



engineering and constructing a better tomorrow

April 30, 2009

Mr. Marvin Gobles, P.E.
CTS Corporation
905 West Boulevard North
Elkhart, Indiana 46514

**Subject: Transmittal of Monitoring Well MW-9/9A Laboratory Results and Modified Phase
IB Site Assessment Work Plan
Mills Gap Road Site
Skyland, North Carolina
NCD Number 003149556
MACTEC Project 6686-08-1744**

Dear Mr. Gobles:

MACTEC Engineering and Consulting, Inc. (MACTEC) is pleased to present this transmittal of Phase IA Addendum Site Assessment results to CTS Corporation (CTS) for ground-water assessment activities related to the Mills Gap Road Site (Site). This letter briefly describes findings to date from the Phase IA Addendum Site Assessment activities, which were conducted in April of 2009, and our modified Phase IB Site Assessment Work Plan.

Phase IA Addendum Site Assessment Results – Monitoring Wells MW-9 and MW-9A

In an effort to better understand the extent of ground-water contamination above bedrock and ground-water flow directions in the area of the Site, two additional off-site monitoring wells (MW-9/9A) were installed as proposed in our January 21, 2009, work plan, which was approved by the North Carolina Department of Environment and Natural Resources (NCDENR). As indicated in our April 7, 2009, transmittal letter, the access agreement for installation of MW-9/9A was not obtained from the property owner (North Carolina Department of Transportation, NCDOT) until after drilling activities were completed at other off-site monitoring well installation locations. The monitoring wells were installed on the NCDOT property within the unconsolidated formation (“overburden”) in the location shown on Figure 1. Well construction information for monitoring wells MW-9 and MW-9A is included in the attached Table 1. Ground-water samples were collected from MW-9 and MW-9A and submitted to the laboratory on a rush turnaround schedule for analysis of volatile organic compounds (VOCs) according to Environmental Protection Agency (EPA) Method 8260.

The laboratory analytical results of the ground-water samples collected from MW-9/9A did not indicate concentrations of VOCs, with the exception of chloroform in MW-9A, above laboratory reporting limits. Laboratory analytical results for ground-water samples collected from MW-9/9A, as well as analytical results of quality control samples, are included in the attached Table 2 and Table 3, respectively. Copies of the laboratory analytical report and chain-of-custody record are attached to this report.

Modified Phase IB Work Plan

Based on the laboratory analytical results of ground-water samples collected from the off-site overburden monitoring wells, and the preliminary hydrogeologic model of the Site area, we recommend the installation of bedrock monitoring wells in the area of the MW-9/9A and MW-11/11A monitoring well clusters. The proposed off-site bedrock monitoring well locations are depicted on Figure 1.

The two bedrock monitoring wells will be installed/screened at the “first major fracture system” encountered in each boring, as directed by NCDENR. An approximate six-inch diameter surface casing will be set to a minimum of three feet below the top of competent bedrock in each boring. The casing will be grouted into place and allowed to cure a minimum of 24 hours. A bedrock boring will be advanced below the surface casing using air rotary drilling techniques. The bedrock boring will be advanced until an apparent water-bearing fracture is encountered, at which time the drilling tools will be removed from the borehole to allow for borehole geophysical logging. A suite of borehole geophysical analyses will be completed on the bedrock portion of the borehole.

Upon completion of the geophysical investigation, a two-inch diameter polyvinyl chloride monitoring well will be installed in the boring. The length of the screened interval will depend on the thickness of the fracture or fracture zone that is to be monitored (if more than one fracture is identified in a borehole, the most apparently productive/transmissive fracture will be selected for monitoring); however, we anticipate that an approximate two-foot length of screen will be installed at the fracture/fracture zone. If the fracture/fracture zone to be monitored is located above the bottom of the boring, the base of the boring will be backfilled with bentonite to prevent the potential downward migration of ground water to potential fractures located below the monitored fracture. A sand pack will be placed around the well screen and to approximately one-foot above the well screen (a “pre-pack” well screen might be utilized depending on the drilling contractor/drilling equipment availability). A bentonite seal will be placed above the filter pack to the surface casing (i.e., to attempt to prevent potential short-circuiting that might occur with a cement grout seal and affect water quality in the monitored fracture). A bentonite-cement grout will be placed above the bentonite seal to ground surface.

If DNAPL is suspected in either bedrock boring, drilling activities will be suspended and NCDENR will be notified that we are abandoning the boring.

Ground-water samples will be collected from the newly installed bedrock monitoring wells in accordance with the sampling procedures described in our “Phase I Site Assessment Plan,” and submitted to the laboratory for analysis of VOCs. We do not propose to collect soil samples for laboratory analyses during installation of the bedrock monitoring wells.

Investigative-derived waste generated during the installation and sampling of monitoring wells will be contained in impermeable basins and prepared for proper short-term on-site accumulation and off-site transport and disposal.

Access to off-site drilling locations must be granted by the property owners for installation of these bedrock monitoring wells. MACTEC proposes to send a letter, including NCDENR form GW-22M, to each owner of property on which a monitoring well is proposed, requesting access for drilling and sampling activities and a response within a reasonable timeframe. We anticipate that obtaining access agreements will take up to four weeks to complete.

We will prepare a Phase I Remedial Investigation Report which will contain the applicable items of Section 3.0 of the Inactive Hazardous Sites Program *Guidelines for Assessment and Cleanup* dated October 2008. Based on the current schedule for drillers, geophysical logging consultants, and surveyors, we anticipate being able to provide the Phase I Remedial Investigation Report by August 14, 2009.

If you have questions regarding the information contained herein, please contact us at (828) 252-8130.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.



Rodney M. Clark., L.G.
Staff Geologist



Matthew E. Wallace, P.E.
Principal Engineer

RMC/MEW:rmc

attachments: Figure 1 - Monitoring Well Location Map
Table 1 – Phase I Monitoring Well Construction Details (through April 27, 2009)
Table 2 – Analytical Results of Phase I Ground-water Samples
(through April 27, 2009)
Table 3 – Analytical Results of Phase I Quality Control Samples
(through April 27, 2009)
Laboratory Analytical Reports and Chain-of-Custody Records



MONITORING WELL LOCATION MAP
MILLS GAP ROAD SITE
SKYLAND, NORTH CAROLINA



DRAWN: s/ RMC	ENG CHECK: --	DATE: APRIL 2009	PROJECT: 6686-08-1744
DFT CHECK: s/ MEW	APPROVAL: s/ MEW	SCALE: 1" = 200'	FIGURE: 1

REFERENCE: 2006 AERIAL PHOTOGRAPH FROM BUNCOMBE COUNTY GIS WEBSITE; MACTEC FIELD NOTES.

