp Blank Received:  Y  N NA

HCL MeOH TSP Other  Y  N NA

Non Conformance(s): **None**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB #

**W0# : 92567375**

Number or

PM: LNM Due Date: 10/22/21  
CLIENT: 92-SCDHEC

Conte

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA regulated soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: Y N NA  
 Sulfide Present Y N NA  
 Lead Acetate Strips: Y N NA

LAB USE ONLY:  
 Lab Sample # / Comments:

Company: SAHEC (WECC)

Address: 2400 Bull Street  
 Report To: R. Dunn  
 Copy To:

Customer Project Name/Number: Inkspace New Terminal  
 State: SC / Allendale County/City: Time Zone Collected: MET

Phone: Site/Facility ID #: W4 # 00332 C9# C342  
 Email: Purchase Order #: DW PWS ID #: DW Location Code: Immediately Packed on Ice: [X] Yes [ ] No

Collected By (print): Chas. Hansen  
 Collected By (signature):  
 Turnaround Date Required:

Sample Disposal: [ ] Dispose as appropriate [ ] Return  
 [ ] Archive: [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 [ ] Hold: (Expedite Charges Apply)

Rush: [ ] Same Day [ ] Next Day  
 Field Filtered (if applicable): [X] Yes [ ] No  
 Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cns
			Date	Time	Date	Time		
MW-12	GW	G	10/26/16	10:30				6
MW-13				9:55				X
MW-14				11:44				X
MW-15				15:04				
MW-17				14:55				
MW-18				13:52				
MW-19				14:53				
MW-20				10:47				
MW-21				13:46				
MW-22				13:37				

Lab Tracking #:	SHORT HOLDS PRESENT (<72 hours):	Y	N	N/A
2619400				

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: B B

Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) Date/Time: 10/15/21 8:30 Received by/Company: (Signature)

Relinquished by/Company: (Signature) Date/Time: 10/15/21 17:55 Received by/Company: (Signature)

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: 10/15/21 8:30

Date/Time: 10/15/21 17:55

Table #: MTJL LAB USE ONLY

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: 02506 Y N NA  
 Cooler 1 Temp Upon Receipt: 4.2 oC  
 Cooler 1 Therm Corr. Factor: 0 oC  
 Cooler 1 Corrected Temp: 4.2 oC  
 Comments:

Lab Sample Receipt Checklist:  
 Custody seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA regulated soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: Y N NA  
 Sulfide Present Y N NA  
 Lead Acetate Strips: Y N NA

Lab Sample # / Comments:  
 no odor 011  
 012  
 013  
 014  
 015  
 016  
 017  
 018  
 019  
 020  
 strong odor 020

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: 02506 Y N NA  
 Cooler 1 Temp Upon Receipt: 4.2 oC  
 Cooler 1 Therm Corr. Factor: 0 oC  
 Cooler 1 Corrected Temp: 4.2 oC  
 Comments:

Lab Sample Receipt Checklist:  
 Custody seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA regulated soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: Y N NA  
 Sulfide Present Y N NA  
 Lead Acetate Strips: Y N NA

Lab Sample # / Comments:  
 no odor 011  
 012  
 013  
 014  
 015  
 016  
 017  
 018  
 019  
 020  
 strong odor 020

Lab Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#: 02506 Y N NA  
 Cooler 1 Temp Upon Receipt: 4.2 oC  
 Cooler 1 Therm Corr. Factor: 0 oC  
 Cooler 1 Corrected Temp: 4.2 oC  
 Comments:

Lab Sample Receipt Checklist:  
 Custody seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA regulated soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: Y N NA  
 Sulfide Present Y N NA  
 Lead Acetate Strips: Y N NA



CHAIN-OF-CUSTODY Analytical Request Document

LAB USE

W0#: 92567375  
PM: LNM  
CLIENT: 92-SCDHHC  
Due Date: 10/22/21

number of

Page Analytical Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Container Preserve Value Type

Lab Project Manager:

Company: SCHEC (MECI)  
Address: 2400 BALL STREET  
Report To: R Down  
Copy To:

Email To: DUNN@dhc-sc.gov  
Site Collection Info/Address: 5C / Alleghale  
State: County/City: Time Zone Collected:

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/line:  
Lab Sample Receipt Checklist:

Customer Project Name/Number: Interstate Truck Terminal  
Phone: Site/Facility ID #: WST # 00332 CAT # 63421  
Email: Purchase Order #: DW PWS ID #:  
Collected By (print): Quote #: DW Location Code:  
Collected By (signature): Turnaround Date Required: Immediately Packed on Ice: Yes No

Custody Seals Present/Intact Y N NA  
Custody Signatures Present Y N NA  
Collector Signatures Present Y N NA  
Bottles Intact Y N NA  
Correct Bottles Y N NA  
Sufficient Volume Y N NA  
Samples Received on Ice Y N NA  
VOA - Headspace Acceptable Y N NA  
USDA Regulated Soils Y N NA  
Samples in Holding Time Y N NA  
Residual Chlorine Present Y N NA  
Cl Strips: Y N NA  
Sample pH Acceptable Y N NA  
pH Strips: Y N NA  
Sulfide Present Y N NA  
Lead Acetate Strips: Y N NA

Lab Sample # / Comments:  
92567375

Sample Disposal: [ ] Return [ ] Same Day [ ] Next Day [ ] Yes [ ] No  
[ ] Archive: [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
[ ] Hold: (Expedite Charges Apply) Analysis:

LAB USE ONLY:  
Lab Sample # / Comments:  
92567375

\* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Biossary (B), Vapor (V), Other (OT)

Table with columns: Customer Sample ID, Matrix\*, Comp / Grab, Collected (or Composite Start) Date, Composite End Date, Res Cl, # of Cnts, Lab Tracking #, SHORT HOLDS PRESENT (<72 hours), Y N N/A

Customer Remarks / Special Conditions / Possible Hazards:  
Packing Material Used: B B  
Radchem sample(s) screened (<500 cpm): Y N NA  
Date/Time: 10/15/21 8:30  
Received by/Company: (Signature)  
Relinquished by/Company: (Signature)  
Date/Time: 10/15/21 17:55  
Received by/Company: (Signature)

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**LAB** **MO#: 92567375** **r Number or**  
**PM: LNM** **Due Date: 10/22/21**  
**CLIENT: 92-SCHEC** **Y**  
 Page 59 of 59

**Company:** SCHEC (WECTI)  
**Address:** 2900 Bell Street  
 Report To: P. Dunn  
 Copy To:   
**Billing Information:**

**Email To:** DunnPA@dnc.sc.gov  
**Site Collection Info/Address:** US Hwy 301 #5-3-196

**Customer Project Name/Number:** Interstate Truck Terminal  
**State:** SC  
**County/City:** Aiken  
**Time Zone Collected:** ET

**Phone:**   
**Site/Facility ID #:**   
**Compliance Monitoring?** [ ] Yes [ ] No  
**Purchase Order #:**   
**DW PWS ID #:**   
**DW Location Code:**   
**Turnaround Date Required:**   
**Field Filtered (if applicable):** [ ] Yes [ ] No  
**Immediately Packed on Ice:** [ ] Yes [ ] No  
**Analysis:**

**Sample Disposal:** [ ] Return [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day  
 [ ] Dispose as appropriate [ ] Expedite Charges Apply  
**Collected By (signature):**   
**Turnaround Date Required:**   
**Field Filtered (if applicable):** [ ] Yes [ ] No  
**Immediately Packed on Ice:** [ ] Yes [ ] No  
**Analysis:**

**\* Matrix Codes (Insert in Matrix box below):** Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cms
			Date	Time	Date	Time		
TR	GW	G	10/21/21	9:00				X

**Customer Remarks / Special Conditions / Possible Hazards:**

**Type of Ice Used:** Wet Blue Dry None  
**Packing Material Used:** RB  
**Raddchem sample(s) screened (<500 ppm):** Y N NA  
**SHOET HOLDS PRESENT (<72 hours):** Y N NA  
**Lab Tracking #:** 2619398  
**Samples received via:** FEDEX UPS Client Courier Pace Courier  
**Date/Time:** 10/15/21 8:30  
**Received by/Company (Signature):**  
**Date/Time:** 10/15/21 17:05  
**Received by/Company (Signature):**  
**Date/Time:** 10/15/21 8:30  
**Received by/Company (Signature):**  
**Date/Time:** 10/12/21 4:55  
**Received by/Company (Signature):**  
**MTJLL LAB USE ONLY**  
**Table #:**  
**Actnum:**  
**Template:**  
**Prelogin:**  
**PM:**  
**PB:**  
**Lab Sample Temperature Info:**  
**Temp Blank Received:** Y N NA  
**Therm ID#:** 927064 NA  
**Cooler 1 Temp Upon Receipt:** 41.1 OC  
**Cooler 1 Therm Corr. Factor:** 0 OC  
**Cooler 1 Corrected Temp:** 41.1 OC  
**Comments:**  
**Non Conformance(s):** YES / NO  
**Page:** of

**Analyses**

Con.	1	2	3	4	5	6	7	8	9	A	B	TSP	U	Other	
** Preservative Types:	(1) nitric acid	(2) sulfuric acid	(3) hydrochloric acid	(4) sodium hydroxide	(5) zinc acetate	(6) methanol	(7) sodium bisulfate	(8) sodium thiosulfate	(9) hexane	(A) ascorbic acid	(B) ammonium sulfate	(C) ammonium hydroxide	(D) TSP	(U) Unpreserved	(O) Other
Con.															

**Lab Profile/Line:**   
**Lab Sample Receipt Checklist:**  
 Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signatures Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA Regulated Solids Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: Y N NA  
 Sample pH Acceptable Y N NA  
 pH Strips: Y N NA  
 Sulfide Present Y N NA  
 Lead Acetate Strips: Y N NA

**Lab Sample Temperature Info:**  
**Temp Blank Received:** Y N NA  
**Therm ID#:** 927064 NA  
**Cooler 1 Temp Upon Receipt:** 41.1 OC  
**Cooler 1 Therm Corr. Factor:** 0 OC  
**Cooler 1 Corrected Temp:** 41.1 OC  
**Comments:**  
**Non Conformance(s):** YES / NO  
**Page:** of

October 22, 2021

Robert Dunn  
SCDHEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: 00332/63421 INTERSTATE TREK  
Pace Project No.: 92567314

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,



Lindsey N Wooten  
lindsey.wooten@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.  
Kyle Pudney, Midlands Environmental Consultants, Inc.  
Matt Wykel, SCDHEC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

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### **Pace Analytical Services Charlotte**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92567314001	WSW-2	Water	10/13/21 15:26	10/15/21 08:30
92567314002	WSW-DUP	Water	10/13/21 15:27	10/15/21 08:30
92567314003	WSW-FB	Water	10/13/21 15:33	10/15/21 08:30
92567314004	WSW-TB	Water	10/13/21 08:00	10/15/21 08:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 00332/63421 INTERSTATE TREK  
Pace Project No.: 92567314

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92567314001	WSW-2	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92567314002	WSW-DUP	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92567314003	WSW-FB	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92567314004	WSW-TB	EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 00332/63421 INTERSTATE TREK  
Pace Project No.: 92567314

---

**Method:** EPA 504.1  
**Description:** 504 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** October 22, 2021

### General Information:

3 samples were analyzed for EPA 504.1 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 504.1 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 654395

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- DUP (Lab ID: 3431277)
  - 1-Chloro-2-bromopropane (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

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

### Duplicate Sample:

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

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

---

**Method:** EPA 524.2

**Description:** 524.2 MSV SC List

**Client:** SCDHEC

**Date:** October 22, 2021

**General Information:**

4 samples were analyzed for EPA 524.2 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

---

**Method:** EPA 8260D

**Description:** 8260 MSV Low Level SC

**Client:** SCDHEC

**Date:** October 22, 2021

**General Information:**

4 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

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

QC Batch: 653785

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92567314001

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 3428127)
  - tert-Butyl Formate
- MSD (Lab ID: 3428128)
  - tert-Butyl Formate

**Additional Comments:**

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

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

Sample: WSW-2		Lab ID: 92567314001		Collected: 10/13/21 15:26	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>504 GCS EDB and DBCP</b>		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0037	1	10/21/21 14:29	10/22/21 09:25	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	98	%	70-130		1	10/21/21 14:29	10/22/21 09:25	301-79-56		
<b>524.2 MSV SC List</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		10/19/21 19:22	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/19/21 19:22	107-06-2		
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/19/21 19:22	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/19/21 19:22	1634-04-4		
Naphthalene	ND	ug/L	0.50	0.35	1		10/19/21 19:22	91-20-3		
Toluene	ND	ug/L	0.50	0.20	1		10/19/21 19:22	108-88-3		
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/19/21 19:22	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/19/21 19:22	179601-23-1		
o-Xylene	ND	ug/L	0.50	0.22	1		10/19/21 19:22	95-47-6		
<b>Surrogates</b>										
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		10/19/21 19:22	2199-69-1		
4-Bromofluorobenzene (S)	84	%	70-130		1		10/19/21 19:22	460-00-4		
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/20/21 03:31	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/20/21 03:31	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/20/21 03:31	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/20/21 03:31	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/20/21 03:31	762-75-4	P5	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/20/21 03:31	108-20-3		
Ethanol	ND	ug/L	200	72.2	1		10/20/21 03:31	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/20/21 03:31	637-92-3		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	97	%	70-130		1		10/20/21 03:31	460-00-4		
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/20/21 03:31	17060-07-0		
Toluene-d8 (S)	100	%	70-130		1		10/20/21 03:31	2037-26-5		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

Sample: WSW-DUP      Lab ID: 92567314002      Collected: 10/13/21 15:27      Received: 10/15/21 08:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0038	1	10/21/21 14:29	10/22/21 09:57	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	70-130		1	10/21/21 14:29	10/22/21 09:57	301-79-56	
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		10/19/21 19:48	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/19/21 19:48	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/19/21 19:48	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/19/21 19:48	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/19/21 19:48	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/19/21 19:48	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/19/21 19:48	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/19/21 19:48	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/19/21 19:48	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		10/19/21 19:48	2199-69-1	
4-Bromofluorobenzene (S)	84	%	70-130		1		10/19/21 19:48	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/20/21 03:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/20/21 03:50	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/20/21 03:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/20/21 03:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/20/21 03:50	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/20/21 03:50	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/20/21 03:50	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/20/21 03:50	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/20/21 03:50	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/20/21 03:50	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/20/21 03:50	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

