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December 2, 2008

RECEIVED  
N.C.Dept. of ENR  
**DEC 05 2008**  
Winston-Salem  
Regional Office

Ms. Bonnie Ware  
North Carolina Department of Environment and Natural Resources  
DWM, Superfund Section, Inactive Hazardous Sites Branch  
585 Waughtown Street  
Winston-Salem, North Carolina 27107

**RE: Phase 1B Site Assessment Work Plan**  
**Mills Gap Road Site**  
**Skyland, North Carolina**  
**NCD Number 003149556**

Dear Ms. Ware:

Attached is the Phase 1B Site Assessment Work Plan for the subject site, prepared by MACTEC Engineering and Consulting, Inc. (MACTEC). Also included are supporting documents to include a drawing of the proposed well locations and the analytical reports from the Phase 1A Assessment. As noted by MACTEC in the attached, NC DENR's assistance in obtaining access to off-site drilling locations is necessary.

If you have any questions regarding this issue, please feel free to contact me.

Best regards,

CTS CORPORATION

Marvin E. Gobles, P.E.  
Manager Environmental Services

MEG/lab

Attachment



engineering and constructing a better tomorrow

December 1, 2008

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

Subject: **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 Phase IB Site Assessment Work Plan to CTS Corporation (CTS) for conducting additional ground-water assessment activities related to the Mills Gap Road Site (Site). This letter briefly describes findings from the Phase IA Site Assessment activities, which were conducted in September and October of 2008, and our proposed Phase IB Site Assessment activities.

The Phase IA Site Assessment activities consisted of the installation of ten ground-water monitoring wells and collection of soil and ground-water samples from the unconsolidated formation above bedrock ("saprolite") at the Site. Six monitoring wells (MW-1 through MW-6) were constructed as water table wells (ten-foot screened interval across the water table) and four monitoring wells (MW-3A through MW-6A) were constructed as partially weathered rock (PWR) wells (five-foot screened interval with the bottom of the well at the contact between PWR and apparent competent bedrock). Soil samples were collected from within approximately five feet of the water table at the well locations. The depth to ground-water was measured in the monitoring wells and an oil/water interface probe was used to gauge the potential presence of light or dense non-aqueous phase liquids in the monitoring wells. The oil/water interface probe did not indicate the presence of light or dense non-aqueous phase liquids in the monitoring wells prior to collection of ground-water samples using low-flow purging/sampling techniques. The collected soil and ground-water samples were submitted for the following laboratory analyses:

- Volatile organic compounds (VOCs), according to EPA Method 8260B (plus tentatively identified compounds);
- Semi-volatile compounds, according to EPA Method 8260C (plus tentatively identified compounds);
- Hazardous Substance List metals, according to EPA Methods 6010B and 7471A (mercury, soil) or 7470A (mercury, aqueous); and,
- Cyanide, according to EPA Method 9010.

December 1, 2008

MACTEC conducted a preliminary review of the field data and laboratory analytical results to develop the proposed Phase IB Site Assessment Work Plan. Water table and potentiometric elevation data were estimated based on ground surface elevations from the Site's topographic survey. Shallow ground water at the Site appears to flow north and northwesterly from monitoring well MW-1 toward the central portion of the Site. From this central area, because the Site is located on a topographic saddle between two ridges, the direction of ground-water flow appears to be both east and west toward the springs located on either side of the Site that have been previously shown to contain contaminants. The approximate location of the ground-water "divide" in the central portion of the Site, as well as the apparent southern direction of shallow ground-water flow from the area to the north of the Site, cannot be fully evaluated with the existing water-level data. Therefore, the Phase IB Site Assessment includes installation of monitoring wells at proposed locations MW-7/7A and MW-10/10A that will provide additional ground-water data.

Field data and laboratory analytical results from the Phase IA Site Assessment were evaluated with respect to delineating the horizontal extent of contamination in ground water at the Site in the saprolite. Laboratory analytical results of ground-water samples collected from monitoring wells other than MW-1 indicated concentrations of VOCs above the laboratory reporting limits. Copies of the laboratory analytical reports and chains-of-custody records are attached. In an effort to better understand the horizontal and vertical extent of ground-water contamination and ground-water flow directions within the unconsolidated formation in the area of the Site, we propose to install two on-site monitoring wells and up to 12 off-site monitoring wells.

The proposed Phase IB Site Assessment will include the installation of up to 14 monitoring wells at the approximate locations shown on the attached Figure 1. At the six off-site locations, a soil boring will be advanced using nominal 4.25-inch diameter augers until auger refusal is encountered. Soil samples will be collected with a split-spoon sampler at approximate five-foot intervals. If the vertical distance between the apparent water table and auger refusal (i.e., top of competent bedrock) is greater than ten feet, a PWR well with a five-foot screened interval will be installed with the bottom of the well at the contact between PWR and bedrock. A "nested" water table well, constructed with a ten-foot screened interval, will be installed adjacent to the PWR well. If the distance between the apparent water table and top of rock is less than ten feet, then one well with a ten-foot screened interval will be installed with the bottom of the well at the contact between PWR and competent rock. The proposed off-site monitoring wells are located in areas where contamination from an overlying source area is not anticipated; therefore, the proposed off-site water table and PWR wells will be installed as Type II monitoring wells (i.e., cross-contamination from an overlying aquifer or source area is not likely; therefore installation of an outer casing is not warranted). The proposed on-site PWR monitoring well (MW-7A) will be installed as a Type III monitoring well, similar to the existing on-site PWR monitoring wells. Drilling and monitoring well installation activities will be performed in accordance with the procedures described in our "Phase I Site Assessment Plan," dated February 28, 2008, as well as our "Response to Phase I Site Assessment Plan Comments," dated May 6, 2008.

The laboratory analytical results of soil and ground-water samples collected during the Phase IA Site Assessment activities indicate that the primary constituents of concern are VOCs. Ground-water samples will be collected from the newly installed 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 according to EPA Method 8260B. We do not propose to collect soil samples for laboratory analyses during installation of the Phase IB Site Assessment monitoring wells.

December 1, 2008

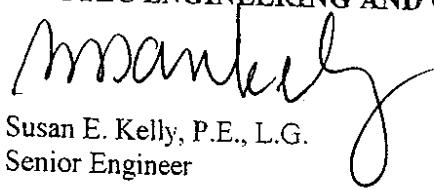
Investigative-derived waste generated during the installation and sampling of the monitoring wells will be contained in impermeable basins and prepared for proper short-term on-site accumulation and off-site transport and disposal.

We request that CTS contact the North Carolina Department of Environment and Natural Resource for assistance, as needed, in obtaining access to off-site drilling locations. The off-site drilling locations have been selected based on our evaluation of Phase IA Site Assessment sampling and analyses results and an initial determination of drilling equipment access. These locations might be modified prior to commencement of field activities based on the presence of utilities and obtaining landowner access.

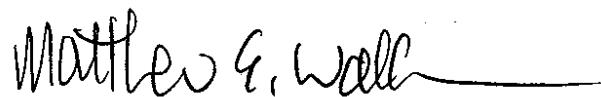
If you have questions regarding the information contained herein, please contact us at (828) 252-8130.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.



Susan E. Kelly, P.E., L.G.  
Senior Engineer



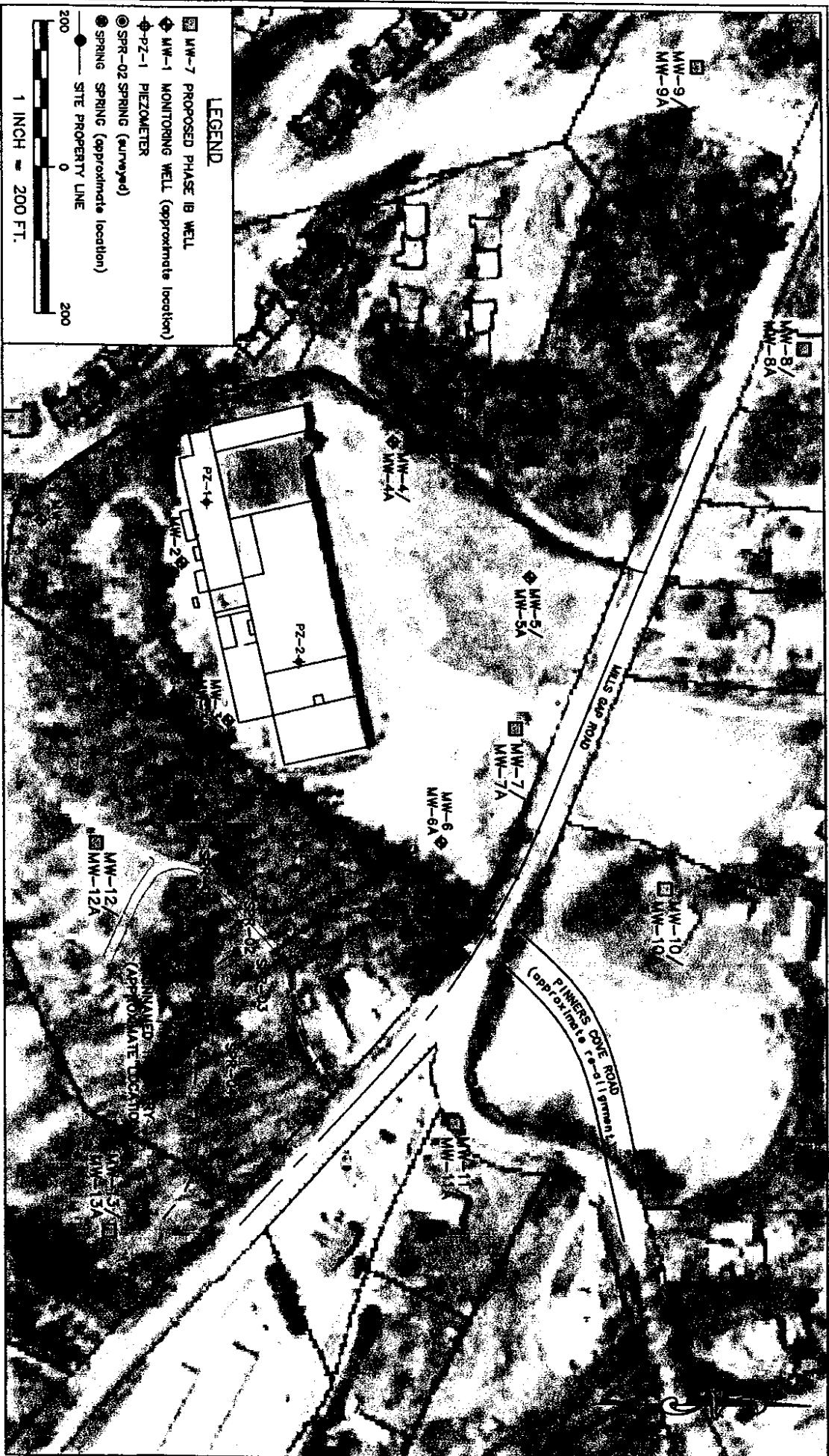
Matthew E. Wallace, P.E.  
Principal Engineer

SEK/MEW:sek

attachments: Figure 1 - Proposed Phase IB Monitoring Well Location Map  
Laboratory Analytical Reports and Chain-of-Custody Records

## PROPOSED PHASE IB MONITORING WELL LOCATION MAP

MILLS GAP ROAD SITE  
SKYLAND, NORTH CAROLINA





## Case Narrative

Date: 10/08/08  
Company: MACTEC Eng. & Consulting, Inc.  
Contact: Susan Kelly  
Address: 1308 Patton Avenue  
Asheville, NC 28806

Client Project ID: Mills Gap  
Prism COC Group No: G0908512  
Collection Date(s): 9/11/08 thru 9/17/08  
Lab Submittal Date(s): 09/18/08

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 36 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

No Anomalies Reported

### Volatile Analysis

No Anomalies Reported

### Metals Analysis

Analysis Note for Q35704 MS Antimony: Matrix interference is suspected.

Analysis Note for Q35704 MS Copper: Matrix interference is suspected.

Analysis Note for Q35704 MS Lead: MS recovery outside of the control limits.

Analysis Note for Q35704 MS Manganese: Sample concentration too high for recovery evaluation.

Analysis Note for Q35704 MS Thallium: Matrix interference is suspected.

Analysis Note for Q35704 MS Zinc: Sample concentration too high for recovery evaluation.

Analysis Note for Q35704 MSD Antimony: Matrix interference is suspected.

Analysis Note for Q35704 MSD Lead: RPD value outside the control limits. Result exceeds high calibration standard. Matrix interference is suspected.

Analysis Note for Q35704 MSD Manganese: Sample concentration too high for recovery evaluation.

Analysis Note for Q35704 MSD Thallium: Matrix interference is suspected.

Analysis Note for Q35704 MSD Zinc: Sample concentration too high for recovery evaluation.

### Wet Lab and Micro Analysis

No Anomalies Reported

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

Date Reviewed by: Paula A. Gilleland

Signature:

A handwritten signature in black ink that reads "Paula A. Gilleland".

Project Manager: Paula A. Gilleland

Signature:

A handwritten signature in black ink that reads "Paula A. Gilleland".

Review Date:

10/08/08

Approval Date:

10/08/08

### **Data Qualifiers Key Reference:**

B: Compound also detected in the method blank.

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## Case Narrative

Date: 10/08/08  
Company: MACTEC Eng. & Consulting, Inc  
Contact: Susan Kelly  
Address: 1308 Patton Avenue  
Asheville, NC 28806

Client Project ID: Mills Gap  
Prism COC Group No: G0908512  
Collection Date(s): 9/11/08 thru 9/17/08  
Lab Submittal Date(s): 09/18/08

#: 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.

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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-01  
Prism Sample ID: 225406  
COC Group: G0908512  
Time Collected: 09/17/08  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,2-Dichloropropene	BRL	µg/L	1.0	0.17	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	09/22/08 23:31	Iwtry	Q35552
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/22/08 23:31	Iwtry	Q35552
2,2-Dichloropropene	BRL	µg/L	2.0	0.21	1	8260B	09/22/08 23:31	Iwtry	Q35552
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	09/22/08 23:31	Iwtry	Q35552
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	09/22/08 23:31	Iwtry	Q35552
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	09/22/08 23:31	Iwtry	Q35552
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	09/22/08 23:31	Iwtry	Q35552
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	09/22/08 23:31	Iwtry	Q35552
Acetone	12	µg/L	10	0.44	1	8260B	09/22/08 23:31	Iwtry	Q35552

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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-01  
Prism Sample ID: 225406  
COC Group: G0908512  
Time Collected: 09/17/08  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	09/22/08 23:31	Iwtry	Q35552
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	09/22/08 23:31	Iwtry	Q35552
Benzene	BRL	µg/L	1.0	0.094	1	8260B	09/22/08 23:31	Iwtry	Q35552
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	09/22/08 23:31	Iwtry	Q35552
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	09/22/08 23:31	Iwtry	Q35552
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	09/22/08 23:31	Iwtry	Q35552
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	09/22/08 23:31	Iwtry	Q35552
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	09/22/08 23:31	Iwtry	Q35552
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	09/22/08 23:31	Iwtry	Q35552
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	09/22/08 23:31	Iwtry	Q35552
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/22/08 23:31	Iwtry	Q35552
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	09/22/08 23:31	Iwtry	Q35552
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	09/22/08 23:31	Iwtry	Q35552
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	09/22/08 23:31	Iwtry	Q35552
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	09/22/08 23:31	Iwtry	Q35552
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	09/22/08 23:31	Iwtry	Q35552
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	09/22/08 23:31	Iwtry	Q35552
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	09/22/08 23:31	Iwtry	Q35552
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	09/22/08 23:31	Iwtry	Q35552
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/22/08 23:31	Iwtry	Q35552
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	09/22/08 23:31	Iwtry	Q35552
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	09/22/08 23:31	Iwtry	Q35552
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	09/22/08 23:31	Iwtry	Q35552
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	09/22/08 23:31	Iwtry	Q35552
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	09/22/08 23:31	Iwtry	Q35552
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	09/22/08 23:31	Iwtry	Q35552
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	09/22/08 23:31	Iwtry	Q35552

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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-01  
Prism Sample ID: 225406  
COC Group: G0908512  
Time Collected: 09/17/08  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	09/22/08 23:31	Iwtry	Q35552
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	09/22/08 23:31	Iwtry	Q35552
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	09/22/08 23:31	Iwtry	Q35552
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	09/22/08 23:31	Iwtry	Q35552
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	09/22/08 23:31	Iwtry	Q35552
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/22/08 23:31	Iwtry	Q35552
Styrene	BRL	µg/L	1.0	0.11	1	8260B	09/22/08 23:31	Iwtry	Q35552
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	09/22/08 23:31	Iwtry	Q35552
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	09/22/08 23:31	Iwtry	Q35552
Toluene	BRL	µg/L	1.0	0.31	1	8260B	09/22/08 23:31	Iwtry	Q35552
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	09/22/08 23:31	Iwtry	Q35552
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	09/22/08 23:31	Iwtry	Q35552
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	09/22/08 23:31	Iwtry	Q35552
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	09/22/08 23:31	Iwtry	Q35552
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	09/22/08 23:31	Iwtry	Q35552
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	09/22/08 23:31	Iwtry	Q35552

Surrogate	% Recovery	Control Limits
Toluene-d8	98	75 - 121
Dibromofluoromethane	96	74 - 133
Bromofluorobenzene	101	69 - 139

TIC's By 8260

Est.Conc      Units

No TICs were detected.

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

## Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-01  
Prism Sample ID: 225406  
COC Group: G0908512  
Time Collected: 09/17/08  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
-----------	--------	-------	--------------	-----	-----------------	--------	--------------------	---------	----------

### 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

A handwritten signature in black ink, appearing to read "Angela D. Overcash".

Angela D. Overcash, V.P. Laboratory Services



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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-6  
Prism Sample ID: 225407  
COC Group: G0908512  
Time Collected: 09/11/08 13:45  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Percent Solids Determination</b>									
Percent Solids	81.9	%			1	SM2540 G	09/19/08 11:00	dsullivan	
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	4.9	0.48	1	8260B	09/19/08 23:07	Iwity	Q35463
1,1,1-Trichloroethane	BRL	µg/kg	4.9	0.51	1	8260B	09/19/08 23:07	Iwity	Q35463
1,1,2,2-Tetrachloroethane	BRL	µg/kg	4.9	0.55	1	8260B	09/19/08 23:07	Iwity	Q35463
1,1,2-Trichloroethane	BRL	µg/kg	4.9	0.33	1	8260B	09/19/08 23:07	Iwity	Q35463
1,1-Dichloroethane	BRL	µg/kg	4.9	0.51	1	8260B	09/19/08 23:07	Iwity	Q35463
1,1-Dichloroethene	BRL	µg/kg	4.9	0.64	1	8260B	09/19/08 23:07	Iwity	Q35463
1,1-Dichloropropene	BRL	µg/kg	4.9	0.70	1	8260B	09/19/08 23:07	Iwity	Q35463
1,2,3-Trichlorobenzene	BRL	µg/kg	9.9	0.77	1	8260B	09/19/08 23:07	Iwity	Q35463
1,2,3-Trichloropropane	BRL	µg/kg	4.9	0.58	1	8260B	09/19/08 23:07	Iwity	Q35463
1,2,4-Trichlorobenzene	BRL	µg/kg	9.9	0.80	1	8260B	09/19/08 23:07	Iwity	Q35463
1,2,4-Trimethylbenzene	BRL	µg/kg	9.9	0.70	1	8260B	09/19/08 23:07	Iwity	Q35463
1,2-Dibromo-3-chloropropane	BRL	µg/kg	4.9	0.59	1	8260B	09/19/08 23:07	Iwity	Q35463
1,2-Dibromoethane (EDB)	BRL	µg/kg	4.9	0.55	1	8260B	09/19/08 23:07	Iwity	Q35463
1,2-Dichlorobenzene	BRL	µg/kg	9.9	0.57	1	8260B	09/19/08 23:07	Iwity	Q35463
1,2-Dichloroethane	BRL	µg/kg	4.9	0.57	1	8260B	09/19/08 23:07	Iwity	Q35463
1,2-Dichloropropene	BRL	µg/kg	4.9	0.50	1	8260B	09/19/08 23:07	Iwity	Q35463
1,3,5-Trimethylbenzene	BRL	µg/kg	9.9	0.58	1	8260B	09/19/08 23:07	Iwity	Q35463
1,3-Dichlorobenzene	BRL	µg/kg	9.9	0.71	1	8260B	09/19/08 23:07	Iwity	Q35463
1,3-Dichloropropane	BRL	µg/kg	4.9	0.59	1	8260B	09/19/08 23:07	Iwity	Q35463
1,4-Dichlorobenzene	BRL	µg/kg	9.9	0.61	1	8260B	09/19/08 23:07	Iwity	Q35463
2,2-Dichloropropane	BRL	µg/kg	4.9	0.45	1	8260B	09/19/08 23:07	Iwity	Q35463
2-Chloroethyl vinyl ether	BRL	µg/kg	9.9	0.50	1	8260B	09/19/08 23:07	Iwity	Q35463
2-Chlorotoluene	BRL	µg/kg	9.9	0.58	1	8260B	09/19/08 23:07	Iwity	Q35463
2-Hexanone	BRL	µg/kg	49	0.37	1	8260B	09/19/08 23:07	Iwity	Q35463

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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-6  
Prism Sample ID: 225407  
COC Group: G0908512  
Time Collected: 09/11/08 13:45  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	9.9	0.72	1	8260B	09/19/08 23:07	Iwtry	Q35463
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	9.9	1.0	1	8260B	09/19/08 23:07	Iwtry	Q35463
Acetone	BRL	µg/kg	20	1.5	1	8260B	09/19/08 23:07	Iwtry	Q35463
Benzene	BRL	µg/kg	3.0	0.59	1	8260B	09/19/08 23:07	Iwtry	Q35463
Bromobenzene	BRL	µg/kg	4.9	0.58	1	8260B	09/19/08 23:07	Iwtry	Q35463
Bromoform	BRL	µg/kg	4.9	0.66	1	8260B	09/19/08 23:07	Iwtry	Q35463
Bromochloromethane	BRL	µg/kg	4.9	0.51	1	8260B	09/19/08 23:07	Iwtry	Q35463
Bromodichloromethane	BRL	µg/kg	4.9	0.59	1	8260B	09/19/08 23:07	Iwtry	Q35463
Bromoform	BRL	µg/kg	4.9	0.59	1	8260B	09/19/08 23:07	Iwtry	Q35463
Bromomethane	BRL	µg/kg	9.9	1.5	1	8260B	09/19/08 23:07	Iwtry	Q35463
Carbon disulfide	BRL	µg/kg	9.9	0.73	1	8260B	09/19/08 23:07	Iwtry	Q35463
Carbon tetrachloride	BRL	µg/kg	4.9	0.42	1	8260B	09/19/08 23:07	Iwtry	Q35463
Chlorobenzene	BRL	µg/kg	4.9	0.52	1	8260B	09/19/08 23:07	Iwtry	Q35463
Chlorodibromomethane	BRL	µg/kg	4.9	0.56	1	8260B	09/19/08 23:07	Iwtry	Q35463
Chloroethane	BRL	µg/kg	9.9	1.3	1	8260B	09/19/08 23:07	Iwtry	Q35463
Chloroform	BRL	µg/kg	4.9	0.49	1	8260B	09/19/08 23:07	Iwtry	Q35463
Chloromethane	BRL	µg/kg	9.9	0.73	1	8260B	09/19/08 23:07	Iwtry	Q35463
cis-1,2-Dichloroethene	BRL	µg/kg	4.9	0.79	1	8260B	09/19/08 23:07	Iwtry	Q35463
cis-1,3-Dichloropropene	BRL	µg/kg	4.9	0.55	1	8260B	09/19/08 23:07	Iwtry	Q35463
Dibromomethane	BRL	µg/kg	4.9	0.62	1	8260B	09/19/08 23:07	Iwtry	Q35463
Dichlorodifluoromethane	BRL	µg/kg	9.9	0.81	1	8260B	09/19/08 23:07	Iwtry	Q35463
Ethylbenzene	BRL	µg/kg	4.9	0.59	1	8260B	09/19/08 23:07	Iwtry	Q35463
Hexachlorobutadiene	BRL	µg/kg	15	0.84	1	8260B	09/19/08 23:07	Iwtry	Q35463
Isopropyl ether (IPE)	BRL	µg/kg	4.9	0.42	1	8260B	09/19/08 23:07	Iwtry	Q35463
Isopropylbenzene	BRL	µg/kg	9.9	0.74	1	8260B	09/19/08 23:07	Iwtry	Q35463
m,p-Xylenes	BRL	µg/kg	9.9	1.2	1	8260B	09/19/08 23:07	Iwtry	Q35463
Methyl ethyl ketone (MEK)	BRL	µg/kg	20	0.76	1	8260B	09/19/08 23:07	Iwtry	Q35463
Methyl t-butyl ether (MTBE)	BRL	µg/kg	4.9	0.49	1	8260B	09/19/08 23:07	Iwtry	Q35463

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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-6  
Prism Sample ID: 225407  
COC Group: G0908512  
Time Collected: 09/11/08 13:45  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	9.9	0.59	1	8260B	09/19/08 23:07	Iwtry	Q35463
n-Butylbenzene	BRL	µg/kg	15	0.66	1	8260B	09/19/08 23:07	Iwtry	Q35463
n-Propylbenzene	BRL	µg/kg	9.9	0.57	1	8260B	09/19/08 23:07	Iwtry	Q35463
Naphthalene	BRL	µg/kg	4.9	1.5	1	8260B	09/19/08 23:07	Iwtry	Q35463
o-Xylene	BRL	µg/kg	4.9	0.62	1	8260B	09/19/08 23:07	Iwtry	Q35463
p-Isopropyltoluene	BRL	µg/kg	15	0.72	1	8260B	09/19/08 23:07	Iwtry	Q35463
sec-Butylbenzene	BRL	µg/kg	15	0.71	1	8260B	09/19/08 23:07	Iwtry	Q35463
Styrene	BRL	µg/kg	4.9	0.55	1	8260B	09/19/08 23:07	Iwtry	Q35463
tert-Butylbenzene	BRL	µg/kg	20	0.68	1	8260B	09/19/08 23:07	Iwtry	Q35463
Tetrachloroethene	BRL	µg/kg	9.9	0.59	1	8260B	09/19/08 23:07	Iwtry	Q35463
Toluene	BRL	µg/kg	4.9	0.54	1	8260B	09/19/08 23:07	Iwtry	Q35463
trans-1,2-Dichloroethene	BRL	µg/kg	4.9	0.60	1	8260B	09/19/08 23:07	Iwtry	Q35463
trans-1,3-Dichloropropene	BRL	µg/kg	4.9	0.80	1	8260B	09/19/08 23:07	Iwtry	Q35463
Trichloroethene	BRL	µg/kg	4.9	0.81	1	8260B	09/19/08 23:07	Iwtry	Q35463
Trichlorofluoromethane	BRL	µg/kg	4.9	0.71	1	8260B	09/19/08 23:07	Iwtry	Q35463
Vinyl chloride	BRL	µg/kg	9.9	0.70	1	8260B	09/19/08 23:07	Iwtry	Q35463

Surrogate	% Recovery	Control Limits
Toluene-d8	104	81 - 128
Dibromofluoromethane	103	67 - 143
Bromofluorobenzene	104	77 - 128

## TIC's By 8260

No TICs were detected.