Table 1
Phase I Monitoring Well Construction Details (through April 27, 2009)
Mills Gap Road Site
Skyland, North Carolina
NCD Number 003149556
MACTEC Project 6668-08-1744

Monitoring Well	Well Type	Monitored Zone	Installation Date	Drilling Method	Well Materials	Surface Casing Depth	Well Depth	Screened Interval	Depth to Static Water
MW-1	Type II	PWR/water table	9/9/2008	MR	PVC		41.7	31.7 - 41.3	30.4
MW-1B	Type III	bedrock	2/12/2009	sonic (casing and well)	CS (casing) PVC (well)	49.0	141.4	139.3 - 140.9	66.7
MW-2	Type II	PWR/water table	9/24/2008	MR	SS		28.3	18.3 - 28.0	22.3
MW-3	Type II	water table	9/25/2008	HSA	SS		36.1	26.1 - 35.8	28.8
MW-3A	Type III	PWR	9/25/2008	HSA (casing); MR (well)	PVC	39.7	47.8	42.7 - 47.5	28.3
MW-4	Type II	water table	9/22/2008	HSA	PVC		25.2	15.2 - 24.8	24.4
MW-4A	Type III	PWR	9/22/2008	HSA (casing); MR (well)	PVC	54.4	72.3	67.2 - 72.0	25.7
MW-4B	Type III	bedrock	2/13/2009	sonic (casing) air hammer (well)	CS (casing) PVC (well)	79.0	96.9	94.9 - 96.4	40.8
MW-5	Type II	water table	9/18/2008	HSA	PVC		27.1	17.1 - 26.7	20.6
MW-5A	Type III	PWR	9/25/2008	HSA (casing); MR (well)	PVC	49.9	70.6	65.5 - 70.3	21.4
MW-6	Type II	water table	9/15/2008	HSA	PVC		47.2	37.2 - 46.8	39.6
MW-6A	Type III	PWR	9/15/2008	HSA (casing); MR (well)	PVC	68.2	80.7	75.6 - 80.4	38.1
MW-7	Type II	water table	3/6/2009	HSA	PVC		30.4	20.4 - 29.8	25.1
MW-7A	Type III	PWR	3/5/2009	MR (casing and well)	PVC	55.0	71.5	66.8 - 71.3	25.0
MW-8	Type II	PWR/water table	3/7/2009	HSA	PVC		62.7	52.9 - 62.3	56.0
MW-9	Type II	water table	4/8/2009	HSA	PVC		40.6	30.6 - 40.1	34.9
MW-9A	Type II	PWR	4/8/2009	HSA	PVC		57.3	52.5 - 57.2	35.1
MW-10	Type II	water table	2/24/2009	HSA	PVC		25.3	15.3 - 24.7	16.0
MW-10A	Type II	PWR	2/24/2009	HSA	PVC		58.7	54.0 - 58.6	15.6
MW-11	Type II	water table	2/26/2009	HSA	PVC		13.1	3.1 - 12.5	1.0
MW-11A	Type II	PWR	2/25/2009	HSA	PVC		45.9	41.1 - 45.7	+ 0.1

Notes:

1. Depths are in feet relative to ground surface ("+" denotes above ground surface).
2. Water Table - zone of fluctuating, unconfined ground-water table; PWR - partially weathered rock zone above bedrock; Bedrock - first productive fracture in bedrock
3. MR - mud rotary; HSA - hollow-stem auger; PVC - Schedule 40 polyvinyl chloride; CS - Carbon Steel; SS - Type 304 Stainless Steel
4. Depths to static water level for monitoring wells installed in 2008 were measured on October 10, 2008; Depths to static water level for monitoring wells installed in 2009 were measured within one week of monitoring well installation.



Prepared By: 
Checked By: 

Table 2
Analytical Results of Phase I Ground-water Samples (through April 27, 2009)
Mills Gap Road Site
Skyland, North Carolina
NCD Number 003149556
MACTEC Project 6686-08-1744

Analyte	MW-1	MW-1B	MW-2	FD-02 (MW-2)	MW-3	MW-3A	MW-4	MW-4A	MW-4B	FD-03 (MW-4B)	MW-5	MW-5A	MW-6	MW-6A	MW-7	MW-7A	MW-8	MW-9	MW-9A	MW-10	MW-10A	MW-11	MW-11A	
EPA Method 8260 VOCs																								
Acetone								20				8.6 ^J												
Benzene					80																			
Chloroform							7.7	2.4				0.59 ^J					0.79 ^J		1.0			1.6		
1,1-Dichloroethane					15 ^J		4.3																	
1,1-Dichloroethene					120	34	0.65 ^J				6.3 ^J		49	97 ^J										
cis-1,2-Dichloroethene					45	14 ^J					12													
Ethylbenzene					38	18 ^J																		
Isopropylbenzene					15 ^J	12 ^J																		
Naphthalene					180	63																		
n-Propylbenzene					13 ^J																			
Tetrachloroethene (PCE)							2.2																	
Toluene					10 ^J												2.5					2.2		
1,1,1-Trichloroethane			47	49	1,600	1,300	11																	
Trichloroethene (TCE)			7,200	6,500	17,000	15,000	250	1.8 ^J			4,500	77	19,000	42,000	3,700	35,000							6.4	73
1,2,4-Trimethylbenzene					110	48																		
1,3,5-Trimethylbenzene					31	16 ^J																		
m,p-Xylenes					64	14 ^J																		
o-Xylene					150	33																		
TICs by EPA Method 8260																								
Unknown								11								--	--	--	--	--	--	--	--	--
Ethylmethyl benzene					110											--	--	--	--	--	--	--	--	--
2-Methylnaphthalene					130											--	--	--	--	--	--	--	--	--
EPA Method 8270 SVOCs																								
Dibenzofuran					2.6 ^J											--	--	--	--	--	--	--	--	--
Fluorene					5.0 ^J	3.1 ^J										--	--	--	--	--	--	--	--	--
2-Methylnaphthalene					150	3.3 ^J										--	--	--	--	--	--	--	--	--
Naphthalene					120											--	--	--	--	--	--	--	--	--
Phenanthrene					4.1 ^J	3.5 ^J										--	--	--	--	--	--	--	--	--

Table 2
Analytical Results of Phase I Ground-water Samples (through April 27, 2009)
Mills Gap Road Site
Skyland, North Carolina
NCD Number 003149556
MACTEC Project 6686-08-1744