Sample: WSW-FB		Lab ID: 92567314003		Collected: 10/13/21 15:33	Received: 10/15/21 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>504 GCS EDB and DBCP</b>		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0037	1	10/21/21 14:29	10/22/21 10:18	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	94	%	70-130		1	10/21/21 14:29	10/22/21 10:18	301-79-56		
<b>524.2 MSV SC List</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		10/19/21 16:20	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/19/21 16:20	107-06-2		
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/19/21 16:20	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/19/21 16:20	1634-04-4		
Naphthalene	ND	ug/L	0.50	0.35	1		10/19/21 16:20	91-20-3		
Toluene	ND	ug/L	0.50	0.20	1		10/19/21 16:20	108-88-3		
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/19/21 16:20	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/19/21 16:20	179601-23-1		
o-Xylene	ND	ug/L	0.50	0.22	1		10/19/21 16:20	95-47-6		
<b>Surrogates</b>										
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		10/19/21 16:20	2199-69-1		
4-Bromofluorobenzene (S)	85	%	70-130		1		10/19/21 16:20	460-00-4		
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/20/21 02:37	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/20/21 02:37	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/20/21 02:37	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/20/21 02:37	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/20/21 02:37	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/20/21 02:37	108-20-3		
Ethanol	ND	ug/L	200	72.2	1		10/20/21 02:37	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/20/21 02:37	637-92-3		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	97	%	70-130		1		10/20/21 02:37	460-00-4		
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/20/21 02:37	17060-07-0		
Toluene-d8 (S)	100	%	70-130		1		10/20/21 02:37	2037-26-5		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

**Sample: WSW-TB**      **Lab ID: 92567314004**      Collected: 10/13/21 08:00      Received: 10/15/21 08:30      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		10/19/21 16:46	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/19/21 16:46	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/19/21 16:46	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/19/21 16:46	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/19/21 16:46	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/19/21 16:46	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/19/21 16:46	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/19/21 16:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/19/21 16:46	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	91	%	70-130		1		10/19/21 16:46	2199-69-1	
4-Bromofluorobenzene (S)	85	%	70-130		1		10/19/21 16:46	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/20/21 02:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/20/21 02:55	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/20/21 02:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/20/21 02:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/20/21 02:55	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/20/21 02:55	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/20/21 02:55	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/20/21 02:55	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/20/21 02:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/20/21 02:55	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/20/21 02:55	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

QC Batch:	653751	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92567314001, 92567314002, 92567314003, 92567314004

METHOD BLANK: 3427998 Matrix: Water

Associated Lab Samples: 92567314001, 92567314002, 92567314003, 92567314004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.16	10/19/21 12:54	
Benzene	ug/L	ND	0.50	0.21	10/19/21 12:54	
Ethylbenzene	ug/L	ND	0.50	0.22	10/19/21 12:54	
m&p-Xylene	ug/L	ND	1.0	0.39	10/19/21 12:54	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.14	10/19/21 12:54	
Naphthalene	ug/L	ND	0.50	0.35	10/19/21 12:54	
o-Xylene	ug/L	ND	0.50	0.22	10/19/21 12:54	
Toluene	ug/L	ND	0.50	0.20	10/19/21 12:54	
Xylene (Total)	ug/L	ND	0.50	0.22	10/19/21 12:54	
1,2-Dichlorobenzene-d4 (S)	%	93	70-130		10/19/21 12:54	
4-Bromofluorobenzene (S)	%	86	70-130		10/19/21 12:54	

LABORATORY CONTROL SAMPLE: 3427999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.9	94	70-130	
Benzene	ug/L	20	19.3	96	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
m&p-Xylene	ug/L	40	39.3	98	70-130	
Methyl-tert-butyl ether	ug/L	20	16.0	80	70-130	
Naphthalene	ug/L	20	18.2	91	70-130	
o-Xylene	ug/L	20	19.3	97	70-130	
Toluene	ug/L	20	19.0	95	70-130	
Xylene (Total)	ug/L	60	58.6	98		
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 00332/63421 INTERSTATE TREK  
Pace Project No.: 92567314

QC Batch: 653785 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92567314001, 92567314002, 92567314003, 92567314004

METHOD BLANK: 3428125 Matrix: Water  
Associated Lab Samples: 92567314001, 92567314002, 92567314003, 92567314004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	10/20/21 02:19	
Diisopropyl ether	ug/L	ND	1.0	0.31	10/20/21 02:19	
Ethanol	ug/L	ND	200	72.2	10/20/21 02:19	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	10/20/21 02:19	
tert-Amyl Alcohol	ug/L	ND	100	36.4	10/20/21 02:19	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	10/20/21 02:19	
tert-Butyl Alcohol	ug/L	ND	100	26.8	10/20/21 02:19	
tert-Butyl Formate	ug/L	ND	50.0	29.4	10/20/21 02:19	
1,2-Dichloroethane-d4 (S)	%	99	70-130		10/20/21 02:19	
4-Bromofluorobenzene (S)	%	100	70-130		10/20/21 02:19	
Toluene-d8 (S)	%	100	70-130		10/20/21 02:19	

LABORATORY CONTROL SAMPLE: 3428126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1110	111	70-130	
Diisopropyl ether	ug/L	50	49.7	99	70-130	
Ethanol	ug/L	2000	2350	118	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
tert-Amyl Alcohol	ug/L	1000	1150	115	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	540	108	70-130	
tert-Butyl Formate	ug/L	400	403	101	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3428127 3428128

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92567314001 Result	Spike Conc.	Spike Conc.	Conc.								
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	426	396	106	99	39-157	7	30		
Diisopropyl ether	ug/L	ND	20	20	22.5	20.9	112	104	63-144	7	30		
Ethanol	ug/L	ND	800	800	964	911	121	114	39-176	6	30		
Ethyl-tert-butyl ether	ug/L	ND	40	40	44.7	41.1	112	103	66-137	8	30		
tert-Amyl Alcohol	ug/L	ND	400	400	459	432	115	108	54-153	6	30		
tert-Amylmethyl ether	ug/L	ND	40	40	43.0	40.3	107	101	69-139	7	30		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

Parameter	Units	3428127		3428128		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92567314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
tert-Butyl Alcohol	ug/L	ND	200	200	339	316	169	158	43-188	7	30		
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	10-170		30	P5	
1,2-Dichloroethane-d4 (S)	%						106	106	70-130				
4-Bromofluorobenzene (S)	%						103	102	70-130				
Toluene-d8 (S)	%						102	103	70-130				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 00332/63421 INTERSTATE TREK  
Pace Project No.: 92567314

QC Batch: 654395 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92567314001, 92567314002, 92567314003

METHOD BLANK: 3431272 Matrix: Water  
Associated Lab Samples: 92567314001, 92567314002, 92567314003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.021	0.0039	10/22/21 08:54	
1-Chloro-2-bromopropane (S)	%	95	70-130		10/22/21 08:54	

LABORATORY CONTROL SAMPLE & LCSD: 3431273

Parameter	Units	3431273		3431274		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
1,2-Dibromoethane (EDB)	ug/L	0.26	0.25	0.25	98	97	70-130	2	20
1-Chloro-2-bromopropane (S)	%				104	98	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3431275 3431276

Parameter	Units	92567314001		3431275		3431276		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
1,2-Dibromoethane (EDB)	ug/L	ND	0.26	0.26	0.26	0.25	100	97	65-135	3	20
1-Chloro-2-bromopropane (S)	%						100	98	70-130		

SAMPLE DUPLICATE: 3431277

Parameter	Units	92567314002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	101	140		S3	

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 00332/63421 INTERSTATE TREK

Pace Project No.: 92567314

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92567314001	WSW-2	EPA 504.1	654395	EPA 504.1	654431
92567314002	WSW-DUP	EPA 504.1	654395	EPA 504.1	654431
92567314003	WSW-FB	EPA 504.1	654395	EPA 504.1	654431
92567314001	WSW-2	EPA 524.2	653751		
92567314002	WSW-DUP	EPA 524.2	653751		
92567314003	WSW-FB	EPA 524.2	653751		
92567314004	WSW-TB	EPA 524.2	653751		
92567314001	WSW-2	EPA 8260D	653785		
92567314002	WSW-DUP	EPA 8260D	653785		
92567314003	WSW-FB	EPA 8260D	653785		
92567314004	WSW-TB	EPA 8260D	653785		

### REPORT OF LABORATORY ANALYSIS

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**Pace Analytical**

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

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **SCDYEC** Billing Information: **(MFCI)**

Address: **2800 Bell Street** Report To: **Dunn RCO**

Copy To: **P-Dunn** Email To: **Dunn RCO**

Customer Project Name/Number: **Interslate TRex terminal** State: **SC** County/City: **Allendale** Time Zone Collected: **WET**

Phone: **Interslate TRex terminal** Site/Facility ID #: **SC / Allendale**

Email: **ust # 00332** Compliance Monitoring? **[ ] Yes [ ] No**

Collected By (print): **Chris Hanson** Purchase Order #: **CA# 63421** DW PWS ID #: **[ ]**

Collected By (signature): **[Signature]** Turnaround Date Required: **Immediately Packed on Ice: [X] Yes [ ] No**

Sample Disposal: **[ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day**

**[ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold: [ ]** Field Filtered (if applicable): **[ ] Yes [ ] No**

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OI), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
W5M-2	DW	9	10/15/11	8:30				524-2
W5M-F10				15:25				0x45 8260
W5M-F11				15:33				504-1
W5M-F12				15:00				


Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:	<input checked="" type="checkbox"/> Wet	<input type="checkbox"/> Blue	<input type="checkbox"/> Dry	<input type="checkbox"/> None
Packing Material Used:				
Radchem sample(s) screened (<500 cpm):	Y	N	NA	

SHORT HOLDS PRESENT (<72 hours):	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Lab Tracking #:	<b>2619399</b>		
Samples received via:	FEDEX	UPS	Client
Date/Time:	10/15/11 8:30	10/15/11 8:30	10/15/11 17:55
Date/Time:			10/15/11 17:55

Lab Sample Temperature Info:  
 Temp Blank Received: **21.6** NA  
 Therm ID#: **2106**  
 Cooler 1 Temp Upon Receipt: **16** OC  
 Cooler 1 Therm Corr. Factor: **0** OC  
 Cooler 1 Corrected Temp: **16** OC  
 Comments:

LAB NO#: **92567314** LAB Number or



Con: **92567314**

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Y

Page 18 of 18

Relinquished by/Company (Signature): **[Signature]** Date/Time: **10/15/11 17:55**

Relinquished by/Company (Signature): **[Signature]** Date/Time: **10/15/11 17:55**

Received by/Company (Signature): **[Signature]** Date/Time: **10/15/11 17:55**

Received by/Company (Signature): **[Signature]** Date/Time: **10/15/11 17:55**

Non Conformance(s): **YES / NO** Page: **10** of **10**

Trip Blank Received: **[ ]** N **[ ]** NA  
 HCL MeOH TSP Other

October 27, 2021

Mr. Bryan Shane  
Midlands Environmental  
PO Box 854  
Lexington, SC 29071

RE: Project: INTERSTATE TRUCK TERMINAL-Revised Report  
Pace Project No.: 92567403

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

Revised on 10/27/21 to correct log in error.

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

Sincerely,



Lindsey N Wooten  
lindsey.wooten@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental  
Mr. Kyle Pudney, Midlands Environmental



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: INTERSTATE TRUCK TERMINAL-Revised Report

Pace Project No.: 92567403

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### **Pace Analytical Services Charlotte**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: INTERSTATE TRUCK TERMINAL-Revised Report

Pace Project No.: 92567403

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92567403001	GAC	Water	10/13/21 15:13	10/15/21 08:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: INTERSTATE TRUCK TERMINAL-Revised Report  
Pace Project No.: 92567403

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92567403001	GAC	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C

---

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: INTERSTATE TRUCK TERMINAL-Revised Report

Pace Project No.: 92567403

Sample: GAC      Lab ID: 92567403001      Collected: 10/13/21 15:13      Received: 10/15/21 08:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0079	1	10/21/21 10:03	10/21/21 18:44	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	10/21/21 10:03	10/21/21 18:44	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/20/21 17:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/20/21 17:20	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/20/21 17:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/20/21 17:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/20/21 17:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/20/21 17:20	762-75-4	v3
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/20/21 17:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/20/21 17:20	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/20/21 17:20	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/20/21 17:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/20/21 17:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/20/21 17:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/20/21 17:20	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/20/21 17:20	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/20/21 17:20	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/20/21 17:20	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/20/21 17:20	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/20/21 17:20	460-00-4	
1,2-Dichloroethane-d4 (S)	78	%	70-130		1		10/20/21 17:20	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/20/21 17:20	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK TERMINAL-Revised Report

Pace Project No.: 92567403

QC Batch: 654055	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260 MSV SC
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92567403001

METHOD BLANK: 3429424 Matrix: Water

Associated Lab Samples: 92567403001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/20/21 14:38	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/20/21 14:38	
Benzene	ug/L	ND	5.0	1.7	10/20/21 14:38	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/20/21 14:38	
Ethanol	ug/L	ND	200	144	10/20/21 14:38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/20/21 14:38	
Ethylbenzene	ug/L	ND	5.0	1.8	10/20/21 14:38	
m&p-Xylene	ug/L	ND	10.0	4.1	10/20/21 14:38	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/20/21 14:38	
Naphthalene	ug/L	ND	5.0	2.1	10/20/21 14:38	
o-Xylene	ug/L	ND	5.0	2.0	10/20/21 14:38	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/20/21 14:38	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/20/21 14:38	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/20/21 14:38	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/20/21 14:38	
Toluene	ug/L	ND	5.0	2.0	10/20/21 14:38	
Xylene (Total)	ug/L	ND	5.0	5.0	10/20/21 14:38	
1,2-Dichloroethane-d4 (S)	%	82	70-130		10/20/21 14:38	
4-Bromofluorobenzene (S)	%	94	70-130		10/20/21 14:38	
Toluene-d8 (S)	%	105	70-130		10/20/21 14:38	

LABORATORY CONTROL SAMPLE: 3429425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.4	89	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1120	112	70-130	
Benzene	ug/L	50	47.3	95	70-130	
Diisopropyl ether	ug/L	50	43.2	86	70-130	
Ethanol	ug/L	2000	1730	86	70-130	
Ethyl-tert-butyl ether	ug/L	100	91.1	91	70-130	
Ethylbenzene	ug/L	50	52.4	105	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	44.8	90	70-130	
Naphthalene	ug/L	50	54.2	108	70-130	
o-Xylene	ug/L	50	52.0	104	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	
tert-Amylmethyl ether	ug/L	100	94.5	94	70-130	
tert-Butyl Alcohol	ug/L	500	438	88	70-130	
tert-Butyl Formate	ug/L	400	355	89	70-130	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK TERMINAL-Revised Report

Pace Project No.: 92567403

LABORATORY CONTROL SAMPLE: 3429425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	45.4	91	70-130	
Xylene (Total)	ug/L	150	157	104	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3429426 3429427