Est.Conc      Units

Sample Weight Determination					
Weight Bisulfate 1	6.28	g	1	5035	09/18/08 0:00 lbrown
Weight Bisulfate 2	6.42	g	1	5035	09/18/08 0:00 lbrown

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

## Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-6  
Prism Sample ID: 225407  
COC Group: G0908512  
Time Collected: 09/11/08 13:45  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Weight Methanol	6.40	g			1	5035	09/18/08 0:00	lbrown	
<b>Semi-volatile Organic Compounds by GC/MS</b>									
1,2,4-Trichlorobenzene	BRL	µg/kg	400	44	1	8270C	09/27/08 3:28	kcampigotto	Q35709
1,2-Dichlorobenzene	BRL	µg/kg	400	44	1	8270C	09/27/08 3:28	kcampigotto	Q35709
1,3-Dichlorobenzene	BRL	µg/kg	400	39	1	8270C	09/27/08 3:28	kcampigotto	Q35709
1,4-Dichlorobenzene	BRL	µg/kg	400	48	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2,4,5-Trichlorophenol	BRL	µg/kg	400	47	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2,4,6-Trichlorophenol	BRL	µg/kg	400	43	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2,4-Dichlorophenol	BRL	µg/kg	400	26	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2,4-Dimethylphenol	BRL	µg/kg	400	59	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2,4-Dinitrophenol	BRL	µg/kg	400	120	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2,4-Dinitrotoluene	BRL	µg/kg	400	52	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2,6-Dinitrotoluene	BRL	µg/kg	400	72	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2-Chloronaphthalene	BRL	µg/kg	400	50	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2-Chlorophenol	BRL	µg/kg	400	17	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2-Methylnaphthalene	BRL	µg/kg	400	45	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2-Methylphenol	BRL	µg/kg	400	32	1	8270C	09/27/08 3:28	kcampigotto	Q35709
2-Nitrophenol	BRL	µg/kg	400	56	1	8270C	09/27/08 3:28	kcampigotto	Q35709
3&4-Methylphenol	BRL	µg/kg	400	47	1	8270C	09/27/08 3:28	kcampigotto	Q35709
3,3'-Dichlorobenzidine	BRL	µg/kg	400	72	1	8270C	09/27/08 3:28	kcampigotto	Q35709
4,6-Dinitro-2-methylphenol	BRL	µg/kg	400	34	1	8270C	09/27/08 3:28	kcampigotto	Q35709
4-Bromophenylphenylether	BRL	µg/kg	400	50	1	8270C	09/27/08 3:28	kcampigotto	Q35709
4-Chloro-3-methylphenol	BRL	µg/kg	400	47	1	8270C	09/27/08 3:28	kcampigotto	Q35709
4-Chlorophenylphenylether	BRL	µg/kg	400	50	1	8270C	09/27/08 3:28	kcampigotto	Q35709
4-Nitrophenol	BRL	µg/kg	400	51	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Acenaphthene	BRL	µg/kg	400	54	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Acenaphthylene	BRL	µg/kg	400	37	1	8270C	09/27/08 3:28	kcampigotto	Q35709

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

## Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-6  
Prism Sample ID: 225407  
COC Group: G0908512  
Time Collected: 09/11/08 13:45  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anthracene	BRL	µg/kg	400	29	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Benzo(a)anthracene	BRL	µg/kg	400	45	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Benzo(a)pyrene	BRL	µg/kg	400	50	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Benzo(b)fluoranthene	BRL	µg/kg	400	81	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Benzo(g,h,i)perylene	BRL	µg/kg	400	51	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Benzo(k)fluoranthene	BRL	µg/kg	400	110	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Bis(2-chloroethoxy)methane	BRL	µg/kg	400	67	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Bis(2-chloroethyl)ether	BRL	µg/kg	400	49	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Bis(2-chloroisopropyl)ether	BRL	µg/kg	400	40	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	400	31	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Butylbenzylphthalate	BRL	µg/kg	400	49	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Chrysene	BRL	µg/kg	400	27	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Di-n-butylphthalate	BRL	µg/kg	400	64	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Di-n-octylphthalate	BRL	µg/kg	400	120	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Dibenzo(a,h)anthracene	BRL	µg/kg	400	37	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Dibenzofuran	BRL	µg/kg	400	49	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Diethylphthalate	BRL	µg/kg	400	100	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Dimethylphthalate	BRL	µg/kg	400	59	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Fluoranthene	BRL	µg/kg	400	70	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Fluorene	BRL	µg/kg	400	57	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Hexachlorobenzene	BRL	µg/kg	400	55	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Hexachlorobutadiene	BRL	µg/kg	400	40	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Hexachlorocyclopentadiene	BRL	µg/kg	400	59	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Hexachloroethane	BRL	µg/kg	400	16	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	400	38	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Isophorone	BRL	µg/kg	400	38	1	8270C	09/27/08 3:28	kcampigotto	Q35709
N-Nitrosodi-n-propylamine	BRL	µg/kg	400	23	1	8270C	09/27/08 3:28	kcampigotto	Q35709

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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-6  
Prism Sample ID: 225407  
COC Group: G0908512  
Time Collected: 09/11/08 13:45  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiphenylamine	BRL	µg/kg	400	58	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Naphthalene	BRL	µg/kg	400	48	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Nitrobenzene	BRL	µg/kg	400	50	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Pentachlorophenol	BRL	µg/kg	400	61	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Phenanthrene	BRL	µg/kg	400	34	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Phenol	BRL	µg/kg	400	70	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Pyrene	BRL	µg/kg	400	76	1	8270C	09/27/08 3:28	kcampigotto	Q35709
Sample Preparation:			30.3 g	/	1 mL	3550B	09/19/08 11:00	jbarrette	P22609
Surrogate						% Recovery	Control Limits		
						Terphenyl-d14	70	41 - 136	
						Phenol-d5	56	13 - 95	
						Nitrobenzene-d5	57	14 - 103	
						2-Fluorophenol	48	14 - 89	
						2-Fluorobiphenyl	56	21 - 108	
						2,4,6-Tribromophenol	78	25 - 123	

#### TIC's By 8270

	Est.Conc	Units
--	----------	-------

No TICs were detected.

#### Cyanide by Spectrophotometric Method

Cyanide, Total	BRL	mg/kg	0.61	0.21	1	9014	09/24/08 15:51	heasler	Q35643
Sample Preparation:			1.05 g	/	25 mL	9010B	09/23/08 9:48	heasler	P22619

#### Mercury by CVAA

Mercury	BRL	mg/kg	0.024	0.0028	1	7471A	09/30/08 18:27	heasler	Q35794
Sample Preparation:			0.6 g	/	50 mL	7471A	09/30/08 15:00	mbarber	P22670

#### Metals by ICP

Antimony	BRL	mg/kg	0.73	0.19	3	6010B	09/26/08 22:52	mcampbell	Q35704
Arsenic	8.5	mg/kg	1.8	0.24	3	6010B	09/26/08 22:52	mcampbell	Q35704

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

## Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-6  
Prism Sample ID: 225407  
COC Group: G0908512  
Time Collected: 09/11/08 13:45  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Beryllium	2.1	mg/kg	0.91	0.022	3	6010B	09/26/08 22:52	mcampbell	Q35704
Cadmium	BRL	mg/kg	0.91	0.022	3	6010B	09/26/08 22:52	mcampbell	Q35704
Chromium	36	mg/kg	0.91	0.051	3	6010B	09/26/08 22:52	mcampbell	Q35704
Copper	61	mg/kg	1.8	0.79	3	6010B	09/26/08 22:52	mcampbell	Q35704
Lead	9.0	mg/kg	0.91	0.058	3	6010B	09/26/08 22:52	mcampbell	Q35704
Manganese	680	mg/kg	3.0	0.36	10	6010B	10/01/08 12:08	Mcampbell	Q35704
Nickel	32	mg/kg	1.8	0.22	3	6010B	09/26/08 22:52	mcampbell	Q35704
Selenium	BRL	mg/kg	1.8	0.36	3	6010B	09/26/08 22:52	mcampbell	Q35704
Silver	BRL	mg/kg	0.91	0.058	3	6010B	09/26/08 22:52	mcampbell	Q35704
Thallium	BRL	mg/kg	1.8	0.32	3	6010B	09/26/08 22:52	mcampbell	Q35704
Zinc	110	mg/kg	9.1	0.67	3	6010B	09/26/08 22:52	mcampbell	Q35704
Sample Preparation:				2 g	/	50 mL	3050B	09/25/08 8:10	mbarber
									P22636

---

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 dry-weight basis

A handwritten signature in black ink, appearing to read "Angela D. Overcash".

Angela D. Overcash, V.P. Laboratory Services



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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-5  
Prism Sample ID: 225408  
COC Group: G0908512  
Time Collected: 09/17/08 8:30  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b><u>Percent Solids Determination</u></b>									
Percent Solids	80.6	%			1	SM2540 G	09/19/08 11:00	dsullivan	
<b><u>Volatile Organic Compounds by GC/MS</u></b>									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	5.7	0.56	1	8260B	09/24/08 11:45	Iwity	Q35593
1,1,1-Trichloroethane	BRL	µg/kg	5.7	0.59	1	8260B	09/24/08 11:45	Iwity	Q35593
1,1,2,2-Tetrachloroethane	BRL	µg/kg	5.7	0.64	1	8260B	09/24/08 11:45	Iwity	Q35593
1,1,2-Trichloroethane	BRL	µg/kg	5.7	0.38	1	8260B	09/24/08 11:45	Iwity	Q35593
1,1-Dichloroethane	BRL	µg/kg	5.7	0.59	1	8260B	09/24/08 11:45	Iwity	Q35593
1,1-Dichloroethene	BRL	µg/kg	5.7	0.74	1	8260B	09/24/08 11:45	Iwity	Q35593
1,1-Dichloropropene	BRL	µg/kg	5.7	0.81	1	8260B	09/24/08 11:45	Iwity	Q35593
1,2,3-Trichlorobenzene	BRL	µg/kg	11	0.89	1	8260B	09/24/08 11:45	Iwity	Q35593
1,2,3-Trichloropropane	BRL	µg/kg	5.7	0.67	1	8260B	09/24/08 11:45	Iwity	Q35593
1,2,4-Trichlorobenzene	BRL	µg/kg	11	0.92	1	8260B	09/24/08 11:45	Iwity	Q35593
1,2,4-Trimethylbenzene	BRL	µg/kg	11	0.81	1	8260B	09/24/08 11:45	Iwity	Q35593
1,2-Dibromo-3-chloropropane	BRL	µg/kg	5.7	0.68	1	8260B	09/24/08 11:45	Iwity	Q35593
1,2-Dibromoethane (EDB)	BRL	µg/kg	5.7	0.64	1	8260B	09/24/08 11:45	Iwity	Q35593
1,2-Dichlorobenzene	BRL	µg/kg	11	0.66	1	8260B	09/24/08 11:45	Iwity	Q35593
1,2-Dichloroethane	BRL	µg/kg	5.7	0.66	1	8260B	09/24/08 11:45	Iwity	Q35593
1,2-Dichloropropane	BRL	µg/kg	5.7	0.58	1	8260B	09/24/08 11:45	Iwity	Q35593
1,3,5-Trimethylbenzene	BRL	µg/kg	11	0.67	1	8260B	09/24/08 11:45	Iwity	Q35593
1,3-Dichlorobenzene	BRL	µg/kg	11	0.82	1	8260B	09/24/08 11:45	Iwity	Q35593
1,3-Dichloropropane	BRL	µg/kg	5.7	0.68	1	8260B	09/24/08 11:45	Iwity	Q35593
1,4-Dichlorobenzene	BRL	µg/kg	11	0.71	1	8260B	09/24/08 11:45	Iwity	Q35593
2,2-Dichloropropane	BRL	µg/kg	5.7	0.52	1	8260B	09/24/08 11:45	Iwity	Q35593
2-Chloroethyl vinyl ether	BRL	µg/kg	11	0.58	1	8260B	09/24/08 11:45	Iwity	Q35593
2-Chlorotoluene	BRL	µg/kg	11	0.67	1	8260B	09/24/08 11:45	Iwity	Q35593
2-Hexanone	BRL	µg/kg	57	0.42	1	8260B	09/24/08 11:45	Iwity	Q35593

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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-5  
Prism Sample ID: 225408  
COC Group: G0908512  
Time Collected: 09/17/08 8:30  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	11	0.83	1	8260B	09/24/08 11:45	Iwtry	Q35593
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	11	1.2	1	8260B	09/24/08 11:45	Iwtry	Q35593
Acetone	31	µg/kg	23	1.7	1	8260B	09/24/08 11:45	Iwtry	Q35593
Benzene	BRL	µg/kg	3.4	0.68	1	8260B	09/24/08 11:45	Iwtry	Q35593
Bromobenzene	BRL	µg/kg	5.7	0.67	1	8260B	09/24/08 11:45	Iwtry	Q35593
Bromochloromethane	BRL	µg/kg	5.7	0.76	1	8260B	09/24/08 11:45	Iwtry	Q35593
Bromodichloromethane	BRL	µg/kg	5.7	0.59	1	8260B	09/24/08 11:45	Iwtry	Q35593
Bromoform	BRL	µg/kg	5.7	0.68	1	8260B	09/24/08 11:45	Iwtry	Q35593
Bromomethane	BRL	µg/kg	11	1.7	1	8260B	09/24/08 11:45	Iwtry	Q35593
Carbon disulfide	BRL	µg/kg	11	0.84	1	8260B	09/24/08 11:45	Iwtry	Q35593
Carbon tetrachloride	BRL	µg/kg	5.7	0.49	1	8260B	09/24/08 11:45	Iwtry	Q35593
Chlorobenzene	BRL	µg/kg	5.7	0.60	1	8260B	09/24/08 11:45	Iwtry	Q35593
Chlorodibromomethane	BRL	µg/kg	5.7	0.65	1	8260B	09/24/08 11:45	Iwtry	Q35593
Chloroethane	BRL	µg/kg	11	1.5	1	8260B	09/24/08 11:45	Iwtry	Q35593
Chloroform	BRL	µg/kg	5.7	0.57	1	8260B	09/24/08 11:45	Iwtry	Q35593
Chloromethane	BRL	µg/kg	11	0.84	1	8260B	09/24/08 11:45	Iwtry	Q35593
cis-1,2-Dichloroethylene	15	µg/kg	5.7	0.91	1	8260B	09/24/08 11:45	Iwtry	Q35593
cis-1,3-Dichloropropene	BRL	µg/kg	5.7	0.64	1	8260B	09/24/08 11:45	Iwtry	Q35593
Dibromomethane	BRL	µg/kg	5.7	0.72	1	8260B	09/24/08 11:45	Iwtry	Q35593
Dichlorodifluoromethane	BRL	µg/kg	11	0.93	1	8260B	09/24/08 11:45	Iwtry	Q35593
Ethylbenzene	BRL	µg/kg	5.7	0.68	1	8260B	09/24/08 11:45	Iwtry	Q35593
Hexachlorobutadiene	BRL	µg/kg	17	0.97	1	8260B	09/24/08 11:45	Iwtry	Q35593
Isopropyl ether (IPE)	BRL	µg/kg	5.7	0.49	1	8260B	09/24/08 11:45	Iwtry	Q35593
Isopropylbenzene	BRL	µg/kg	11	0.85	1	8260B	09/24/08 11:45	Iwtry	Q35593
m,p-Xylenes	BRL	µg/kg	11	1.4	1	8260B	09/24/08 11:45	Iwtry	Q35593
Methyl ethyl ketone (MEK)	BRL	µg/kg	23	0.88	1	8260B	09/24/08 11:45	Iwtry	Q35593
Methyl t-butyl ether (MTBE)	BRL	µg/kg	5.7	0.57	1	8260B	09/24/08 11:45	Iwtry	Q35593

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

## Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-5  
Prism Sample ID: 225408  
COC Group: G0908512  
Time Collected: 09/17/08 8:30  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	11	0.68	1	8260B	09/24/08 11:45	Iwity	Q35593
n-Butylbenzene	BRL	µg/kg	17	0.76	1	8260B	09/24/08 11:45	Iwity	Q35593
n-Propylbenzene	BRL	µg/kg	11	0.66	1	8260B	09/24/08 11:45	Iwity	Q35593
Naphthalene	BRL	µg/kg	5.7	1.8	1	8260B	09/24/08 11:45	Iwity	Q35593
o-Xylene	BRL	µg/kg	5.7	0.72	1	8260B	09/24/08 11:45	Iwity	Q35593
p-Isopropyltoluene	BRL	µg/kg	17	0.83	1	8260B	09/24/08 11:45	Iwity	Q35593
sec-Butylbenzene	BRL	µg/kg	17	0.82	1	8260B	09/24/08 11:45	Iwity	Q35593
Styrene	BRL	µg/kg	5.7	0.64	1	8260B	09/24/08 11:45	Iwity	Q35593
tert-Butylbenzene	BRL	µg/kg	23	0.79	1	8260B	09/24/08 11:45	Iwity	Q35593
Tetrachloroethene	BRL	µg/kg	11	0.68	1	8260B	09/24/08 11:45	Iwity	Q35593
Toluene	BRL	µg/kg	5.7	0.63	1	8260B	09/24/08 11:45	Iwity	Q35593
trans-1,2-Dichloroethene	BRL	µg/kg	5.7	0.69	1	8260B	09/24/08 11:45	Iwity	Q35593
trans-1,3-Dichloropropene	BRL	µg/kg	5.7	0.92	1	8260B	09/24/08 11:45	Iwity	Q35593
Trichloroethene	7.4	µg/kg	5.7	0.93	1	8260B	09/24/08 11:45	Iwity	Q35593
Trichlorofluoromethane	BRL	µg/kg	5.7	0.82	1	8260B	09/24/08 11:45	Iwity	Q35593
Vinyl chloride	BRL	µg/kg	11	0.81	1	8260B	09/24/08 11:45	Iwity	Q35593

Surrogate	% Recovery	Control Limits
Toluene-d8	105	81 - 128
Dibromofluoromethane	105	67 - 143
Bromofluorobenzene	113	77 - 128

### TIC's By 8260

No TICs were detected.

Est.Conc      Units

Sample Weight Determination						
Weight Bisulfate 1	6.47	g		1	5035	09/18/08 0:00 lbrown
Weight Bisulfate 2	6.45	g		1	5035	09/18/08 0:00 lbrown

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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-5  
Prism Sample ID: 225408  
COC Group: G0908512  
Time Collected: 09/17/08 8:30  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Weight Methanol	6.59	g			1	5035	09/18/08 0:00	Ibrown	
<b>Semi-volatile Organic Compounds by GC/MS</b>									
1,2,4-Trichlorobenzene	BRL	µg/kg	410	45	1	8270C	09/27/08 4:01	kcampigotto	Q35709
1,2-Dichlorobenzene	BRL	µg/kg	410	45	1	8270C	09/27/08 4:01	kcampigotto	Q35709
1,3-Dichlorobenzene	BRL	µg/kg	410	40	1	8270C	09/27/08 4:01	kcampigotto	Q35709
1,4-Dichlorobenzene	BRL	µg/kg	410	49	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2,4,5-Trichlorophenol	BRL	µg/kg	410	49	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2,4,6-Trichlorophenol	BRL	µg/kg	410	44	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2,4-Dichlorophenol	BRL	µg/kg	410	27	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2,4-Dimethylphenol	BRL	µg/kg	410	61	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2,4-Dinitrophenol	BRL	µg/kg	410	120	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2,4-Dinitrotoluene	BRL	µg/kg	410	54	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2,6-Dinitrotoluene	BRL	µg/kg	410	74	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2-Chloronaphthalene	BRL	µg/kg	410	51	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2-Chlorophenol	BRL	µg/kg	410	17	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2-Methylnaphthalene	BRL	µg/kg	410	46	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2-Methylphenol	BRL	µg/kg	410	33	1	8270C	09/27/08 4:01	kcampigotto	Q35709
2-Nitrophenol	BRL	µg/kg	410	58	1	8270C	09/27/08 4:01	kcampigotto	Q35709
3&4-Methylphenol	BRL	µg/kg	410	48	1	8270C	09/27/08 4:01	kcampigotto	Q35709
3,3'-Dichlorobenzidine	BRL	µg/kg	410	74	1	8270C	09/27/08 4:01	kcampigotto	Q35709
4,6-Dinitro-2-methylphenol	BRL	µg/kg	410	35	1	8270C	09/27/08 4:01	kcampigotto	Q35709
4-Bromophenylphenylether	BRL	µg/kg	410	51	1	8270C	09/27/08 4:01	kcampigotto	Q35709
4-Chloro-3-methylphenol	BRL	µg/kg	410	48	1	8270C	09/27/08 4:01	kcampigotto	Q35709
4-Chlorophenylphenylether	BRL	µg/kg	410	52	1	8270C	09/27/08 4:01	kcampigotto	Q35709
4-Nitrophenol	BRL	µg/kg	410	52	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Acenaphthene	BRL	µg/kg	410	56	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Acenaphthylene	BRL	µg/kg	410	39	1	8270C	09/27/08 4:01	kcampigotto	Q35709

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

# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-5  
Prism Sample ID: 225408  
COC Group: G0908512  
Time Collected: 09/17/08 8:30  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anthracene	BRL	µg/kg	410	30	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Benzo(a)anthracene	BRL	µg/kg	410	46	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Benzo(a)pyrene	BRL	µg/kg	410	52	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Benzo(b)fluoranthene	BRL	µg/kg	410	84	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Benzo(g,h,i)perylene	BRL	µg/kg	410	52	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Benzo(k)fluoranthene	BRL	µg/kg	410	110	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Bis(2-chloroethoxy)methane	BRL	µg/kg	410	69	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Bis(2-chloroethyl)ether	BRL	µg/kg	410	51	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Bis(2-chloroisopropyl)ether	BRL	µg/kg	410	41	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	410	32	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Butylbenzylphthalate	BRL	µg/kg	410	50	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Chrysene	BRL	µg/kg	410	28	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Di-n-butylphthalate	BRL	µg/kg	410	66	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Di-n-octylphthalate	BRL	µg/kg	410	120	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Dibenzo(a,h)anthracene	BRL	µg/kg	410	38	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Dibenzofuran	BRL	µg/kg	410	50	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Diethylphthalate	BRL	µg/kg	410	110	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Dimethylphthalate	BRL	µg/kg	410	61	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Fluoranthene	BRL	µg/kg	410	72	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Fluorene	BRL	µg/kg	410	58	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Hexachlorobenzene	BRL	µg/kg	410	56	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Hexachlorobutadiene	BRL	µg/kg	410	41	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Hexachlorocyclopentadiene	BRL	µg/kg	410	61	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Hexachloroethane	BRL	µg/kg	410	17	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	410	39	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Isophorone	BRL	µg/kg	410	39	1	8270C	09/27/08 4:01	kcampigotto	Q35709
N-Nitrosodi-n-propylamine	BRL	µg/kg	410	24	1	8270C	09/27/08 4:01	kcampigotto	Q35709

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NC Certification No. 402  
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# Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-5  
Prism Sample ID: 225408  
COC Group: G0908512  
Time Collected: 09/17/08 8:30  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiphenylamine	BRL	µg/kg	410	59	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Naphthalene	BRL	µg/kg	410	49	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Nitrobenzene	BRL	µg/kg	410	51	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Pentachlorophenol	BRL	µg/kg	410	63	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Phenanthrene	BRL	µg/kg	410	35	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Phenol	BRL	µg/kg	410	72	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Pyrene	BRL	µg/kg	410	78	1	8270C	09/27/08 4:01	kcampigotto	Q35709
Sample Preparation:			29.94 g	/	1 mL	3550B	09/19/08 11:00	jbarrette	P22609
Surrogate						% Recovery	Control Limits		
						Terphenyl-d14	71		
						Phenol-d5	59		
						Nitrobenzene-d5	48		
						2-Fluorophenol	77		
						2-Fluorobiphenyl	64		
						2,4,6-Tribromophenol	84		

TIC's By 8270	Est.Conc	Units
Unknown	510	µg/kg
Unknown	380	µg/kg
Cyclic octaatomic sulfur	3300	µg/kg
<u>Cyanide by Spectrophotometric Method</u>		
Cyanide, Total	0.25 J	mg/kg
Sample Preparation:	0.99 g	/
	25 mL	9010B
	09/23/08 9:48	heaster
		P22619
<u>Mercury by CVAA</u>		
Mercury	0.044	mg/kg
Sample Preparation:	0.6 g	/
	50 mL	7471A
	09/30/08 15:00	mbarber
		P22670