Analyte	MW-1	MW-1B	MW-2	FD-02 (MW-2)	MW-3	MW-3A	MW-4	MW-4A	MW-4B	FD-03 (MW-4B)	MW-5	MW-5A	MW-6	MW-6A	MW-7	MW-7A	MW-8	MW-9	MW-9A	MW-10	MW-10A	MW-11	MW-11A
TICs by EPA Method 8270																							
Unkown (total)					215	46		50	35			91			--	--	--	--	--	--	--	--	--
alpha-Terpineol								63							--	--	--	--	--	--	--	--	--
Dimethylnaphthalene (total)					36	50									--	--	--	--	--	--	--	--	--
Ethylmethyl benzene					57	19									--	--	--	--	--	--	--	--	--
Ethylmethylbenzene						15									--	--	--	--	--	--	--	--	--
Heptadecane									12						--	--	--	--	--	--	--	--	--
Hexadecanoic Acid									57						--	--	--	--	--	--	--	--	--
Methyl indane					38	22									--	--	--	--	--	--	--	--	--
Trimethylbenzene (total)					174	51									--	--	--	--	--	--	--	--	--
Tetrahydronaphthalene						14									--	--	--	--	--	--	--	--	--
Cyanide & HSL Metals																							
Cyanide					3.4 ^J	4.6 ^J									--	--	--	--	--	--	--	--	--
Arsenic						2.7 ^J		2.8 ^J						3.4 ^J	--	--	--	--	--	--	--	--	--
Beryllium				0.3 ^J			0.5 ^J					0.3 ^J			--	--	--	--	--	--	--	--	--
Chromium	1.9 ^J	5.3	1.2 ^J	2.0 ^J		3.4 ^J	0.4 ^J	33	3.7 ^J	3.2 ^J	0.9 ^J	29	0.9 ^J	8.3	--	--	--	--	--	--	--	--	--
Copper	0.7 ^J		37	44	0.8 ^J		0.5 ^J	2.1 ^J			0.3 ^J	0.7 ^J	0.4 ^J	4.5 ^J	--	--	--	--	--	--	--	--	--
Manganese	200	29	400	420	12,000	1,400	130	37	8.9 ^J	8.7 ^J	600	12	88	4.9 ^J	--	--	--	--	--	--	--	--	--
Nickel	4.4 ^J	3.1 ^J	8.3 ^J	9.7 ^J	9.3 ^J	1.7 ^J	3.1 ^J	0.7 ^J	2.2 ^J	2.1 ^J	20		4.6 ^J	1.7 ^J	--	--	--	--	--	--	--	--	--
Zinc	15 ^J	6.3 ^J	15 ^J	16 ^J	31	13 ^J	17 ^J	6.5 ^J	11 ^J	13 ^J	14 ^J	7.4 ^J	26 ^J	5.1 ^J	--	--	--	--	--	--	--	--	--

Notes:

- VOCs - volatile organic compounds, according to EPA Method 8260B; SVOCs - semi-volatile organic compounds according to EPA Method 8270C; Cyanide according to EPA Method 9014; HSL Metals - Hazardous Substance List Metals according to EPA Methods 6010B and 7470A (mercury); TICs - tentatively identified compounds.
- Concentrations are reported as micrograms per liter (µg/L).
- FD - field duplicate (e.g., FD-02 is a duplicate of MW-2).
- Analytes detected in one or more samples above the Method Detection Limit (MDL) are shown; refer to laboratory report for the list of analytes.
- Blank cells indicate analyte not detected above MDL; refer to laboratory report for associated MDLs.
- J - The analyte was identified but the value is estimated below the MDL.
- "--" - analyte not analyzed.
- This table contains "raw" analytical data, as reported by the laboratory. The data have not undergone a data validation process to determine the analytical quality of the data.**



Prepared By: 
Checked By: 

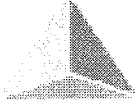
Table 3
Analytical Results of Phase I Quality Control Samples (through April 27, 2009)
Mills Gap Road Site
Skyland, North Carolina
NCD Number 003149556
MACTEC Project 6686-08-1744

Analyte	EB-01	EB-02	EB-03	EB-04	MB-01	FB-01	FB-03	TB-01	TB-02	TB-03	TB-04	TB-05	TB-06	TB-07	TB-08	TB-09
EPA Method 8260 VOCs																
Acetone		9.2 ^J						12	13	13		9.3 ^J				
Bromodichloromethane					3.4											
Chlorodibromomethane					2.3											
Chloroform					9.2											
TICs by EPA Method 8260																
Unknown		5.6					--								--	--
EPA Method 8270 SVOCs																
TICs by EPA Method 8270																
n-Hexadecanoic acid	19					--	--	--	--	--	--	--	--	--	--	--
Oxacycloheptadecan-2-one	10					--	--	--	--	--	--	--	--	--	--	--
Squalene	49					--	--	--	--	--	--	--	--	--	--	--
Cyanide & HSL Metals																
Cyanide						--	--	--	--	--	--	--	--	--	--	--
Cadmium			0.2 ^J			--	--	--	--	--	--	--	--	--	--	--
Chromium	7.0	2.2 ^J	1.1 ^J		0.6 ^J	--	--	--	--	--	--	--	--	--	--	--
Copper	9.2 ^J				4.7 ^J	--	--	--	--	--	--	--	--	--	--	--
Lead	2.1 ^J					--	--	--	--	--	--	--	--	--	--	--
Manganese	180	5.1 ^J	3.5 ^J	0.8 ^J	120	--	--	--	--	--	--	--	--	--	--	--
Nickel	11		1.4 ^J		0.7 ^J	--	--	--	--	--	--	--	--	--	--	--
Thallium					4.9 ^J	--	--	--	--	--	--	--	--	--	--	--
Zinc	22 ^J	5.5 ^J	9.0 ^J	23 ^J	220	--	--	--	--	--	--	--	--	--	--	--

Notes:

- VOCs - volatile organic compounds, according to EPA Method 8260B; SVOCs - semi-volatile organic compounds according to EPA Method 8270C; Cyanide according to EPA Method 9014;
HSL Metals - Hazardous Substance List Metals according to EPA Methods 6010B and 7470A (mercury); TICs - tentatively identified compounds.
- EB - equipment blank; MB - material blank; FB - field blank; TB - trip blank (refer to Sample Summary table for associated quality control information).
- Concentrations are reported as micrograms per liter ($\mu\text{g/L}$).
- Analytes detected in one or more samples above the Method Detection Limit (MDL) are shown; refer to laboratory report for the list of analytes.
- Blank cells indicate analyte not detected above MDL; refer to laboratory report for associated MDLs.
- J - The analyte was identified but the value is estimated below the MDL.
- "--" - analyte not analyzed.
- This table contains "raw" analytical data, as reported by the laboratory. The data have not undergone a data validation process to determine the analytical quality of the data.**

Prepared By: *RUC*
 Checked By: *WRW*



PRISM
LABORATORIES, INC.

Case Narrative

Date: 04/22/09
Company: MACTEC Eng. & Consulting, Inc
Contact: Susan Kelly
Address: 1308 Patton Avenue
 Asheville, NC 28806

Client Project ID: Mills Gap
Prism COC Group No: G0409389
Collection Date(s): 04/13/09
Lab Submittal Date(s): 04/14/09

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 16 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

N/A

Volatile Analysis

No Anomalies Reported

Metals Analysis

N/A

Wet Lab and Micro Analysis

N/A

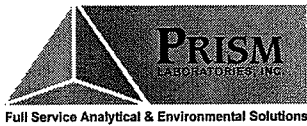
Please call if you have any questions relating to this analytical report.