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92567403001 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	20	20	18.0	18.9	90	94	70-137	5	30
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	440	487	110	122	39-157	10	30
Benzene	ug/L	ND	20	20	20.2	21.3	101	106	70-151	5	30
Diisopropyl ether	ug/L	ND	20	20	14.3	15.5	72	78	63-144	8	30
Ethanol	ug/L	ND	800	800	731	760	91	95	39-176	4	30
Ethyl-tert-butyl ether	ug/L	ND	40	40	32.0	34.7	80	87	66-137	8	30
Ethylbenzene	ug/L	ND	20	20	22.4	23.5	112	117	66-153	5	30
m&p-Xylene	ug/L	ND	40	40	43.1	46.5	108	116	69-152	8	30
Methyl-tert-butyl ether	ug/L	ND	20	20	16.0	16.6	80	83	54-156	3	30
Naphthalene	ug/L	ND	20	20	20.2	21.2	101	106	61-148	5	30
o-Xylene	ug/L	ND	20	20	21.0	22.0	105	110	70-148	5	30
tert-Amyl Alcohol	ug/L	ND	400	400	354	364	88	91	54-153	3	30
tert-Amylmethyl ether	ug/L	ND	40	40	36.7	38.6	92	97	69-139	5	30
tert-Butyl Alcohol	ug/L	ND	200	200	222	242	111	121	43-188	9	30
tert-Butyl Formate	ug/L	ND	160	160	65.4	53.5	41	33	10-170	20	30 v3
Toluene	ug/L	ND	20	20	20.4	21.4	102	107	59-148	5	30
Xylene (Total)	ug/L	ND	60	60	64.1	68.4	107	114	63-158	7	30
1,2-Dichloroethane-d4 (S)	%						93	98	70-130		
4-Bromofluorobenzene (S)	%						95	98	70-130		
Toluene-d8 (S)	%						98	99	70-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: INTERSTATE TRUCK TERMINAL-Revised Report  
Pace Project No.: 92567403

QC Batch: 654277 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92567403001

METHOD BLANK: 3430518 Matrix: Water  
Associated Lab Samples: 92567403001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0081	10/21/21 18:02	
1-Chloro-2-bromopropane (S)	%	87	60-140		10/21/21 18:02	

LABORATORY CONTROL SAMPLE & LCSD: 3430519

Parameter	Units	3430520		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
1,2-Dibromoethane (EDB)	ug/L	0.25	0.22	88	89	60-140	1	20	
1-Chloro-2-bromopropane (S)	%			90	95	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3430522 3430523

Parameter	Units	92567797002		3430523		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.23	95	97	60-140	2	20	
1-Chloro-2-bromopropane (S)	%					98	101	60-140			

SAMPLE DUPLICATE: 3430521

Parameter	Units	92567797001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	95	87			

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: INTERSTATE TRUCK TERMINAL-Revised Report

Pace Project No.: 92567403

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: INTERSTATE TRUCK TERMINAL-Revised Report

Pace Project No.: 92567403

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92567403001	GAC	EPA 8011	654277	EPA 8011	654426
92567403001	GAC	EPA 8260D	654055		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: SCHE Billing Information: (WVET)

Address: 2400 BALL STREET

Report To: RD DWIN Email To: DWIN@edwards.com

Copy To: RD DWIN Site Collection Info/Address: US Hwy 301 # 503-190

Customer Project Name/Number: Instate Truck Terminal State: NC County/City: Alleghade Time Zone Collected: ET

Phone: \_\_\_\_\_ Compliance Monitoring?  Yes  No

Email: \_\_\_\_\_

Collected By (print): Chris Henson Purchase Order #: 06392 CA# 63421 DW PWS ID #: \_\_\_\_\_

Collected By (signature): Chris Henson Quote #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_

Turnaround Date Required: \_\_\_\_\_ Immediately Packed on Ice:  Yes  No

Sample Disposal: \_\_\_\_\_ Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day

Dispose as appropriate  Return  Archive: \_\_\_\_\_ Analysis: \_\_\_\_\_

Hold: \_\_\_\_\_ (Expedite Charges Apply)

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: \_\_\_\_\_ Matrix \* \_\_\_\_\_ Comp / Grab \_\_\_\_\_ Collected (or Composite Start) \_\_\_\_\_ Composite End \_\_\_\_\_ Res \_\_\_\_\_ # of \_\_\_\_\_ Ctns \_\_\_\_\_

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Composite End Date	Res	# of Ctns
DW-1	GW	1	10/21/11 14:01	15:10		
DW-2	GW	1	10/21/11 14:13	15:10		
DW-3	GW	1	10/21/11 14:12	15:10		
DW-4	GW	1	10/21/11 15:11	15:13		
DW-5	GW	1	10/21/11 15:13	15:10		
DW-6	GW	1	10/21/11 15:13	15:10		
DW-7	GW	1	10/21/11 15:13	15:10		
DW-8	GW	1	10/21/11 15:13	15:10		
DW-9	GW	1	10/21/11 15:13	15:10		
DW-10	GW	1	10/21/11 15:13	15:10		
DW-11	GW	1	10/21/11 15:13	15:10		
DW-12	GW	1	10/21/11 15:13	15:10		
DW-13	GW	1	10/21/11 15:13	15:10		
DW-14	GW	1	10/21/11 15:13	15:10		
DW-15	GW	1	10/21/11 15:13	15:10		
DW-16	GW	1	10/21/11 15:13	15:10		
DW-17	GW	1	10/21/11 15:13	15:10		
DW-18	GW	1	10/21/11 15:13	15:10		
DW-19	GW	1	10/21/11 15:13	15:10		
DW-20	GW	1	10/21/11 15:13	15:10		
DW-21	GW	1	10/21/11 15:13	15:10		
DW-22	GW	1	10/21/11 15:13	15:10		
DW-23	GW	1	10/21/11 15:13	15:10		
DW-24	GW	1	10/21/11 15:13	15:10		
DW-25	GW	1	10/21/11 15:13	15:10		
DW-26	GW	1	10/21/11 15:13	15:10		
DW-27	GW	1	10/21/11 15:13	15:10		
DW-28	GW	1	10/21/11 15:13	15:10		
DW-29	GW	1	10/21/11 15:13	15:10		
DW-30	GW	1	10/21/11 15:13	15:10		
DW-31	GW	1	10/21/11 15:13	15:10		
DW-32	GW	1	10/21/11 15:13	15:10		
DW-33	GW	1	10/21/11 15:13	15:10		
DW-34	GW	1	10/21/11 15:13	15:10		
DW-35	GW	1	10/21/11 15:13	15:10		
DW-36	GW	1	10/21/11 15:13	15:10		
DW-37	GW	1	10/21/11 15:13	15:10		
DW-38	GW	1	10/21/11 15:13	15:10		
DW-39	GW	1	10/21/11 15:13	15:10		
DW-40	GW	1	10/21/11 15:13	15:10		
DW-41	GW	1	10/21/11 15:13	15:10		
DW-42	GW	1	10/21/11 15:13	15:10		
DW-43	GW	1	10/21/11 15:13	15:10		
DW-44	GW	1	10/21/11 15:13	15:10		
DW-45	GW	1	10/21/11 15:13	15:10		
DW-46	GW	1	10/21/11 15:13	15:10		
DW-47	GW	1	10/21/11 15:13	15:10		
DW-48	GW	1	10/21/11 15:13	15:10		
DW-49	GW	1	10/21/11 15:13	15:10		
DW-50	GW	1	10/21/11 15:13	15:10		

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: BB

Radiation sample(s) screened (<500 cpm):  Y  N  NA

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: 10/15/11 8:30 Received by/Company: (Signature) \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: 10/15/11 17:55 Received by/Company: (Signature) \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_

**W0# : 92567403**



92567403

Order Number or **ONLY**

Analyses

2 2

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfite, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line: \_\_\_\_\_

Lab Sample Receipt Checklist:

Custody Seals Present/Intact  Y  N  NA

Custody Signatures Present  Y  N  NA

Collector Signatures Present  Y  N  NA

Bottles Intact  Y  N  NA

Correct Bottles  Y  N  NA

Sufficient Volume  Y  N  NA

VOA - Headspace Acceptable  Y  N  NA

USDA Regulated Soils  Y  N  NA

Samples in Holding Time  Y  N  NA

Residual Chlorine Present  Y  N  NA

Cl Strips:  Y  N  NA

Sample pH Acceptable  Y  N  NA

pH Strips:  Y  N  NA

Sulfide Present  Y  N  NA

Lead Acetate Strips:  Y  N  NA

LAB USE ONLY: \_\_\_\_\_

Lab Sample # / Comments: 92567403

no odor

SHORT HOLDS PRESENT (<72 hours):  Y  N  NA

Lab Tracking #: 2619397

Samples received via: FEDEX  UPS  Client  Courier  Pace Courier

Table #: \_\_\_\_\_

Acctnum: \_\_\_\_\_

Template: \_\_\_\_\_

PrelogIn: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

Temp Sample Temperature Info: \_\_\_\_\_

Temp Blank Received:  Y  N  NA

Therm ID# 92567403

Cooler 1 Temp Upon Receipt: 4.1 °C

Cooler 1 Therm Corr. Factor: 0.1 °C

Cooler 1 Corrected Temp: 4.0 °C

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

Temp Blank Received:  Y  N  NA

HCL MeOH TSP Other

Non Conformance(s): NO

Page: \_\_\_\_\_ of: \_\_\_\_\_

**APPENDIX B:**

**TAX MAP**

**(Not Applicable)**

**APPENDIX C:**  
**DISPOSAL MANIFEST**



October 15, 2021

Re: Treatment of Purge Water  
Interstate Truck Terminal  
Ulmer, South Carolina  
SCDHEC Site ID Number 00332  
MECI Project Number 21-7655

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site-by-site basis) issued by the SCDHEC must be adhered to.


All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

**A total of 357.25 gallons were treated on October 13, 2019 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.



Jeff L. Coleman  
Senior Scientist

**APPENDIX D:**  
**ACCESS AGREEMENTS**

**RIGHT OF ENTRY AND PERMISSION FORM**

**UNDERGROUND STORAGE TANK AND PROPERTY OWNER**

Interstate Truck Terminal, Highways 301 & 321, Ulmer, SC, Allendale County, UST Permit # 00332

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, JULIUS MOODY, certify that I am the legal owner of the underground storage tanks and property located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (SCDHEC) or its contractors to enter this property at reasonable times only to accomplish site assessment and liquid removal activities. I understand that SCDHEC will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of the results of each activity.

Name of Facility INTERSTATE TRUCK TERMINAL Phone # N/A

Street Address of Facility HIGHWAYS 301 and 321

Town, City, District, Suburb ULMER, SOUTH CAROLINA

Name of nearest intersecting street, road, highway, alley  
301 North

Is this facility within the city limits? (yes or no) YES

Does a public water or sewer utility service this facility? (yes or no) \_\_\_\_\_ If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines  
phone number \_\_\_\_\_

Were underground storage tanks previously removed from the ground at this facility? (yes or no) no  
If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation  
Phone number \_\_\_\_\_

Is the property currently leased or rented to someone? (yes or no) no. If yes, please provide their name \_\_\_\_\_ and phone number \_\_\_\_\_ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before assessment activities begin.

NAME of UST/property owner (Please Print): JULIUS MOODY

Contact Person: William E. Myrick, Jr.  
Phone Number (home) (803)584-4333 (work) NOT WORKING

Signature of UST/property Owner: Julius Moody

Witness: W E Myrick Jr Esq.

Date: May Month 15th Day 2002 Year



**APPENDIX E**  
**DATA VERIFICATION CHECKLIST**

**Contractor Checklist**

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?	X		
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? (Table 2 & Figure 4)	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix A)	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format?			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)			X
34	Has the current and historical laboratory data been provided in tabular format? (Table 1)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figures 3)	X		
40	Has the site potentiometric map been provided? (Figure 4)	X		
41	Have the geologic cross-sections been provided?			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements?			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix A)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix B)			X
47	Have the soil boring/field screening logs been provided?			X
48	Have the well completion logs and SCDHEC Form 1903 been provided?			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided?			X
50	Have the disposal manifests been provided? (Appendix C)			X
51	Has a copy of the local zoning regulations been provided?			X
52	Has all fate and transport modeling been provided?			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix D)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided? (Appendix E)	X		

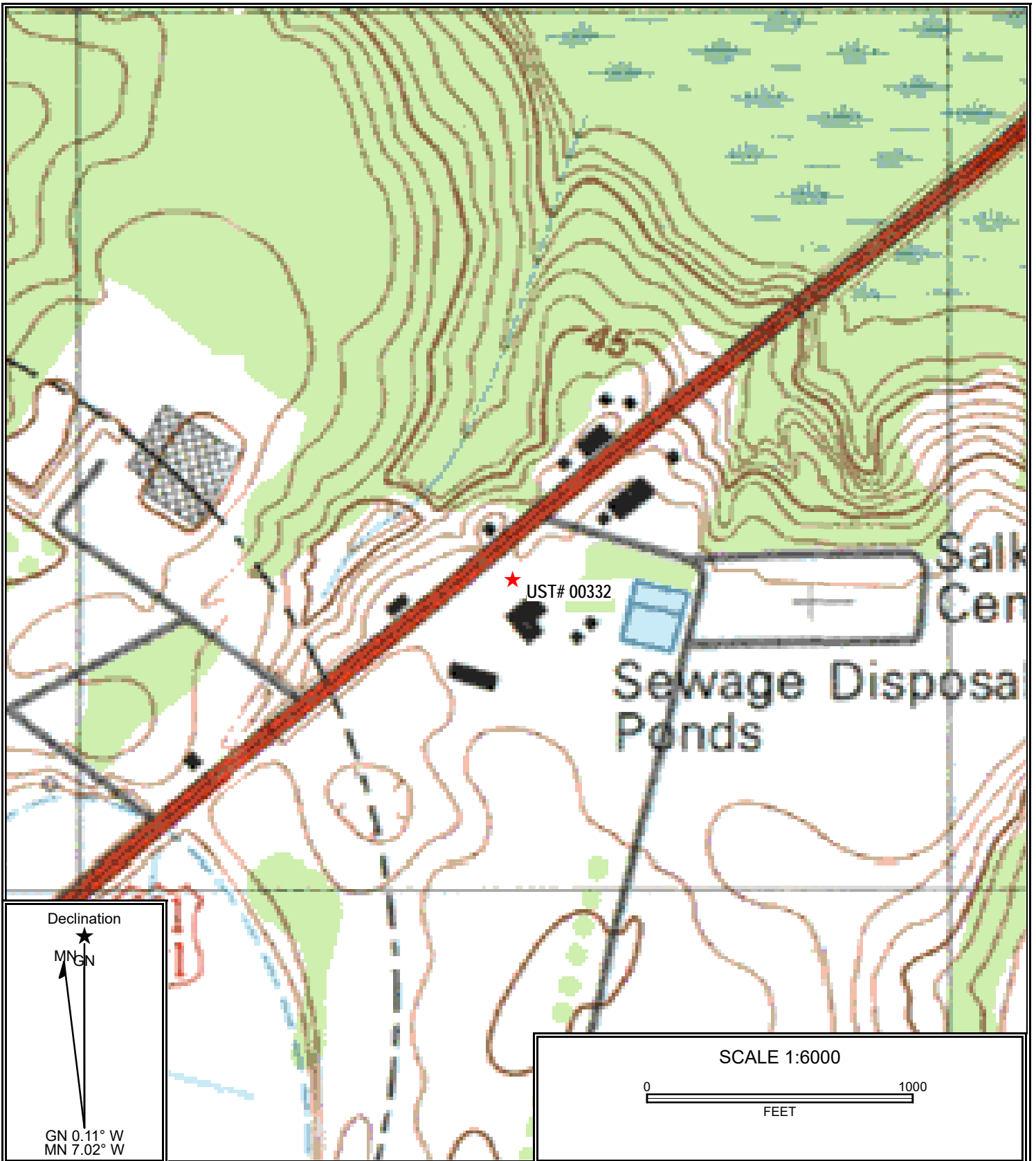
**APPENDIX F:  
RECEPTOR PHOTOS**





**WSW-2 Sample Location**







Healthy People. Healthy Communities.