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

## Laboratory Report

10/08/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-5  
Prism Sample ID: 225408  
COC Group: G0908512  
Time Collected: 09/17/08 8:30  
Time Submitted: 09/18/08 13:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b><u>Metals by ICP</u></b>									
Antimony	BRL	mg/kg	0.74	0.20	3	6010B	09/26/08 23:00	mcampbell	Q35704
Arsenic	3.9	mg/kg	1.8	0.24	3	6010B	09/26/08 23:00	mcampbell	Q35704
Beryllium	4.0	mg/kg	0.92	0.022	3	6010B	09/26/08 23:00	mcampbell	Q35704
Cadmium	BRL	mg/kg	0.92	0.022	3	6010B	09/26/08 23:00	mcampbell	Q35704
Chromium	47	mg/kg	0.92	0.051	3	6010B	09/26/08 23:00	mcampbell	Q35704
Copper	31	mg/kg	1.8	0.80	3	6010B	09/26/08 23:00	mcampbell	Q35704
Lead	17	mg/kg	0.92	0.059	3	6010B	09/26/08 23:00	mcampbell	Q35704
Manganese	950	mg/kg	3.1	0.37	10	6010B	10/01/08 12:22	Mcampbell	Q35704
Nickel	27	mg/kg	1.8	0.22	3	6010B	09/26/08 23:00	mcampbell	Q35704
Selenium	BRL	mg/kg	1.8	0.36	3	6010B	09/26/08 23:00	mcampbell	Q35704
Silver	3.2	mg/kg	0.92	0.059	3	6010B	09/26/08 23:00	mcampbell	Q35704
Thallium	BRL	mg/kg	1.9	0.32	3	6010B	09/26/08 23:00	mcampbell	Q35704
Zinc	95	mg/kg	9.2	0.67	3	6010B	09/26/08 23:00	mcampbell	Q35704
Sample Preparation:				2.03 g	/	50 mL	3050B	09/25/08 8:10	mbarber
P22636									

### 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 dry-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

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

### Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q35463
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q35463
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q35463
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q35463
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35463
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35463
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35463
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q35463
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35463
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q35463
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q35463
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35463
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q35463
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35463
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q35463
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35463
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35463
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35463
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35463
2-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q35463
2-Hexanone	ND	0.05	<0.025	mg/kg	Q35463
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q35463
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q35463
Acetone	ND	0.05	<0.025	mg/kg	Q35463
Benzene	ND	0.003	<0.0015	mg/kg	Q35463
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q35463
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q35463
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q35463
Bromoform	ND	0.005	<0.0025	mg/kg	Q35463
Bromomethane	ND	0.01	<0.005	mg/kg	Q35463
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q35463
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q35463
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q35463
Chloroethane	ND	0.01	<0.005	mg/kg	Q35463



NC Certification No. 402  
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## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

Method Blank					QC Batch ID
	Result	RL	Control Limit	Units	
Chloroform	ND	0.005	<0.0025	mg/kg	Q35463
Chloromethane	ND	0.005	<0.0025	mg/kg	Q35463
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35463
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35463
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg	Q35463
Ethylbenzene	ND	0.005	<0.0025	mg/kg	Q35463
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg	Q35463
Isopropylbenzene	ND	0.005	<0.0025	mg/kg	Q35463
m,p-Xylenes	ND	0.01	<0.005	mg/kg	Q35463
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg	Q35463
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg	Q35463
Methylene chloride	ND	0.005	<0.0025	mg/kg	Q35463
n-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35463
n-Propylbenzene	ND	0.005	<0.0025	mg/kg	Q35463
Naphthalene	ND	0.01	<0.005	mg/kg	Q35463
o-Xylene	ND	0.005	<0.0025	mg/kg	Q35463
p-Isopropyltoluene	ND	0.005	<0.0025	mg/kg	Q35463
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35463
Styrene	ND	0.005	<0.0025	mg/kg	Q35463
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35463
Tetrachloroethene	ND	0.005	<0.0025	mg/kg	Q35463
Toluene	ND	0.005	<0.0025	mg/kg	Q35463
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35463
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35463
Trichloroethene	ND	0.005	<0.0025	mg/kg	Q35463
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg	Q35463
Vinyl acetate	ND	0.025	<0.0125	mg/kg	Q35463
Vinyl chloride	ND	0.005	<0.0025	mg/kg	Q35463
Laboratory Control Sample					
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
1,1-Dichloroethene	0.06098	0.05	mg/kg	122	57-122
Benzene	0.05531	0.05	mg/kg	111	62-119
Chlorobenzene	0.05317	0.05	mg/kg	106	61-124
Toluene	0.05381	0.05	mg/kg	108	57-122
Trichloroethene	0.0569	0.05	mg/kg	114	59-129

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

## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
224992 1,1-Dichloroethene	0.05964	0.05	mg/kg	119	44-140	Q35463
Benzene	0.05722	0.05	mg/kg	114	46-136	Q35463
Chlorobenzene	0.05216	0.05	mg/kg	104	47-135	Q35463
Toluene	0.05272	0.05	mg/kg	105	47-136	Q35463
Trichloroethene	0.05765	0.05	mg/kg	115	45-141	Q35463

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
224992 1,1-Dichloroethene	0.05738	0.05	mg/kg	115	44-140	4	0 - 23	Q35463
Benzene	0.05579	0.05	mg/kg	112	46-136	3	0 - 22	Q35463
Chlorobenzene	0.04941	0.05	mg/kg	99	47-135	5	0 - 22	Q35463
Toluene	0.04987	0.05	mg/kg	100	47-136	6	0 - 22	Q35463
Trichloroethene	0.05186	0.05	mg/kg	104	45-141	11	0 - 23	Q35463



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## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

### Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1,2-Tetrachloroethane	ND	0.5	<0.25	µg/L	Q35552
1,1,1-Trichloroethane	ND	0.5	<0.25	µg/L	Q35552
1,1,2,2-Tetrachloroethane	ND	0.5	<0.25	µg/L	Q35552
1,1,2-Trichloroethane	ND	0.5	<0.25	µg/L	Q35552
1,1-Dichloroethane	ND	0.5	<0.25	µg/L	Q35552
1,1-Dichloroethene	ND	0.5	<0.25	µg/L	Q35552
1,1-Dichloropropene	ND	0.5	<0.25	µg/L	Q35552
1,2,3-Trichlorobenzene	ND	2	<1	µg/L	Q35552
1,2,3-Trichloropropane	ND	1	<0.5	µg/L	Q35552
1,2,4-Trichlorobenzene	ND	1	<0.5	µg/L	Q35552
1,2,4-Trimethylbenzene	ND	0.5	<0.25	µg/L	Q35552
1,2-Dibromo-3-chloropropane	ND	2	<1	µg/L	Q35552
1,2-Dibromoethane (EDB)	ND	0.5	<0.25	µg/L	Q35552
1,2-Dichlorobenzene	ND	0.5	<0.25	µg/L	Q35552
1,2-Dichloroethane	ND	0.5	<0.25	µg/L	Q35552
1,2-Dichloropropane	ND	0.5	<0.25	µg/L	Q35552
1,3,5-Trimethylbenzene	ND	0.5	<0.25	µg/L	Q35552
1,3-Dichlorobenzene	ND	0.5	<0.25	µg/L	Q35552
1,3-Dichloropropane	ND	0.5	<0.25	µg/L	Q35552
1,4-Dichlorobenzene	ND	0.5	<0.25	µg/L	Q35552
2,2-Dichloropropane	ND	2	<1	µg/L	Q35552
2-Chloroethyl vinyl ether	ND	2	<1	µg/L	Q35552
2-Chlorotoluene	ND	0.5	<0.25	µg/L	Q35552
2-Hexanone	ND	5	<2.5	µg/L	Q35552
4-Chlorotoluene	ND	0.5	<0.25	µg/L	Q35552
4-Methyl-2-pentanone (MIBK)	ND	5	<2.5	µg/L	Q35552
Acetone	ND	5	<2.5	µg/L	Q35552
Acrolein	ND	20	<10	µg/L	Q35552
Acrylonitrile	ND	20	<10	µg/L	Q35552
Benzene	ND	0.5	<0.25	µg/L	Q35552
Bromobenzene	ND	0.5	<0.25	µg/L	Q35552
Bromochloromethane	ND	0.5	<0.25	µg/L	Q35552
Bromodichloromethane	ND	0.5	<0.25	µg/L	Q35552
Bromoform	ND	2	<1	µg/L	Q35552

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

## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Bromomethane	ND	1	<0.5	µg/L	Q35552
Carbon disulfide	ND	5	<2.5	µg/L	Q35552
Carbon tetrachloride	ND	0.5	<0.25	µg/L	Q35552
Chlorobenzene	ND	0.5	<0.25	µg/L	Q35552
Chlorodibromomethane	ND	0.5	<0.25	µg/L	Q35552
Chloroethane	ND	0.5	<0.25	µg/L	Q35552
Chloroform	ND	0.5	<0.25	µg/L	Q35552
Chloromethane	ND	0.5	<0.25	µg/L	Q35552
cis-1,2-Dichloroethene	ND	0.5	<0.25	µg/L	Q35552
cis-1,3-Dichloropropene	ND	0.5	<0.25	µg/L	Q35552
Dibromomethane	ND	0.5	<0.25	µg/L	Q35552
Dichlorodifluoromethane	ND	1	<0.5	µg/L	Q35552
Ethylbenzene	ND	0.5	<0.25	µg/L	Q35552
Hexachlorobutadiene	ND	2	<1	µg/L	Q35552
Isopropyl ether (IPE)	ND	0.5	<0.25	µg/L	Q35552
Isopropylbenzene	ND	0.5	<0.25	µg/L	Q35552
m,p-Xylenes	ND	1	<0.5	µg/L	Q35552
Methyl ethyl ketone (MEK)	ND	10	<5	µg/L	Q35552
Methyl iodide	ND	5	<2.5	µg/L	Q35552
Methyl t-butyl ether (MTBE)	ND	0.5	<0.25	µg/L	Q35552
Methylene chloride	ND	2	<1	µg/L	Q35552
n-Butylbenzene	ND	1	<0.5	µg/L	Q35552
n-Propylbenzene	ND	0.5	<0.25	µg/L	Q35552
Naphthalene	ND	2	<1	µg/L	Q35552
o-Xylene	ND	0.5	<0.25	µg/L	Q35552
p-Isopropyltoluene	ND	0.5	<0.25	µg/L	Q35552
sec-Butylbenzene	ND	0.5	<0.25	µg/L	Q35552
Styrene	ND	0.5	<0.25	µg/L	Q35552
tert-Butylbenzene	ND	0.5	<0.25	µg/L	Q35552
Tetrachloroethene	ND	0.5	<0.25	µg/L	Q35552
Toluene	ND	0.5	<0.25	µg/L	Q35552
trans-1,2-Dichloroethene	ND	0.5	<0.25	µg/L	Q35552
trans-1,3-Dichloropropene	ND	0.5	<0.25	µg/L	Q35552
Trichloroethene	ND	0.5	<0.25	µg/L	Q35552
Trichlorofluoromethane	ND	0.5	<0.25	µg/L	Q35552
Vinyl acetate	ND	2	<1	µg/L	Q35552

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

## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

### Method Blank

	Result	RL	Control Limit	Units		QC Batch ID
Vinyl chloride	ND	0.5	<0.25	µg/L		Q35552

### Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1-Dichloroethene	58.7	50	µg/L	117	62-141	Q35552
Benzene	53.67	50	µg/L	107	70-141	Q35552
Chlorobenzene	52.79	50	µg/L	106	88-120	Q35552
Toluene	54.41	50	µg/L	109	78-130	Q35552
Trichloroethene	56.79	50	µg/L	114	78-124	Q35552
1,1-Dichloroethene	58.7	50	µg/L	117	62-141	Q35552
Benzene	53.67	50	µg/L	107	70-141	Q35552
Chlorobenzene	52.79	50	µg/L	106	88-120	Q35552
Toluene	54.41	50	µg/L	109	78-130	Q35552
Trichloroethene	56.79	50	µg/L	114	78-124	Q35552

### Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
225433 1,1-Dichloroethene	2394.4	2000	µg/L	120	54-140	Q35552
Benzene	2219.2	2000	µg/L	111	62-129	Q35552
Chlorobenzene	2156.4	2000	µg/L	108	64-127	Q35552
Toluene	2234.8	2000	µg/L	112	60-131	Q35552
Trichloroethene	2327.2	2000	µg/L	116	52-128	Q35552
1,1-Dichloroethene	2394.4	2000	µg/L	120	54-140	Q35552
Benzene	2219.2	2000	µg/L	111	62-129	Q35552
Chlorobenzene	2156.4	2000	µg/L	108	64-127	Q35552
Toluene	2234.8	2000	µg/L	112	60-131	Q35552
Trichloroethene	2327.2	2000	µg/L	116	52-128	Q35552

### Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
225433 1,1-Dichloroethene	2209.6	2000	µg/L	110	54-140	8	0 - 20	Q35552
Benzene	2068	2000	µg/L	103	62-129	7	0 - 19	Q35552
Chlorobenzene	2008	2000	µg/L	100	64-127	7	0 - 20	Q35552
Toluene	2083.6	2000	µg/L	104	60-131	7	0 - 21	Q35552
Trichloroethene	2183.6	2000	µg/L	109	52-128	6	0 - 18	Q35552
1,1-Dichloroethene	2209.6	2000	µg/L	110	54-140	8	0 - 20	Q35552
Benzene	2068	2000	µg/L	103	62-129	7	0 - 19	Q35552
Chlorobenzene	2008	2000	µg/L	100	64-127	7	0 - 20	Q35552
Toluene	2083.6	2000	µg/L	104	60-131	7	0 - 21	Q35552

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

## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID: 225433 Trichloroethene	2183.6	2000	µg/L	109	52-128	6	0 - 18	Q35552



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## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

### Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q35593
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q35593
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q35593
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q35593
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35593
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35593
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35593
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q35593
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35593
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q35593
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q35593
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35593
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q35593
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35593
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q35593
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35593
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35593
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35593
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35593
2-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q35593
2-Hexanone	ND	0.05	<0.025	mg/kg	Q35593
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q35593
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q35593
Acetone	ND	0.05	<0.025	mg/kg	Q35593
Benzene	ND	0.003	<0.0015	mg/kg	Q35593
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q35593
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q35593
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q35593
Bromoform	ND	0.005	<0.0025	mg/kg	Q35593
Bromomethane	ND	0.01	<0.005	mg/kg	Q35593
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q35593
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q35593
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q35593
Chloroethane	ND	0.01	<0.005	mg/kg	Q35593

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

## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Chloroform	ND	0.005	<0.0025	mg/kg	Q35593
Chloromethane	ND	0.005	<0.0025	mg/kg	Q35593
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35593
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35593
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg	Q35593
Ethylbenzene	ND	0.005	<0.0025	mg/kg	Q35593
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg	Q35593
Isopropylbenzene	ND	0.005	<0.0025	mg/kg	Q35593
m,p-Xylenes	ND	0.01	<0.005	mg/kg	Q35593
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg	Q35593
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg	Q35593
Methylene chloride	ND	0.005	<0.0025	mg/kg	Q35593
n-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35593
n-Propylbenzene	ND	0.005	<0.0025	mg/kg	Q35593
Naphthalene	ND	0.01	<0.005	mg/kg	Q35593
o-Xylene	ND	0.005	<0.0025	mg/kg	Q35593
p-Isopropyltoluene	ND	0.005	<0.0025	mg/kg	Q35593
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35593
Styrene	ND	0.005	<0.0025	mg/kg	Q35593
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35593
Tetrachloroethene	ND	0.005	<0.0025	mg/kg	Q35593
Toluene	ND	0.005	<0.0025	mg/kg	Q35593
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35593
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35593
Trichloroethene	ND	0.005	<0.0025	mg/kg	Q35593
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg	Q35593
Vinyl acetate	ND	0.025	<0.0125	mg/kg	Q35593
Vinyl chloride	ND	0.005	<0.0025	mg/kg	Q35593
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
1,1-Dichloroethene	0.05921	0.05	mg/kg	118	57-122
Benzene	0.0541	0.05	mg/kg	108	62-119
Chlorobenzene	0.05265	0.05	mg/kg	105	61-124
Toluene	0.05364	0.05	mg/kg	107	57-122
Trichloroethene	0.05724	0.05	mg/kg	114	59-129

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

## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

Matrix Spike		Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
225555 1,1-Dichloroethene		225555	0.05709	0.05	mg/kg	114	44-140	Q35593
Benzene			0.05258	0.05	mg/kg	105	46-136	Q35593
Chlorobenzene			0.05169	0.05	mg/kg	103	47-135	Q35593
Toluene			0.05164	0.05	mg/kg	103	47-136	Q35593
Trichloroethene			0.05343	0.05	mg/kg	107	45-141	Q35593

Matrix Spike Duplicate		Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
225555 1,1-Dichloroethene		225555	0.05773	0.05	mg/kg	115	44-140	1	0 - 23	Q35593
Benzene			0.05579	0.05	mg/kg	112	46-136	6	0 - 22	Q35593
Chlorobenzene			0.0514	0.05	mg/kg	103	47-135	1	0 - 22	Q35593
Toluene			0.0519	0.05	mg/kg	104	47-136	1	0 - 22	Q35593
Trichloroethene			0.05337	0.05	mg/kg	107	45-141	0	0 - 23	Q35593

### Cyanide by Spectrophotometric Method, method 9014

Method Blank		Result	RL	Control Limit	Units	QC Batch ID		
Sample ID:	Result	Recovery %	Recovery Ranges %	RPD %	RPD Range %			
Cyanide, Total	0.0866	0.5	<0.25	mg/kg				Q35643
Laboratory Control Sample								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
	Cyanide, Total	4.898	5	mg/kg	98	80-120		Q35643
Matrix Spike		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID	
225408	Cyanide, Total	4.595	5	mg/kg	88	80-120		Q35643
Matrix Spike Duplicate		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %
225408	Cyanide, Total	4.702	5	mg/kg	90	80-120	2	0 - 20



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Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

### Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Antimony	0.0143	0.2	<0.1	mg/kg	Q35704
Arsenic	-0.0513	0.5	<0.25	mg/kg	Q35704
Beryllium	0.0009	0.25	<0.125	mg/kg	Q35704
Cadmium	-0.0004	0.25	<0.125	mg/kg	Q35704
Chromium	0.0316	0.25	<0.125	mg/kg	Q35704
Copper	0.0128	0.5	<0.25	mg/kg	Q35704
Lead	0.0527	0.25	<0.125	mg/kg	Q35704
Manganese	0.1481	0.25	<0.125	mg/kg	Q35704
Nickel	0.0074	0.5	<0.25	mg/kg	Q35704
Selenium	0.0154	0.5	<0.25	mg/kg	Q35704
Silver	ND	0.25	<0.125	mg/kg	Q35704
Thallium	0.1026	0.5	<0.25	mg/kg	Q35704
Zinc	0.9227	2.5	<1.25	mg/kg	Q35704
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Antimony	22.1819	25	mg/kg	89	80-120
Arsenic	23.1181	25	mg/kg	92	80-120
Beryllium	22.7066	25	mg/kg	91	80-120
Cadmium	22.6422	25	mg/kg	91	80-120
Chromium	24.7799	25	mg/kg	99	80-120
Copper	24.3853	25	mg/kg	98	80-120
Lead	23.0111	25	mg/kg	92	80-120
Manganese	24.5271	25	mg/kg	98	80-120
Nickel	23.3406	25	mg/kg	93	80-120
Selenium	22.9126	25	mg/kg	92	80-120
Silver	23.2799	25	mg/kg	93	80-120
Thallium	22.4261	25	mg/kg	90	80-120
Zinc	24.1755	25	mg/kg	97	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID:					QC Batch ID
225374	Antimony	3.1371	25	mg/kg	14 # 75-125
	Arsenic	23.1645	25	mg/kg	82 75-125
	Beryllium	21.8184	25	mg/kg	84 75-125
	Cadmium	19.794	25	mg/kg	79 75-125

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## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

Matrix Spike		Result	Spike Amount	Units	Recovery	Recovery	QC Batch	
Sample ID:					%	Ranges %		
225374	Chromium	65.8551	25	mg/kg	87	75-125	Q35704	
	Copper	84.5165	25	mg/kg	129 #	75-125	Q35704	
	Lead	98.8736	25	mg/kg	62 #	75-125	Q35704	
	Manganese	506	25	mg/kg	764 #	75-125	Q35704	
	Nickel	36.4325	25	mg/kg	80	75-125	Q35704	
	Selenium	17.5667	25	mg/kg	80	75-125	Q35704	
	Silver	22.9223	25	mg/kg	93	75-125	Q35704	
	Thallium	8.0398	25	mg/kg	73 #	75-125	Q35704	
	Zinc	143.315	25	mg/kg	179 #	75-125	Q35704	
Matrix Spike Duplicate		Result	Spike Amount	Units	Recovery	Recovery	RPD	
Sample ID:					%	Ranges %		
225374	Antimony	3.4525	24.390	mg/kg	16 #	75-125	10	0 - 20 Q35704
	Arsenic	24.2362	24.390	mg/kg	89	75-125	5	0 - 20 Q35704
	Beryllium	22.8356	24.390	mg/kg	90	75-125	5	0 - 20 Q35704
	Cadmium	21.392	24.390	mg/kg	88	75-125	8	0 - 20 Q35704
	Chromium	62.3601	24.390	mg/kg	75	75-125	5	0 - 20 Q35704
	Copper	73.9003	24.390	mg/kg	89	75-125	13	0 - 20 Q35704
	Lead	1470	25	mg/kg	5546 #	75-125	175 #	0 - 20 Q35704
	Manganese	493	25	mg/kg	712 #	75-125	3	0 - 20 Q35704
	Nickel	38.068	24.390	mg/kg	89	75-125	4	0 - 20 Q35704
	Selenium	18.6398	24.390	mg/kg	86	75-125	6	0 - 20 Q35704
	Silver	23.3305	24.390	mg/kg	97	75-125	2	0 - 20 Q35704
	Thallium	8.0106	24.390	mg/kg	74 #	75-125	0	0 - 20 Q35704
	Zinc	731.755	24.390	mg/kg	2596 #	75-125	134 #	0 - 20 Q35704

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## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

### Semi-volatile Organic Compounds by GC/MS, method 8270C

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	0.33	<0.165	mg/kg	Q35709
1,2-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q35709
1,3-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q35709
1,4-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q35709
1-Methylnaphthalene	ND	0.33	<0.165	mg/kg	Q35709
2,4,5-Trichlorophenol	ND	0.33	<0.165	mg/kg	Q35709
2,4,6-Trichlorophenol	ND	0.33	<0.165	mg/kg	Q35709
2,4-Dichlorophenol	ND	0.33	<0.165	mg/kg	Q35709
2,4-Dimethylphenol	ND	0.33	<0.165	mg/kg	Q35709
2,4-Dinitrophenol	ND	1.65	<0.825	mg/kg	Q35709
2,4-Dinitrotoluene	ND	0.33	<0.165	mg/kg	Q35709
2,6-Dinitrotoluene	ND	0.33	<0.165	mg/kg	Q35709
2-Chloronaphthalene	ND	0.33	<0.165	mg/kg	Q35709
2-Chlorophenol	ND	0.33	<0.165	mg/kg	Q35709
2-Methylnaphthalene	ND	0.33	<0.165	mg/kg	Q35709
2-Methylphenol	ND	0.33	<0.165	mg/kg	Q35709
2-Nitrophenol	ND	0.33	<0.165	mg/kg	Q35709
3&4-Methylphenol	ND	0.33	<0.165	mg/kg	Q35709
3,3'-Dichlorobenzidine	ND	0.66	<0.33	mg/kg	Q35709
4,6-Dinitro-2-methylphenol	ND	1.65	<0.825	mg/kg	Q35709
4-Bromophenylphenylether	ND	0.33	<0.165	mg/kg	Q35709
4-Chloro-3-methylphenol	ND	0.66	<0.33	mg/kg	Q35709
4-Chloroaniline	ND	0.33	<0.165	mg/kg	Q35709
4-Chlorophenylphenylether	ND	0.33	<0.165	mg/kg	Q35709
4-Nitrophenol	ND	1.65	<0.825	mg/kg	Q35709
Acenaphthene	ND	0.33	<0.165	mg/kg	Q35709
Acenaphthylene	ND	0.33	<0.165	mg/kg	Q35709
Anthracene	ND	0.33	<0.165	mg/kg	Q35709
Azobenzene	ND	1.65	<0.825	mg/kg	Q35709
Benzo(a)anthracene	ND	0.33	<0.165	mg/kg	Q35709
Benzo(a)pyrene	ND	0.33	<0.165	mg/kg	Q35709
Benzo(b)fluoranthene	ND	0.33	<0.165	mg/kg	Q35709
Benzo(g,h,i)perylene	ND	0.33	<0.165	mg/kg	Q35709
Benzo(k)fluoranthene	ND	0.33	<0.165	mg/kg	Q35709

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## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