Data Reviewed by: <u>Steven H. Guptill</u>	Project Manager: <u>Steven H. Guptill</u>
Signature: <u><i>Steven H. Guptill</i></u>	Signature: <u><i>Steven H. Guptill</i></u>
Review Date: <u>04/22/09</u>	Approval Date: <u>04/22/09</u>

Data Qualifiers Key Reference:

- B: Compound also detected in the method blank.
- #: Result outside of the QC limits.
- DO: Compound diluted out.
- E: Estimated concentration, calibration range exceeded.
- J: The analyte was positively identified but the value is estimated below the reporting limit.
- H: Estimated concentration with a high bias.
- L: Estimated concentration with a low bias.
- M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

Client Sample ID: MW-9A
 Prism Sample ID: 243404
 COC Group: G0409389
 Time Collected: 04/13/09 16:00
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.087	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.053	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.071	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.092	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,1-Dichloroethane	BRL	µg/L	1.0	0.053	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,1-Dichloroethene	BRL	µg/L	1.0	0.046	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,1-Dichloropropene	BRL	µg/L	1.0	0.089	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.23	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.15	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.28	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.14	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.37	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.11	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.094	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,2-Dichloropropane	BRL	µg/L	1.0	0.081	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.081	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,3-Dichloropropane	BRL	µg/L	1.0	0.062	1	8260B	04/20/09 15:20	Iwitry	Q40810
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.092	1	8260B	04/20/09 15:20	Iwitry	Q40810
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	04/20/09 15:20	Iwitry	Q40810
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.37	1	8260B	04/20/09 15:20	Iwitry	Q40810
2-Chlorotoluene	BRL	µg/L	1.0	0.090	1	8260B	04/20/09 15:20	Iwitry	Q40810
2-Hexanone	BRL	µg/L	5.0	0.20	1	8260B	04/20/09 15:20	Iwitry	Q40810
4-Chlorotoluene	BRL	µg/L	1.0	0.13	1	8260B	04/20/09 15:20	Iwitry	Q40810
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.93	1	8260B	04/20/09 15:20	Iwitry	Q40810
Acetone	BRL	µg/L	10	1.0	1	8260B	04/20/09 15:20	Iwitry	Q40810

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

Client Sample ID: MW-9A
 Prism Sample ID: 243404
 COC Group: G0409389
 Time Collected: 04/13/09 16:00
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	1.4	1	8260B	04/20/09 15:20	lwitry	Q40810
Acrylonitrile	BRL	µg/L	100	1.4	1	8260B	04/20/09 15:20	lwitry	Q40810
Benzene	BRL	µg/L	1.0	0.044	1	8260B	04/20/09 15:20	lwitry	Q40810
Bromobenzene	BRL	µg/L	1.0	0.098	1	8260B	04/20/09 15:20	lwitry	Q40810
Bromochloromethane	BRL	µg/L	1.0	0.14	1	8260B	04/20/09 15:20	lwitry	Q40810
Bromodichloromethane	BRL	µg/L	1.0	0.076	1	8260B	04/20/09 15:20	lwitry	Q40810
Bromoform	BRL	µg/L	1.0	0.039	1	8260B	04/20/09 15:20	lwitry	Q40810
Bromomethane	BRL	µg/L	3.0	0.27	1	8260B	04/20/09 15:20	lwitry	Q40810
Carbon disulfide	BRL	µg/L	5.0	0.37	1	8260B	04/20/09 15:20	lwitry	Q40810
Carbon tetrachloride	BRL	µg/L	2.0	0.11	1	8260B	04/20/09 15:20	lwitry	Q40810
Chlorobenzene	BRL	µg/L	1.0	0.050	1	8260B	04/20/09 15:20	lwitry	Q40810
Chlorodibromomethane	BRL	µg/L	1.0	0.070	1	8260B	04/20/09 15:20	lwitry	Q40810
Chloroethane	BRL	µg/L	5.0	0.22	1	8260B	04/20/09 15:20	lwitry	Q40810
Chloroform	1.0	µg/L	1.0	0.049	1	8260B	04/20/09 15:20	lwitry	Q40810
Chloromethane	BRL	µg/L	2.0	0.30	1	8260B	04/20/09 15:20	lwitry	Q40810
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.054	1	8260B	04/20/09 15:20	lwitry	Q40810
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.070	1	8260B	04/20/09 15:20	lwitry	Q40810
Dibromomethane	BRL	µg/L	1.0	0.21	1	8260B	04/20/09 15:20	lwitry	Q40810
Dichlorodifluoromethane	BRL	µg/L	2.0	0.30	1	8260B	04/20/09 15:20	lwitry	Q40810
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	04/20/09 15:20	lwitry	Q40810
Hexachlorobutadiene	BRL	µg/L	2.0	0.30	1	8260B	04/20/09 15:20	lwitry	Q40810
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.076	1	8260B	04/20/09 15:20	lwitry	Q40810
Isopropylbenzene	BRL	µg/L	1.0	0.10	1	8260B	04/20/09 15:20	lwitry	Q40810
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	04/20/09 15:20	lwitry	Q40810
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.95	1	8260B	04/20/09 15:20	lwitry	Q40810
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	04/20/09 15:20	lwitry	Q40810
Methylene chloride	BRL	µg/L	2.0	0.081	1	8260B	04/20/09 15:20	lwitry	Q40810

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

Client Sample ID: MW-9A
 Prism Sample ID: 243404
 COC Group: G0409389
 Time Collected: 04/13/09 16:00
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.24	1	8260B	04/20/09 15:20	lwitry	Q40810
n-Propylbenzene	BRL	µg/L	1.0	0.087	1	8260B	04/20/09 15:20	lwitry	Q40810
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	04/20/09 15:20	lwitry	Q40810
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	04/20/09 15:20	lwitry	Q40810
p-Isopropyltoluene	BRL	µg/L	1.0	0.14	1	8260B	04/20/09 15:20	lwitry	Q40810
sec-Butylbenzene	BRL	µg/L	1.0	0.12	1	8260B	04/20/09 15:20	lwitry	Q40810
Styrene	BRL	µg/L	1.0	0.051	1	8260B	04/20/09 15:20	lwitry	Q40810
tert-Butylbenzene	BRL	µg/L	1.0	0.074	1	8260B	04/20/09 15:20	lwitry	Q40810
Tetrachloroethene	BRL	µg/L	1.0	0.12	1	8260B	04/20/09 15:20	lwitry	Q40810
Toluene	BRL	µg/L	1.0	0.064	1	8260B	04/20/09 15:20	lwitry	Q40810
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.066	1	8260B	04/20/09 15:20	lwitry	Q40810
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.17	1	8260B	04/20/09 15:20	lwitry	Q40810
Trichloroethene	BRL	µg/L	2.0	0.073	1	8260B	04/20/09 15:20	lwitry	Q40810
Trichlorofluoromethane	BRL	µg/L	2.0	0.31	1	8260B	04/20/09 15:20	lwitry	Q40810
Vinyl acetate	BRL	µg/L	20	1.8	1	8260B	04/20/09 15:20	lwitry	Q40810
Vinyl chloride	BRL	µg/L	2.0	0.28	1	8260B	04/20/09 15:20	lwitry	Q40810