CERTIFIED MAIL  
9214 8969 0099 9790 1421 8479 81

JUL 07 2022



**HARRY AND CARL EDWARD BENNETT**  
**116057 BURTONS FERRY HWY**  
**ULMER SC 29849**

Re: **Request for Property Access**  
Interstate Truck Terminal Inc, Highway 301 & 321, Ulmer, SC  
UST Permit #00332  
Release reported June 21, 2002  
Allendale County

Dear Mr. Bennett and Mr. Bennett:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control documented a petroleum release from the UST system at the referenced facility.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of monitoring well installation and groundwater sampling are necessary to define the petroleum plume. The UST Division requests your permission for DHEC's contractor to enter your property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached property access form and return it to my attention within fifteen days of receipt of this letter.**

If you have any questions, please contact me by phone at (803) 898-0605, by fax at (803) 898-0673, or by email at [kellergl@dhec.sc.gov](mailto:kellergl@dhec.sc.gov). Thank you for your consideration regarding this matter.

Sincerely,

Genevieve Keller-Milliken, Hydrogeologist  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Property Access Agreement for Site Rehabilitation

cc: Technical file (w/o enc)



## State Lead Option Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

**UST Permit #** 00332

**Facility Name:** Interstate Truck Terminal

**Facility Address:** Highway 301 & 321, Ulmer, SC 29849

**Facility Phone Number:**

**Is facility within city limits? (check yes/no)**  Yes  No

**Name of nearest intersecting street/road/highway:**

**Does public water/sewer utility service this facility?**  Yes  No

\*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

**Name:** **Phone Number:**

**Were USTs previously removed from the ground at this facility?**  Yes  No

\*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):

**Name:** **Phone Number:**

**Is the facility currently leased to someone?**  Yes  No

\*If yes, notify them of the pending work scope, and please provide their name/contact number:

**Name:** **Phone Number:**

**Name:** **Phone Number:**

**Name:** **Phone Number:**

**Name:** **Phone Number:**

**Name:** **Phone Number:**

**Name:** **Phone Number:**

**Name:** **Phone Number:**

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**Name:** **Phone Number:**

**Name:** **Phone Number:**

**Name:** **Phone Number:**

**Name:** **Phone Number:**

**Name:** **Phone Number:**



## Model Notes

Release 1 at this site was reported June 21, 2002. Julius Moody owned the tanks at the time of the release, and the release went into Cos Recoverable under him when he was unable to pay. The tanks have been rendered non-usable since just before the time of the release and are still there today. The property was gifted to Harry Bennett, who placed his son Carl Bennett on the deed at one point. Harry Bennett has since passed, and the site has no current property owner while it is in probate.

Site access has not been granted by the Bennetts – the most recent sampling was conducted in 2021 under Mr. Moody's site access agreement.

### Table of CoC and Corresponding Wells

Chemical of Concern	Concentration (µg/L)	Monitoring Well
Benzene	44,390*	MW-3
Ethylbenzene	3700*	MW-3
Naphthalene	6700*	MW-3

\*effective solubility

### Table of Variables – Initial Values from Tier II Assessment (2006)

Variable	Initial
Hydraulic Conductivity – K (ft/yr)	7976
Hydraulic gradient	0.008 (calculated)
Effective porosity (% as decimal)	0.3
Age of tanks	34.1
Source Width/Thickness (ft)	30/15
Bulk Density	1.50
GW Flow	Northeast
Receptor	WSW-2



## Notes

- MW-3 had historical free product in it – the effective solubility will be used in place of highest CoC concentration.
- The leading edge of the ethylbenzene has a high point at MW-6. Including this and modeling from that leading high point, both models are effective and product SSTLs above solubility for ethylbenzene regardless.
- The Naphthalene model had reduced the hydraulic conductivity from 7976 to 3750. The second model created higher values but a better fit for the calibration line. Neither model places any well over SSTLs from most recent sampling data.
- When site access is granted again, additional SSTLs can be calculated if any additional wells prove to be over the RBSLs.

Benzene Specific

Domenico Model		Transport Parameters		Simulation Time	
UST # 00332 Site Name: Interstate Truck Terminal Modeler: Gen Keller-Milliken Date: 3/10/2023		$x_{max}$ <input type="text" value="539"/> ft $y_{max}$ <input type="text" value="123"/> ft $z$ <input type="text" value="0"/> ft Source Width <input type="text" value="30"/> ft Source Thickness <input type="text" value="15"/> ft	$t_{sim}$ <input type="text" value="60"/> yrs		
Groundwater Flow Parameters		Aquifer Characteristics			
$K$ <input type="text" value="7479"/> ft/yr $dh/dx$ <input type="text" value="0.008"/> $\theta$ <input type="text" value="0.3"/> dec. % $v_x$ <input type="text" value="199.44"/> ft/yr	Plume Length <input type="text" value="600"/> ft $\alpha_x$ <input type="text" value="19.53555"/> ft $\alpha_y$ <input type="text" value="1.953555"/> ft $\alpha_z$ <input type="text" value="1.00E-99"/> ft	$\rho_d$ <input type="text" value="1.5"/> kg/L $f_{oc}$ <input type="text" value="0.0002"/>			

Source Area CoC Data			Retarded Velocity (ft/yr)			Simulation Points for Breakthrough Curves		
CoC	$C_{source}$ (mg/L)	$K_{oc}$ (L/kg)	CoC	R	$V_R$	x	y	z
Benzene	44.39	81	Benzene	1.081	184.50	<input type="text"/>	<input type="text"/>	<input type="text"/>
Toluene		133	Toluene	1.133	176.03	<input type="text"/>	<input type="text"/>	<input type="text"/>
Ethylbenzene		176	Ethylbenzene	1.176	169.59	<input type="text"/>	<input type="text"/>	<input type="text"/>
Xylenes		639	Xylenes	1.639	121.68	<input type="text"/>	<input type="text"/>	<input type="text"/>
Naphthalene		1543	Naphthalene	2.543	78.43	<input type="text"/>	<input type="text"/>	<input type="text"/>
MtBE		11	MtBE	1.011	197.27	<input type="text"/>	<input type="text"/>	<input type="text"/>
EDB		28	EDB	1.028	194.01	<input type="text"/>	<input type="text"/>	<input type="text"/>
1,2-DCA		17.5	1,2-DCA	1.018	196.01	<input type="text"/>	<input type="text"/>	<input type="text"/>

$$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right] \left\{ \operatorname{erf}\left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] \right\} \left\{ \operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right] \right\}$$

**Benzene Calibration**

**Spatial Calibration Data**  
(centerline)

x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	44.39	44.39
53.9		14.975
107.8		5.538
161.7	0.026	2.245
215.6	0.17	0.952
269.5	0.067	0.415
323.4	0.06	0.184
377.3	0.062	0.083
431.2		0.037
485.1		0.017
539	0.008	0.008

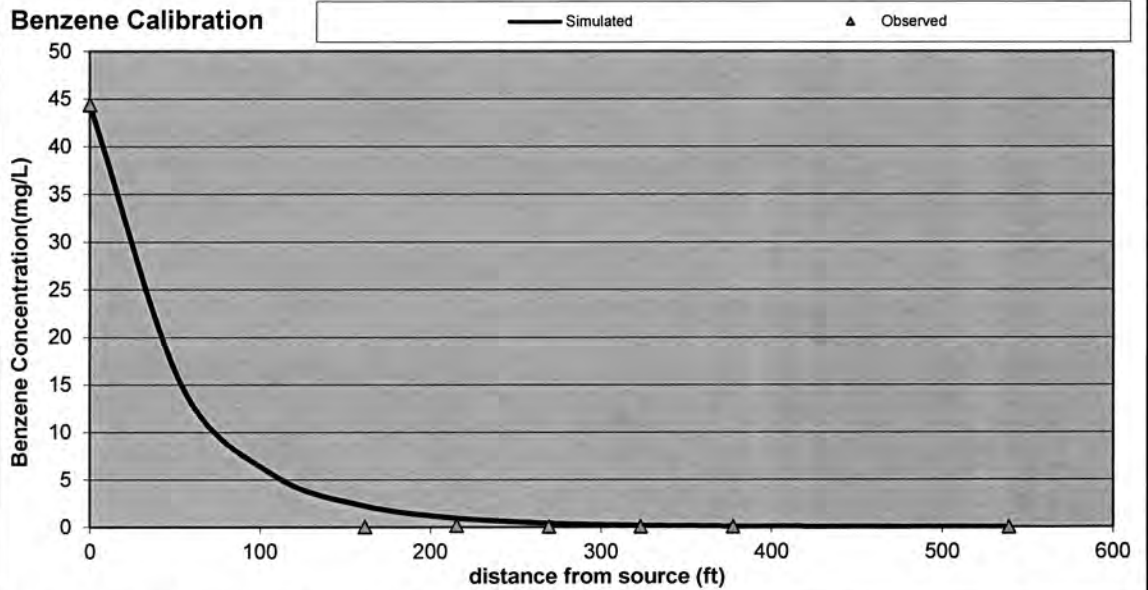
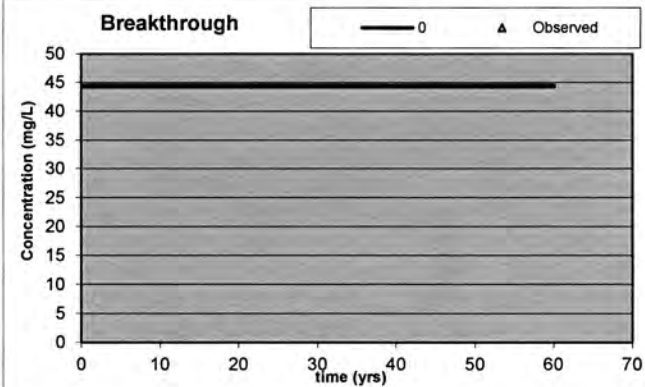
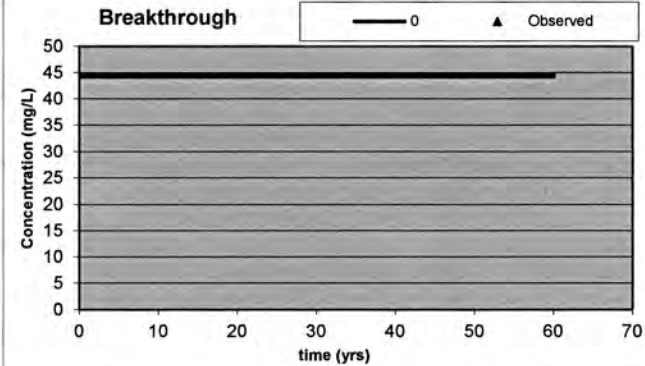
**Temporal Calibration Data**

t (yrs)	0		0	
	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0		44.39		44.39
6		44.390		44.390
12		44.390		44.390
18		44.390		44.390
24		44.390		44.390
30		44.390		44.390
36		44.390		44.390
42		44.390		44.390
48		44.390		44.390
54		44.390		44.390
60		44.390		44.390

Site ID 00332  
Site Name Interstate Truck Terminal

**Model Calibration Parameters**

t <sub>1/2</sub>	0.22 yrs	λ	3.15 yr <sup>-1</sup>
v <sub>x</sub>	199.44 ft/yr		
R	1.081		
v <sub>R</sub>	184.496 ft/yr	C <sub>source</sub>	44.39 mg/L
L <sub>p</sub>	600 ft	t <sub>sim</sub>	60 yrs
α <sub>x</sub>	19.53555 ft		
α <sub>y</sub>	1.953555 ft		
α <sub>z</sub>	1E-99 ft		



Source	53.9	107.8	161.7	215.6	269.5	323.4	377.3	431.2	485.1	539
123	1.0612E-12	7.3545E-07	4.3195E-05	0.00023684	0.00049662	0.0006399	0.000622	0.000507	0.000367	0.000244
61.5	0.01450818	0.12040879	0.15482154	0.1214919	0.0777185	0.0448272	0.024372	0.012775	0.006538	0.003291
0	14.974635	5.53773266	2.24497007	0.95214992	0.41474185	0.1838576	0.082526	0.037388	0.017061	0.00783
61.5	0.01450818	0.12040879	0.15482154	0.1214919	0.0777185	0.0448272	0.024372	0.012775	0.006538	0.003291
123	1.0612E-12	7.3545E-07	4.3195E-05	0.00023684	0.00049662	0.0006399	0.000622	0.000507	0.000367	0.000244

SSTLs

t 1000 yrs

UST Permit # 00332

Site Name: Interstate Truck Terminal

SSTLs in mg/L		RBSLs (mg/L): 0.005									
MW #	x (ft)	y (ft)	z (ft)	Benzene SSTL							
MW-2	596		0	64.270							
MW-6	590	0	0	58.977							
MW-14	642	0	0	124.030							
MW-21	526	0	0	23.503							
MW-22	557	0	0	36.728							
				$\lambda$ (yr <sup>-1</sup> ):	3.150						
				R:	1.081						
				Pure Substance Solubility:	1750						
				Effective Solubility:	44.39						