Method Blank	Result	RL	Control Limit	Units	QC Batch ID	
Benzoic acid	ND	1.65	<0.825	mg/kg	Q35709	
Benzyl alcohol	ND	0.66	<0.33	mg/kg	Q35709	
Bis(2-chloroethoxy)methane	ND	0.33	<0.165	mg/kg	Q35709	
Bis(2-chloroethyl)ether	ND	0.33	<0.165	mg/kg	Q35709	
Bis(2-chloroisopropyl)ether	ND	0.33	<0.165	mg/kg	Q35709	
Bis(2-ethylhexyl)phthalate	ND	0.33	<0.165	mg/kg	Q35709	
Butylbenzylphthalate	ND	0.33	<0.165	mg/kg	Q35709	
Chrysene	ND	0.33	<0.165	mg/kg	Q35709	
Di-n-butylphthalate	ND	0.33	<0.165	mg/kg	Q35709	
Di-n-octylphthalate	ND	0.33	<0.165	mg/kg	Q35709	
Dibenzo(a,h)anthracene	ND	0.33	<0.165	mg/kg	Q35709	
Dibenzofuran	ND	0.33	<0.165	mg/kg	Q35709	
Diethylphthalate	ND	0.33	<0.165	mg/kg	Q35709	
Dimethylphthalate	ND	0.33	<0.165	mg/kg	Q35709	
Fluoranthene	ND	0.33	<0.165	mg/kg	Q35709	
Fluorene	ND	0.33	<0.165	mg/kg	Q35709	
Hexachlorobenzene	ND	0.33	<0.165	mg/kg	Q35709	
Hexachlorobutadiene	ND	0.33	<0.165	mg/kg	Q35709	
Hexachlorocyclopentadiene	ND	0.33	<0.165	mg/kg	Q35709	
Hexachloroethane	ND	0.33	<0.165	mg/kg	Q35709	
Indeno(1,2,3-cd)pyrene	ND	0.33	<0.165	mg/kg	Q35709	
Isophorone	ND	0.33	<0.165	mg/kg	Q35709	
N-Nitrosodi-n-propylamine	ND	0.33	<0.165	mg/kg	Q35709	
N-Nitrosodiphenylamine	ND	0.33	<0.165	mg/kg	Q35709	
Naphthalene	ND	0.33	<0.165	mg/kg	Q35709	
Nitrobenzene	ND	0.33	<0.165	mg/kg	Q35709	
Pentachlorophenol	ND	1.65	<0.825	mg/kg	Q35709	
Phenanthrene	ND	0.33	<0.165	mg/kg	Q35709	
Phenol	ND	0.33	<0.165	mg/kg	Q35709	
Pyrene	ND	0.33	<0.165	mg/kg	Q35709	
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2,4-Trichlorobenzene	1.18151	1.6748	mg/kg	71	39-98	Q35709
1,4-Dichlorobenzene	1.17716	1.6748	mg/kg	70	37-95	Q35709
2,4-Dinitrotoluene	1.44474	1.6748	mg/kg	86	56-128	Q35709
2-Chlorophenol	1.19624	1.6748	mg/kg	71	37-98	Q35709

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

## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
4-Chloro-3-methylphenol	1.31614	1.6748	mg/kg	79	45-111	Q35709		
4-Nitrophenol	1.36805	1.6748	mg/kg	82	20-157	Q35709		
Acenaphthene	1.14835	1.6748	mg/kg	69	44-110	Q35709		
N-Nitrosodi-n-propylamine	1.23476	1.6748	mg/kg	74	38-101	Q35709		
Pentachlorophenol	1.66342	1.6748	mg/kg	99	53-127	Q35709		
Phenol	0.88077	1.6748	mg/kg	53	34-102	Q35709		
Pyrene	1.61453	1.6748	mg/kg	96	54-131	Q35709		
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Sample ID:								
225278 1,2,4-Trichlorobenzene	0.97845	1.6838	mg/kg	58	26-97	Q35709		
1,4-Dichlorobenzene	1.25993	1.6838	mg/kg	75	23-92	Q35709		
2,4-Dinitrotoluene	1.77306	1.6838	mg/kg	105	45-127	Q35709		
2-Chlorophenol	1.53232	1.6838	mg/kg	91	25-94	Q35709		
4-Chloro-3-methylphenol	1.22659	1.6838	mg/kg	73	31-113	Q35709		
4-Nitrophenol	1.48787	1.6838	mg/kg	88	17-150	Q35709		
Acenaphthene	1.29259	1.6838	mg/kg	77	36-107	Q35709		
N-Nitrosodi-n-propylamine	1.51515	1.6838	mg/kg	90	22-105	Q35709		
Pentachlorophenol	1.86565	1.6838	mg/kg	111	39-137	Q35709		
Phenol	1.26094	1.6838	mg/kg	75	23-97	Q35709		
Pyrene	1.52020	1.6838	mg/kg	90	45-133	Q35709		
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:								
225278 1,2,4-Trichlorobenzene	1.12868	1.6759	mg/kg	67	26-97	14	0 - 37	Q35709
1,4-Dichlorobenzene	0.93733	1.6759	mg/kg	56	23-92	29	0 - 36	Q35709
2,4-Dinitrotoluene	1.67995	1.6759	mg/kg	100	45-127	5	0 - 29	Q35709
2-Chlorophenol	1.23994	1.6759	mg/kg	74	25-94	21	0 - 37	Q35709
4-Chloro-3-methylphenol	1.24463	1.6759	mg/kg	74	31-113	1	0 - 32	Q35709
4-Nitrophenol	1.57841	1.6759	mg/kg	94	17-150	6	0 - 32	Q35709
Acenaphthene	1.55194	1.6759	mg/kg	93	36-107	18	0 - 32	Q35709
N-Nitrosodi-n-propylamine	1.31534	1.6759	mg/kg	78	22-105	14	0 - 37	Q35709
Pentachlorophenol	2.04457	1.6759	mg/kg	122	39-137	9	0 - 27	Q35709
Phenol	1.26575	1.6759	mg/kg	76	23-97	0	0 - 42	Q35709
Pyrene	1.64544	1.6759	mg/kg	98	45-133	8	0 - 27	Q35709



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

## Level II QC Report

10/8/08

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

Project ID: Mills Gap

COC Group Number: G0908512

Date/Time Submitted: 9/18/08 13:15

### Mercury by CVAA, method 7471A

Method Blank						QC Batch ID
	Result	RL	Control Limit	Units		
Mercury	-0.00339	0.02	<0.01	mg/kg		Q35794
<b>Laboratory Control Sample</b>						
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %
Mercury	0.46112	0.417		mg/kg	111	80-120
<b>Matrix Spike</b>						
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %
226256 Mercury	0.47088	0.4113		mg/kg	110	80-120
<b>Matrix Spike Duplicate</b>						
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %
226256 Mercury	0.44974	0.3994		mg/kg	108	80-120
#-See Case Narrative						5 0 - 20 Q35794



# CHAIN OF CUSTODY RECORD

Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543  
Phone: 704/529-8384 • Fax: 704/525-0409

Client Company Name: MAZTEC  
Report To/Contact Name: SUSAN KERLY  
Reporting Address: 130B PATTON AVE

Address: 1105 Lakewood Plaza Suite 305B  
Phone: 919/252-8130 Fax: (No) 919/252-8130  
Email: (Yes) (No) Email Address: [www.maztec.com](http://www.maztec.com)

EDD Type: PDF  Excel  Other \_\_\_\_\_

Site Location Name: WILLS GAP

Site Location Physical Address: Skyland, NC

PAGE <u>1</u> OF <u>1</u>		QUOTE # TO ENSURE PROPER BILLING: 75H082768	
Project Name: WILLS GAP U/B/E/B174			
Short Hold Analysis: (Yes) <input checked="" type="checkbox"/>		UST Project: (Yes) <input checked="" type="checkbox"/>	
*Please ATTACH any project specific reporting (QC LEVEL <u>0</u> IN <u>IV</u> ) provisions and/or QC Requirements			
Invoice To: MAZTEC		Address: 1105 Lakewood Plaza Suite 305B	
Phone: 919/252-8130 Fax: (Yes) <input checked="" type="checkbox"/> (No) <input type="checkbox"/> Email: (Yes) (No) Email Address: <a href="http://www.maztec.com">www.maztec.com</a>			
EDD Type: PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Other _____			
Site Location Name: WILLS GAP			
Site Location Physical Address: Skyland, NC			

Samples INTACT upon arrival? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Received ON WET ICE Temp <input checked="" type="checkbox"/> 2.9 <input type="checkbox"/> 4.1 <input type="checkbox"/> 7.0 <input type="checkbox"/> 10.0 <input type="checkbox"/> 13.0 <input type="checkbox"/> 16.0 <input type="checkbox"/> 19.0 <input type="checkbox"/> 22.0 <input type="checkbox"/> 25.0 <input type="checkbox"/> 28.0 <input type="checkbox"/> 31.0 <input type="checkbox"/> 34.0 <input type="checkbox"/> 37.0 <input type="checkbox"/> 40.0 <input type="checkbox"/> 43.0 <input type="checkbox"/> 46.0 <input type="checkbox"/> 49.0 <input type="checkbox"/> 52.0 <input type="checkbox"/> 55.0 <input type="checkbox"/> 58.0 <input type="checkbox"/> 61.0 <input type="checkbox"/> 64.0 <input type="checkbox"/> 67.0 <input type="checkbox"/> 70.0 <input type="checkbox"/> 73.0 <input type="checkbox"/> 76.0 <input type="checkbox"/> 79.0 <input type="checkbox"/> 82.0 <input type="checkbox"/> 85.0 <input type="checkbox"/> 88.0 <input type="checkbox"/> 91.0 <input type="checkbox"/> 94.0 <input 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## Case Narrative (Revised)



Date: 10/16/08  
Company: MACTEC Eng. & Consulting, Inc  
Contact: Susan Kelly  
Address: 1308 Patton Avenue  
Asheville, NC 28806

Client Project ID: Mills Gap  
Prism COC Group No: G0908634  
Collection Date(s): 9/22/08 thru 9/23/08  
Lab Submittal Date(s): 09/24/08

This is a revised report and supersedes our original laboratory report dated 10/13/08. TICs added to 8270 for sample 225849.

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 45 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

Analysis Note for Q35799 MSD Acenaphthene: RPD value outside the control limits.

### Volatile Analysis

No Anomalies Reported

### Metals Analysis

Analysis Note for Q35704 MS Antimony: Matrix interference is suspected.

Analysis Note for Q35704 MS Copper: Matrix interference is suspected.

Analysis Note for Q35704 MS Lead: MS recovery outside of the control limits.

Analysis Note for Q35704 MS Manganese: Sample concentration too high for recovery evaluation.

Analysis Note for Q35704 MS Thallium: Matrix interference is suspected.

Analysis Note for Q35704 MS Zinc: Sample concentration too high for recovery evaluation.

Analysis Note for Q35704 MSD Antimony: Matrix interference is suspected.

Analysis Note for Q35704 MSD Lead: RPD value outside the control limits. Result exceeds high calibration standard. Matrix interference is suspected.

Analysis Note for Q35704 MSD Manganese: Sample concentration too high for recovery evaluation.

Analysis Note for Q35704 MSD Thallium: Matrix interference is suspected.

Analysis Note for Q35704 MSD Zinc: Sample concentration too high for recovery evaluation.

Analysis Note for Q35913 MS Mercury: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (83%) is outside the acceptance limits (85-115%).

Analysis Note for Q35913 MSD Mercury: MSD recovery outside the control limits.

### Wet Lab and Micro Analysis

No Anomalies Reported

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

Date Reviewed by: Paula A. Gilleland

Project Manager: Paula A. Gilleland

Signature: Paula A. Gilleland

Signature: Paula A. Gilleland

Review Date: 10/16/08

Approval Date: 10/16/08

### **Data Qualifiers Key Reference:**

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## Case Narrative (Revised)

Date: 10/16/08  
Company: MACTEC Eng. & Consulting, Inc  
Contact: Susan Kelly  
Address: 1308 Patton Avenue  
Asheville, NC 28806

Client Project ID: Mills Gap  
Prism COC Group No: G0908634  
Collection Date(s): 9/22/08 thru 9/23/08  
Lab Submittal Date(s): 09/24/08

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.

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-02  
Prism Sample ID: 225848  
COC Group: G0908634  
Time Collected: 09/22/08  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:29	Iwtry	Q35683
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:29	Iwtry	Q35683
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	09/26/08 13:29	Iwtry	Q35683
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	09/26/08 13:29	Iwtry	Q35683
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:29	Iwtry	Q35683
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	09/26/08 13:29	Iwtry	Q35683
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:29	Iwtry	Q35683
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	09/26/08 13:29	Iwtry	Q35683
Acetone	13	µg/L	10	0.44	1	8260B	09/26/08 13:29	Iwtry	Q35683

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-02  
Prism Sample ID: 225848  
COC Group: G0908634  
Time Collected: 09/22/08  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	09/26/08 13:29	Iwtry	Q35683
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	09/26/08 13:29	Iwtry	Q35683
Benzene	BRL	µg/L	1.0	0.094	1	8260B	09/26/08 13:29	Iwtry	Q35683
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	09/26/08 13:29	Iwtry	Q35683
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	09/26/08 13:29	Iwtry	Q35683
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	09/26/08 13:29	Iwtry	Q35683
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:29	Iwtry	Q35683
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	09/26/08 13:29	Iwtry	Q35683
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	09/26/08 13:29	Iwtry	Q35683
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	09/26/08 13:29	Iwtry	Q35683
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:29	Iwtry	Q35683
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 13:29	Iwtry	Q35683
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	09/26/08 13:29	Iwtry	Q35683
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	09/26/08 13:29	Iwtry	Q35683
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	09/26/08 13:29	Iwtry	Q35683
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:29	Iwtry	Q35683
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	09/26/08 13:29	Iwtry	Q35683
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	09/26/08 13:29	Iwtry	Q35683
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	09/26/08 13:29	Iwtry	Q35683
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/26/08 13:29	Iwtry	Q35683
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	09/26/08 13:29	Iwtry	Q35683
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	09/26/08 13:29	Iwtry	Q35683
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 13:29	Iwtry	Q35683
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	09/26/08 13:29	Iwtry	Q35683
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	09/26/08 13:29	Iwtry	Q35683
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	09/26/08 13:29	Iwtry	Q35683
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	09/26/08 13:29	Iwtry	Q35683

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

## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-02  
Prism Sample ID: 225848  
COC Group: G0908634  
Time Collected: 09/22/08  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	09/26/08 13:29	Iwtry	Q35683
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	09/26/08 13:29	Iwtry	Q35683
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	09/26/08 13:29	Iwtry	Q35683
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 13:29	Iwtry	Q35683
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	09/26/08 13:29	Iwtry	Q35683
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/26/08 13:29	Iwtry	Q35683
Styrene	BRL	µg/L	1.0	0.11	1	8260B	09/26/08 13:29	Iwtry	Q35683
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 13:29	Iwtry	Q35683
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 13:29	Iwtry	Q35683
Toluene	BRL	µg/L	1.0	0.31	1	8260B	09/26/08 13:29	Iwtry	Q35683
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	09/26/08 13:29	Iwtry	Q35683
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	09/26/08 13:29	Iwtry	Q35683
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	09/26/08 13:29	Iwtry	Q35683
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	09/26/08 13:29	Iwtry	Q35683
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	09/26/08 13:29	Iwtry	Q35683
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	09/26/08 13:29	Iwtry	Q35683

Surrogate	% Recovery	Control Limits
Toluene-d8	97	75 - 121
Dibromofluoromethane	99	74 - 133
Bromofluorobenzene	105	69 - 139

TIC's By 8260

Est.Conc      Units

No TICs were detected.

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

## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-02  
Prism Sample ID: 225848  
COC Group: G0908634  
Time Collected: 09/22/08  
Time Submitted: 09/24/08 11:30

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

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-4  
Prism Sample ID: 225849  
COC Group: G0908634  
Time Collected: 09/22/08 15:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Percent Solids Determination</b>									
Percent Solids	82.7	%			1	SM2540 G	09/26/08 9:30	dsullivan	
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	5.5	0.54	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,1,1-Trichloroethane	BRL	µg/kg	5.5	0.57	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,1,2,2-Tetrachloroethane	BRL	µg/kg	5.5	0.62	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,1,2-Trichloroethane	BRL	µg/kg	5.5	0.36	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,1-Dichloroethane	BRL	µg/kg	5.5	0.57	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,1-Dichloroethene	BRL	µg/kg	5.5	0.72	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,1-Dichloropropene	BRL	µg/kg	5.5	0.78	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,2,3-Trichlorobenzene	BRL	µg/kg	11	0.86	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,2,3-Trichloropropane	BRL	µg/kg	5.5	0.65	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,2,4-Trichlorobenzene	BRL	µg/kg	11	0.90	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,2,4-Trimethylbenzene	BRL	µg/kg	11	0.78	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,2-Dibromo-3-chloropropane	BRL	µg/kg	5.5	0.66	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,2-Dibromoethane (EDB)	BRL	µg/kg	5.5	0.62	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,2-Dichlorobenzene	BRL	µg/kg	11	0.64	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,2-Dichloroethane	BRL	µg/kg	5.5	0.64	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,2-Dichloropropene	BRL	µg/kg	5.5	0.56	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,3,5-Trimethylbenzene	BRL	µg/kg	11	0.65	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,3-Dichlorobenzene	BRL	µg/kg	11	0.80	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,3-Dichloropropane	BRL	µg/kg	5.5	0.66	1	8260B	10/01/08 19:00	Iwtry	Q35790
1,4-Dichlorobenzene	BRL	µg/kg	11	0.69	1	8260B	10/01/08 19:00	Iwtry	Q35790
2,2-Dichloropropane	BRL	µg/kg	5.5	0.51	1	8260B	10/01/08 19:00	Iwtry	Q35790
2-Chloroethyl vinyl ether	BRL	µg/kg	11	0.56	1	8260B	10/01/08 19:00	Iwtry	Q35790
2-Chlorotoluene	BRL	µg/kg	11	0.65	1	8260B	10/01/08 19:00	Iwtry	Q35790
2-Hexanone	BRL	µg/kg	55	0.41	1	8260B	10/01/08 19:00	Iwtry	Q35790

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-4  
Prism Sample ID: 225849  
COC Group: G0908634  
Time Collected: 09/22/08 15:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	11	0.81	1	8260B	10/01/08 19:00	Iwtry	Q35790
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	11	1.2	1	8260B	10/01/08 19:00	Iwtry	Q35790
Acetone	BRL	µg/kg	22	1.7	1	8260B	10/01/08 19:00	Iwtry	Q35790
Benzene	BRL	µg/kg	3.3	0.66	1	8260B	10/01/08 19:00	Iwtry	Q35790
Bromobenzene	BRL	µg/kg	5.5	0.65	1	8260B	10/01/08 19:00	Iwtry	Q35790
Bromochloromethane	BRL	µg/kg	5.5	0.74	1	8260B	10/01/08 19:00	Iwtry	Q35790
Bromodichloromethane	BRL	µg/kg	5.5	0.57	1	8260B	10/01/08 19:00	Iwtry	Q35790
Bromoform	BRL	µg/kg	5.5	0.66	1	8260B	10/01/08 19:00	Iwtry	Q35790
Bromomethane	BRL	µg/kg	11	1.6	1	8260B	10/01/08 19:00	Iwtry	Q35790
Carbon disulfide	BRL	µg/kg	11	0.82	1	8260B	10/01/08 19:00	Iwtry	Q35790
Carbon tetrachloride	BRL	µg/kg	5.5	0.48	1	8260B	10/01/08 19:00	Iwtry	Q35790
Chlorobenzene	BRL	µg/kg	5.5	0.59	1	8260B	10/01/08 19:00	Iwtry	Q35790
Chlorodibromomethane	BRL	µg/kg	5.5	0.63	1	8260B	10/01/08 19:00	Iwtry	Q35790
Chloroethane	BRL	µg/kg	11	1.4	1	8260B	10/01/08 19:00	Iwtry	Q35790
Chloroform	BRL	µg/kg	5.5	0.55	1	8260B	10/01/08 19:00	Iwtry	Q35790
Chloromethane	BRL	µg/kg	11	0.82	1	8260B	10/01/08 19:00	Iwtry	Q35790
cis-1,2-Dichloroethene	16	µg/kg	5.5	0.88	1	8260B	10/01/08 19:00	Iwtry	Q35790
cis-1,3-Dichloropropene	BRL	µg/kg	5.5	0.62	1	8260B	10/01/08 19:00	Iwtry	Q35790
Dibromomethane	BRL	µg/kg	5.5	0.70	1	8260B	10/01/08 19:00	Iwtry	Q35790
Dichlorodifluoromethane	BRL	µg/kg	11	0.91	1	8260B	10/01/08 19:00	Iwtry	Q35790
Ethylbenzene	BRL	µg/kg	5.5	0.66	1	8260B	10/01/08 19:00	Iwtry	Q35790
Hexachlorobutadiene	BRL	µg/kg	17	0.94	1	8260B	10/01/08 19:00	Iwtry	Q35790
Isopropyl ether (IPE)	BRL	µg/kg	5.5	0.48	1	8260B	10/01/08 19:00	Iwtry	Q35790
Isopropylbenzene	BRL	µg/kg	11	0.83	1	8260B	10/01/08 19:00	Iwtry	Q35790
m,p-Xylenes	BRL	µg/kg	11	1.3	1	8260B	10/01/08 19:00	Iwtry	Q35790
Methyl ethyl ketone (MEK)	BRL	µg/kg	22	0.85	1	8260B	10/01/08 19:00	Iwtry	Q35790
Methyl t-butyl ether (MTBE)	BRL	µg/kg	5.5	0.55	1	8260B	10/01/08 19:00	Iwtry	Q35790

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Client Sample ID: SS-4  
Prism Sample ID: 225849  
COC Group: G0908634  
Time Collected: 09/22/08 15:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	11	0.66	1	8260B	10/01/08 19:00	Iwtry	Q35790
n-Butylbenzene	BRL	µg/kg	.17	0.74	1	8260B	10/01/08 19:00	Iwtry	Q35790
n-Propylbenzene	BRL	µg/kg	11	0.64	1	8260B	10/01/08 19:00	Iwtry	Q35790
Naphthalene	BRL	µg/kg	5.5	1.7	1	8260B	10/01/08 19:00	Iwtry	Q35790
o-Xylene	BRL	µg/kg	5.5	0.70	1	8260B	10/01/08 19:00	Iwtry	Q35790
p-Isopropyltoluene	BRL	µg/kg	.17	0.81	1	8260B	10/01/08 19:00	Iwtry	Q35790
sec-Butylbenzene	BRL	µg/kg	.17	0.80	1	8260B	10/01/08 19:00	Iwtry	Q35790
Styrene	BRL	µg/kg	5.5	0.62	1	8260B	10/01/08 19:00	Iwtry	Q35790
tert-Butylbenzene	BRL	µg/kg	22	0.76	1	8260B	10/01/08 19:00	Iwtry	Q35790
Tetrachloroethene	BRL	µg/kg	11	0.66	1	8260B	10/01/08 19:00	Iwtry	Q35790
Toluene	BRL	µg/kg	5.5	0.61	1	8260B	10/01/08 19:00	Iwtry	Q35790
trans-1,2-Dichloroethene	BRL	µg/kg	5.5	0.67	1	8260B	10/01/08 19:00	Iwtry	Q35790
trans-1,3-Dichloropropene	BRL	µg/kg	5.5	0.90	1	8260B	10/01/08 19:00	Iwtry	Q35790
Trichloroethene	25	µg/kg	5.5	0.91	1	8260B	10/01/08 19:00	Iwtry	Q35790
Trichlorofluoromethane	BRL	µg/kg	5.5	0.80	1	8260B	10/01/08 19:00	Iwtry	Q35790
Vinyl chloride	BRL	µg/kg	11	0.78	1	8260B	10/01/08 19:00	Iwtry	Q35790

Surrogate	% Recovery	Control Limits
Toluene-d8	100	81 - 128
Dibromofluoromethane	102	67 - 143
Bromofluorobenzene	93	77 - 128

TIC's By 8260  
No TICs were detected.