Surrogate	% Recovery	Control Limits
Toluene-d8	116	75 - 121
Dibromofluoromethane	105	74 - 133
Bromofluorobenzene	113	69 - 139

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

Client Sample ID: MW-9A
 Prism Sample ID: 243404
 COC Group: G0409389
 Time Collected: 04/13/09 16:00
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Sample Comment(s):

BRL = Below Reporting Limit
J- Estimated value between the Reporting Limit and the MDL.
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services



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 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

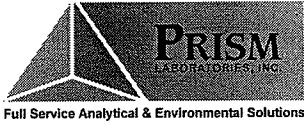
Client Sample ID: MW-9
 Prism Sample ID: 243405
 COC Group: G0409389
 Time Collected: 04/13/09 17:00
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.087	1	8260B	04/20/09 15:50	Iwity	Q40810
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.053	1	8260B	04/20/09 15:50	Iwity	Q40810
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.071	1	8260B	04/20/09 15:50	Iwity	Q40810
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.092	1	8260B	04/20/09 15:50	Iwity	Q40810
1,1-Dichloroethane	BRL	µg/L	1.0	0.053	1	8260B	04/20/09 15:50	Iwity	Q40810
1,1-Dichloroethene	BRL	µg/L	1.0	0.046	1	8260B	04/20/09 15:50	Iwity	Q40810
1,1-Dichloropropene	BRL	µg/L	1.0	0.089	1	8260B	04/20/09 15:50	Iwity	Q40810
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.23	1	8260B	04/20/09 15:50	Iwity	Q40810
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.15	1	8260B	04/20/09 15:50	Iwity	Q40810
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.28	1	8260B	04/20/09 15:50	Iwity	Q40810
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.14	1	8260B	04/20/09 15:50	Iwity	Q40810
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.37	1	8260B	04/20/09 15:50	Iwity	Q40810
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.11	1	8260B	04/20/09 15:50	Iwity	Q40810
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.094	1	8260B	04/20/09 15:50	Iwity	Q40810
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	04/20/09 15:50	Iwity	Q40810
1,2-Dichloropropane	BRL	µg/L	1.0	0.081	1	8260B	04/20/09 15:50	Iwity	Q40810
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.081	1	8260B	04/20/09 15:50	Iwity	Q40810
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	04/20/09 15:50	Iwity	Q40810
1,3-Dichloropropane	BRL	µg/L	1.0	0.062	1	8260B	04/20/09 15:50	Iwity	Q40810
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.092	1	8260B	04/20/09 15:50	Iwity	Q40810
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	04/20/09 15:50	Iwity	Q40810
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.37	1	8260B	04/20/09 15:50	Iwity	Q40810
2-Chlorotoluene	BRL	µg/L	1.0	0.090	1	8260B	04/20/09 15:50	Iwity	Q40810
2-Hexanone	BRL	µg/L	5.0	0.20	1	8260B	04/20/09 15:50	Iwity	Q40810
4-Chlorotoluene	BRL	µg/L	1.0	0.13	1	8260B	04/20/09 15:50	Iwity	Q40810
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.93	1	8260B	04/20/09 15:50	Iwity	Q40810
Acetone	BRL	µg/L	10	1.0	1	8260B	04/20/09 15:50	Iwity	Q40810

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

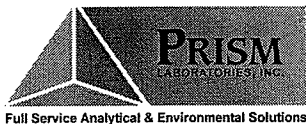
Client Sample ID: MW-9
 Prism Sample ID: 243405
 COC Group: G0409389
 Time Collected: 04/13/09 17:00
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	1.4	1	8260B	04/20/09 15:50	Iwity	Q40810
Acrylonitrile	BRL	µg/L	100	1.4	1	8260B	04/20/09 15:50	Iwity	Q40810
Benzene	BRL	µg/L	1.0	0.044	1	8260B	04/20/09 15:50	Iwity	Q40810
Bromobenzene	BRL	µg/L	1.0	0.098	1	8260B	04/20/09 15:50	Iwity	Q40810
Bromochloromethane	BRL	µg/L	1.0	0.14	1	8260B	04/20/09 15:50	Iwity	Q40810
Bromodichloromethane	BRL	µg/L	1.0	0.076	1	8260B	04/20/09 15:50	Iwity	Q40810
Bromoform	BRL	µg/L	1.0	0.039	1	8260B	04/20/09 15:50	Iwity	Q40810
Bromomethane	BRL	µg/L	3.0	0.27	1	8260B	04/20/09 15:50	Iwity	Q40810
Carbon disulfide	BRL	µg/L	5.0	0.37	1	8260B	04/20/09 15:50	Iwity	Q40810
Carbon tetrachloride	BRL	µg/L	2.0	0.11	1	8260B	04/20/09 15:50	Iwity	Q40810
Chlorobenzene	BRL	µg/L	1.0	0.050	1	8260B	04/20/09 15:50	Iwity	Q40810
Chlorodibromomethane	BRL	µg/L	1.0	0.070	1	8260B	04/20/09 15:50	Iwity	Q40810
Chloroethane	BRL	µg/L	5.0	0.22	1	8260B	04/20/09 15:50	Iwity	Q40810
Chloroform	BRL	µg/L	1.0	0.049	1	8260B	04/20/09 15:50	Iwity	Q40810
Chloromethane	BRL	µg/L	2.0	0.30	1	8260B	04/20/09 15:50	Iwity	Q40810
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.054	1	8260B	04/20/09 15:50	Iwity	Q40810
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.070	1	8260B	04/20/09 15:50	Iwity	Q40810
Dibromomethane	BRL	µg/L	1.0	0.21	1	8260B	04/20/09 15:50	Iwity	Q40810
Dichlorodifluoromethane	BRL	µg/L	2.0	0.30	1	8260B	04/20/09 15:50	Iwity	Q40810
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	04/20/09 15:50	Iwity	Q40810
Hexachlorobutadiene	BRL	µg/L	2.0	0.30	1	8260B	04/20/09 15:50	Iwity	Q40810
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.076	1	8260B	04/20/09 15:50	Iwity	Q40810
Isopropylbenzene	BRL	µg/L	1.0	0.10	1	8260B	04/20/09 15:50	Iwity	Q40810
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	04/20/09 15:50	Iwity	Q40810
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.95	1	8260B	04/20/09 15:50	Iwity	Q40810
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	04/20/09 15:50	Iwity	Q40810
Methylene chloride	BRL	µg/L	2.0	0.081	1	8260B	04/20/09 15:50	Iwity	Q40810