*Ethylbenzene, Specific*

<b>Domenico Model</b>			<b>Transport Parameters</b>		<b>Simulation Time</b>	
UST # 00332 Site Name: Interstate Truck Terminal Modeler: Gen Keller-Milliken Date: 3/10/23			$x_{max}$ <input type="text" value="339"/> ft $y_{max}$ <input type="text" value="123"/> ft $z$ <input type="text" value="0"/> ft Source Width <input type="text" value="30"/> ft Source Thickness <input type="text" value="15"/> ft	$t_{sim}$ <input type="text" value="60"/> yrs		
<b>Groundwater Flow Parameters</b>					<b>Aquifer Characteristics</b>	
$K$ <input type="text" value="7479"/> ft/yr $dh/dx$ <input type="text" value="0.008"/> $\theta$ <input type="text" value="0.3"/> dec. % $v_x$ <input type="text" value="199.44"/> ft/yr			Plume Length <input type="text" value="400"/> ft $\alpha_x$ <input type="text" value="16.06461"/> ft $\alpha_y$ <input type="text" value="1.606461"/> ft $\alpha_z$ <input type="text" value="1.00E-99"/> ft	$\rho_d$ <input type="text" value="1.5"/> kg/L $f_{oc}$ <input type="text" value="0.0002"/>		

<b>Source Area CoC Data</b>			<b>Retarded Velocity (ft/yr)</b>			<b>Simulation Points for Breakthrough Curves</b>		
CoC	$C_{source}$ (mg/L)	$K_{oc}$ (L/kg)	CoC	R	$V_R$	$x$		$x$
Benzene	2.5	81	Benzene	1.081	184.50	<input type="text"/>	ft	<input type="text"/>
Toluene		133	Toluene	1.133	176.03	<input type="text"/>	ft	<input type="text"/>
Ethylbenzene		176	Ethylbenzene	1.176	169.59	<input type="text"/>	ft	<input type="text"/>
Xylenes		639	Xylenes	1.639	121.68	<input type="text"/>	ft	<input type="text"/>
Naphthalene		1543	Naphthalene	2.543	78.43	<input type="text"/>	ft	<input type="text"/>
MtBE		11	MtBE	1.011	197.27	<input type="text"/>		
EDB		28	EDB	1.028	194.01	<input type="text"/>		
1,2-DCA		17.5	1,2-DCA	1.018	196.01	<input type="text"/>		

$$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right] \left\{ \operatorname{erf}\left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] \right\} \left\{ \operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right] \right\}$$

### Ethylbenzene Calibration

#### Spatial Calibration Data

(centerline) x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	2.5	2.5
33.9		1.808
67.8	1.25	1.251
101.7		0.915
135.6	1.17	0.693
169.5		0.536
203.4	0.902	0.421
237.3		0.335
271.2		0.268
305.1		0.216
339	0.156	0.175

#### Temporal Calibration Data

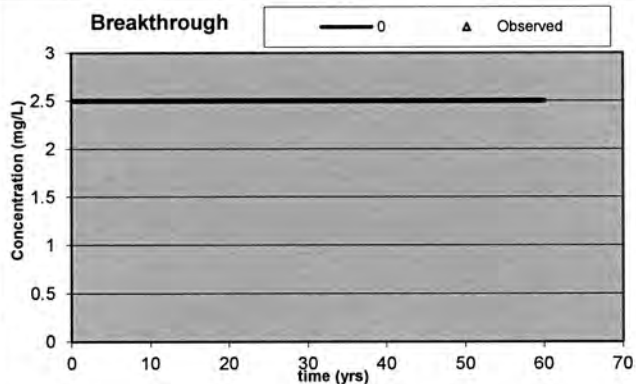
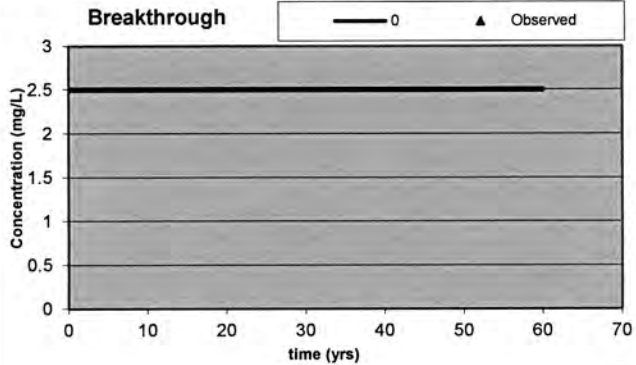
t (yrs)	0		0	
	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0		2.5		2.5
6		2.500		2.500
12		2.500		2.500
18		2.500		2.500
24		2.500		2.500
30		2.500		2.500
36		2.500		2.500
42		2.500		2.500
48		2.500		2.500
54		2.500		2.500
60		2.500		2.500

Site ID 00332

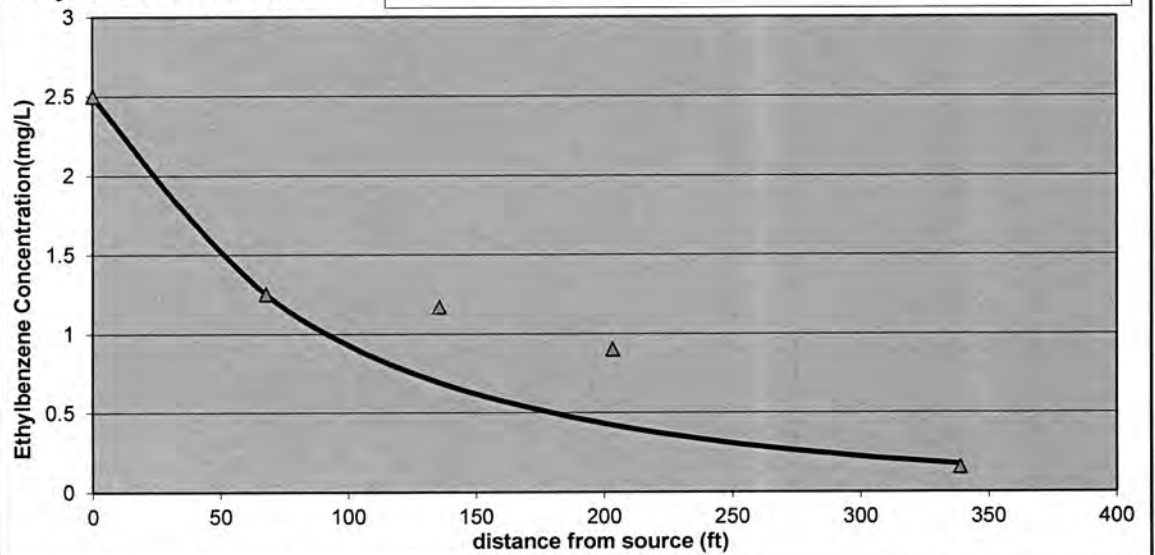
Site Name Interstate Truck Terminal

#### Model Calibration Parameters

t <sub>1/2</sub>	0.8	yrs	λ	0.86625	yr <sup>-1</sup>
v <sub>x</sub>	199.44	ft/yr			
R	1.176				
v <sub>R</sub>	169.592	ft/yr	C <sub>source</sub>	2.5	mg/L
L <sub>p</sub>	400	ft	t <sub>sim</sub>	60	yrs
α <sub>x</sub>	16.06461	ft			
α <sub>y</sub>	1.606461	ft			
α <sub>z</sub>	1E-99	ft			



### Ethylbenzene Calibration



Source	33.9	67.8	101.7	135.6	169.5	203.4	237.3	271.2	305.1	339
123	0	2.2905E-13	1.7786E-09	1.503E-07	2.0631E-06	1.136E-05	3.7E-05	8.65E-05	0.000162	0.000259
61.5	8.9046E-06	0.00147631	0.00777264	0.01684474	0.02530874	0.0314909	0.035091	0.036454	0.03612	0.034617
0	1.80783643	1.2513199	0.91545081	0.69307725	0.53638516	0.4214537	0.334822	0.268236	0.21631	0.175363
61.5	8.9046E-06	0.00147631	0.00777264	0.01684474	0.02530874	0.0314909	0.035091	0.036454	0.03612	0.034617
123	0	2.2905E-13	1.7786E-09	1.503E-07	2.0631E-06	1.136E-05	3.7E-05	8.65E-05	0.000162	0.000259

SSTLs

t 1000 yrs

UST Permit # 00332

Site Name: Interstate Truck Terminal

SSTLs in mg/L		RBSLs (mg/L):			0.700						
MW #	x (ft)	y (ft)	z (ft)			Ethylbenzene SSTL					
MW-2	596	0	0			44.160					
MW-6	590	0	0			42.712					
MW-14	642	0	0			56.936					
MW-21	526	0	0			29.835					
MW-22	557	0	0			35.525					
				$\lambda$ (yr <sup>-1</sup> ):		0.866					
				R:		1.176					
				Pure Substance Solubility:		169					
				Effective Solubility:		3.7					



**Domenico Model**

UST # 00332  
 Site Name: Interstate Truck Terminal  
 Modeler: Gen Keller-Milliken  
 Date: 6/8/2022

**Transport Parameters**

$x_{max}$	539	ft
$y_{max}$	123	ft
$z$	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	600	ft
$\alpha_x$	19.53555	ft
$\alpha_y$	1.953555	ft
$\alpha_z$	1.00E-99	ft

**Simulation Time**

$t_{sim}$  60 yrs

**Groundwater Flow Parameters**

K	3750	ft/yr
dh/dx	0.008	
$\theta$	0.3	dec. %
$v_x$	100	ft/yr

**Aquifer Characteristics**

$\rho_d$	1.5	kg/L
$f_{oc}$	0.0002	

**Retarded Velocity (ft/yr)**

**Source Area CoC Data**

CoC	$C_{source}$ (mg/L)	$K_{oc}$ (L/kg)	CoC	R	$v_R$
Benzene		81	Benzene	1.081	92.51
Toluene		133	Toluene	1.133	88.26
Ethylbenzene		176	Ethylbenzene	1.176	85.03
Xylenes		639	Xylenes	1.639	61.01
Naphthalene	6.7	1543	Naphthalene	2.543	39.32
MtBE		11	MtBE	1.011	98.91
EDB		28	EDB	1.028	97.28
1,2-DCA		17.5	1,2-DCA	1.018	98.28

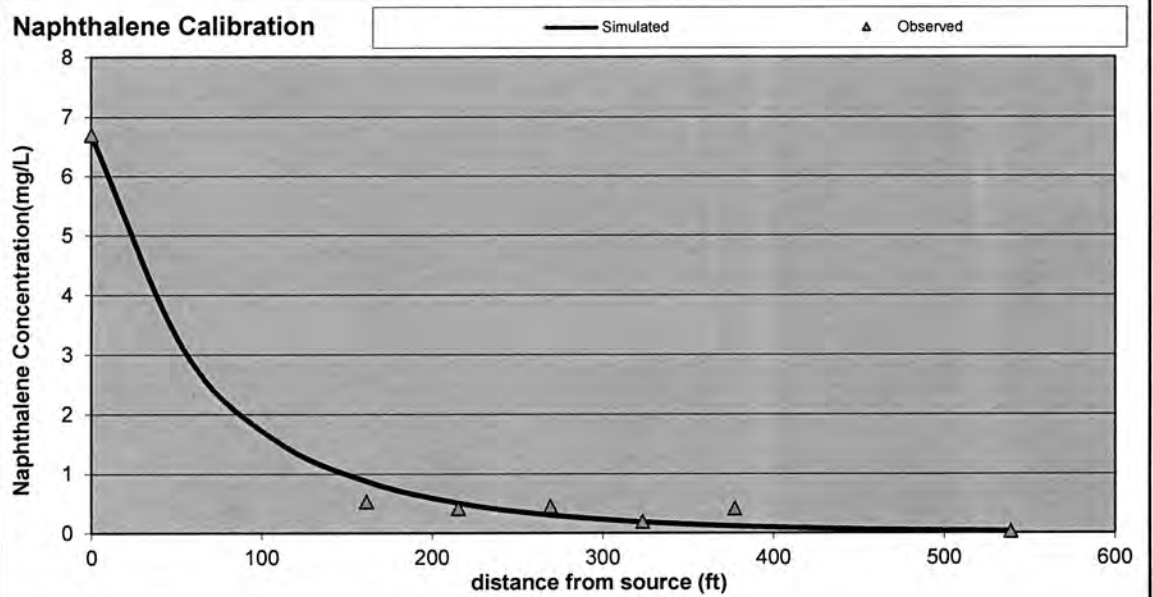
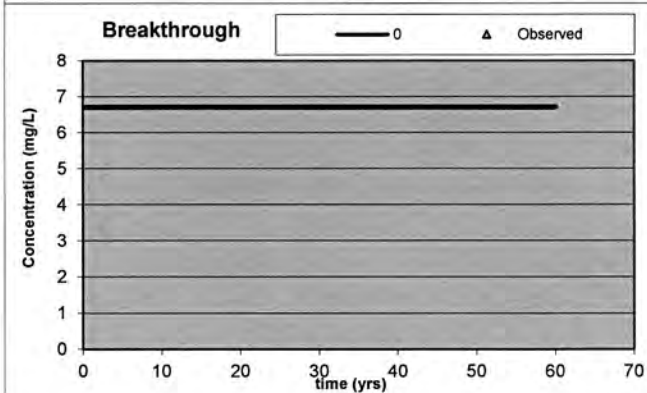
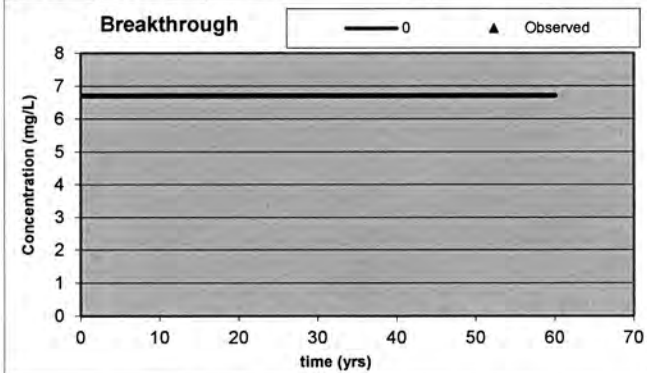
**Simulation Points for Breakthrough Curves**

x		ft
y		ft
z		ft

$$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right] \left\{ \operatorname{erf}\left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] \right\} \left\{ \operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right] \right\}$$