Est.Conc      Units

Sample Weight Determination						
Weight Bisulfate 1	5.47	g		1	5035	09/26/08 0:00 lbrown
Weight Bisulfate 2	6.27	g		1	5035	09/26/08 0:00 lbrown

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Asheville, NC 28806

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-4  
Prism Sample ID: 225849  
COC Group: G0908634  
Time Collected: 09/22/08 15:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Weight Methanol	5.80	g			1	5035	09/26/08 0:00	lbrown	
<b>Semi-volatile Organic Compounds by GC/MS</b>									
1,2,4-Trichlorobenzene	BRL	µg/kg	400	44	1	8270C	10/01/08 3:47	kcampigotto	Q35771
1,2-Dichlorobenzene	BRL	µg/kg	400	45	1	8270C	10/01/08 3:47	kcampigotto	Q35771
1,3-Dichlorobenzene	BRL	µg/kg	400	39	1	8270C	10/01/08 3:47	kcampigotto	Q35771
1,4-Dichlorobenzene	BRL	µg/kg	400	48	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2,4,5-Trichlorophenol	BRL	µg/kg	400	48	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2,4,6-Trichlorophenol	BRL	µg/kg	400	43	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2,4-Dichlorophenol	BRL	µg/kg	400	26	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2,4-Dimethylphenol	BRL	µg/kg	400	60	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2,4-Dinitrophenol	BRL	µg/kg	400	120	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2,4-Dinitrotoluene	BRL	µg/kg	400	53	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2,6-Dinitrotoluene	BRL	µg/kg	400	73	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2-Chloronaphthalene	BRL	µg/kg	400	51	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2-Chlorophenol	BRL	µg/kg	400	17	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2-Methylnaphthalene	BRL	µg/kg	400	45	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2-Methylphenol	BRL	µg/kg	400	32	1	8270C	10/01/08 3:47	kcampigotto	Q35771
2-Nitrophenol	BRL	µg/kg	400	57	1	8270C	10/01/08 3:47	kcampigotto	Q35771
3&4-Methylphenol	BRL	µg/kg	400	47	1	8270C	10/01/08 3:47	kcampigotto	Q35771
3,3'-Dichlorobenzidine	BRL	µg/kg	400	73	1	8270C	10/01/08 3:47	kcampigotto	Q35771
4,6-Dinitro-2-methylphenol	BRL	µg/kg	400	35	1	8270C	10/01/08 3:47	kcampigotto	Q35771
4-Bromophenylphenylether	BRL	µg/kg	400	50	1	8270C	10/01/08 3:47	kcampigotto	Q35771
4-Chloro-3-methylphenol	BRL	µg/kg	400	48	1	8270C	10/01/08 3:47	kcampigotto	Q35771
4-Chlorophenylphenylether	BRL	µg/kg	400	51	1	8270C	10/01/08 3:47	kcampigotto	Q35771
4-Nitrophenol	BRL	µg/kg	400	51	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Acenaphthene	BRL	µg/kg	400	55	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Acenaphthylene	BRL	µg/kg	400	38	1	8270C	10/01/08 3:47	kcampigotto	Q35771

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Sample Matrix: Soil

Client Sample ID: SS-4  
Prism Sample ID: 225849  
COC Group: G0908634  
Time Collected: 09/22/08 15:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anthracene	BRL	µg/kg	400	29	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Benzo(a)anthracene	BRL	µg/kg	400	45	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Benzo(a)pyrene	BRL	µg/kg	400	51	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Benzo(b)fluoranthene	BRL	µg/kg	400	82	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Benzo(g,h,i)perylene	BRL	µg/kg	400	51	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Benzo(k)fluoranthene	BRL	µg/kg	400	110	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Bis(2-chloroethoxy)methane	BRL	µg/kg	400	68	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Bis(2-chloroethyl)ether	BRL	µg/kg	400	50	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Bis(2-chloroisopropyl)ether	BRL	µg/kg	400	40	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	400	31	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Butylbenzylphthalate	BRL	µg/kg	400	50	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Chrysene	BRL	µg/kg	400	27	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Di-n-butylphthalate	BRL	µg/kg	400	65	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Di-n-octylphthalate	BRL	µg/kg	400	120	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Dibenzo(a,h)anthracene	BRL	µg/kg	400	38	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Dibenzofuran	BRL	µg/kg	400	49	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Diethylphthalate	BRL	µg/kg	400	100	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Dimethylphthalate	BRL	µg/kg	400	60	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Fluoranthene	BRL	µg/kg	400	71	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Fluorene	BRL	µg/kg	400	57	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Hexachlorobenzene	BRL	µg/kg	400	55	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Hexachlorobutadiene	BRL	µg/kg	400	40	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Hexachlorocyclopentadiene	BRL	µg/kg	400	60	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Hexachloroethane	BRL	µg/kg	400	17	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	400	38	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Isophorone	BRL	µg/kg	400	38	1	8270C	10/01/08 3:47	kcampigotto	Q35771
N-Nitrosodi-n-propylamine	BRL	µg/kg	400	23	1	8270C	10/01/08 3:47	kcampigotto	Q35771

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N-Nitrosodiphenylamine	BRL	µg/kg	400	58	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Naphthalene	BRL	µg/kg	400	48	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Nitrobenzene	BRL	µg/kg	400	51	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Pentachlorophenol	BRL	µg/kg	400	62	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Phenanthrene	BRL	µg/kg	400	34	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Phenol	BRL	µg/kg	400	71	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Pyrene	BRL	µg/kg	400	77	1	8270C	10/01/08 3:47	kcampigotto	Q35771
Sample Preparation:			29.71 g	/	1 mL	3550B	09/29/08 11:00	jbarrette	P22659
Surrogate						% Recovery	Control Limits		
						Terphenyl-d14	61 41 - 136		
						Phenol-d5	50 13 - 95		
						Nitrobenzene-d5	51 14 - 103		
						2-Fluorophenol	42 14 - 89		
						2-Fluorobiphenyl	41 21 - 108		
						2,4,6-Tribromophenol	63 25 - 123		

TIC's By 8270	Est.Conc	Units
Unknown	690	ug/kg

#### Cyanide by Spectrophotometric Method

Cyanide, Total	BRL	mg/kg	0.60	0.21	1	9014	10/06/08 16:14	heasler	Q35971
Sample Preparation:			1.05 g	/	50 mL	9010B	10/06/08 9:58	heasler	P22739

#### Mercury by CVAA

Mercury	0.0084 J	mg/kg	0.024	0.0028	1	7471A	10/10/08 17:08	heaster	Q36055
Sample Preparation:			0.6 g	/	50 mL	7471A	10/10/08 11:35	mbarber	P22765

#### Metals by ICP

Antimony	BRL	mg/kg	0.73	0.22	3	6010B	09/26/08 23:52	mcampbell	Q35704
Arsenic	1.2 J	mg/kg	1.8	0.24	3	6010B	09/26/08 23:52	mcampbell	Q35704

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Client Sample ID: SS-4  
Prism Sample ID: 225849  
COC Group: G0908634  
Time Collected: 09/22/08 15:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Beryllium	1.6	mg/kg	0.90	0.022	3	6010B	09/26/08 23:52	mcampbell	Q35704
Cadmium	BRL	mg/kg	0.90	0.022	3	6010B	09/26/08 23:52	mcampbell	Q35704
Chromium	50	mg/kg	0.90	0.050	3	6010B	09/26/08 23:52	mcampbell	Q35704
Copper	81	mg/kg	1.8	0.78	3	6010B	09/26/08 23:52	mcampbell	Q35704
Lead	19	mg/kg	0.90	0.057	3	6010B	09/26/08 23:52	mcampbell	Q35704
Manganese	1300	mg/kg	3.0	0.36	10	6010B	10/01/08 12:35	McCampbell	Q35704
Nickel	30	mg/kg	1.8	0.22	3	6010B	09/26/08 23:52	mcampbell	Q35704
Selenium	BRL	mg/kg	1.8	0.36	3	6010B	09/26/08 23:52	mcampbell	Q35704
Silver	0.61 J	mg/kg	0.90	0.057	3	6010B	09/26/08 23:52	mcampbell	Q35704
Thallium	BRL	mg/kg	1.8	0.28	3	6010B	09/26/08 23:52	mcampbell	Q35704
Zinc	130	mg/kg	9.0	0.66	3	6010B	09/26/08 23:52	mcampbell	Q35704
Sample Preparation:			2.02 g	/	50 mL	3050B	09/25/08 8:10	mbarber	P22636

## 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 dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MB-01  
Prism Sample ID: 225850  
COC Group: G0908634  
Time Collected: 09/22/08 14:00  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:55	Iwtry	Q35683
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:55	Iwtry	Q35683
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	09/26/08 13:55	Iwtry	Q35683
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	09/26/08 13:55	Iwtry	Q35683
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:55	Iwtry	Q35683
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	09/26/08 13:55	Iwtry	Q35683
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:55	Iwtry	Q35683
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	09/26/08 13:55	Iwtry	Q35683
Acetone	BRL	µg/L	10	0.44	1	8260B	09/26/08 13:55	Iwtry	Q35683

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MB-01  
Prism Sample ID: 225850  
COC Group: G0908634  
Time Collected: 09/22/08 14:00  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	09/26/08 13:55	Iwtry	Q35683
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	09/26/08 13:55	Iwtry	Q35683
Benzene	BRL	µg/L	1.0	0.094	1	8260B	09/26/08 13:55	Iwtry	Q35683
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	09/26/08 13:55	Iwtry	Q35683
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	09/26/08 13:55	Iwtry	Q35683
Bromodichloromethane	3.4	µg/L	1.0	0.15	1	8260B	09/26/08 13:55	Iwtry	Q35683
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:55	Iwtry	Q35683
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	09/26/08 13:55	Iwtry	Q35683
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	09/26/08 13:55	Iwtry	Q35683
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	09/26/08 13:55	Iwtry	Q35683
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 13:55	Iwtry	Q35683
Chlorodibromomethane	2.3	µg/L	1.0	0.20	1	8260B	09/26/08 13:55	Iwtry	Q35683
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	09/26/08 13:55	Iwtry	Q35683
Chloroform	9.2	µg/L	1.0	0.080	1	8260B	09/26/08 13:55	Iwtry	Q35683
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	09/26/08 13:55	Iwtry	Q35683
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 13:55	Iwtry	Q35683
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	09/26/08 13:55	Iwtry	Q35683
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	09/26/08 13:55	Iwtry	Q35683
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	09/26/08 13:55	Iwtry	Q35683
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/26/08 13:55	Iwtry	Q35683
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	09/26/08 13:55	Iwtry	Q35683
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	09/26/08 13:55	Iwtry	Q35683
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 13:55	Iwtry	Q35683
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	09/26/08 13:55	Iwtry	Q35683
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	09/26/08 13:55	Iwtry	Q35683
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	09/26/08 13:55	Iwtry	Q35683
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	09/26/08 13:55	Iwtry	Q35683

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

## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MB-01  
Prism Sample ID: 225850  
COC Group: G0908634  
Time Collected: 09/22/08 14:00  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	09/26/08 13:55	Iwtry	Q35683
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	09/26/08 13:55	Iwtry	Q35683
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	09/26/08 13:55	Iwtry	Q35683
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 13:55	Iwtry	Q35683
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	09/26/08 13:55	Iwtry	Q35683
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/26/08 13:55	Iwtry	Q35683
Styrene	BRL	µg/L	1.0	0.11	1	8260B	09/26/08 13:55	Iwtry	Q35683
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 13:55	Iwtry	Q35683
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 13:55	Iwtry	Q35683
Toluene	BRL	µg/L	1.0	0.31	1	8260B	09/26/08 13:55	Iwtry	Q35683
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	09/26/08 13:55	Iwtry	Q35683
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	09/26/08 13:55	Iwtry	Q35683
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	09/26/08 13:55	Iwtry	Q35683
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	09/26/08 13:55	Iwtry	Q35683
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	09/26/08 13:55	Iwtry	Q35683
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	09/26/08 13:55	Iwtry	Q35683

Surrogate	% Recovery	Control Limits
Toluene-d8	94	75 - 121
Dibromofluoromethane	98	74 - 133
Bromofluorobenzene	102	69 - 139

### TIC's By 8260

No TICs were detected.

Est.Conc      Units

Semi-volatile Organics by GC/MS							
1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/01/08 21:46 kcampigotto Q35799
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/01/08 21:46 kcampigotto Q35799

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MB-01  
Prism Sample ID: 225850  
COC Group: G0908634  
Time Collected: 09/22/08 14:00  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/01/08 21:46	kcampigotto	Q35799
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/01/08 21:46	kcampigotto	Q35799
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/01/08 21:46	kcampigotto	Q35799
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/01/08 21:46	kcampigotto	Q35799
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/01/08 21:46	kcampigotto	Q35799
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/01/08 21:46	kcampigotto	Q35799
4-Bromophenylenylether	BRL	µg/L	9.7	0.77	1	8270C	10/01/08 21:46	kcampigotto	Q35799
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/01/08 21:46	kcampigotto	Q35799
4-Chlorophenylenylether	BRL	µg/L	9.7	1.8	1	8270C	10/01/08 21:46	kcampigotto	Q35799
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/01/08 21:46	kcampigotto	Q35799

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MB-01  
Prism Sample ID: 225850  
COC Group: G0908634  
Time Collected: 09/22/08 14:00  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/01/08 21:46	kcampigotto	Q35799
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/01/08 21:46	kcampigotto	Q35799
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/01/08 21:46	kcampigotto	Q35799

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NC Drinking Water Cert. No. 37735

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MB-01  
Prism Sample ID: 225850  
COC Group: G0908634  
Time Collected: 09/22/08 14:00  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/01/08 21:46	kcampigotto	Q35799
Surrogate recovery was outside of the control limits. Matrix interference is suspected.									
Sample Preparation: 1030 mL / 1 mL 3510C 09/29/08 9:00 smanivanh P22662									
Surrogate % Recovery Control Limits									
Terphenyl-d14 89 41 - 136									
Phenol-d5 9 # 10 - 78									
Nitrobenzene-d5 58 13 - 107									
2-Fluorophenol 17 10 - 75									
2-Fluorobiphenyl 64 27 - 107									
2,4,6-Tribromophenol 86 38 - 117									

TIC's By 8270			Est.Conc	Units				
No TICs were detected.								
<u>Cyanide by Colorimetric Method</u>								
Cyanide, Total	BRL	mg/L	0.0050	0.0026	1	9014	10/06/08 16:14	heasler Q35970
Sample Preparation: 50 mL / 50 mL								
<u>Mercury by CVAA</u>								
Mercury	BRL	mg/L	0.0002	0.000011	1	7470A	10/06/08 15:11	heasler Q35913
Sample Preparation: 20 mL / 30 mL								
<u>Metals by ICP</u>								
Antimony	BRL	mg/L	0.010	0.0023	1	6010B	09/26/08 18:34	mcampbell Q35697
Arsenic	BRL	mg/L	0.010	0.0022	1	6010B	09/26/08 18:34	mcampbell Q35697
Beryllium	BRL	mg/L	0.0020	0.00022	1	6010B	09/26/08 18:34	mcampbell Q35697
Cadmium	BRL	mg/L	0.0010	0.00017	1	6010B	09/26/08 18:34	mcampbell Q35697
Chromium	0.0006 J	mg/L	0.0050	0.00015	1	6010B	09/26/08 18:34	mcampbell Q35697

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

## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MB-01  
Prism Sample ID: 225850  
COC Group: G0908634  
Time Collected: 09/22/08 14:00  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Copper	0.0047 J	mg/L	0.010	0.00028	1	6010B	09/26/08 18:34	mcampbell	Q35697
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	09/26/08 18:34	mcampbell	Q35697
Manganese	0.12	mg/L	0.010	0.0012	1	6010B	09/26/08 18:34	mcampbell	Q35697
Nickel	0.0007 J	mg/L	0.010	0.00042	1	6010B	09/26/08 18:34	mcampbell	Q35697
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	09/26/08 18:34	mcampbell	Q35697
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	09/26/08 18:34	mcampbell	Q35697
Thallium	0.0049 J	mg/L	0.010	0.0014	1	6010B	09/26/08 18:34	mcampbell	Q35697
Zinc	0.22	mg/L	0.030	0.0023	1	6010B	09/26/08 18:34	mcampbell	Q35697
Sample Preparation:			50 mL	/	50 mL	3010A	09/25/08 7:30	mbarber	P22635

### 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

A handwritten signature in black ink, appearing to read "Angela D. Overcash".

Angela D. Overcash, V.P. Laboratory Services



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10/16/08

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Attn: Susan Kelly  
1308 Patton Avenue  
Asheville, NC 28806

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-01  
Prism Sample ID: 225851  
COC Group: G0908634  
Time Collected: 09/23/08 10:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 14:21	Iwtry	Q35683
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 14:21	Iwtry	Q35683
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	09/26/08 14:21	Iwtry	Q35683
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	09/26/08 14:21	Iwtry	Q35683
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 14:21	Iwtry	Q35683
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	09/26/08 14:21	Iwtry	Q35683
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 14:21	Iwtry	Q35683
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	09/26/08 14:21	Iwtry	Q35683
Acetone	BRL	µg/L	10	0.44	1	8260B	09/26/08 14:21	Iwtry	Q35683

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10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-01  
Prism Sample ID: 225851  
COC Group: G09098634  
Time Collected: 09/23/08 10:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	09/26/08 14:21	Iwtry	Q35683
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	09/26/08 14:21	Iwtry	Q35683
Benzene	BRL	µg/L	1.0	0.094	1	8260B	09/26/08 14:21	Iwtry	Q35683
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	09/26/08 14:21	Iwtry	Q35683
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	09/26/08 14:21	Iwtry	Q35683
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	09/26/08 14:21	Iwtry	Q35683
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 14:21	Iwtry	Q35683
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	09/26/08 14:21	Iwtry	Q35683
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	09/26/08 14:21	Iwtry	Q35683
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	09/26/08 14:21	Iwtry	Q35683
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	09/26/08 14:21	Iwtry	Q35683
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 14:21	Iwtry	Q35683
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	09/26/08 14:21	Iwtry	Q35683
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	09/26/08 14:21	Iwtry	Q35683
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	09/26/08 14:21	Iwtry	Q35683
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	09/26/08 14:21	Iwtry	Q35683
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	09/26/08 14:21	Iwtry	Q35683
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	09/26/08 14:21	Iwtry	Q35683
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	09/26/08 14:21	Iwtry	Q35683
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/26/08 14:21	Iwtry	Q35683
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	09/26/08 14:21	Iwtry	Q35683
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	09/26/08 14:21	Iwtry	Q35683
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	09/26/08 14:21	Iwtry	Q35683
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	09/26/08 14:21	Iwtry	Q35683
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	09/26/08 14:21	Iwtry	Q35683
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	09/26/08 14:21	Iwtry	Q35683
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	09/26/08 14:21	Iwtry	Q35683

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## Laboratory Report

10/16/08

MACTEC Eng. & Consulting, Inc  
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1308 Patton Avenue  
Asheville, NC 28806

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-01  
Prism Sample ID: 225851  
COC Group: G0908634  
Time Collected: 09/23/08 10:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	09/26/08 14:21	Iwtry	Q35683
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	09/26/08 14:21	Iwtry	Q35683
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	09/26/08 14:21	Iwtry	Q35683
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 14:21	Iwtry	Q35683
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	09/26/08 14:21	Iwtry	Q35683
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	09/26/08 14:21	Iwtry	Q35683
Styrene	BRL	µg/L	1.0	0.11	1	8260B	09/26/08 14:21	Iwtry	Q35683
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 14:21	Iwtry	Q35683
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	09/26/08 14:21	Iwtry	Q35683
Toluene	BRL	µg/L	1.0	0.31	1	8260B	09/26/08 14:21	Iwtry	Q35683
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	09/26/08 14:21	Iwtry	Q35683
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	09/26/08 14:21	Iwtry	Q35683
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	09/26/08 14:21	Iwtry	Q35683
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	09/26/08 14:21	Iwtry	Q35683
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	09/26/08 14:21	Iwtry	Q35683
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	09/26/08 14:21	Iwtry	Q35683

Surrogate	% Recovery	Control Limits
Toluene-d8	85	75 - 121
Dibromofluoromethane	86	74 - 133
Bromofluorobenzene	92	69 - 139

TIC's By 8260  
Est.Conc Units  
No TICs were detected.

<u>Semi-volatile Organics by GC/MS</u>	BRL	µg/L	9.7	2.6	1	8270C	10/01/08 23:20	kcampigotto	Q35799
1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/01/08 23:20	kcampigotto	Q35799
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/01/08 23:20	kcampigotto	Q35799

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Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-01  
Prism Sample ID: 225851  
COC Group: G0908634  
Time Collected: 09/23/08 10:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/01/08 23:20	kcampigotto	Q35799
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/01/08 23:20	kcampigotto	Q35799
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/01/08 23:20	kcampigotto	Q35799
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/01/08 23:20	kcampigotto	Q35799
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/01/08 23:20	kcampigotto	Q35799
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/01/08 23:20	kcampigotto	Q35799
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/01/08 23:20	kcampigotto	Q35799
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/01/08 23:20	kcampigotto	Q35799
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/01/08 23:20	kcampigotto	Q35799
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/01/08 23:20	kcampigotto	Q35799

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Sample Matrix: Water

Client Sample ID: EB-01  
Prism Sample ID: 225851  
COC Group: G0908634  
Time Collected: 09/23/08 10:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/01/08 23:20	kcampigotto	Q35799
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/01/08 23:20	kcampigotto	Q35799
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/01/08 23:20	kcampigotto	Q35799

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-01  
Prism Sample ID: 225851  
COC Group: G0908634  
Time Collected: 09/23/08 10:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/01/08 23:20	kcampigotto	Q35799
Sample Preparation:			1030 mL	/	1 mL	3510C	09/29/08 9:00	smanivah	P22662
						Surrogate	% Recovery	Control Limits	
						Terphenyl-d14	69	41 - 136	
						Phenol-d5	13	10 - 78	
						Nitrobenzene-d5	52	13 - 107	
						2-Fluorophenol	18	10 - 75	
						2-Fluorobiphenyl	55	27 - 107	
						2,4,6-Tribromophenol	84	38 - 117	

TIC's By 8270	Est.Conc	Units
Squalene	49	µg/L
Oxacycloheptadecan-2-one	10	µg/L
n-Hexadecanoic acid	19	µg/L

## Cyanide by Colorimetric Method

**Cyanide, Total** BRL mg/L 0.0050 0.0026 1 9014 10/06/08 16:14 heasler Q35970  
**Sample Preparation:** 50 mL / 50 mL 9010 10/06/08 9:58 heasler P22739

Mercury by CVAA

Mercury BRL mg/L 0.0002 0.000011 1 7470A 10/06/08 15:15 heasler Q35913  
Sample Preparation: 20 mL / 30 mL 7470A 10/06/08 9:35 mbarber P22711

**Metals by ICP**

Antimony	BRL	mg/L	0.010	0.0023	1	6010B	09/26/08 18:38	mcampbell	Q35697
Arsenic	BRL	mg/L	0.010	0.0022	1	6010B	09/26/08 18:38	mcampbell	Q35697
Beryllium	BRL	mg/L	0.0020	0.00022	1	6010B	09/26/08 18:38	mcampbell	Q35697
Cadmium	BRL	mg/L	0.0010	0.00017	1	6010B	09/26/08 18:38	mcampbell	Q35697

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-01  
Prism Sample ID: 225851  
COC Group: G0908634  
Time Collected: 09/23/08 10:30  
Time Submitted: 09/24/08 11:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chromium	0.0070	mg/L	0.0050	0.00015	1	6010B	09/26/08 18:38	mcampbell	Q35697
Copper	0.0092 J	mg/L	0.010	0.00028	1	6010B	09/26/08 18:38	mcampbell	Q35697
Lead	0.0021 J	mg/L	0.0050	0.0014	1	6010B	09/26/08 18:38	mcampbell	Q35697
Manganese	0.18	mg/L	0.010	0.0012	1	6010B	09/26/08 18:38	mcampbell	Q35697
Nickel	0.011	mg/L	0.010	0.00042	1	6010B	09/26/08 18:38	mcampbell	Q35697
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	09/26/08 18:38	mcampbell	Q35697
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	09/26/08 18:38	mcampbell	Q35697
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	09/26/08 18:38	mcampbell	Q35697
Zinc	0.022 J	mg/L	0.030	0.0023	1	6010B	09/26/08 18:38	mcampbell	Q35697
Sample Preparation:						50 mL / 50 mL	3010A	09/25/08 7:30	mbarber
P22635									

## 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

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

### 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	Q35683
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q35683
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q35683
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q35683
1,1-Dichloroethane	ND	1	<0.5	µg/L	Q35683
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q35683
1,1-Dichloropropene	ND	1	<0.5	µg/L	Q35683
1,2,3-Trichlorobenzene	ND	2	<1	µg/L	Q35683
1,2,3-Trichloropropane	ND	1	<0.5	µg/L	Q35683
1,2,4-Trichlorobenzene	ND	1	<0.5	µg/L	Q35683
1,2,4-Trimethylbenzene	ND	1	<0.5	µg/L	Q35683
1,2-Dibromo-3-chloropropane	ND	2	<1	µg/L	Q35683
1,2-Dibromoethane (EDB)	ND	1	<0.5	µg/L	Q35683
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q35683
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q35683
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q35683
1,3,5-Trimethylbenzene	ND	1	<0.5	µg/L	Q35683
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q35683
1,3-Dichloropropane	ND	1	<0.5	µg/L	Q35683
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q35683
2,2-Dichloropropane	ND	2	<1	µg/L	Q35683
2-Chloroethyl vinyl ether	ND	2	<1	µg/L	Q35683
2-Chlorotoluene	ND	1	<0.5	µg/L	Q35683
2-Hexanone	ND	5	<2.5	µg/L	Q35683
4-Chlorotoluene	ND	1	<0.5	µg/L	Q35683
4-Methyl-2-pentanone (MIBK)	ND	5	<2.5	µg/L	Q35683
Acetone	ND	10	<5	µg/L	Q35683
Acrolein	ND	100	<50	µg/L	Q35683
Acrylonitrile	ND	100	<50	µg/L	Q35683
Benzene	ND	1	<0.5	µg/L	Q35683
Bromobenzene	ND	1	<0.5	µg/L	Q35683
Bromochloromethane	ND	1	<0.5	µg/L	Q35683
Bromodichloromethane	ND	1	<0.5	µg/L	Q35683
Bromoform	ND	1	<0.5	µg/L	Q35683

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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634  
Date/Time Submitted: 9/24/08 11:30

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Bromomethane	ND	3	<1.5	µg/L	Q35683
Carbon disulfide	ND	5	<2.5	µg/L	Q35683
Carbon tetrachloride	ND	2	<1	µg/L	Q35683
Chlorobenzene	ND	1	<0.5	µg/L	Q35683
Chlorodibromomethane	ND	1	<0.5	µg/L	Q35683
Chloroethane	ND	5	<2.5	µg/L	Q35683
Chloroform	ND	1	<0.5	µg/L	Q35683
Chloromethane	ND	2	<1	µg/L	Q35683
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q35683
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q35683
Dibromomethane	ND	1	<0.5	µg/L	Q35683
Dichlorodifluoromethane	ND	2	<1	µg/L	Q35683
Ethylbenzene	ND	1	<0.5	µg/L	Q35683
Hexachlorobutadiene	ND	2	<1	µg/L	Q35683
Isopropyl ether (IPE)	ND	1	<0.5	µg/L	Q35683
Isopropylbenzene	ND	1	<0.5	µg/L	Q35683
m,p-Xylenes	ND	2	<1	µg/L	Q35683
Methyl ethyl ketone (MEK)	ND	5	<2.5	µg/L	Q35683
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q35683
Methylene chloride	ND	2	<1	µg/L	Q35683
n-Butylbenzene	ND	1	<0.5	µg/L	Q35683
n-Propylbenzene	ND	1	<0.5	µg/L	Q35683
Naphthalene	ND	1	<0.5	µg/L	Q35683
o-Xylene	ND	1	<0.5	µg/L	Q35683
p-Isopropyltoluene	ND	1	<0.5	µg/L	Q35683
sec-Butylbenzene	ND	1	<0.5	µg/L	Q35683
Styrene	ND	1	<0.5	µg/L	Q35683
tert-Butylbenzene	ND	1	<0.5	µg/L	Q35683
Tetrachloroethene	ND	1	<0.5	µg/L	Q35683
Toluene	ND	1	<0.5	µg/L	Q35683
trans-1,2-Dichloroethene	ND	2	<1	µg/L	Q35683
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q35683
Trichloroethene	ND	2	<1	µg/L	Q35683
Trichlorofluoromethane	ND	2	<1	µg/L	Q35683
Vinyl acetate	ND	20	<10	µg/L	Q35683
Vinyl chloride	ND	2	<1	µg/L	Q35683