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

Client Sample ID: MW-9
 Prism Sample ID: 243405
 COC Group: G0409389
 Time Collected: 04/13/09 17:00
 Time Submitted: 04/14/09 13:30

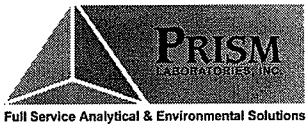
Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.24	1	8260B	04/20/09 15:50	Iwityr	Q40810
n-Propylbenzene	BRL	µg/L	1.0	0.087	1	8260B	04/20/09 15:50	Iwityr	Q40810
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	04/20/09 15:50	Iwityr	Q40810
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	04/20/09 15:50	Iwityr	Q40810
p-Isopropyltoluene	BRL	µg/L	1.0	0.14	1	8260B	04/20/09 15:50	Iwityr	Q40810
sec-Butylbenzene	BRL	µg/L	1.0	0.12	1	8260B	04/20/09 15:50	Iwityr	Q40810
Styrene	BRL	µg/L	1.0	0.051	1	8260B	04/20/09 15:50	Iwityr	Q40810
tert-Butylbenzene	BRL	µg/L	1.0	0.074	1	8260B	04/20/09 15:50	Iwityr	Q40810
Tetrachloroethene	BRL	µg/L	1.0	0.12	1	8260B	04/20/09 15:50	Iwityr	Q40810
Toluene	BRL	µg/L	1.0	0.064	1	8260B	04/20/09 15:50	Iwityr	Q40810
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.066	1	8260B	04/20/09 15:50	Iwityr	Q40810
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.17	1	8260B	04/20/09 15:50	Iwityr	Q40810
Trichloroethene	BRL	µg/L	2.0	0.073	1	8260B	04/20/09 15:50	Iwityr	Q40810
Trichlorofluoromethane	BRL	µg/L	2.0	0.31	1	8260B	04/20/09 15:50	Iwityr	Q40810
Vinyl acetate	BRL	µg/L	20	1.8	1	8260B	04/20/09 15:50	Iwityr	Q40810
Vinyl chloride	BRL	µg/L	2.0	0.28	1	8260B	04/20/09 15:50	Iwityr	Q40810

Surrogate	% Recovery	Control Limits
Toluene-d8	117	75 - 121
Dibromofluoromethane	103	74 - 133
Bromofluorobenzene	118	69 - 139

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Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

Client Sample ID: MW-9
 Prism Sample ID: 243405
 COC Group: G0409389
 Time Collected: 04/13/09 17:00
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL.

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

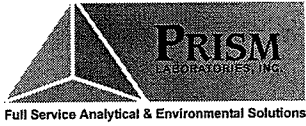
Client Sample ID: TRIP BLANK
 Prism Sample ID: 243406
 COC Group: G0409389
 Time Collected: 04/13/09
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.087	1	8260B	04/20/09 12:04	lwitry	Q40810
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.053	1	8260B	04/20/09 12:04	lwitry	Q40810
1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.071	1	8260B	04/20/09 12:04	lwitry	Q40810
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.092	1	8260B	04/20/09 12:04	lwitry	Q40810
1,1-Dichloroethane	BRL	µg/L	1.0	0.053	1	8260B	04/20/09 12:04	lwitry	Q40810
1,1-Dichloroethene	BRL	µg/L	1.0	0.046	1	8260B	04/20/09 12:04	lwitry	Q40810
1,1-Dichloropropene	BRL	µg/L	1.0	0.089	1	8260B	04/20/09 12:04	lwitry	Q40810
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.23	1	8260B	04/20/09 12:04	lwitry	Q40810
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.15	1	8260B	04/20/09 12:04	lwitry	Q40810
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.28	1	8260B	04/20/09 12:04	lwitry	Q40810
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.14	1	8260B	04/20/09 12:04	lwitry	Q40810
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.37	1	8260B	04/20/09 12:04	lwitry	Q40810
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.11	1	8260B	04/20/09 12:04	lwitry	Q40810
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.094	1	8260B	04/20/09 12:04	lwitry	Q40810
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	04/20/09 12:04	lwitry	Q40810
1,2-Dichloropropane	BRL	µg/L	1.0	0.081	1	8260B	04/20/09 12:04	lwitry	Q40810
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.081	1	8260B	04/20/09 12:04	lwitry	Q40810
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	04/20/09 12:04	lwitry	Q40810
1,3-Dichloropropane	BRL	µg/L	1.0	0.062	1	8260B	04/20/09 12:04	lwitry	Q40810
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.092	1	8260B	04/20/09 12:04	lwitry	Q40810
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	04/20/09 12:04	lwitry	Q40810
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.37	1	8260B	04/20/09 12:04	lwitry	Q40810
2-Chlorotoluene	BRL	µg/L	1.0	0.090	1	8260B	04/20/09 12:04	lwitry	Q40810
2-Hexanone	BRL	µg/L	5.0	0.20	1	8260B	04/20/09 12:04	lwitry	Q40810
4-Chlorotoluene	BRL	µg/L	1.0	0.13	1	8260B	04/20/09 12:04	lwitry	Q40810
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.93	1	8260B	04/20/09 12:04	lwitry	Q40810
Acetone	BRL	µg/L	10	1.0	1	8260B	04/20/09 12:04	lwitry	Q40810