Naphthalene Calibration									
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID 00332		
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Site Name Interstate Truck Terminal	
0	6.7	6.7	0		6.7		6.7	Model Calibration Parameters	
53.9		3.097	6		6.700		6.700	t <sub>1/2</sub>	2 yrs
107.8		1.569	12		6.700		6.700	v <sub>x</sub>	100 ft/yr
161.7	0.53	0.872	18		6.700		6.700	R	2.543
215.6	0.414	0.507	24		6.700		6.700	v <sub>R</sub>	39.324 ft/yr
269.5	0.45	0.302	30		6.700		6.700	L <sub>p</sub>	600 ft
323.4	0.193	0.184	36		6.700		6.700	α <sub>x</sub>	19.53555 ft
377.3	0.415	0.113	42		6.700		6.700	α <sub>y</sub>	1.953555 ft
431.2		0.070	48		6.700		6.700	α <sub>z</sub>	1E-99 ft
485.1		0.044	54		6.700		6.700	C <sub>source</sub>	6.7 mg/L
539	0.0246	0.028	60		6.700		6.700	t <sub>sim</sub>	60 yrs



Source	53.9	107.8	161.7	215.6	269.5	323.4	377.3	431.2	485.1	539
123	2.1949E-13	2.0843E-07	1.6775E-05	0.00012604	0.00036214	0.0006394	0.000852	0.000951	0.000943	0.000859
61.5	0.00300065	0.03412517	0.06012588	0.06465332	0.05667368	0.0447932	0.033371	0.023969	0.016809	0.011595
0	3.09712956	1.56945398	0.8718477	0.50669763	0.30243697	0.1837182	0.113	0.070151	0.043864	0.027585
61.5	0.00300065	0.03412517	0.06012588	0.06465332	0.05667368	0.0447932	0.033371	0.023969	0.016809	0.011595
123	2.1949E-13	2.0843E-07	1.6775E-05	0.00012604	0.00036214	0.0006394	0.000852	0.000951	0.000943	0.000859

SSTLs

t 1000 yrs

UST Permit # 00332

Site Name: Interstate Truck Terminal

SSTLs in mg/L				RBSLs (mg/L):				0.025			
MW #	x (ft)	y (ft)	z (ft)					Naphthalene SSTL			
MW-2	596		0					9.866			
MW-6	590	0	0					9.377			
MW-14	642	0	0					14.552			
MW-21	526	0	0					5.432			
MW-22	557	0	0					7.082			
				$\lambda$ (yr <sup>-1</sup> ):				0.347			
				R:				2.543			
				Pure Substance Solubility:				31			
				Effective Solubility:				6.7			

Table #1  
 Summary of Analytical Results - Water Samples  
 00332/63421 Interstate Truck  
 Facility ID# 00332

Analytical Method		EPA 8011	EPA 8260D																
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
		Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP-1	10/13/2021	<0.0078	<25.8	<674	<21.8	<43.6	<1800	<106	<b>1330</b>	<38.8	<b>145</b>	231	4080	3970	105	<820	<38.0	<1140	<301
DUP-2	10/13/2021	<0.0080	<25.8	<674	<21.8	<43.6	<1800	<106	<b>794</b>	<38.8	<b>308</b>	48.9 J	2860	2860	<25.5	<820	<38.0	<1140	<301
FB	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-1	10/13/2021	<0.0077	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-10	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-12	10/13/2021	<0.0078	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	23.5	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-13	10/13/2021	<0.0083	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-14	10/13/2021	<0.0082	<4.1	<108	<b>3.9 J</b>	<7.0	<288	<16.9	278	<6.2	<b>47.3</b>	38.0	677	677	<4.1	<131	<6.1	<182	<48.2
MW-15	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-17	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-18	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-19	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-2	10/13/2021	<0.0080	<25.8	<674	<21.8	<43.6	<1800	<106	<b>1240</b>	<38.8	<b>119</b>	208	3470	3360	105	<820	<38.0	<1140	<301
MW-20	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-21	10/13/2021	<0.0077	<2.1	<53.9	<1.7	<3.5	<144	<8.5	70.0	<3.1	<b>26.7</b>	24.9	403	305	98.0	<65.6	<3.0	<91.0	<24.1
MW-22	10/13/2021	<0.0086	<25.8	<674	<21.8	<43.6	<1800	<106	<b>893</b>	<38.8	<b>339</b>	57.7 J	3440	3440	<25.5	<820	<38.0	<1140	<301
MW-3	10/13/2021	<0.0079	<2.1	<53.9	2.7 J	<3.5	<144	<8.5	94.4	<3.1	15.2	23.4	319	212	107	<65.6	<3.0	<91.0	<24.1
MW-4R	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	33.6	<3.1	12.1	4.4 J	276	267	8.6	<65.6	<3.0	<91.0	<24.1
MW-5R	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	13.6	<3.1	18.9	<2.0	7.6	7.6 J	<2.0	<65.6	<3.0	<91.0	<24.1
MW-6	10/13/2021	<0.0079	<8.2	<216	<b>19.2 J</b>	<14.0	<576	<33.8	156	<12.4	<b>108</b>	9.9 J	805	805	<8.2	<262	<12.2	<364	<96.4
MW-7	10/13/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-8	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-9	10/13/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	5.6	<3.1	10.2	<2.0	8.8	8.8 J	<2.0	<65.6	<3.0	<91.0	<24.1
TB	10/13/2021	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-1	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-2	10/13/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-3	10/13/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-4	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-5	10/13/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
dw-6	10/13/2021	<0.0078	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

NOTES:

ND = Not Detected

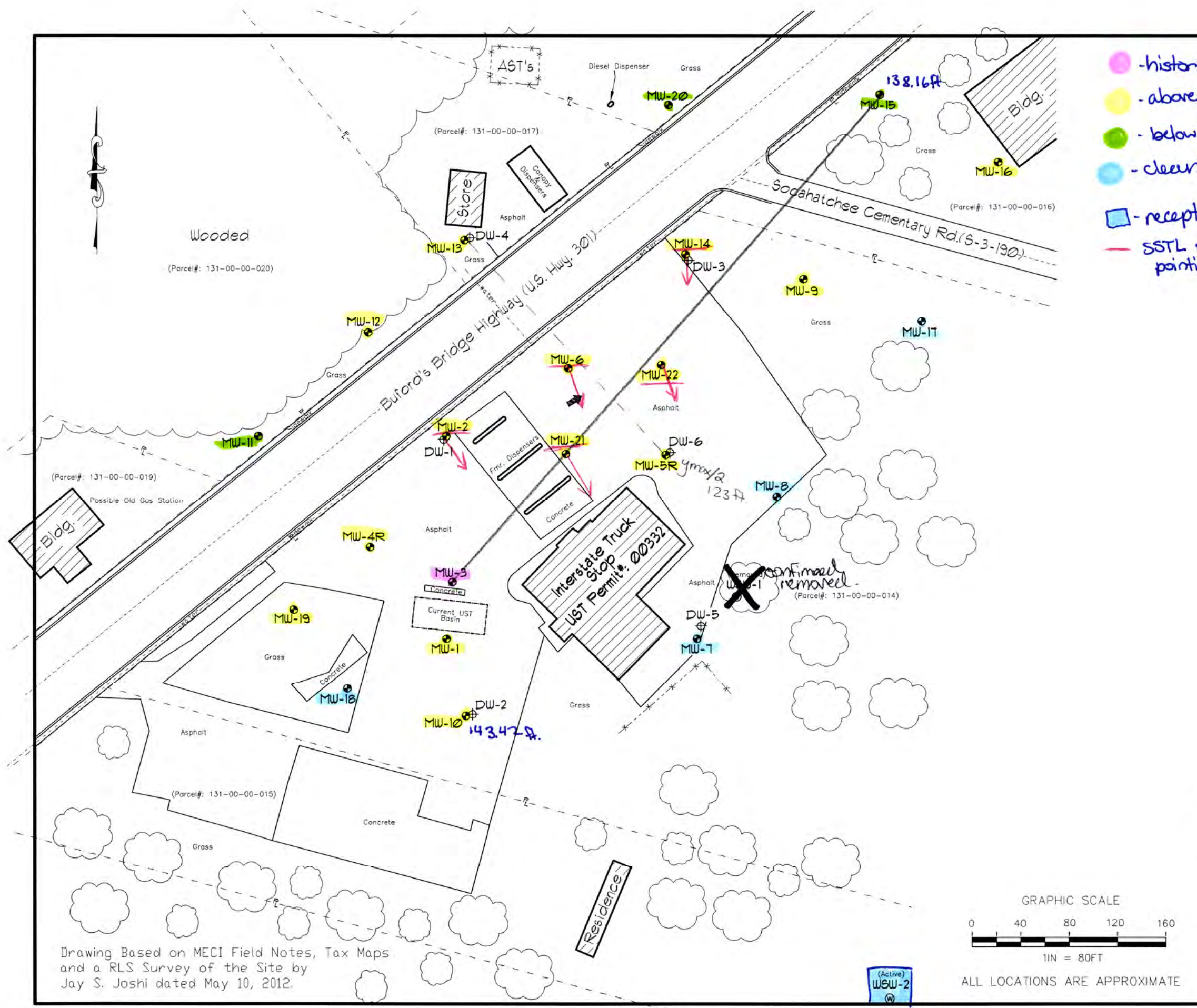
ft. BGS = feet below ground surface

mg/L = milligrams per liter

ug/L = micrograms per liter

**Bold data above the RBSL (Risk Based Screening Level)**



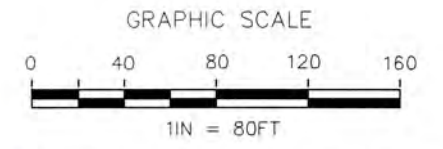


- -historic FP
- -above RBSL
- - below RBSL
- - clean
- receptor
- SSTL wells pointing to receptor.

**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊗ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- - - Property Line
- - water - - Buried Water Line
- - - fence - - - Fence

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated May 10, 2012.



<b>Site Base Map</b>	
Interstate Truck Stop U.S. Highway 321 & S-3-190 Ulmer, South Carolina SCDHEC Site ID 00332	
	JOB NO. 21-7655 DATE November 2, 2021 FIGURE <span style="font-size: 2em; font-weight: bold;">2</span>



MW ID	Sampling Date	Screened Interval	GW Depth	TOC Elevation	GW Elevation	Free Product	Benzene	Toluene	Ethylb	Xylene	MtBE	Naphth	EDB	1,2 DCA	ETBE	ETBA	TAME	DIPE	Ethanol	TBF	TBA	TAA	Lead	
RBSL (ug/L)							5	1000	700	10,000	40	25	0.05	5	47	NE	128	150	10,000	NE	1400	240	15	
MW-1	9/19/02	25-35'	30.06				<5.0	<5.0	<5.0	<15	<5.0	<5.0	<0.020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	25
	4/6/05		28.11	100.00	71.89		78.4	3400	1730	7880	<0.2	153	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	100
	9/6/06		28.88	103.24	74.36		<0.67	1.2	1.4	2.9	<0.62	4.0	<0.0049	<0.82	<1.1	<1.7	<1.1	<0.89	<55	<18	<1.1	<15	<3.9	
	12/10/08		29.58	103.24	73.66		6.42	3.71	33.5	69.52	<0.18	12.5	<0.0051	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		25.00	103.24	78.24		3.5	18.6	28.7	63	<2.0	14.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		28.72	103.24	74.52		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	10/5/11 DUP		28.72	103.24	74.52		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12		30.05	165.08	135.03		2.4	<1.7	4.3	2.9	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12 DUP		30.05	165.08	135.03		2.6	<1.7	5.5	3.5	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		25.15	165.08	139.93		3.3	2.9	31	83	<0.40	3.8	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13 DUP		25.15	165.08	139.93		3.4	3.1	36	100	<0.40	3.6	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	17	26	NS	
	2/16/16		22.81	165.08	142.27		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	2/16/16 DUP		22.81	165.08	142.27		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		25.55	165.08	139.53		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	11/14/17 DUP		25.55	165.08	139.53		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
8/29/18		25.90	165.08	139.18		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS		
9/27/19		27.61	165.08	137.47		<5	<5	<5	<10	<5	<5	<0.019	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
10/13/21		22.91	165.08	142.17		<5	<5	<5	<10	<5	<5	<0.019	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
MW-2	9/19/02	25-35'	29.88				<500	3800	1300	4300	<5.0	140	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	54
	4/6/05		28.18	100.93	72.75		2.4	4.7	17.8	35.5	<0.2	2.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1.2
	9/6/06		28.64	102.49	73.85		180	4400	2200	11000	<12	200	0.24	<16	<22	<340	<22	<18	<1100	<360	<22	<300	109	
	12/10/08		29.44	102.49	73.05		154	2180	1450	5450	<1.80	271	0.099	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	14
	4/8/10		25.09	102.49	77.40		160	1890	969	2540	<2.0	237	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		28.60	102.49	73.89		200	6500	2600	9300	<1.6	<68	0.039	<12	<8.0	<40	<8.0	<16	<1300	<40	<270	1900	NS	
	5/16/12		29.95	164.19	134.24		150	4600	2100	14000	<8.0	320	0.089	<6.0	<4.0	<20	<4.0	<8.0	<660	<20	<130	<130	NS	
	6/10/13		25.63	164.19	138.56		67	820	1300	5000	<20	150	0.029	<15	<10	<50	<10	<20	<1700	<50	<340	<340	NS	
	6/10/13 DUP		25.63	164.19	138.56		70	820	1400	5300	<20	170	0.03	<15	<10	<50	<10	<20	<1700	<50	<340	600	NS	
	2/16/16		22.97	164.19	141.22		<21.2	155	1180	3840	<21.2	133	<0.020	<22.5	<45	<401	<42.5	<21.2	<1720	<91.2	<721	<960	NS	
	2/16/16 DUP		22.97	164.19	141.22		<21.2	144	1180	3810	<21.2	137	<0.020	<22.5	<45	<401	<42.5	<21.2	<1720	<91.2	<721	<960	NS	
	11/14/17		25.59	164.19	138.60		<21.2	81.5	954	3040	<21.2	104	<0.019	<22.5	<45	<401	<42.5	<21.2	<1640	<91.2	<721	<960	NS	
	8/29/18		25.82	164.19	138.37		<21.2	490	1110	3780	<21.2	177	<0.020	<22.5	<45	<401	<42.5	<21.2	<1640	<91.2	<721	<960	NS	
	8/29/18 DUP		25.82	164.19	138.37		<17	565	1050	3230	<17	135	<0.020	<18	<36	<321	<34	<17	<1310	<73	<577	<768	NS	
	9/27/19		27.46	164.19	136.73		<100	509	1620	5310	<100	187	<0.02	<100	<200	<2000	<200	<100	<4000	<1000	<2000	<2000	NS	
9/27/19 DUP		27.46	164.19	136.73		<100	461	1390	4500	<100	204	<0.02	<100	<200	<2000	<200	<100	<4000	<1000	<2000	<2000	NS		
10/13/21		24.41	164.19	139.78		<62.5	208	1240	3470	<62.5	119	<0.02	<62.5	<125	<1250	<125	<62.5	<2500	<625	<1250	<1250	NS		
10/13/21 Dup		24.41	164.19	139.78		<62.5	231	1330	4080	<62.5	145	<0.02	<62.5	<125	<1250	<125	<62.5	<2500	<625	<1250	<1250	NS		
MW-3	4/6/05	24-34'	28.52	101.08	72.56		6.1	132	532	2590	<0.2	171	0.09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	42
	9/6/06		28.14	103.46	75.32		<13	29	130	650	<12	<80	<0.0050	<16	<22	<340	<22	<18	<1100	<360	<22	<300	<3.9	
	12/10/08		30.35			1.5'	6.5	52.6	234	1766	<0.90	268	<0.0050	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	11
	4/8/10		26.74	103.46	76.72		7.8	133	1120	5270	<2.0	93.1	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		29.05	103.46	74.41		2.3	6.2	39	110	<0.40	40	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	38	NS	
	10/5/11 DUP		29.05	103.46	74.41		1.9	5.6	30	93	<0.40	36	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	39	NS	
	5/16/12		30.92	165.26	134.81	0.55'	1.7	<1.7	9.6	44	<0.40	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/10/13		25.85	165.26	139.41		5.4	48	98	320	<2.0	9	0.26	<1.5	<1.0	<5.0	<1.0	<2.0	<170	<5.0	36	350	NS	
	2/16/16		23.01	165.26	142.25		<4.2	11.8	235	1070	<4.2	112	<0.019	<4.5	<9.0	<80.2	<8.5	<4.2	<344	<18.2	<144	<192	NS	
	11/14/17		26.00	165.26	139.26		<1.7	5	100	356	<1.7	19.1	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		26.23	165.26	139.03		<1.7	<1.6	100	367	<1.7	24.9	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
8/29/18 DUP		26.23	165.26	139.03		<1.7	<1.6	24.3	72.8	<1.7	5.3	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS		
9/27/19		27.90	165.26	137.36		<5	<5	54.6	162	<5	15.9	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
10/13/21		23.91	165.26	141.35		2.7 J	23.4	94.4	319	<5	15.2	<0.019	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
MW-4	4/6/05	24-34'	25.63	99.10																				