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

## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

Laboratory Control Sample		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
1,1-Dichloroethene		63.82	50	µg/L	128	62-141	Q35683		
Benzene		58.72	50	µg/L	117	70-141	Q35683		
Chlorobenzene		53	50	µg/L	106	88-120	Q35683		
Toluene		59.13	50	µg/L	118	78-130	Q35683		
Trichloroethene		61.77	50	µg/L	124	78-124	Q35683		
Matrix Spike		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
225834 1,1-Dichloroethene		2378.8	2000	µg/L	119	54-140	Q35683		
Benzene		2167.2	2000	µg/L	108	62-129	Q35683		
Chlorobenzene		1956.4	2000	µg/L	98	64-127	Q35683		
Toluene		2181.2	2000	µg/L	109	60-131	Q35683		
Trichloroethene		2283.2	2000	µg/L	114	52-128	Q35683		
Matrix Spike Duplicate		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
225834 1,1-Dichloroethene		2720	2000	µg/L	136	54-140	13	0 - 20	Q35683
Benzene		2453.6	2000	µg/L	123	62-129	12	0 - 19	Q35683
Chlorobenzene		2224	2000	µg/L	111	64-127	13	0 - 20	Q35683
Toluene		2464	2000	µg/L	123	60-131	12	0 - 21	Q35683
Trichloroethene		2554.4	2000	µg/L	128	52-128	11	0 - 18	Q35683



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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

### Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Antimony	0.0016	0.01	<0.005	mg/L	Q35697
Arsenic	-0.0009	0.01	<0.005	mg/L	Q35697
Beryllium	ND	0.002	<0.001	mg/L	Q35697
Cadmium	ND	0.001	<0.0005	mg/L	Q35697
Chromium	-0.0001	0.005	<0.0025	mg/L	Q35697
Copper	-0.0006	0.01	<0.005	mg/L	Q35697
Lead	0.0001	0.005	<0.0025	mg/L	Q35697
Manganese	0.0006	0.01	<0.005	mg/L	Q35697
Nickel	-0.0001	0.01	<0.005	mg/L	Q35697
Selenium	-0.0009	0.02	<0.01	mg/L	Q35697
Silver	0.0001	0.005	<0.0025	mg/L	Q35697
Thallium	0.0059	0.01	<0.005	mg/L	Q35697
Zinc	0.0034	0.03	<0.015	mg/L	Q35697
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Antimony	0.2517	0.25	mg/L	101	80-120
Arsenic	0.2548	0.25	mg/L	102	80-120
Beryllium	0.2504	0.25	mg/L	100	80-120
Cadmium	0.2654	0.25	mg/L	102	80-120
Chromium	0.2565	0.25	mg/L	103	80-120
Copper	0.2591	0.25	mg/L	104	80-120
Lead	0.2588	0.25	mg/L	104	80-120
Manganese	0.2646	0.25	mg/L	106	80-120
Nickel	0.2567	0.25	mg/L	103	80-120
Selenium	0.2523	0.25	mg/L	101	80-120
Silver	0.2581	0.25	mg/L	103	80-120
Thallium	0.2527	0.25	mg/L	101	80-120
Zinc	0.2557	0.25	mg/L	102	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID:					QC Batch ID
225270 Antimony	0.246	0.25	mg/L	98	75-125
Arsenic	0.2526	0.25	mg/L	101	75-125
Beryllium	0.2477	0.25	mg/L	99	75-125
Cadmium	0.2511	0.25	mg/L	100	75-125

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

## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
225270 Chromium		0.2579	0.25	mg/L	101	75-125	Q35697
Copper		0.258	0.25	mg/L	103	75-125	Q35697
Lead		0.2543	0.25	mg/L	102	75-125	Q35697
Manganese		0.3054	0.25	mg/L	114	75-125	Q35697
Nickel		0.254	0.25	mg/L	101	75-125	Q35697
Selenium		0.248	0.25	mg/L	99	75-125	Q35697
Silver		0.2543	0.25	mg/L	102	75-125	Q35697
Thallium		0.2485	0.25	mg/L	96	75-125	Q35697
Zinc		0.2589	0.25	mg/L	101	75-125	Q35697

Matrix Spike Duplicate	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
225270 Antimony		0.2484	0.25	mg/L	99	75-125	1	0 - 20	Q35697
Arsenic		0.2529	0.25	mg/L	101	75-125	0	0 - 20	Q35697
Beryllium		0.248	0.25	mg/L	99	75-125	0	0 - 20	Q35697
Cadmium		0.2527	0.25	mg/L	101	75-125	1	0 - 20	Q35697
Chromium		0.2594	0.25	mg/L	102	75-125	1	0 - 20	Q35697
Copper		0.2589	0.25	mg/L	103	75-125	0	0 - 20	Q35697
Lead		0.256	0.25	mg/L	102	75-125	1	0 - 20	Q35697
Manganese		0.2648	0.25	mg/L	98	75-125	14	0 - 20	Q35697
Nickel		0.2571	0.25	mg/L	102	75-125	1	0 - 20	Q35697
Selenium		0.2493	0.25	mg/L	100	75-125	1	0 - 20	Q35697
Silver		0.2562	0.25	mg/L	102	75-125	1	0 - 20	Q35697
Thallium		0.2558	0.25	mg/L	99	75-125	3	0 - 20	Q35697
Zinc		0.2552	0.25	mg/L	100	75-125	1	0 - 20	Q35697



NC Certification No. 402  
SC Certification No. 99012  
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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

### Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Antimony	0.0143	0.2	<0.1	mg/kg	Q35704
Arsenic	-0.0513	0.5	<0.25	mg/kg	Q35704
Beryllium	0.0009	0.25	<0.125	mg/kg	Q35704
Cadmium	-0.0004	0.25	<0.125	mg/kg	Q35704
Chromium	0.0316	0.25	<0.125	mg/kg	Q35704
Copper	0.0128	0.5	<0.25	mg/kg	Q35704
Lead	0.0527	0.25	<0.125	mg/kg	Q35704
Manganese	0.1481	0.25	<0.125	mg/kg	Q35704
Nickel	0.0074	0.5	<0.25	mg/kg	Q35704
Selenium	0.0154	0.5	<0.25	mg/kg	Q35704
Silver	ND	0.25	<0.125	mg/kg	Q35704
Thallium	0.1026	0.5	<0.25	mg/kg	Q35704
Zinc	0.9227	2.5	<1.25	mg/kg	Q35704

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Antimony	22.1819	25	mg/kg	89	80-120	Q35704
Arsenic	23.1181	25	mg/kg	92	80-120	Q35704
Beryllium	22.7066	25	mg/kg	91	80-120	Q35704
Cadmium	22.6422	25	mg/kg	91	80-120	Q35704
Chromium	24.7799	25	mg/kg	99	80-120	Q35704
Copper	24.3853	25	mg/kg	98	80-120	Q35704
Lead	23.0111	25	mg/kg	92	80-120	Q35704
Manganese	24.5271	25	mg/kg	98	80-120	Q35704
Nickel	23.3406	25	mg/kg	93	80-120	Q35704
Selenium	22.9126	25	mg/kg	92	80-120	Q35704
Silver	23.2799	25	mg/kg	93	80-120	Q35704
Thallium	22.4261	25	mg/kg	90	80-120	Q35704
Zinc	24.1755	25	mg/kg	97	80-120	Q35704

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:						
225374 Antimony	3.1371	25	mg/kg	14	# 75-125	Q35704
Arsenic	23.1645	25	mg/kg	82	75-125	Q35704
Beryllium	21.8184	25	mg/kg	84	75-125	Q35704
Cadmium	19.794	25	mg/kg	79	75-125	Q35704

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

## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

Matrix Spike		Result	Spike Amount	Units	Recovery	Recovery	QC Batch
Sample ID:					%	Ranges %	
225374 Chromium		65.8551	25	mg/kg	87	75-125	Q35704
Copper		84.5165	25	mg/kg	129 #	75-125	Q35704
Lead		98.8736	25	mg/kg	62 #	75-125	Q35704
Manganese		506	25	mg/kg	764 #	75-125	Q35704
Nickel		36.4325	25	mg/kg	80	75-125	Q35704
Selenium		17.5667	25	mg/kg	80	75-125	Q35704
Silver		22.9223	25	mg/kg	93	75-125	Q35704
Thallium		8.0398	25	mg/kg	73 #	75-125	Q35704
Zinc		143.315	25	mg/kg	179 #	75-125	Q35704
Matrix Spike Duplicate		Result	Spike Amount	Units	Recovery	Recovery	QC Batch
Sample ID:					%	Ranges %	
225374 Antimony		3.4525	24.390	mg/kg	16 #	75-125	10 0 - 20 Q35704
Arsenic		24.2362	24.390	mg/kg	89	75-125	5 0 - 20 Q35704
Beryllium		22.8356	24.390	mg/kg	90	75-125	5 0 - 20 Q35704
Cadmium		21.392	24.390	mg/kg	88	75-125	8 0 - 20 Q35704
Chromium		62.3601	24.390	mg/kg	75	75-125	5 0 - 20 Q35704
Copper		73.9003	24.390	mg/kg	89	75-125	13 0 - 20 Q35704
Lead		1470	25	mg/kg	5546 #	75-125	175 # 0 - 20 Q35704
Manganese		493	25	mg/kg	712 #	75-125	3 0 - 20 Q35704
Nickel		38.068	24.390	mg/kg	89	75-125	4 0 - 20 Q35704
Selenium		18.6398	24.390	mg/kg	86	75-125	6 0 - 20 Q35704
Silver		23.3305	24.390	mg/kg	97	75-125	2 0 - 20 Q35704
Thallium		8.0106	24.390	mg/kg	74 #	75-125	0 0 - 20 Q35704
Zinc		731.755	24.390	mg/kg	2596 #	75-125	134 # 0 - 20 Q35704



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Attn: Susan Kelly  
1308 Patton Avenue  
Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G0908634  
Date/Time Submitted: 9/24/08 11:30

### Semi-volatile Organic Compounds by GC/MS, method 8270C

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	0.33	<0.165	mg/kg	Q35771
1,2-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q35771
1,3-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q35771
1,4-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q35771
2,4,5-Trichlorophenol	ND	0.33	<0.165	mg/kg	Q35771
2,4,6-Trichlorophenol	ND	0.33	<0.165	mg/kg	Q35771
2,4-Dichlorophenol	ND	0.33	<0.165	mg/kg	Q35771
2,4-Dimethylphenol	ND	0.33	<0.165	mg/kg	Q35771
2,4-Dinitrophenol	ND	1.65	<0.825	mg/kg	Q35771
2,4-Dinitrotoluene	ND	0.33	<0.165	mg/kg	Q35771
2,6-Dinitrotoluene	ND	0.33	<0.165	mg/kg	Q35771
2-Chloronaphthalene	ND	0.33	<0.165	mg/kg	Q35771
2-Chlorophenol	ND	0.33	<0.165	mg/kg	Q35771
2-Methylnaphthalene	ND	0.33	<0.165	mg/kg	Q35771
2-Methylphenol	ND	0.33	<0.165	mg/kg	Q35771
2-Nitrophenol	ND	0.33	<0.165	mg/kg	Q35771
3&4-Methyphenol	ND	0.33	<0.165	mg/kg	Q35771
3,3'-Dichlorobenzidine	ND	0.66	<0.33	mg/kg	Q35771
4,6-Dinitro-2-methylphenol	ND	1.65	<0.825	mg/kg	Q35771
4-Bromophenylphenylether	ND	0.33	<0.165	mg/kg	Q35771
4-Chloro-3-methylphenol	ND	0.66	<0.33	mg/kg	Q35771
4-Chloroaniline	ND	0.33	<0.165	mg/kg	Q35771
4-Chlorophenylphenylether	ND	0.33	<0.165	mg/kg	Q35771
4-Nitrophenol	ND	1.65	<0.825	mg/kg	Q35771
Acenaphthene	ND	0.33	<0.165	mg/kg	Q35771
Acenaphthylene	ND	0.33	<0.165	mg/kg	Q35771
Anthracene	ND	0.33	<0.165	mg/kg	Q35771
Azobenzene	ND	1.65	<0.825	mg/kg	Q35771
Benzo(a)anthracene	ND	0.33	<0.165	mg/kg	Q35771
Benzo(a)pyrene	ND	0.33	<0.165	mg/kg	Q35771
Benzo(b)fluoranthene	ND	0.33	<0.165	mg/kg	Q35771
Benzo(g,h,i)perylene	ND	0.33	<0.165	mg/kg	Q35771
Benzo(k)fluoranthene	ND	0.33	<0.165	mg/kg	Q35771
Benzoic acid	ND	1.65	<0.825	mg/kg	Q35771

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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Benzyl alcohol	ND	0.66	<0.33	mg/kg	Q35771
Bis(2-chloroethoxy)methane	ND	0.33	<0.165	mg/kg	Q35771
Bis(2-chloroethyl)ether	ND	0.33	<0.165	mg/kg	Q35771
Bis(2-chloroisopropyl)ether	ND	0.33	<0.165	mg/kg	Q35771
Bis(2-ethylhexyl)phthalate	ND	0.33	<0.165	mg/kg	Q35771
Butylbenzylphthalate	ND	0.33	<0.165	mg/kg	Q35771
Chrysene	ND	0.33	<0.165	mg/kg	Q35771
Di-n-butylphthalate	ND	0.33	<0.165	mg/kg	Q35771
Di-n-octylphthalate	ND	0.33	<0.165	mg/kg	Q35771
Dibenzo(a,h)anthracene	ND	0.33	<0.165	mg/kg	Q35771
Dibenzofuran	ND	0.33	<0.165	mg/kg	Q35771
Diethylphthalate	ND	0.33	<0.165	mg/kg	Q35771
Dimethylphthalate	ND	0.33	<0.165	mg/kg	Q35771
Fluoranthene	ND	0.33	<0.165	mg/kg	Q35771
Fluorene	ND	0.33	<0.165	mg/kg	Q35771
Hexachlorobenzene	ND	0.33	<0.165	mg/kg	Q35771
Hexachlorobutadiene	ND	0.33	<0.165	mg/kg	Q35771
Hexachlorocyclopentadiene	ND	0.33	<0.165	mg/kg	Q35771
Hexachloroethane	ND	0.33	<0.165	mg/kg	Q35771
Indeno(1,2,3-cd)pyrene	ND	0.33	<0.165	mg/kg	Q35771
Isophorone	ND	0.33	<0.165	mg/kg	Q35771
N-Nitrosodi-n-propylamine	ND	0.33	<0.165	mg/kg	Q35771
N-Nitrosodiphenylamine	ND	0.33	<0.165	mg/kg	Q35771
Naphthalene	ND	0.33	<0.165	mg/kg	Q35771
Nitrobenzene	ND	0.33	<0.165	mg/kg	Q35771
Pentachlorophenol	ND	1.65	<0.825	mg/kg	Q35771
Phenanthrene	ND	0.33	<0.165	mg/kg	Q35771
Phenol	ND	0.33	<0.165	mg/kg	Q35771
Pyrene	ND	0.33	<0.165	mg/kg	Q35771

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2,4-Trichlorobenzene	0.82439	1.6664	mg/kg	49	39-98	Q35771
1,4-Dichlorobenzene	0.89303	1.6664	mg/kg	54	37-95	Q35771
2,4-Dinitrotoluene	1.24825	1.6664	mg/kg	75	56-128	Q35771
2-Chlorophenol	0.93968	1.6664	mg/kg	56	37-98	Q35771
4-Chloro-3-methylphenol	1.14028	1.6664	mg/kg	68	45-111	Q35771

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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID	
4-Nitrophenol	1.24925	1.6664	mg/kg	75	20-157	Q35771	
Acenaphthene	1.08530	1.6664	mg/kg	65	44-110	Q35771	
N-Nitrosodi-n-propylamine	1.02465	1.6664	mg/kg	61	38-101	Q35771	
Pentachlorophenol	1.54148	1.6664	mg/kg	93	53-127	Q35771	
Phenol	0.79106	1.6664	mg/kg	47	34-102	Q35771	
Pyrene	1.68777	1.6664	mg/kg	101	54-131	Q35771	
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID	
Sample ID:							
226019 1,2,4-Trichlorobenzene	1.04119	1.6614	mg/kg	63	26-97	Q35771	
1,4-Dichlorobenzene	0.75780	1.6614	mg/kg	46	23-92	Q35771	
2,4-Dinitrotoluene	1.25382	1.6614	mg/kg	75	45-127	Q35771	
2-Chlorophenol	1.07740	1.6614	mg/kg	65	25-94	Q35771	
4-Chloro-3-methylphenol	1.16644	1.6614	mg/kg	70	31-113	Q35771	
4-Nitrophenol	1.04019	1.6614	mg/kg	63	17-150	Q35771	
Acenaphthene	1.26478	1.6614	mg/kg	76	36-107	Q35771	
N-Nitrosodi-n-propylamine	1.38006	1.6614	mg/kg	83	22-105	Q35771	
Pentachlorophenol	1.58737	1.6614	mg/kg	96	39-137	Q35771	
Phenol	0.87342	1.6614	mg/kg	53	23-97	Q35771	
Pyrene	1.52558	1.6614	mg/kg	92	45-133	Q35771	
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD Range %	QC Batch ID
Sample ID:							
226019 1,2,4-Trichlorobenzene	1.03915	1.6736	mg/kg	62	26-97	0	0 - 37 Q35771
1,4-Dichlorobenzene	0.81693	1.6736	mg/kg	49	23-92	8	0 - 36 Q35771
2,4-Dinitrotoluene	1.42904	1.6736	mg/kg	85	45-127	13	0 - 29 Q35771
2-Chlorophenol	1.04752	1.6736	mg/kg	63	25-94	3	0 - 37 Q35771
4-Chloro-3-methylphenol	1.06392	1.6736	mg/kg	64	31-113	9	0 - 32 Q35771
4-Nitrophenol	1.29618	1.6736	mg/kg	77	17-150	22	0 - 32 Q35771
Acenaphthene	1.32028	1.6736	mg/kg	79	36-107	4	0 - 32 Q35771
N-Nitrosodi-n-propylamine	1.42001	1.6736	mg/kg	85	22-105	3	0 - 37 Q35771
Pentachlorophenol	1.60341	1.6736	mg/kg	96	39-137	1	0 - 27 Q35771
Phenol	0.80655	1.6736	mg/kg	48	23-97	8	0 - 42 Q35771
Pyrene	1.61546	1.6736	mg/kg	97	45-133	6	0 - 27 Q35771

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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

### Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q35790
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q35790
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q35790
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q35790
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35790
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35790
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35790
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q35790
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35790
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q35790
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q35790
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35790
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q35790
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35790
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q35790
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35790
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35790
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35790
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35790
2-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q35790
2-Hexanone	ND	0.05	<0.025	mg/kg	Q35790
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q35790
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q35790
Acetone	ND	0.05	<0.025	mg/kg	Q35790
Benzene	ND	0.003	<0.0015	mg/kg	Q35790
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q35790
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q35790
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q35790
Bromoform	ND	0.005	<0.0025	mg/kg	Q35790
Bromomethane	ND	0.01	<0.005	mg/kg	Q35790
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q35790
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q35790
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q35790
Chloroethane	ND	0.01	<0.005	mg/kg	Q35790

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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634  
Date/Time Submitted: 9/24/08 11:30

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Chloroform	ND	0.005	<0.0025	mg/kg	Q35790
Chloromethane	ND	0.005	<0.0025	mg/kg	Q35790
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35790
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35790
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg	Q35790
Ethylbenzene	ND	0.005	<0.0025	mg/kg	Q35790
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg	Q35790
Isopropylbenzene	ND	0.005	<0.0025	mg/kg	Q35790
m,p-Xylenes	ND	0.01	<0.005	mg/kg	Q35790
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg	Q35790
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg	Q35790
Methylene chloride	ND	0.005	<0.0025	mg/kg	Q35790
n-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35790
n-Propylbenzene	ND	0.005	<0.0025	mg/kg	Q35790
Naphthalene	ND	0.01	<0.005	mg/kg	Q35790
o-Xylene	ND	0.005	<0.0025	mg/kg	Q35790
p-Isopropyltoluene	ND	0.005	<0.0025	mg/kg	Q35790
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35790
Styrene	ND	0.005	<0.0025	mg/kg	Q35790
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35790
Tetrachloroethene	ND	0.005	<0.0025	mg/kg	Q35790
Toluene	ND	0.005	<0.0025	mg/kg	Q35790
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35790
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35790
Trichloroethene	ND	0.005	<0.0025	mg/kg	Q35790
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg	Q35790
Vinyl acetate	ND	0.025	<0.0125	mg/kg	Q35790
Vinyl chloride	ND	0.005	<0.0025	mg/kg	Q35790
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
1,1-Dichloroethene	57.28	50	mg/kg	115	57-122
Benzene	52.81	50	mg/kg	106	62-119
Chlorobenzene	52.65	50	mg/kg	105	61-124
Toluene	46.2	50	mg/kg	92	57-122
Trichloroethene	47.76	50	mg/kg	96	59-129

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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

Matrix Spike		Sample ID:	Result	Spike Amount	Units	Recovery	Recovery	QC Batch ID
						%	Ranges %	
226020	1,1-Dichloroethene		53.67	50	mg/kg	107	44-140	Q35790
	Benzene		51.89	50	mg/kg	104	46-136	Q35790
	Chlorobenzene		48.56	50	mg/kg	97	47-135	Q35790
	Toluene		45.03	50	mg/kg	90	47-136	Q35790
	Trichloroethene		48.33	50	mg/kg	97	45-141	Q35790
Matrix Spike Duplicate		Sample ID:	Result	Spike Amount	Units	Recovery	Recovery	QC Batch ID
						%	Ranges %	
226020	1,1-Dichloroethene		52.53	50	mg/kg	105	44-140	2 Q35790
	Benzene		50.2	50	mg/kg	100	46-136	3 Q35790
	Chlorobenzene		46.49	50	mg/kg	93	47-135	4 Q35790
	Toluene		43.93	50	mg/kg	88	47-136	2 Q35790
	Trichloroethene		47.6	50	mg/kg	95	45-141	2 Q35790



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Attn: Susan Kelly  
1308 Patton Avenue  
Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G0908634  
Date/Time Submitted: 9/24/08 11:30

### Semi-volatile Organics by GC/MS, method 8270C

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	10	<5	µg/L	Q35799
1,2-Dichlorobenzene	ND	10	<5	µg/L	Q35799
1,3-Dichlorobenzene	ND	10	<5	µg/L	Q35799
1,4-Dichlorobenzene	ND	10	<5	µg/L	Q35799
2,4,5-Trichlorophenol	ND	10	<5	µg/L	Q35799
2,4,6-Trichlorophenol	ND	10	<5	µg/L	Q35799
2,4-Dichlorophenol	ND	10	<5	µg/L	Q35799
2,4-Dimethylphenol	ND	10	<5	µg/L	Q35799
2,4-Dinitrophenol	ND	10	<5	µg/L	Q35799
2,4-Dinitrotoluene	ND	10	<5	µg/L	Q35799
2,6-Dinitrotoluene	ND	10	<5	µg/L	Q35799
2-Chloronaphthalene	ND	10	<5	µg/L	Q35799
2-Chlorophenol	ND	10	<5	µg/L	Q35799
2-Methylnaphthalene	ND	10	<5	µg/L	Q35799
2-Methylphenol	ND	10	<5	µg/L	Q35799
2-Nitrophenol	ND	10	<5	µg/L	Q35799
3&4-Methylphenol	ND	10	<5	µg/L	Q35799
3,3'-Dichlorobenzidine	ND	10	<5	µg/L	Q35799
4,6-Dinitro-2-methylphenol	ND	10	<5	µg/L	Q35799
4-Bromophenylphenylether	ND	10	<5	µg/L	Q35799
4-Chloro-3-methylphenol	ND	10	<5	µg/L	Q35799
4-Chlorophenylphenylether	ND	10	<5	µg/L	Q35799
4-Nitrophenol	ND	10	<5	µg/L	Q35799
Acenaphthene	ND	10	<5	µg/L	Q35799
Acenaphthylene	ND	10	<5	µg/L	Q35799
Anthracene	ND	10	<5	µg/L	Q35799
Benzo(a)anthracene	ND	10	<5	µg/L	Q35799
Benzo(a)pyrene	ND	10	<5	µg/L	Q35799
Benzo(b)fluoranthene	ND	10	<5	µg/L	Q35799
Benzo(g,h,i)perylene	ND	10	<5	µg/L	Q35799
Benzo(k)fluoranthene	ND	10	<5	µg/L	Q35799
Bis(2-chloroethoxy)methane	ND	10	<5	µg/L	Q35799
Bis(2-chloroethyl)ether	ND	10	<5	µg/L	Q35799
Bis(2-chloroisopropyl)ether	ND	10	<5	µg/L	Q35799