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

Client Sample ID: TRIP BLANK
 Prism Sample ID: 243406
 COC Group: G0409389
 Time Collected: 04/13/09
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	1.4	1	8260B	04/20/09 12:04	Iwity	Q40810
Acrylonitrile	BRL	µg/L	100	1.4	1	8260B	04/20/09 12:04	Iwity	Q40810
Benzene	BRL	µg/L	1.0	0.044	1	8260B	04/20/09 12:04	Iwity	Q40810
Bromobenzene	BRL	µg/L	1.0	0.098	1	8260B	04/20/09 12:04	Iwity	Q40810
Bromochloromethane	BRL	µg/L	1.0	0.14	1	8260B	04/20/09 12:04	Iwity	Q40810
Bromodichloromethane	BRL	µg/L	1.0	0.076	1	8260B	04/20/09 12:04	Iwity	Q40810
Bromoform	BRL	µg/L	1.0	0.039	1	8260B	04/20/09 12:04	Iwity	Q40810
Bromomethane	BRL	µg/L	3.0	0.27	1	8260B	04/20/09 12:04	Iwity	Q40810
Carbon disulfide	BRL	µg/L	5.0	0.37	1	8260B	04/20/09 12:04	Iwity	Q40810
Carbon tetrachloride	BRL	µg/L	2.0	0.11	1	8260B	04/20/09 12:04	Iwity	Q40810
Chlorobenzene	BRL	µg/L	1.0	0.050	1	8260B	04/20/09 12:04	Iwity	Q40810
Chlorodibromomethane	BRL	µg/L	1.0	0.070	1	8260B	04/20/09 12:04	Iwity	Q40810
Chloroethane	BRL	µg/L	5.0	0.22	1	8260B	04/20/09 12:04	Iwity	Q40810
Chloroform	BRL	µg/L	1.0	0.049	1	8260B	04/20/09 12:04	Iwity	Q40810
Chloromethane	BRL	µg/L	2.0	0.30	1	8260B	04/20/09 12:04	Iwity	Q40810
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.054	1	8260B	04/20/09 12:04	Iwity	Q40810
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.070	1	8260B	04/20/09 12:04	Iwity	Q40810
Dibromomethane	BRL	µg/L	1.0	0.21	1	8260B	04/20/09 12:04	Iwity	Q40810
Dichlorodifluoromethane	BRL	µg/L	2.0	0.30	1	8260B	04/20/09 12:04	Iwity	Q40810
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	04/20/09 12:04	Iwity	Q40810
Hexachlorobutadiene	BRL	µg/L	2.0	0.30	1	8260B	04/20/09 12:04	Iwity	Q40810
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.076	1	8260B	04/20/09 12:04	Iwity	Q40810
Isopropylbenzene	BRL	µg/L	1.0	0.10	1	8260B	04/20/09 12:04	Iwity	Q40810
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	04/20/09 12:04	Iwity	Q40810
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.95	1	8260B	04/20/09 12:04	Iwity	Q40810
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	04/20/09 12:04	Iwity	Q40810
Methylene chloride	BRL	µg/L	2.0	0.081	1	8260B	04/20/09 12:04	Iwity	Q40810

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

Client Sample ID: TRIP BLANK
 Prism Sample ID: 243406
 COC Group: G0409389
 Time Collected: 04/13/09
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.24	1	8260B	04/20/09 12:04	lwitry	Q40810
n-Propylbenzene	BRL	µg/L	1.0	0.087	1	8260B	04/20/09 12:04	lwitry	Q40810
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	04/20/09 12:04	lwitry	Q40810
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	04/20/09 12:04	lwitry	Q40810
p-Isopropyltoluene	BRL	µg/L	1.0	0.14	1	8260B	04/20/09 12:04	lwitry	Q40810
sec-Butylbenzene	BRL	µg/L	1.0	0.12	1	8260B	04/20/09 12:04	lwitry	Q40810
Styrene	BRL	µg/L	1.0	0.051	1	8260B	04/20/09 12:04	lwitry	Q40810
tert-Butylbenzene	BRL	µg/L	1.0	0.074	1	8260B	04/20/09 12:04	lwitry	Q40810
Tetrachloroethene	BRL	µg/L	1.0	0.12	1	8260B	04/20/09 12:04	lwitry	Q40810
Toluene	BRL	µg/L	1.0	0.064	1	8260B	04/20/09 12:04	lwitry	Q40810
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.066	1	8260B	04/20/09 12:04	lwitry	Q40810
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.17	1	8260B	04/20/09 12:04	lwitry	Q40810
Trichloroethene	BRL	µg/L	2.0	0.073	1	8260B	04/20/09 12:04	lwitry	Q40810
Trichlorofluoromethane	BRL	µg/L	2.0	0.31	1	8260B	04/20/09 12:04	lwitry	Q40810
Vinyl acetate	BRL	µg/L	20	1.8	1	8260B	04/20/09 12:04	lwitry	Q40810
Vinyl chloride	BRL	µg/L	2.0	0.28	1	8260B	04/20/09 12:04	lwitry	Q40810

Surrogate	% Recovery	Control Limits
Toluene-d8	115	75 - 121
Dibromofluoromethane	104	74 - 133
Bromofluorobenzene	113	69 - 139

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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap
 Sample Matrix: Water

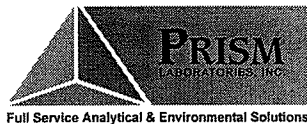
Client Sample ID: TRIP BLANK
 Prism Sample ID: 243406
 COC Group: G0409389
 Time Collected: 04/13/09
 Time Submitted: 04/14/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Sample Comment(s):

BRL = Below Reporting Limit
J- Estimated value between the Reporting Limit and the MDL.
The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
All results are reported on a wet-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Level II QC Report

04/22/09

MACTEC Eng. & Consulting, Inc
Attn: Susan Kelly
1308 Patton Avenue
Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G0409389
Date/Time Submitted: 04/14/09 13:30

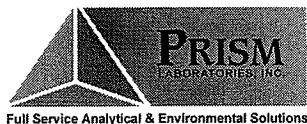
Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q40810
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q40810
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q40810
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q40810
1,1-Dichloroethane	ND	1	<0.5	µg/L	Q40810
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q40810
1,1-Dichloropropene	ND	1	<0.5	µg/L	Q40810
1,2,3-Trichlorobenzene	ND	2	<1	µg/L	Q40810
1,2,3-Trichloropropane	ND	1	<0.5	µg/L	Q40810
1,2,4-Trichlorobenzene	ND	1	<0.5	µg/L	Q40810
1,2,4-Trimethylbenzene	ND	1	<0.5	µg/L	Q40810
1,2-Dibromo-3-chloropropane	ND	2	<1	µg/L	Q40810
1,2-Dibromoethane (EDB)	ND	1	<0.5	µg/L	Q40810
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q40810
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q40810
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q40810
1,3,5-Trimethylbenzene	ND	1	<0.5	µg/L	Q40810
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q40810
1,3-Dichloropropane	ND	1	<0.5	µg/L	Q40810
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q40810
2,2-Dichloropropane	ND	2	<1	µg/L	Q40810
2-Chloroethyl vinyl ether	ND	2	<1	µg/L	Q40810
2-Chlorotoluene	ND	1	<0.5	µg/L	Q40810
2-Hexanone	ND	5	<2.5	µg/L	Q40810
4-Chlorotoluene	ND	1	<0.5	µg/L	Q40810
4-Methyl-2-pentanone (MIBK)	ND	5	<2.5	µg/L	Q40810
Acetone	ND	10	<5	µg/L	Q40810
Acrolein	ND	100	<50	µg/L	Q40810
Acrylonitrile	ND	100	<50	µg/L	Q40810
Benzene	ND	1	<0.5	µg/L	Q40810
Bromobenzene	ND	1	<0.5	µg/L	Q40810
Bromochloromethane	ND	1	<0.5	µg/L	Q40810
Bromodichloromethane	ND	1	<0.5	µg/L	Q40810
Bromoform	ND	1	<0.5	µg/L	Q40810

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 NC Drinking Water Cert. No. 37735