MW ID	Sampling Date	Screened Interval	GW Depth	TOC Elevation	GW Elevation	Free Product	Benzene	Toluene	Ethylb	Xylene	MtBE	Naphth	EDB	1,2 DCA	ETBE	ETBA	TAME	DIPE	Ethanol	TBF	TBA	TAA	Lead	
RBSL (ug/L)							5	1000	700	10,000	40	25	0.05	5	47	NE	128	150	10,000	NE	1400	240	15	
	11/14/17		28.00	165.98	137.98		<1.7	<1.6	63.7	194	<1.7	31.4	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		28.42	165.98	137.56		<3.4	<3.2	149	590	<3.4	142	<0.020	<3.6	<7.2	<64.2	<6.8	<3.4	<262	<14.6	<115	<154	NS	
	9/27/19		30.04	165.98	135.94		<10	<10	156	598	<10	124	<0.019	<10	<20	<200	<20	<10	<400	<100	<200	<200	NS	
	10/13/21		26.78	165.98	139.20		<5	<5	13.6	7.6	<5	18.9	<0.019	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS	
MW-6	9/13/06	25-35'	28.51	101.38	72.87		160	2500	680	5600	<6.2	150	<0.0046	<8.2	<11	<170	<11	<8.9	<550	<180	<11	<150	6.3	
	12/10/08		29.26	101.38	72.12		170	2450	1360	5490	<1.8	414	0.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	28
	4/8/10		25.31	101.38	76.07		109	845	143	3790	<2.0	168	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		28.45	101.38	72.93		50	390	230	1300	<0.40	170	<0.021	1.8	<4.0	<20	<4.0	<8.0	<660	<20	190	2000	NS	
	5/16/12		29.80	163.38	133.58		43	1300	1100	5100	<8.0	300	<0.020	<6.0	<4.0	<20	<4.0	<8.0	<660	<20	<130	2500	NS	
	6/10/13		25.53	163.38	137.85		110	580	370	1600	<4.0	210	<0.020	<3.0	<2.0	<10	<2.0	<4.0	<330	<10	<67	570	NS	
	2/16/16		23.03	163.38	140.35		38.6	292	628	2540	<17	203	<0.019	<18	<36	<321	<34.0	<17	<1380	<73	<577	<768	NS	
	11/14/17		25.52	163.38	137.86		34.7	101	577	2200	<17	242	<0.020	<18	<36	<321	<34	<17	<1310	<73	<577	<768	NS	
	8/29/18		25.75	163.38	137.63		20.4	95.8	406	1930	<17	209	<0.020	<18	<36	<321	<34	<17	<1310	<73	<577	<768	NS	
	9/27/19		28.33	163.38	135.05		<50	104	632	2950	<50	166	<0.019	<50	<100	<1000	<100	<50	<2000	<500	<1000	<1000	NS	
10/13/21		24.19	163.38	139.19		19.2 J	9.9 J	156	805	<20	108	<0.20	<20	<40	<400	<40	<20	<800	<200	<400	<400	NS		
MW-7	9/7/06	25-35'	31.10	104.36	73.26		<0.67	<0.68	<0.66	1.8	<0.62	<4.0	<0.0047	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	27.4	
	12/10/08		31.91	104.36	72.45		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0049	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		27.24	104.36	77.12		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		31.10	104.36	73.26		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12		32.35	166.41	134.06		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		22.83	166.41	143.58		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		25.16	166.41	141.25		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		27.90	166.41	138.51		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		28.51	166.41	137.90		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	9/27/19		29.95	166.41	136.46		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS	
10/13/21		21.87	166.41	144.54		<5	<5	<5	<10	<5	<5	<0.019	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
MW-8	9/13/06	25-35'	30.03	102.76	72.73		<0.67	2	<0.66	2	<0.62	<4.0	<0.0046	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	<3.9	
	12/10/08		31.07	102.76	71.69		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0049	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	46
	4/8/10		26.54	102.76	76.22		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		30.30	102.76	72.46		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12		31.59	164.79	133.20		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		27.18	164.79	137.61		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		24.78	164.79	140.01		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	194	<7.3	<57.7	<76.8	NS	
	11/14/17		27.21	164.79	137.58		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		27.63	164.79	137.16		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	9/27/19		29.22	164.79	135.57		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS	
10/13/21		26.00	164.79	138.79		<5	<5	<5	<10	<5	<5	<0.019	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
MW-9	9/7/06	25-35'	28.12	99.67	71.55		180	2900	750	5000	<6.2	290	<0.0051	<8.2	<11	<170	<11	<8.9	<550	<180	<11	<150	14.2	
	12/10/08		28.79	99.67	70.88		62.8	1540	284	3580	<0.18	167	0.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	11
	4/8/10		25.89	99.67	73.78		3.7	1.8	2.4	22	<2.0	4.7	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		28.12	99.67	71.55		42	430	180	2200	<4.0	180	<0.019	<3.0	<2.0	<10	<2.0	<4.0	<330	<10	<67	480	NS	
	5/16/12		29.40	161.70	132.30		17	<8.5	<8.5	<8.5	25	53	<0.020	<1.5	<1.0	<5.0	<1.0	440	<170	<5.0	1100	<34	NS	
	6/10/13		25.09	161.70	136.61		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		22.65	161.70	139.05		8.3	29.5	49.1	419	<3.4	220	<0.020	<3.6	<7.2	<64.2	<6.8	<3.4	<276	<14.6	<115	<154	NS	
	11/14/17		25.15	161.70	136.55		<8.5	95.1	220	1300	<8.5	415	<0.019	<9.0	<18	<160	<17	<8.5	<655	<36.5	<288	<384	NS	
	8/29/18		25.39	161.70	136.31		<4.2	74	82.1	759	<4.2	145	<0.019	<4.5	<9.0	<80.2	<8.5	<4.2	<328	<18.2	<144	<192	NS	
	9/27/19		27.03	161.70	134.67		<50	89.5	726	2930	<50	326	<0.02	<50	<100	<1000	<100	<50	<2000	<500	<1000	<1000	NS	
9/27/19 DUP		27.03	161.70	134.67		<50	145	902	3450	<50	376	<0.02	<50	<100	<1000	<100	<50	<2000	<500	<1000	<1000	NS		
10/13/21		23.75	161.70	137.95		<5	<5	5.6	8.8	<5	10.2	<0.019	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
MW-10	9/7/06	25-35'	28.01	102.33	74																			



MW ID	Sampling Date	Screened Interval	GW Depth	TOC Elevation	GW Elevation	Free Product	Benzene	Toluene	Ethylb	Xylene	mTBE	Naphth	EDB	1,2 DCA	ETBE	ETBA	TAME	DIPE	Ethanol	TBF	TBA	TAA	Lead	
RBSL (ug/L)							5	1000	700	10,000	40	25	0.05	5	47	NE	128	150	10,000	NE	1400	240	15	
	10/13/21						Not Located																	
MW-12	9/13/06	25-35'	25.79	99.29	73.50		<0.67	<0.68	<0.66	<1.8	<0.62	<4.0	<0.0046	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	<3.9	
	12/10/08		26.18	99.29	73.11		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0050	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		23.41	99.29	75.88		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		25.59	99.29	73.70		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12		27.20	161.36	134.16		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		23.00	161.36	138.36		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		20.43	161.36	140.93		<1.7	3.7	12.6	20.1	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		22.70	161.36	138.66		9.5	130	81.3	488	<1.7	17.9	0.028	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	11/14/17 DUP		22.70	161.36	138.66		3.7	33.2	26.2	134	<1.7	7	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		23.10	161.36	138.26		3.4	2.1	<1.6	<5.0	<1.7	5.2	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
9/27/19		24.02	161.36	137.34		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
10/13/21		21.50	161.36	139.86		<5	<5	23.5	<10	<5	<5	<0.019	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
MW-13	9/13/06	25-35'	26.82	99.71	72.89		<0.67	1.3	<0.66	1.1	<0.62	<4.0	<0.0048	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	<3.9	
	12/10/08		27.23	99.71	72.48		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0051	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		25.42	99.71	74.29		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		26.75	99.71	72.96		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12		28.05	161.90	133.85		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		25.10	161.90	136.80		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		21.40	161.90	140.50		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		23.86	161.90	138.04		6.1	<1.6	<1.6	<5.0	<1.7	10.2	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		24.05	161.90	137.85		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	9/27/19		25.72	161.90	136.18		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS	
10/13/21		22.61	161.90	139.29		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
MW-14	9/7/06	25-35'	28.12	99.32	71.20		79	4800	1500	8100	<6.2	150	0.18	<8.2	<11	<170	<11	<8.9	<550	<180	<11	<150	42.7	
	12/10/08		27.91	99.32	71.41		28.1	3220	1080	6140	<0.18	167	<0.0049	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	12
	4/8/10		25.19	99.32	74.13		107	3100	445	5120	<20.0	151	NS	<13.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11						Not Located																	
	5/16/12		28.25	161.32	133.07		230	20000	2700	15000	<40	1100	0.46	<30	<20	<100	<20	<40	<3300	<100	<670	12000	NS	
	6/10/13		24.43	161.32	136.89		60	2000	770	3300	<20	<85	0.069	<15	<10	<50	<10	<20	<1700	<50	<340	<340	NS	
	2/16/16		21.84	161.32	139.48		33.1	250	675	2890	<8.5	134	<0.019	<9.0	<18	<160	<17	<8.5	<689	<36.5	<288	<384	NS	
	11/14/17		24.30	161.32	137.02		46.3	196	783	2780	<34	199	<0.019	<36	<72	<642	<68	<34	<2620	<146	<1150	<1540	NS	
	8/29/18		24.58	161.32	136.74		<21.2	899	899	3380	<21.2	116	<0.019	<22.5	<45	<401	<42.5	<21.2	<1640	<91.2	<721	<960	NS	
	9/27/19		26.18	161.32	135.14		<62.5	509	1170	3890	<62.5	193	<0.019	<62.5	<125	<1250	<125	<62.5	<2500	<625	<1250	<1250	NS	
10/13/21		23.21	161.32	138.11		3.9 J	38	278	677	<10	47.3	<0.02	<10	<20	<200	<20	<10	<400	<100	<200	<200	NS		
MW-15	12/10/08	15-35'	28.14	97.95	69.81		<0.16	2.78	<0.19	<0.71	<0.18	<0.22	<0.0049	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	17
	4/8/10		25.19	97.95	72.76		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		27.74	97.95	70.21		0.28	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12		28.89	160.07	131.18		<0.20	<1.7	<1.7	<1.7	<0.40	<1.0	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		24.62	160.07	135.45		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		22.29	160.07	137.78		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		24.75	160.07	135.32		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		24.89	160.07	135.18		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	9/27/19		26.63	160.07	133.44		8.0 J	333	156	628	<20	24.6	<0.02	<20	<40	<400	<40	<20	<800	<200	<400	<400	NS	
	10/13/21		21.91	160.07	138.16		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS	
MW-16	12/10/08	15-35'	30.52	99.94	69.42		32.4	303	137	3150	<0.18	263	<0.0048	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/15/09						26	152	76.7	1310	<10.0	182	NS	<6.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/8/10						Not Located																	
	10/5/11		30.00	99.94	69.94		50	73	270	2400	<4.0	490	<0.020	<3.0	<0.80	<4.0	<0.80	<1.6	<130	<4.0	<27	230	NS	
	5/16/12		31.12	162.01	130.89		18	180	330	4400	<4.0	440	<0.019	<3.0	<2.0	<10	<2.0	<4.0	<330	<10	<67	1200	NS	
	6/10/13		26.83	162.01	135.18		4.4	<8.5	<8.5	640	<2.0	150	<0.020	<2.5	<1.0	<5.0	<1.0	<2.0	<170	<5.0	<34	<34	NS	
	2/16/16						Not Sampled/ Dry																	
	11/14/17																							