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

## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

### Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Bis(2-ethylhexyl)phthalate	ND	10	<5	µg/L	Q35799
Butylbenzylphthalate	ND	10	<5	µg/L	Q35799
Chrysene	ND	10	<5	µg/L	Q35799
Di-n-butylphthalate	ND	10	<5	µg/L	Q35799
Di-n-octylphthalate	ND	10	<5	µg/L	Q35799
Dibenzo(a,h)anthracene	ND	10	<5	µg/L	Q35799
Dibenzofuran	ND	10	<5	µg/L	Q35799
Diethylphthalate	ND	10	<5	µg/L	Q35799
Dimethylphthalate	ND	10	<5	µg/L	Q35799
Fluoranthene	ND	10	<5	µg/L	Q35799
Fluorene	ND	10	<5	µg/L	Q35799
Hexachlorobenzene	ND	10	<5	µg/L	Q35799
Hexachlorobutadiene	ND	10	<5	µg/L	Q35799
Hexachlorocyclopentadiene	ND	10	<5	µg/L	Q35799
Hexachloroethane	ND	10	<5	µg/L	Q35799
Indeno(1,2,3-cd)pyrene	ND	10	<5	µg/L	Q35799
Isophorone	ND	10	<5	µg/L	Q35799
N-Nitrosodi-n-propylamine	ND	10	<5	µg/L	Q35799
N-Nitrosodiphenylamine	ND	10	<5	µg/L	Q35799
Naphthalene	ND	10	<5	µg/L	Q35799
Nitrobenzene	ND	10	<5	µg/L	Q35799
Pentachlorophenol	ND	10	<5	µg/L	Q35799
Phenanthrene	ND	10	<5	µg/L	Q35799
Phenol	ND	10	<5	µg/L	Q35799
Pyrene	ND	10	<5	µg/L	Q35799

### Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2,4-Trichlorobenzene	26.05	50	µg/L	52	26-96	Q35799
1,4-Dichlorobenzene	25.81	50	µg/L	52	19-95	Q35799
2,4-Dinitrotoluene	48.56	50	µg/L	97	47-122	Q35799
2-Chlorophenol	22.56	50	µg/L	45	20-95	Q35799
4-Chloro-3-methylphenol	28.25	50	µg/L	57	36-104	Q35799
4-Nitrophenol	8.75	50	µg/L	18	10-117	Q35799
Acenaphthene	33.28	50	µg/L	67	36-109	Q35799
N-Nitrosodi-n-propylamine	33.32	50	µg/L	67	31-100	Q35799
Pentachlorophenol	48.26	50	µg/L	97	48-124	Q35799

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

## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Phenol	8.21	50	µg/L	16	10-99	Q35799		
Pyrene	47.4	50	µg/L	95	55-120	Q35799		
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Sample ID:								
225850 1,2,4-Trichlorobenzene	58.9215	98.039	µg/L	60	21-105	Q35799		
1,4-Dichlorobenzene	59.5098	98.039	µg/L	61	19-99	Q35799		
2,4-Dinitrotoluene	98.3333	98.039	µg/L	98	48-126	Q35799		
2-Chlorophenol	58.0784	98.039	µg/L	59	19-104	Q35799		
4-Chloro-3-methylphenol	73.3137	98.039	µg/L	75	35-115	Q35799		
4-Nitrophenol	30.1372	98.039	µg/L	31	10-116	Q35799		
Acenaphthene	64.1568	98.039	µg/L	65	35-112	Q35799		
N-Nitrosodi-n-propylamine	78.3137	98.039	µg/L	80	27-105	Q35799		
Pentachlorophenol	99.9019	98.039	µg/L	102	62-119	Q35799		
Phenol	29.0784	98.039	µg/L	30	10-93	Q35799		
Pyrene	95.1372	98.039	µg/L	97	52-127	Q35799		
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:								
225850 1,2,4-Trichlorobenzene	63.9019	98.039	µg/L	65	21-105	8	0 - 36	Q35799
1,4-Dichlorobenzene	62.7450	98.039	µg/L	64	19-99	5	0 - 36	Q35799
2,4-Dinitrotoluene	95.0588	98.039	µg/L	97	48-126	1	0 - 29	Q35799
2-Chlorophenol	62.7843	98.039	µg/L	64	19-104	8	0 - 35	Q35799
4-Chloro-3-methylphenol	77.2941	98.039	µg/L	79	35-115	5	0 - 33	Q35799
4-Nitrophenol	35.5098	98.039	µg/L	36	10-116	16	0 - 50	Q35799
Acenaphthene	80.5294	98.039	µg/L	82	35-112	23	# 0 - 20	Q35799
N-Nitrosodi-n-propylamine	80.7058	98.039	µg/L	82	27-105	3	0 - 36	Q35799
Pentachlorophenol	95.4509	98.039	µg/L	97	62-119	5	0 - 21	Q35799
Phenol	29.0980	98.039	µg/L	30	10-93	0	0 - 39	Q35799
Pyrene	89.1568	98.039	µg/L	91	52-127	6	0 - 15	Q35799

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

## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634

Date/Time Submitted: 9/24/08 11:30

### Mercury by CVAA, method 7470A

Method Blank						QC Batch ID		
	Result	RL	Control Limit	Units				
Mercury	-0.00008	0.0002	<0.0001	mg/L		Q35913		
<b>Laboratory Control Sample</b>								
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Mercury	0.00959	0.0093	mg/L	102	80-120	Q35913		
<b>Matrix Spike</b>								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
225833 Mercury	0.00684	0.0093	mg/L	74 #	80-120	Q35913		
<b>Matrix Spike Duplicate</b>								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
225833 Mercury	0.00694	0.0093	mg/L	75 #	80-120	1	0 - 20	Q35913

### Cyanide by Colorimetric Method, method 9014

Method Blank						QC Batch ID		
	Result	RL	Control Limit	Units				
Cyanide, Total	0.0016	0.005	<0.0025	mg/L		Q35970		
<b>Laboratory Control Sample</b>								
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Cyanide, Total	0.0948	0.1	mg/L	95	80-120	Q35970		
<b>Matrix Spike</b>								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
226350 Cyanide, Total	0.0968	0.11	mg/L	87	80-120	Q35970		
<b>Matrix Spike Duplicate</b>								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
226350 Cyanide, Total	0.0930	0.11	mg/L	84	80-120	4	0 - 20	Q35970



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# Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908634  
Date/Time Submitted: 9/24/08 11:30

## Cyanide by Spectrophotometric Method, method 9014

					QC Batch ID
Method Blank	Result	RL	Control Limit	Units	
Cyanide, Total	0.0782	0.5	<0.25	mg/kg	Q35971
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Cyanide, Total	4.738	5	mg/kg	95	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 225849 Cyanide, Total	4.438	5	mg/kg	87	80-120
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 225849 Cyanide, Total	4.815	5	mg/kg	95	80-120
				8	0 - 20 Q35971

## Mercury by CVAA, method 7471A

					QC Batch ID
Method Blank	Result	RL	Control Limit	Units	
Mercury	-0.00618	0.02	<0.01	mg/kg	Q36055
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Mercury	0.42678	0.417	mg/kg	102	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 225849 Mercury	0.42510	0.4048	mg/kg	103	80-120
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 225849 Mercury	0.43109	0.3847	mg/kg	110	80-120
				1	0 - 20 Q36055

#See Case Narrative



## Case Narrative



Date: 10/16/08  
Company: MACTEC Eng. & Consulting, Inc  
Contact: Susan Kelly  
Address: 1308 Patton Avenue  
Asheville, NC 28806

Client Project ID: Mills Gap  
Prism COC Group No: G0908772  
Collection Date(s): 09/25/08  
Lab Submittal Date(s): 09/30/08

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 61 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

Analysis Note for Q35902 8270 - No MS/MSD for this batch.

### Volatile Analysis

No Anomalies Reported

### Metals Analysis

Analysis Note for Q35843 Method Blank Manganese: MB is greater than 1/2 the reporting limit.

Analysis Note for Q35843 MS Antimony: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (71%) is outside the acceptance limits (75-125%).

Analysis Note for Q35843 MS Arsenic: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (75 %) is within the acceptance limits (75-125%).

Analysis Note for Q35843 MS Beryllium: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (70%) is outside the acceptance limits (75-125%).

Analysis Note for Q35843 MS Cadmium: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (62%) is outside the acceptance limits (75-125%).

Analysis Note for Q35843 MS Chromium: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (67%) is outside the acceptance limits (75-125%).

Analysis Note for Q35843 MS Lead: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (67%) is outside the acceptance limits (75-125%).

Analysis Note for Q35843 MS Manganese: Sample concentration too high for recovery evaluation.

Analysis Note for Q35843 MS Nickel: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (63%) is outside the acceptance limits (75-125%).

Analysis Note for Q35843 MS Selenium: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (75%) is within the acceptance limits (75-125%).

Analysis Note for Q35843 MS Thallium: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (60%) is outside the acceptance limits (75-125%).

Analysis Note for Q35843 MS Zinc: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (73%) is outside the acceptance limits (75-125%).

Analysis Note for Q35843 MSD Antimony: Matrix interference is suspected.

Analysis Note for Q35843 MSD Arsenic: Matrix interference is suspected.

Analysis Note for Q35843 MSD Beryllium: Matrix interference is suspected.

Analysis Note for Q35843 MSD Cadmium: Matrix interference is suspected.

Analysis Note for Q35843 MSD Chromium: Matrix interference is suspected.

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## Case Narrative

Date: 10/16/08  
Company: MACTEC Eng. & Consulting, Inc  
Contact: Susan Kelly  
Address: 1308 Patton Avenue  
Asheville, NC 28806

Client Project ID: Mills Gap  
Prism COC Group No: G0908772  
Collection Date(s): 09/25/08  
Lab Submittal Date(s): 09/30/08

Analysis Note for Q35843 MSD Lead: Matrix interference is suspected.

Analysis Note for Q35843 MSD Manganese: Sample concentration too high for recovery evaluation.

Analysis Note for Q35843 MSD Nickel: Matrix interference is suspected.

Analysis Note for Q35843 MSD Selenium: Matrix interference is suspected.

Analysis Note for Q35843 MSD Thallium: Matrix interference is suspected.

Analysis Note for Q35843 MSD Zinc: Matrix interference is suspected.

Analysis Note for Q35913 MS Mercury: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (83%) is outside the acceptance limits (85-115%).

Analysis Note for Q35913 MSD Mercury: MSD recovery outside the control limits.

### Wet Lab and Micro Analysis

Analysis Note for Q36026 MS Cyanide, Total: MS recovery outside of the control limits.

Analysis Note for Q36026 MSD Cyanide, Total: MSD recovery outside the control limits.

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

Date Reviewed by:	Paula A. Gilleland	Project Manager:	Paula A. Gilleland
Signature:		Signature:	
Review Date:	10/16/08	Approval Date:	10/16/08

### **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.

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# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-03  
Prism Sample ID: 226345  
COC Group: G0908772  
Time Collected: 09/25/08  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 20:48	Iwtry	Q35792
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 20:48	Iwtry	Q35792
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	10/01/08 20:48	Iwtry	Q35792
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	10/01/08 20:48	Iwtry	Q35792
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 20:48	Iwtry	Q35792
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	10/01/08 20:48	Iwtry	Q35792
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 20:48	Iwtry	Q35792
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	10/01/08 20:48	Iwtry	Q35792
Acetone	13	µg/L	10	0.44	1	8260B	10/01/08 20:48	Iwtry	Q35792

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NC Drinking Water Cert. No. 37735

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-03  
Prism Sample ID: 226345  
COC Group: G0908772  
Time Collected: 09/25/08  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	10/01/08 20:48	Iwtry	Q35792
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	10/01/08 20:48	Iwtry	Q35792
Benzene	BRL	µg/L	1.0	0.094	1	8260B	10/01/08 20:48	Iwtry	Q35792
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	10/01/08 20:48	Iwtry	Q35792
Bromoform	BRL	µg/L	1.0	0.085	1	8260B	10/01/08 20:48	Iwtry	Q35792
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	10/01/08 20:48	Iwtry	Q35792
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 20:48	Iwtry	Q35792
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	10/01/08 20:48	Iwtry	Q35792
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	10/01/08 20:48	Iwtry	Q35792
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	10/01/08 20:48	Iwtry	Q35792
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 20:48	Iwtry	Q35792
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	10/01/08 20:48	Iwtry	Q35792
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	10/01/08 20:48	Iwtry	Q35792
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	10/01/08 20:48	Iwtry	Q35792
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	10/01/08 20:48	Iwtry	Q35792
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 20:48	Iwtry	Q35792
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	10/01/08 20:48	Iwtry	Q35792
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	10/01/08 20:48	Iwtry	Q35792
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	10/01/08 20:48	Iwtry	Q35792
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/01/08 20:48	Iwtry	Q35792
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	10/01/08 20:48	Iwtry	Q35792
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	10/01/08 20:48	Iwtry	Q35792
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	10/01/08 20:48	Iwtry	Q35792
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	10/01/08 20:48	Iwtry	Q35792
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	10/01/08 20:48	Iwtry	Q35792
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	10/01/08 20:48	Iwtry	Q35792
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	10/01/08 20:48	Iwtry	Q35792

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-03  
Prism Sample ID: 226345  
COC Group: G0908772  
Time Collected: 09/25/08  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	10/01/08 20:48	Iwtry	Q35792
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	10/01/08 20:48	Iwtry	Q35792
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	10/01/08 20:48	Iwtry	Q35792
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	10/01/08 20:48	Iwtry	Q35792
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	10/01/08 20:48	Iwtry	Q35792
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/01/08 20:48	Iwtry	Q35792
Styrene	BRL	µg/L	1.0	0.11	1	8260B	10/01/08 20:48	Iwtry	Q35792
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	10/01/08 20:48	Iwtry	Q35792
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	10/01/08 20:48	Iwtry	Q35792
Toluene	BRL	µg/L	1.0	0.31	1	8260B	10/01/08 20:48	Iwtry	Q35792
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	10/01/08 20:48	Iwtry	Q35792
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	10/01/08 20:48	Iwtry	Q35792
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	10/01/08 20:48	Iwtry	Q35792
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	10/01/08 20:48	Iwtry	Q35792
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	10/01/08 20:48	Iwtry	Q35792
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	10/01/08 20:48	Iwtry	Q35792

Surrogate	% Recovery	Control Limits
Toluene-d8	98	75 - 121
Dibromofluoromethane	96	74 - 133
Bromofluorobenzene	100	69 - 139

TIC's By 8260

Est.Conc      Units

No TICs were detected.



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

## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-03  
Prism Sample ID: 226345  
COC Group: G0908772  
Time Collected: 09/25/08  
Time Submitted: 09/30/08 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

A handwritten signature in black ink, appearing to read "RL".

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Angela D. Overcash, V.P. Laboratory Services



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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-2  
Prism Sample ID: 226346  
COC Group: G0908772  
Time Collected: 09/25/08 9:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>	85.8	%			1	SM2540 G	10/01/08 9:00	dsullivan	
Percent Solids									
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	5.3	0.51	1	8260B	10/02/08 14:47	Iwity	Q35830
1,1,1-Trichloroethane	3.0 J	µg/kg	5.3	0.55	1	8260B	10/02/08 14:47	Iwity	Q35830
1,1,2,2-Tetrachloroethane	BRL	µg/kg	5.3	0.59	1	8260B	10/02/08 14:47	Iwity	Q35830
1,1,2-Trichloroethane	BRL	µg/kg	5.3	0.35	1	8260B	10/02/08 14:47	Iwity	Q35830
1,1-Dichloroethane	BRL	µg/kg	5.3	0.55	1	8260B	10/02/08 14:47	Iwity	Q35830
1,1-Dichloroethene	BRL	µg/kg	5.3	0.68	1	8260B	10/02/08 14:47	Iwity	Q35830
1,1-Dichloropropene	BRL	µg/kg	5.3	0.75	1	8260B	10/02/08 14:47	Iwity	Q35830
1,2,3-Trichlorobenzene	BRL	µg/kg	11	0.82	1	8260B	10/02/08 14:47	Iwity	Q35830
1,2,3-Trichloropropane	BRL	µg/kg	5.3	0.62	1	8260B	10/02/08 14:47	Iwity	Q35830
1,2,4-Trichlorobenzene	BRL	µg/kg	11	0.85	1	8260B	10/02/08 14:47	Iwity	Q35830
1,2,4-Trimethylbenzene	140	µg/kg	11	0.75	1	8260B	10/02/08 14:47	Iwity	Q35830
1,2-Dibromo-3-chloropropane	BRL	µg/kg	5.3	0.63	1	8260B	10/02/08 14:47	Iwity	Q35830
1,2-Dibromoethane (EDB)	BRL	µg/kg	5.3	0.59	1	8260B	10/02/08 14:47	Iwity	Q35830
1,2-Dichlorobenzene	BRL	µg/kg	11	0.61	1	8260B	10/02/08 14:47	Iwity	Q35830
1,2-Dichloroethane	BRL	µg/kg	5.3	0.61	1	8260B	10/02/08 14:47	Iwity	Q35830
1,2-Dichloropropane	BRL	µg/kg	5.3	0.54	1	8260B	10/02/08 14:47	Iwity	Q35830
1,3,5-Trimethylbenzene	53	µg/kg	11	0.62	1	8260B	10/02/08 14:47	Iwity	Q35830
1,3-Dichlorobenzene	BRL	µg/kg	11	0.76	1	8260B	10/02/08 14:47	Iwity	Q35830
1,3-Dichloropropane	BRL	µg/kg	5.3	0.63	1	8260B	10/02/08 14:47	Iwity	Q35830
1,4-Dichlorobenzene	BRL	µg/kg	11	0.65	1	8260B	10/02/08 14:47	Iwity	Q35830
2,2-Dichloropropane	BRL	µg/kg	5.3	0.48	1	8260B	10/02/08 14:47	Iwity	Q35830
2-Chloroethyl vinyl ether	BRL	µg/kg	11	0.54	1	8260B	10/02/08 14:47	Iwity	Q35830
2-Chlorotoluene	BRL	µg/kg	11	0.62	1	8260B	10/02/08 14:47	Iwity	Q35830
2-Hexanone	BRL	µg/kg	53	0.39	1	8260B	10/02/08 14:47	Iwity	Q35830

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-2  
Prism Sample ID: 226346  
COC Group: G0908772  
Time Collected: 09/25/08 9:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	11	0.77	1	8260B	10/02/08 14:47	Iwtry	Q35830
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	11	1.1	1	8260B	10/02/08 14:47	Iwtry	Q35830
Acetone	290 E	µg/kg	21	1.6	1	8260B	10/02/08 14:47	Iwtry	Q35830
* Analysis Note for Acetone: E - Estimated concentration greater than the instrument calibration range. The analysis was repeated at a 50x dilution, but the compound was diluted out.									
Benzene	BRL	µg/kg	3.2	0.63	1	8260B	10/02/08 14:47	Iwtry	Q35830
Bromobenzene	BRL	µg/kg	5.3	0.62	1	8260B	10/02/08 14:47	Iwtry	Q35830
Bromochloromethane	BRL	µg/kg	5.3	0.70	1	8260B	10/02/08 14:47	Iwtry	Q35830
Bromodichloromethane	BRL	µg/kg	5.3	0.55	1	8260B	10/02/08 14:47	Iwtry	Q35830
Bromoform	BRL	µg/kg	5.3	0.63	1	8260B	10/02/08 14:47	Iwtry	Q35830
Bromomethane	BRL	µg/kg	11	1.6	1	8260B	10/02/08 14:47	Iwtry	Q35830
Carbon disulfide	BRL	µg/kg	11	0.78	1	8260B	10/02/08 14:47	Iwtry	Q35830
Carbon tetrachloride	BRL	µg/kg	5.3	0.45	1	8260B	10/02/08 14:47	Iwtry	Q35830
Chlorobenzene	BRL	µg/kg	5.3	0.56	1	8260B	10/02/08 14:47	Iwtry	Q35830
Chlorodibromomethane	BRL	µg/kg	5.3	0.60	1	8260B	10/02/08 14:47	Iwtry	Q35830
Chloroethane	BRL	µg/kg	11	1.4	1	8260B	10/02/08 14:47	Iwtry	Q35830
Chloroform	BRL	µg/kg	5.3	0.53	1	8260B	10/02/08 14:47	Iwtry	Q35830
Chloromethane	BRL	µg/kg	11	0.78	1	8260B	10/02/08 14:47	Iwtry	Q35830
cis-1,2-Dichloroethylene	BRL	µg/kg	5.3	0.84	1	8260B	10/02/08 14:47	Iwtry	Q35830
cis-1,3-Dichloropropene	BRL	µg/kg	5.3	0.59	1	8260B	10/02/08 14:47	Iwtry	Q35830
Dibromomethane	BRL	µg/kg	5.3	0.66	1	8260B	10/02/08 14:47	Iwtry	Q35830
Dichlorodifluoromethane	BRL	µg/kg	11	0.86	1	8260B	10/02/08 14:47	Iwtry	Q35830
Ethylbenzene	4.3 J	µg/kg	5.3	0.63	1	8260B	10/02/08 14:47	Iwtry	Q35830
Hexachlorobutadiene	BRL	µg/kg	16	0.89	1	8260B	10/02/08 14:47	Iwtry	Q35830
Isopropyl ether (IPE)	BRL	µg/kg	5.3	0.45	1	8260B	10/02/08 14:47	Iwtry	Q35830
Isopropylbenzene	5.7 J	µg/kg	11	0.79	1	8260B	10/02/08 14:47	Iwtry	Q35830
m,p-Xylenes	25	µg/kg	11	1.3	1	8260B	10/02/08 14:47	Iwtry	Q35830
Methyl ethyl ketone (MEK)	45	µg/kg	21	0.81	1	8260B	10/02/08 14:47	Iwtry	Q35830

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-2  
Prism Sample ID: 226346  
COC Group: G0908772  
Time Collected: 09/25/08 9:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl t-butyl ether (MTBE)	BRL	µg/kg	5.3	0.53	1	8260B	10/02/08 14:47	Iwtry	Q35830
Methylene chloride	BRL	µg/kg	11	0.63	1	8260B	10/02/08 14:47	Iwtry	Q35830
n-Butylbenzene	37	µg/kg	16	0.70	1	8260B	10/02/08 14:47	Iwtry	Q35830
n-Propylbenzene	18	µg/kg	11	0.61	1	8260B	10/02/08 14:47	Iwtry	Q35830
Naphthalene	15	µg/kg	5.3	1.6	1	8260B	10/02/08 14:47	Iwtry	Q35830
o-Xylene	19	µg/kg	5.3	0.66	1	8260B	10/02/08 14:47	Iwtry	Q35830
p-Isopropyltoluene	12 J	µg/kg	16	0.77	1	8260B	10/02/08 14:47	Iwtry	Q35830
sec-Butylbenzene	15 J	µg/kg	16	0.76	1	8260B	10/02/08 14:47	Iwtry	Q35830
Styrene	BRL	µg/kg	5.3	0.59	1	8260B	10/02/08 14:47	Iwtry	Q35830
tert-Butylbenzene	BRL	µg/kg	21	0.72	1	8260B	10/02/08 14:47	Iwtry	Q35830
Tetrachloroethene	170	µg/kg	11	0.63	1	8260B	10/02/08 14:47	Iwtry	Q35830
Toluene	BRL	µg/kg	5.3	0.58	1	8260B	10/02/08 14:47	Iwtry	Q35830
trans-1,2-Dichloroethene	BRL	µg/kg	5.3	0.64	1	8260B	10/02/08 14:47	Iwtry	Q35830
trans-1,3-Dichloropropene	BRL	µg/kg	5.3	0.85	1	8260B	10/02/08 14:47	Iwtry	Q35830
Trichloroethene	2300	µg/kg	260	43	50	8260B	10/06/08 16:08	Iwtry	Q35830
Trichlorofluoromethane	BRL	µg/kg	5.3	0.76	1	8260B	10/02/08 14:47	Iwtry	Q35830
Vinyl chloride	BRL	µg/kg	11	0.75	1	8260B	10/02/08 14:47	Iwtry	Q35830

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-2  
Prism Sample ID: 226346  
COC Group: G0908772  
Time Collected: 09/25/08 9:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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One surrogate recovery was outside of the control limits. Matrix interference is suspected.