Level II QC Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G0409389

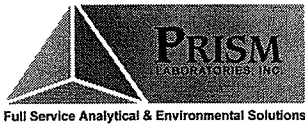
Date/Time Submitted: 04/14/09 13:30

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Bromomethane	ND	3	<1.5	µg/L	Q40810
Carbon disulfide	ND	5	<2.5	µg/L	Q40810
Carbon tetrachloride	ND	2	<1	µg/L	Q40810
Chlorobenzene	ND	1	<0.5	µg/L	Q40810
Chlorodibromomethane	ND	1	<0.5	µg/L	Q40810
Chloroethane	ND	5	<2.5	µg/L	Q40810
Chloroform	ND	1	<0.5	µg/L	Q40810
Chloromethane	ND	2	<1	µg/L	Q40810
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q40810
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q40810
Dibromomethane	ND	1	<0.5	µg/L	Q40810
Dichlorodifluoromethane	ND	2	<1	µg/L	Q40810
Ethylbenzene	ND	1	<0.5	µg/L	Q40810
Hexachlorobutadiene	ND	2	<1	µg/L	Q40810
Isopropyl ether (IPE)	ND	1	<0.5	µg/L	Q40810
Isopropylbenzene	ND	1	<0.5	µg/L	Q40810
m,p-Xylenes	ND	2	<1	µg/L	Q40810
Methyl ethyl ketone (MEK)	ND	5	<2.5	µg/L	Q40810
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q40810
Methylene chloride	ND	2	<1	µg/L	Q40810
n-Butylbenzene	ND	1	<0.5	µg/L	Q40810
n-Propylbenzene	ND	1	<0.5	µg/L	Q40810
Naphthalene	ND	1	<0.5	µg/L	Q40810
o-Xylene	ND	1	<0.5	µg/L	Q40810
p-Isopropyltoluene	ND	1	<0.5	µg/L	Q40810
sec-Butylbenzene	ND	1	<0.5	µg/L	Q40810
Styrene	ND	1	<0.5	µg/L	Q40810
tert-Butylbenzene	ND	1	<0.5	µg/L	Q40810
Tetrachloroethene	ND	1	<0.5	µg/L	Q40810
Toluene	ND	1	<0.5	µg/L	Q40810
trans-1,2-Dichloroethene	ND	2	<1	µg/L	Q40810
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q40810
Trichloroethene	ND	2	<1	µg/L	Q40810
Trichlorofluoromethane	ND	2	<1	µg/L	Q40810
Vinyl acetate	ND	20	<10	µg/L	Q40810
Vinyl chloride	ND	2	<1	µg/L	Q40810

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Level II QC Report

04/22/09

MACTEC Eng. & Consulting, Inc
 Attn: Susan Kelly
 1308 Patton Avenue
 Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G0409389
 Date/Time Submitted: 04/14/09 13:30

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1-Dichloroethene	63.34	50	µg/L	127	62-141	Q40810
Benzene	53.37	50	µg/L	107	70-141	Q40810
Chlorobenzene	48.3	50	µg/L	97	88-120	Q40810
Toluene	46.01	50	µg/L	92	78-130	Q40810
Trichloroethene	49.62	50	µg/L	99	78-124	Q40810

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID: 243761 1,1-Dichloroethene	276.88	200	µg/L	138	54-140	Q40810
Benzene	227.16	200	µg/L	114	62-129	Q40810
Chlorobenzene	202.44	200	µg/L	101	64-127	Q40810
Toluene	202.72	200	µg/L	101	60-131	Q40810
Trichloroethene	214.36	200	µg/L	107	52-128	Q40810

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID: 243761 1,1-Dichloroethene	263.12	200	µg/L	132	54-140	5	0 - 20	Q40810
Benzene	220.32	200	µg/L	110	62-129	3	0 - 19	Q40810
Chlorobenzene	196.8	200	µg/L	98	64-127	3	0 - 20	Q40810
Toluene	192.64	200	µg/L	96	60-131	5	0 - 21	Q40810
Trichloroethene	207.32	200	µg/L	104	52-128	3	0 - 18	Q40810

#-See Case Narrative

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: MILLS GAP ROAD SITE

Project Name: MILLS GAP ROAD SITE Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements

Invoice To: Susan Kella
 Address: 1308 Patten Ave
Asheville NC 28806

Purchase Order No./Billing Reference: 200902546
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days Pre-Approved
 Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)



Full Service Analytical & Environmental Solutions
 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/529-6364 • Fax: 704/525-0409

Client Company Name: MARTEC
 Report To/Contact Name: SUSAN KELLA
 Reporting Address: 1308 Patten Ave
Asheville NC 28806

Phone: 704-228-2323 Fax (Yes) (No): _____
 Email (Yes) (No): sekella@martec.com
 EDD Type: PDF Excel Other _____
 Site Location Name: MGR Site
 Site Location Physical Address: Mills Gap Road

LAB USE ONLY

Samples INTRACT upon arrival?	YES	NO	N/A
Received ON WET ICE? Temp <u>21</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES? <u>19</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC _____ USACE _____ FL _____ NC _____
 SC _____ OTHER N/A

Water Chlorinated: YES _____ NO
 Sample Iced Upon Collection: YES _____ NO

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
<u>MW-9A</u>	<u>3/16/09</u>	<u>1600</u>	<u>W</u>	<u>VOA</u>	<u>3</u>	<u>40ml</u>	<u>HCl</u>		<u>Rush</u>	<u>243404</u>
<u>MW-a</u>	<u>3/18/09</u>	<u>1700</u>	<u>W</u>	<u>VOA</u>	<u>3</u>	<u>40ml</u>	<u>HCl</u>		<u>Turn Around</u>	<u>243405</u>
<u>TRIPBANK09</u>			<u>W</u>	<u>VOA</u>	<u>3</u>	<u>40ml</u>	<u>HCl</u>			<u>243406</u>

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: Rodney Clark Sampled By (Print Name) Rodney Clark Affiliation _____

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature) _____ Received By: (Signature) _____ Date _____ Military/Hours _____

Relinquished By: (Signature) _____ Received By: (Signature) _____ Date 4-14-09 13:30

Relinquished By: (Signature) _____ Received For Prism Laboratories By: _____ Date _____ COC Group No. 6049389

PRISM USE ONLY

Site Arrival Time
Site Departure Time
Field Tech Fee
Mileage

Additional Comments:
sampled
4/13/09
per client
emr.
6/4/2010

SEE REVERSE FOR TERMS & CONDITIONS

Method of Shipment: Fed Ex UPS Hand-delivered Prism Field Service Other _____

NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

NPDES: NC SC NC SC NC SC NC SC NC SC NC SC NC SC

OTHER: LANDFILL NC SC NC SC CERCLA NC SC RCRA NC SC SOLID WASTE: NC SC DRINKING WATER: NC SC GROUNDWATER: NC SC Prist: NC SC

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)