MW ID	Sampling Date	Screened Interval	GW Depth	TOC Elevation	GW Elevation	Free Product	Benzene	Toluene	Ethylb	Xylene	MtBE	Naphth	EDB	1,2 DCA	ETBE	ETBA	TAME	DIPE	Ethanol	TBF	TBA	TAA	Lead								
RBSL (ug/L)							5	1000	700	10,000	40	25	0.05	5	47	NE	128	150	10,000	NE	1400	240	15								
MW-18	6/10/13		21.38	162.14	140.76		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	21	<6.7	NS								
	2/16/16		18.39	162.14	143.75		<1.7	<1.6	2	8.9	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS								
	11/14/17		21.87	162.14	140.27		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS								
	8/29/18		22.03	162.14	140.11		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS								
	9/27/19		23.88	162.14	138.26		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS								
	10/13/21		26.01	162.14	136.13		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS								
MW-19	12/10/08	15-35'	26.53	100.86	74.33		<0.16	36.6	145	313.3	<0.18	58.4	<0.0050	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2								
	4/8/10		21.85	100.86	79.01		9.8	225	167	916	<4.0	19.5	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS								
	10/5/11		25.73	100.86	75.13		7.4	130	180	900	<0.40	22	0.1	0.62	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	630	NS								
	5/16/12		27.10	163.02	135.92		4.2	98	140	1200	<2.0	71	0.075	<1.5	<1.0	<5.0	<1.0	<2.0	<170	<5.0	<34	620	NS								
	6/10/13		22.46	163.02	140.56		3.8	90	55	640	<2.0	<8.5	<0.020	<1.5	<1.0	<5.0	<1.0	<2.0	<170	<5.0	<34	210	NS								
	2/16/16		19.42	163.02	143.60		<1.7	<1.6	2.6	12.1	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS								
	11/14/17		22.61	163.02	140.41		<1.7	<1.6	5.2	9.2	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS								
	8/29/18		22.84	163.02	140.18		<3.4	4.1	77	309	<3.4	9.1	<0.019	<3.6	<7.2	<64.2	<6.8	<3.4	<262	<14.6	<115	<154	NS								
	9/27/19		24.66	163.02	138.36		<25	26.5	401	1960	<35	45.1	<0.02	<25	<50	<500	<50	<25	<1000	<250	<500	<500	NS								
	10/13/21		21.52	163.02	141.50		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS								
MW-20	12/10/08	15-35'	27.09	98.54	71.45		<0.16	<0.14	<0.19	5.1	<0.18	2.2	<0.0050	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	68							
	4/8/10		25.22	98.54	73.32		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS							
	10/5/11		26.75	98.54	71.79		<0.20	<1.7	1.9	1.8	<0.40	21	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS								
	5/16/12		28.10	160.57	132.47		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS								
	6/10/13		23.90	160.57	136.67		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS								
	2/16/16		21.31	160.57	139.26		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS								
	11/14/17		23.95	160.57	136.62		<1.7	<1.6	<1.6	<5.0	<1.7	6.2	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS								
	8/29/18		24.10	160.57	136.47		<1.7	<1.6	<1.6	<5.0	<1.7	13	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS								
	9/27/19		25.78	160.57	134.79		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS								
	10/13/21		22.82	160.57	137.75		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS								
MW-21	10/25/10	25-35'	28.68	103.77	75.09		Not Sampled/ Well Installation																								
	10/5/11		30.60	103.77	73.17		11	220	150	710	<0.80	53	0.067	<0.60	<0.40	<2.0	<0.40	<0.80	<66	<2.0	<13	44	NS								
	5/16/12		31.99	165.78	133.81	0.02'	26	520	790	3600	<4.0	530	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS							
	6/10/13		25.51	165.78	140.27		Not Sampled/ Free Product																								
	2/16/16		24.94	165.78	140.84		12.2	225	301	1680	<8.5	140	0.05	<9.0	<18	<160	<17	<8.5	<689	<36.5	<288	<384	NS								
	11/14/17		27.49	165.78	138.29		21.9	558	647	3280	<17	226	0.033	<18	<36	<321	<34	<17	<1310	<73	<577	<768	NS								
	8/29/18		27.80	165.78		0.03'	Not Sampled/ Free Product																								
	9/27/19		29.31	165.78	136.47	0.02'	Not Sampled/ Free Product																								
10/13/21		26.17	165.78	139.61		<5	24.9	70	403	<5	26.7	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS									
MW-22	10/25/10	25-35'	27.36	101.67	74.31		Not Sampled/ Well Installation																								
	10/5/11		29.20	101.67	72.47		67	1900	1200	5800	<8.0	400	0.022	<6.0	<4.0	<20	<4.0	<8.0	<660	<20	<130	320	NS								
	5/16/12		30.50	163.68	133.18		21	930	820	4600	<4.0	370	<0.019	<3.0	<2.0	<10	<2.0	<4.0	<330	<10	<67	1200	NS								
	6/10/13		26.18	163.68	137.50		4.3	17	78	190	<0.40	290	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	25	NS								
	2/16/16		23.75	163.68	139.93		<8.5	288	407	1710	<8.5	157	<0.020	<9.0	<18	<160	<17	<8.5	<689	<36.5	<288	<384	NS								
	11/14/17		26.21	163.68	137.47		<34	588	1250	4940	<34	450	<0.019	<36	<72	<342	<68	<34	<2620	<146	<1150	<1540	NS								
	8/29/18		26.44	163.68	137.24		<8.5	59.4	478	1970	<8.5	197	<0.019	<9.0	<18	<160	<17	<8.5	<655	<36.5	<288	<384	NS								
	9/27/19		28.10	163.68	135.58		<62.5	194	1190	4590	<62.5	403	<0.019	<62.5	<125	<1250	<125	<62.5	<2500	<625	<1250	<1250	NS								
	10/13/21		22.70	163.68	140.98		<62.5	57.7 J	893	3440	<62.5	339	<0.019	<62.5	<125	<1250	<125	<62.5	<2500	<625	<1250	<1250	NS								
	10/13/21 Dup		22.70	163.68	140.98		<62.5	48.9 J	794	2860	<62.5	308	<0.019	<62.5	<125	<1250	<125	<62.5	<2500	<625	<1250	<1250	NS								
DW-1	9/14/06	65-70'	23.92	102.22	78.30		1.5	14	35	150	<0.62	<4.0	<0.0046	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	20.9								
	12/10/08		29.89	102.22	72.33		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0049	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2							
	4/8/10		24.79	102.22	77.43		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS								
	10/5/11		25.30	102.22	76.92		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS								
	5/16/12		31.00	164.20	133.20		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS								
	6/10/13		27.49	164.20	136.71		<1.0	<8.5	<8.5	<8.5	<2.0	<8.5	<0.059	<1.5	<1.0	<5.0	<1.0	<2.0	<170	<5.0	<34	<34	NS								
	2/16/16		24.90	164.20	139.30		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS								
	11/14/17		26.60	164.20	137.60		<1.7	<1.6	<1.6	<5.0																					



MW ID	Sampling Date	Screened Interval	GW Depth	TOC Elevation	GW Elevation	Free Product	Benzene	Toluene	Ethylb	Xylene	MtBE	Naphth	EDB	1,2 DCA	ETBE	ETBA	TAME	DIPE	Ethanol	TBF	TBA	TAA	Lead	
RBSL (ug/L)							5	1000	700	10,000	40	25	0.05	5	47	NE	128	150	10,000	NE	1400	240	15	
DW-3	10/5/11						Not Located																	
	5/16/12		29.60	161.58	131.98		11	<1.7	4.9	57	<0.40	15	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	210	NS	
	6/10/13		25.45	161.58	136.13		19	8.1	34	120	<0.40	23	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	210	NS	
	2/16/16		22.94	161.58	138.64		33.9	6.3	181	21.6	<1.7	40	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	275	NS	
	11/14/17		25.28	161.58	136.30		11.1	4.1	130	13.1	<1.7	19	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	98.2	NS	
	8/29/18		26.35	161.58	135.23		12	6.9	124	17.7	<1.7	54	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	128	NS	
	9/27/19		27.64	161.58	133.94		17.3	9.6 J	273	39.1	<12.5	60.7	<0.02	<12.5	<25	<250	<25	<12.5	<500	<125	<250	<250	NS	
10/13/21		24.56	161.58	137.02		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
DW-4	10/2/06	65-70'	28.79	99.86	71.07		<0.67	<0.68	<0.66	<1.8	<0.62	<4.0	<0.0048	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	<3.9	
	12/10/08		28.29	99.86	71.57		<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	<0.0048	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		26.32	99.86	73.54		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		28.48	99.86	71.38		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12		29.67	161.72	132.05		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		25.75	161.72	135.97		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		22.79	161.72	138.93		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		25.56	161.72	136.16		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		25.85	161.72	135.87		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	9/27/19		27.82	161.72	133.90		<5	<5	<5	<10	<5	3.0 J	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS	
10/13/21		24.64	161.72	137.08		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
DW-5	12/10/08	75-80'	32.96	104.66	71.70		<0.16	3.31	1.21	6.32	<0.18	<0.22	0.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10						Could not open to obtain sample																	
	10/5/11		32.11	104.66	72.55		0.2	<1.7	<1.7	2.8	<0.40	<1.7	<0.020	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12	80-85'	33.40	166.68	133.28		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		29.15	166.68	137.53		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		24.78	166.68	141.90		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		27.65	166.68	139.03		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		26.75	166.68	139.93		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
9/27/19		27.72	166.68	138.96		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
10/13/21		26.94	166.68	139.74		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
DW-6	12/10/08	75-80'	32.99	103.98	70.99		<0.16	<0.14	<0.19	2.07	<0.18	<0.22	0.19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2
	4/8/10		28.75	103.98	75.23		<1.2	<1.8	<1.1	<2.7	<2.0	<2.9	NS	<1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/5/11		31.76	103.98	72.22		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.025	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12	80-85'	33.25	166.02	132.77		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13		29.11	166.02	136.91		<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16		26.34	166.02	139.68		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<138	<7.3	<57.7	<76.8	NS	
	11/14/17		29.09	166.02	136.93		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
	8/29/18		29.34	166.02	136.68		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NS	
9/27/19		31.11	166.02	134.91		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
10/13/21		27.89	166.02	138.13		<5	<5	<5	<10	<5	<5	<0.020	<5	<10	<100	<10	<5	<200	<50	<100	<100	NS		
WSW-1		N/A					Unable to be Located/ Attempted abandonment 4/15/10																	
	2/16/16						Inactive/ no electrical supply																	
	11/14/17						Inactive/ Well removed																	
WSW-2	9/6/06	N/A					<0.67	<0.68	<0.66	<1.8	<0.62	<4.0	<0.0047	<0.82	<1.1	<17	<1.1	<0.89	<55	<18	<1.1	<15	<3.9	
	12/10/08						<0.16	<0.14	<0.19	<0.71	<0.18	<0.22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	4/8/10						<0.25	<0.26	<0.30	<0.66	<0.21	<0.24	NS	<0.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/5/11						<0.20	<1.7	<1.7	<1.7	<0.40	<1.7	<0.019	<0.30	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	5/16/12						<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	6/10/13						<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.0	<0.20	<0.40	<33	<1.0	<6.7	<6.7	NS	
	2/16/16						<0.25	<0.26	<0.30	<0.66	<0.21	<0.24	<0.019	<0.24	<0.070	<50	<0.10	<0.12	<33	<1.9	<3.6	<50	NS	
	11/14/17						<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.019	<0.25	<0.070	<50	<0.10	<0.12	<131	<1.9	<3.6	<50	NS	
	11/14/17 DUP						<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.019	<0.25	<0.070	<50	<0.10	<0.12	<131	<1.9	<3.6	<50	NS	
	8/29/18						<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.019	<0.25	<0.070	<50	<0.10	<0.12	<131	<1.9	<3.6	<50	NS	
	8/29/18 DUP		N/A		N/A		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.019	<0.25	<0.070	<50	<0							

Interstate Truck Terminal, UST# 00332

Allendale County

### Most Recent Groundwater Sampling Results (10/13/2021)

Well	Benzene	Ethylbenzene	Naphthalene
<b>RBSL (ug/L)</b>	<b>5</b>	<b>700</b>	<b>25</b>
MW-2	<62.5	1330	145
MW-6	19.2J	156	108
MW-14	3.9J	278	47.3
MW-21	<5	70	26.7
MW-22	<62.5	794	308

### Groundwater SSTLs

Well	Benzene	Ethylbenzene	Naphthalene
MW-2	44390*	3700*	6700*
MW-6	44390*	NE	6700*
MW-14	NE	NE	6700*
MW-21	NE	NE	5432
MW-22	36728	3700*	6700*

\*SSTL set to effective solubility

NE - Not established. Target CoC or the reporting limit is below the RBSL.

J - Estimated values between detection limit and reporting limit.



Healthy People. Healthy Communities.

CERTIFIED MAIL

9214 8969 0099 9790 1423 2213 76

APR 04 2023



**LINDA AND CARL BENNETT  
233 MOSAIC BLVD  
DAYTONA BEACH FL 32124**

Re: **Request for Property Access**

Interstate Truck Terminal Inc, Highway 301 & 321, Ulmer, SC

UST Permit #00332

Release reported June 21, 2002

Allendale County

Dear Mr. Bennett and Mrs. Bennett:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control documented a petroleum release from the UST system at the referenced facility.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of monitoring well installation and groundwater sampling are necessary to define the petroleum plume. The UST Division requests your permission for DHEC's contractor to enter your property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. **Please complete the attached property access form and return it to my attention within fifteen days of receipt of this letter.**

If you have any questions, please contact me by phone at (803) 898-0605, by fax at (803) 898-0673, or by email at [kellergl@dhec.sc.gov](mailto:kellergl@dhec.sc.gov). Thank you for your consideration regarding this matter.

Sincerely,

Genevieve Keller-Milliken, Hydrogeologist  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Property Access Agreement for Site Rehabilitation

cc: Technical file (w/o enc)



## State Lead Option Property Access Agreement for Site Rehabilitation

**Only** complete this form if: You are the legal owner of the property **OR** are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

**UST Permit #** 00332

**Facility Name:** Interstate Truck Terminal

**Facility Address:** Highway 301 & 321, Ulmer, SC 29849

**Facility Phone Number:**

**Is facility within city limits? (check yes/no)**  Yes  No

**Name of nearest intersecting street/road/highway:**

**Does public water/sewer utility service this facility?**  Yes  No

\*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:

**Name:** \_\_\_\_\_ **Phone Number:** \_\_\_\_\_

**Were USTs previously removed from the ground at this facility?**  Yes  No

\*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):

**Name:** \_\_\_\_\_ **Phone Number:** \_\_\_\_\_

**Is the facility currently leased to someone?**  Yes  No

\*If yes, notify them of the pending work scope, and please provide their name/contact number:

**Name:** \_\_\_\_\_ **Phone Number:** \_\_\_\_\_

**\*Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

**Name of Property Owner (Print):**

**Signature of Property Owner or authorized representative:** \_\_\_\_\_ **Date** \_\_\_\_\_

**Affiliation (if applicable)**

**Signature of Witness** \_\_\_\_\_ **Date** \_\_\_\_\_

### Contact Info

**Phone Numbers:** \_\_\_\_\_ **Home:** \_\_\_\_\_ **Cell:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_