Surrogate	% Recovery	Control Limits
Toluene-d8	97	81 - 128
Dibromofluoromethane	94	67 - 143
Bromofluorobenzene	131 #	77 - 128

TIC's By 8260	Est.Conc	Units
Unknown hydrocarbon	62	µg/kg
Unknown cyclic hydrocarbon	80	µg/kg
Trimethyl benzene isomer	64	µg/kg
Tridecane	170	µg/kg
Tetradecane	120	µg/kg
Methyl undecane isomer	68	µg/kg
Methyl propyl benzene isomer	60	µg/kg
Dodecane	200	µg/kg
Dimethyl undecane isomer	100	µg/kg
2-Methyl naphthalene	140	µg/kg

#### Sample Weight Determination

Weight Bisulfate 1	5.55	g	1	5035	10/01/08 0:00	Ibrown
Weight Bisulfate 2	5.93	g	1	5035	10/01/08 0:00	Ibrown
Weight Methanol	5.62	g	1	5035	10/01/08 0:00	Ibrown

#### Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	390	42	1	8270C	10/02/08 16:39	kcampigotto	Q35801
1,2-Dichlorobenzene	BRL	µg/kg	390	43	1	8270C	10/02/08 16:39	kcampigotto	Q35801
1,3-Dichlorobenzene	BRL	µg/kg	390	37	1	8270C	10/02/08 16:39	kcampigotto	Q35801
1,4-Dichlorobenzene	BRL	µg/kg	390	46	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2,4,5-Trichlorophenol	BRL	µg/kg	390	46	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2,4,6-Trichlorophenol	BRL	µg/kg	390	41	1	8270C	10/02/08 16:39	kcampigotto	Q35801

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-2  
Prism Sample ID: 226346  
COC Group: G0908772  
Time Collected: 09/25/08 9:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,4-Dichlorophenol	BRL	µg/kg	390	25	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2,4-Dimethylphenol	BRL	µg/kg	390	57	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2,4-Dinitrophenol	BRL	µg/kg	390	110	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2,4-Dinitrotoluene	BRL	µg/kg	390	51	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2,6-Dinitrotoluene	BRL	µg/kg	390	69	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2-Chloronaphthalene	BRL	µg/kg	390	48	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2-Chlorophenol	BRL	µg/kg	390	16	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2-Methylnaphthalene	BRL	µg/kg	390	43	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2-Methylphenol	BRL	µg/kg	390	31	1	8270C	10/02/08 16:39	kcampigotto	Q35801
2-Nitrophenol	BRL	µg/kg	390	54	1	8270C	10/02/08 16:39	kcampigotto	Q35801
3&4-Methylphenol	BRL	µg/kg	390	45	1	8270C	10/02/08 16:39	kcampigotto	Q35801
3,3'-Dichlorobenzidine	BRL	µg/kg	390	70	1	8270C	10/02/08 16:39	kcampigotto	Q35801
4,6-Dinitro-2-methylphenol	BRL	µg/kg	390	33	1	8270C	10/02/08 16:39	kcampigotto	Q35801
4-Bromophenylphenylether	BRL	µg/kg	390	48	1	8270C	10/02/08 16:39	kcampigotto	Q35801
4-Chloro-3-methylphenol	BRL	µg/kg	390	46	1	8270C	10/02/08 16:39	kcampigotto	Q35801
4-Chlorophenylphenylether	BRL	µg/kg	390	49	1	8270C	10/02/08 16:39	kcampigotto	Q35801
4-Nitrophenol	BRL	µg/kg	390	49	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Acenaphthene	BRL	µg/kg	390	52	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Acenaphthylene	BRL	µg/kg	390	36	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Anthracene	BRL	µg/kg	390	28	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Benzo(a)anthracene	BRL	µg/kg	390	43	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Benzo(a)pyrene	BRL	µg/kg	390	49	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Benzo(b)fluoranthene	BRL	µg/kg	390	79	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Benzo(g,h,i)perylene	BRL	µg/kg	390	49	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Benzo(k)fluoranthene	BRL	µg/kg	390	100	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Bis(2-chloroethoxy)methane	BRL	µg/kg	390	65	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Bis(2-chloroethyl)ether	BRL	µg/kg	390	48	1	8270C	10/02/08 16:39	kcampigotto	Q35801

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-2  
Prism Sample ID: 226346  
COC Group: G0908772  
Time Collected: 09/25/08 9:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	µg/kg	390	39	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	390	30	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Butylbenzylphthalate	BRL	µg/kg	390	47	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Chrysene	BRL	µg/kg	390	26	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Di-n-butylphthalate	BRL	µg/kg	390	62	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Di-n-octylphthalate	BRL	µg/kg	390	110	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Dibenz(a,h)anthracene	BRL	µg/kg	390	36	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Dibenzofuran	BRL	µg/kg	390	47	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Diethylphthalate	BRL	µg/kg	390	99	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Dimethylphthalate	BRL	µg/kg	390	57	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Fluoranthene	BRL	µg/kg	390	68	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Fluorene	BRL	µg/kg	390	55	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Hexachlorobenzene	BRL	µg/kg	390	53	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Hexachlorobutadiene	BRL	µg/kg	390	38	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Hexachlorocyclopentadiene	BRL	µg/kg	390	57	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Hexachloroethane	BRL	µg/kg	390	16	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	390	37	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Isophorone	BRL	µg/kg	390	37	1	8270C	10/02/08 16:39	kcampigotto	Q35801
N-Nitrosodi-n-propylamine	BRL	µg/kg	390	22	1	8270C	10/02/08 16:39	kcampigotto	Q35801
N-Nitrosodiphenylamine	BRL	µg/kg	390	56	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Naphthalene	BRL	µg/kg	390	46	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Nitrobenzene	BRL	µg/kg	390	48	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Pentachlorophenol	BRL	µg/kg	390	59	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Phenanthrene	600	µg/kg	390	33	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Phenol	BRL	µg/kg	390	68	1	8270C	10/02/08 16:39	kcampigotto	Q35801
Pyrene	BRL	µg/kg	390	74	1	8270C	10/02/08 16:39	kcampigotto	Q35801

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-2  
Prism Sample ID: 226346  
COC Group: G0908772  
Time Collected: 09/25/08 9:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:	29.97 g	/		1 mL		3550B	10/01/08 8:30	jbarrette	P22672
<hr/>									
<hr/>									
Surrogate							% Recovery	Control Limits	
Terphenyl-d14							75	41 - 136	
Phenol-d5							73	13 - 95	
Nitrobenzene-d5							76	14 - 103	
2-Fluorophenol							65	14 - 89	
2-Fluorobiphenyl							69	21 - 108	
2,4,6-Tribromophenol							92	25 - 123	

TIC's By 8270	Est.Conc	Units
Unknown hydrocarbon	8500	ug/kg
Unknown hydrocarbon	2300	ug/kg
Trimethylnaphthalene	5500	ug/kg
Trimethylnaphthalene	3200	ug/kg
Tridecane	2600	ug/kg
Tetradecane	7600	ug/kg
Hexadecane	2900	ug/kg
Hexadecane	1900	ug/kg
Heptadecane	5200	ug/kg
Dimethylnaphthalene	6200	ug/kg

Cyanide by Spectrophotometric Method      BRL      mg/kg      0.58      0.20      1      9014      10/09/08 16:44      heasler      Q36026

Cyanide, Total

Sample Preparation:      1 g      /      50 mL      9010B      10/07/08 14:50      rloftin      P22741

Mercury by CVAA      BRL      mg/kg      0.023      0.0027      1      7471A      10/10/08 17:45      heasler      Q36055

Mercury

Sample Preparation:      0.6 g      /      50 mL      7471A      10/10/08 11:35      mbarber      P22765

Metals by ICP      0.72      mg/kg      0.23      0.061      1      6010B      10/02/08 22:05      mcampbell      Q35843

Antimony

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NC Certification No. 402  
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## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-2  
Prism Sample ID: 226346  
COC Group: G0908772  
Time Collected: 09/25/08 9:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Arsenic	3.3	mg/kg	0.57	0.076	1	6010B	10/02/08 22:05	mcampbell	Q35843
Beryllium	2.1	mg/kg	0.29	0.0069	1	6010B	10/02/08 22:05	mcampbell	Q35843
Cadmium	1.0	mg/kg	0.29	0.0069	1	6010B	10/02/08 22:05	mcampbell	Q35843
Chromium	49	mg/kg	0.29	0.016	1	6010B	10/02/08 22:05	mcampbell	Q35843
Copper	15	mg/kg	0.57	0.25	1	6010B	10/02/08 22:05	mcampbell	Q35843
Lead	12	mg/kg	0.29	0.018	1	6010B	10/02/08 22:05	mcampbell	Q35843
Manganese	770	mg/kg	2.9	0.34	10	6010B	10/03/08 19:12	mcampbell	Q35843
Nickel	32	mg/kg	0.57	0.069	1	6010B	10/02/08 22:05	mcampbell	Q35843
Selenium	BRL	mg/kg	0.57	0.11	1	6010B	10/02/08 22:05	mcampbell	Q35843
Silver	0.67	mg/kg	0.29	0.018	1	6010B	10/02/08 22:05	mcampbell	Q35843
Thallium	BRL	mg/kg	0.57	0.10	1	6010B	10/02/08 22:05	mcampbell	Q35843
Zinc	130	mg/kg	2.9	0.21	1	6010B	10/02/08 22:05	mcampbell	Q35843
Sample Preparation:			2.03 g	/	50 mL	3050B	10/02/08 7:25	mbarber	P22688

### 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 dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: FD-01  
Prism Sample ID: 226347  
COC Group: G0908772  
Time Collected: 09/25/08 12:01  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Percent Solids Determination</b>									
Percent Solids	82.0	%			1	SM2540 G	10/01/08 9:00	dsullivan	
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	5.4	0.53	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,1,1-Trichloroethane	3600	µg/kg	550	58	100	8260B	10/06/08 21:11	Iwtry	Q35830
1,1,2,2-Tetrachloroethane	BRL	µg/kg	5.4	0.61	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,1,2-Trichloroethane	BRL	µg/kg	5.4	0.36	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,1-Dichloroethane	BRL	µg/kg	5.4	0.56	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,1-Dichloroethene	74	µg/kg	5.4	0.70	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,1-Dichloropropene	BRL	µg/kg	5.4	0.77	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,2,3-Trichlorobenzene	BRL	µg/kg	11	0.84	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,2,3-Trichloropropane	BRL	µg/kg	5.4	0.64	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,2,4-Trichlorobenzene	BRL	µg/kg	11	0.88	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,2,4-Trimethylbenzene	30000	µg/kg	5500	390	500	8260B	10/06/08 19:54	Iwtry	Q35830
1,2-Dibromo-3-chloropropane	BRL	µg/kg	5.4	0.65	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,2-Dibromoethane (EDB)	BRL	µg/kg	5.4	0.61	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,2-Dichlorobenzene	BRL	µg/kg	11	0.63	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,2-Dichloroethane	BRL	µg/kg	5.4	0.63	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,2-Dichloropropane	BRL	µg/kg	5.4	0.55	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,3,5-Trimethylbenzene	12000	µg/kg	5500	330	500	8260B	10/06/08 19:54	Iwtry	Q35830
1,3-Dichlorobenzene	BRL	µg/kg	11	0.78	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,3-Dichloropropane	BRL	µg/kg	5.4	0.65	1	8260B	10/02/08 22:18	Iwtry	Q35830
1,4-Dichlorobenzene	BRL	µg/kg	11	0.67	1	8260B	10/02/08 22:18	Iwtry	Q35830
2,2-Dichloropropane	BRL	µg/kg	5.4	0.50	1	8260B	10/02/08 22:18	Iwtry	Q35830
2-Chloroethyl vinyl ether	BRL	µg/kg	11	0.55	1	8260B	10/02/08 22:18	Iwtry	Q35830
2-Chlorotoluene	BRL	µg/kg	11	0.64	1	8260B	10/02/08 22:18	Iwtry	Q35830
2-Hexanone	BRL	µg/kg	54	0.40	1	8260B	10/02/08 22:18	Iwtry	Q35830

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: FD-01  
Prism Sample ID: 226347  
COC Group: G0908772  
Time Collected: 09/25/08 12:01  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	11	0.79	1	8260B	10/02/08 22:18	Iwtry	Q35830
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	11	1.1	1	8260B	10/02/08 22:18	Iwtry	Q35830
Acetone	120	µg/kg	22	1.6	1	8260B	10/02/08 22:18	Iwtry	Q35830
Benzene	350	µg/kg	330	67	100	8260B	10/06/08 21:11	Iwtry	Q35830
Bromobenzene	BRL	µg/kg	5.4	0.64	1	8260B	10/02/08 22:18	Iwtry	Q35830
Bromochloromethane	BRL	µg/kg	5.4	0.72	1	8260B	10/02/08 22:18	Iwtry	Q35830
Bromodichloromethane	BRL	µg/kg	5.4	0.56	1	8260B	10/02/08 22:18	Iwtry	Q35830
Bromoform	BRL	µg/kg	5.4	0.65	1	8260B	10/02/08 22:18	Iwtry	Q35830
Bromomethane	BRL	µg/kg	11	1.6	1	8260B	10/02/08 22:18	Iwtry	Q35830
Carbon disulfide	BRL	µg/kg	11	0.80	1	8260B	10/02/08 22:18	Iwtry	Q35830
Carbon tetrachloride	BRL	µg/kg	5.4	0.46	1	8260B	10/02/08 22:18	Iwtry	Q35830
Chlorobenzene	BRL	µg/kg	5.4	0.57	1	8260B	10/02/08 22:18	Iwtry	Q35830
Chlorodibromomethane	BRL	µg/kg	5.4	0.62	1	8260B	10/02/08 22:18	Iwtry	Q35830
Chloroethane	BRL	µg/kg	11	1.4	1	8260B	10/02/08 22:18	Iwtry	Q35830
Chloroform	BRL	µg/kg	5.4	0.54	1	8260B	10/02/08 22:18	Iwtry	Q35830
Chloromethane	BRL	µg/kg	11	0.80	1	8260B	10/02/08 22:18	Iwtry	Q35830
cis-1,2-Dichloroethene	17	µg/kg	5.4	0.86	1	8260B	10/02/08 22:18	Iwtry	Q35830
cis-1,3-Dichloropropene	BRL	µg/kg	5.4	0.61	1	8260B	10/02/08 22:18	Iwtry	Q35830
Dibromomethane	BRL	µg/kg	5.4	0.68	1	8260B	10/02/08 22:18	Iwtry	Q35830
Dichlorodifluoromethane	BRL	µg/kg	11	0.89	1	8260B	10/02/08 22:18	Iwtry	Q35830
Ethylbenzene	7700	µg/kg	550	67	100	8260B	10/06/08 21:11	Iwtry	Q35830
Hexachlorobutadiene	BRL	µg/kg	16	0.92	1	8260B	10/02/08 22:18	Iwtry	Q35830
Isopropyl ether (IPE)	BRL	µg/kg	5.4	0.46	1	8260B	10/02/08 22:18	Iwtry	Q35830
Isopropylbenzene	4300	µg/kg	1100	83	100	8260B	10/06/08 21:11	Iwtry	Q35830
m,p-Xylenes	15000	µg/kg	1100	140	100	8260B	10/06/08 21:11	Iwtry	Q35830
Methyl ethyl ketone (MEK)	BRL	µg/kg	22	0.83	1	8260B	10/02/08 22:18	Iwtry	Q35830
Methyl t-butyl ether (MTBE)	BRL	µg/kg	5.4	0.54	1	8260B	10/02/08 22:18	Iwtry	Q35830

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NC Certification No. 402  
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# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: FD-01  
Prism Sample ID: 226347  
COC Group: G0908772  
Time Collected: 09/25/08 12:01  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	11	0.65	1	8260B	10/02/08 22:18	Iwtry	Q35830
n-Butylbenzene	5600	µg/kg	1700	74	100	8260B	10/06/08 21:11	Iwtry	Q35830
n-Propylbenzene	7300	µg/kg	1100	64	100	8260B	10/06/08 21:11	Iwtry	Q35830
Naphthalene	45000	µg/kg	2800	850	500	8260B	10/06/08 19:54	Iwtry	Q35830
o-Xylene	14000	µg/kg	2800	350	500	8260B	10/06/08 19:54	Iwtry	Q35830
p-Isopropyltoluene	3900	µg/kg	1700	81	100	8260B	10/06/08 21:11	Iwtry	Q35830
sec-Butylbenzene	4700	µg/kg	1700	80	100	8260B	10/06/08 21:11	Iwtry	Q35830
Styrene	BRL	µg/kg	5.4	0.61	1	8260B	10/02/08 22:18	Iwtry	Q35830
tert-Butylbenzene	120 J	µg/kg	2200	76	100	8260B	10/06/08 21:11	Iwtry	Q35830
Tetrachloroethene	BRL	µg/kg	11	0.65	1	8260B	10/02/08 22:18	Iwtry	Q35830
Toluene	3100	µg/kg	550	61	100	8260B	10/06/08 21:11	Iwtry	Q35830
trans-1,2-Dichloroethene	BRL	µg/kg	5.4	0.66	1	8260B	10/02/08 22:18	Iwtry	Q35830
trans-1,3-Dichloropropene	BRL	µg/kg	5.4	0.88	1	8260B	10/02/08 22:18	Iwtry	Q35830
Trichloroethene	32000	µg/kg	2800	450	500	8260B	10/06/08 19:54	Iwtry	Q35830
Trichlorofluoromethane	BRL	µg/kg	5.4	0.78	1	8260B	10/02/08 22:18	Iwtry	Q35830
Vinyl chloride	BRL	µg/kg	11	0.77	1	8260B	10/02/08 22:18	Iwtry	Q35830

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# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: FD-01  
Prism Sample ID: 226347  
COC Group: G0908772  
Time Collected: 09/25/08 12:01  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
-----------	--------	-------	--------------	-----	-----------------	--------	--------------------	---------	----------

Surrogate recoveries were outside of the control limits. Matrix interference is suspected.

Surrogate	% Recovery	Control Limits
Toluene-d8	M #	81 - 128
Dibromofluoromethane	O #	67 - 143
Bromofluorobenzene	M #	77 - 128

TIC's By 8260	Est.Conc	Units
Unknown hydrocarbon	34	µg/kg
Unknown cyclic hydrocarbon	80	µg/kg
Unknown cyclic hydrocarbon	220	µg/kg
Trimethyl cyclohexane	140	µg/kg
Trimethyl benzene	73	µg/kg
Methyl octane	300	µg/kg
Methyl cyclohexane	44	µg/kg
Ethyl hexane	120	µg/kg
Ethyl cyclohexane	230	µg/kg
Diethyl heptane	66	µg/kg

#### Sample Weight Determination

Weight Bisulfate 1	5.64	g	1	5035	10/01/08 0:00	Ibrown
Weight Bisulfate 2	5.35	g	1	5035	10/01/08 0:00	Ibrown
Weight Methanol	5.50	g	1	5035	10/01/08 0:00	Ibrown

#### Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/kg	2000	220	5	8270C	10/02/08 17:41	kcampigotto	Q35801
1,2-Dichlorobenzene	BRL	µg/kg	2000	220	5	8270C	10/02/08 17:41	kcampigotto	Q35801
1,3-Dichlorobenzene	BRL	µg/kg	2000	200	5	8270C	10/02/08 17:41	kcampigotto	Q35801
1,4-Dichlorobenzene	BRL	µg/kg	2000	240	5	8270C	10/02/08 17:41	kcampigotto	Q35801
2,4,5-Trichlorophenol	BRL	µg/kg	2000	240	5	8270C	10/02/08 17:41	kcampigotto	Q35801
2,4,6-Trichlorophenol	BRL	µg/kg	2000	220	5	8270C	10/02/08 17:41	kcampigotto	Q35801

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: FD-01  
Prism Sample ID: 226347  
COC Group: G0908772  
Time Collected: 09/25/08 12:01  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,4-Dichlorophenol	BRL	µg/kg	2000	130	5	8270C	10/02/08 17:41	kcampigotto	Q35801
2,4-Dimethylphenol	BRL	µg/kg	2000	300	5	8270C	10/02/08 17:41	kcampigotto	Q35801
2,4-Dinitrophenol	BRL	µg/kg	2000	590	5	8270C	10/02/08 17:41	kcampigotto	Q35801
2,4-Dinitrotoluene	BRL	µg/kg	2000	270	5	8270C	10/02/08 17:41	kcampigotto	Q35801
2,6-Dinitrotoluene	BRL	µg/kg	2000	360	5	8270C	10/02/08 17:41	kcampigotto	Q35801
2-Chloronaphthalene	BRL	µg/kg	2000	250	5	8270C	10/02/08 17:41	kcampigotto	Q35801
2-Chlorophenol	BRL	µg/kg	2000	85	5	8270C	10/02/08 17:41	kcampigotto	Q35801
2-Methylnaphthalene	55000	µg/kg	8100	910	20	8270C	10/02/08 18:13	kcampigotto	Q35801
2-Methylphenol	BRL	µg/kg	2000	160	5	8270C	10/02/08 17:41	kcampigotto	Q35801
2-Nitrophenol	BRL	µg/kg	2000	280	5	8270C	10/02/08 17:41	kcampigotto	Q35801
3&4-Methylphenol	BRL	µg/kg	2000	240	5	8270C	10/02/08 17:41	kcampigotto	Q35801
3,3'-Dichlorobenzidine	BRL	µg/kg	2000	370	5	8270C	10/02/08 17:41	kcampigotto	Q35801
4,6-Dinitro-2-methylphenol	BRL	µg/kg	2000	170	5	8270C	10/02/08 17:41	kcampigotto	Q35801
4-Bromophenylphenylether	BRL	µg/kg	2000	250	5	8270C	10/02/08 17:41	kcampigotto	Q35801
4-Chloro-3-methylphenol	BRL	µg/kg	2000	240	5	8270C	10/02/08 17:41	kcampigotto	Q35801
4-Chlorophenylphenylether	BRL	µg/kg	2000	260	5	8270C	10/02/08 17:41	kcampigotto	Q35801
4-Nitrophenol	BRL	µg/kg	2000	260	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Acenaphthene	BRL	µg/kg	2000	270	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Acenaphthylene	BRL	µg/kg	2000	190	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Anthracene	BRL	µg/kg	2000	150	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Benzo(a)anthracene	BRL	µg/kg	2000	230	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Benzo(a)pyrene	BRL	µg/kg	2000	260	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Benzo(b)fluoranthene	BRL	µg/kg	2000	410	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Benzo(g,h,i)perylene	BRL	µg/kg	2000	260	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Benzo(k)fluoranthene	BRL	µg/kg	2000	540	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Bis(2-chloroethoxy)methane	BRL	µg/kg	2000	340	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Bis(2-chloroethyl)ether	BRL	µg/kg	2000	250	5	8270C	10/02/08 17:41	kcampigotto	Q35801

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

## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: FD-01  
Prism Sample ID: 226347  
COC Group: G0908772  
Time Collected: 09/25/08 12:01  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	µg/kg	2000	200	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	2000	160	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Butylbenzylphthalate	BRL	µg/kg	2000	250	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Chrysene	BRL	µg/kg	2000	140	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Di-n-butylphthalate	BRL	µg/kg	2000	320	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Di-n-octylphthalate	BRL	µg/kg	2000	580	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Dibenzo(a,h)anthracene	BRL	µg/kg	2000	190	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Dibenzofuran	BRL	µg/kg	2000	250	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Diethylphthalate	BRL	µg/kg	2000	520	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Dimethylphthalate	BRL	µg/kg	2000	300	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Fluoranthene	BRL	µg/kg	2000	360	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Fluorene	5900	µg/kg	2000	290	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Hexachlorobenzene	BRL	µg/kg	2000	280	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Hexachlorobutadiene	BRL	µg/kg	2000	200	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Hexachlorocyclopentadiene	BRL	µg/kg	2000	300	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Hexachloroethane	BRL	µg/kg	2000	83	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	2000	190	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Isophorone	BRL	µg/kg	2000	190	5	8270C	10/02/08 17:41	kcampigotto	Q35801
N-Nitrosodi-n-propylamine	BRL	µg/kg	2000	120	5	8270C	10/02/08 17:41	kcampigotto	Q35801
N-Nitrosodiphenylamine	BRL	µg/kg	2000	290	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Naphthalene	20000	µg/kg	2000	240	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Nitrobenzene	BRL	µg/kg	2000	250	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Pentachlorophenol	BRL	µg/kg	2000	310	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Phenanthrene	18000	µg/kg	2000	170	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Phenol	BRL	µg/kg	2000	360	5	8270C	10/02/08 17:41	kcampigotto	Q35801
Pyrene	1000 J	µg/kg	2000	390	5	8270C	10/02/08 17:41	kcampigotto	Q35801

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: FD-01  
Prism Sample ID: 226347  
COC Group: G0908772  
Time Collected: 09/25/08 12:01  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:	29.83 g	/		1 mL	3550B	10/01/08 8:30	jbarnette	P22672	
<hr/>									
							Surrogate	% Recovery	Control Limits
							Terphenyl-d14	60	41 - 136
							Phenol-d5	22	13 - 95
							Nitrobenzene-d5	93	14 - 103
							2-Fluorophenol	22	14 - 89
							2-Fluorobiphenyl	63	21 - 108
							2,4,6-Tribromophenol	64	25 - 123

TIC's By 8270	Est.Conc	Units
Unknown aromatic	11000	ug/kg
Unknown aliphatic	6800	ug/kg
Unknown aliphatic	64000	ug/kg
Unknown aliphatic	22000	ug/kg
Tetradecane	6500	ug/kg
Octadecane	10000	ug/kg
Nonadecane	12000	ug/kg
Hexadecane	5500	ug/kg
Heptadecane	13000	ug/kg
Docosane	14000	ug/kg

Cyanide by Spectrophotometric Method  
Cyanide, Total 0.36 J mg/kg 0.61 0.21 1 9014 10/09/08 16:44 heasler Q36026

Sample Preparation: 1.01 g / 50 mL 9010B 10/07/08 14:50 rloftin P22741

Mercury by CVAA  
Mercury BRL mg/kg 0.024 0.0028 1 7471A 10/10/08 17:49 heasler Q36055

Sample Preparation: 0.6 g / 50 mL 7471A 10/10/08 11:35 mbarber P22765

Metals by ICP  
Antimony 0.36 mg/kg 0.24 0.065 1 6010B 10/02/08 22:27 mcampbell Q35843



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## Laboratory Report

10/16/08

MACTEC Eng. & Consulting, Inc  
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1308 Patton Avenue  
Asheville, NC 28806

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: FD-01  
Prism Sample ID: 226347  
COC Group: G0908772  
Time Collected: 09/25/08 12:01  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Arsenic	3.8	mg/kg	0.59	0.079	1	6010B	10/02/08 22:27	mcampbell	Q35843
Beryllium	4.4	mg/kg	0.30	0.0071	1	6010B	10/02/08 22:27	mcampbell	Q35843
Cadmium	1.1	mg/kg	0.30	0.0071	1	6010B	10/02/08 22:27	mcampbell	Q35843
Chromium	54	mg/kg	0.30	0.017	1	6010B	10/02/08 22:27	mcampbell	Q35843
Copper	43	mg/kg	0.59	0.26	1	6010B	10/02/08 22:27	mcampbell	Q35843
Lead	7.9	mg/kg	0.30	0.019	1	6010B	10/02/08 22:27	mcampbell	Q35843
Manganese	870	mg/kg	3.0	0.36	10	6010B	10/03/08 19:39	mcampbell	Q35843
Nickel	20	mg/kg	0.59	0.071	1	6010B	10/02/08 22:27	mcampbell	Q35843
Selenium	BRL	mg/kg	0.59	0.12	1	6010B	10/02/08 22:27	mcampbell	Q35843
Silver	1.1	mg/kg	0.30	0.019	1	6010B	10/02/08 22:27	mcampbell	Q35843
Thallium	BRL	mg/kg	0.61	0.11	1	6010B	10/02/08 22:27	mcampbell	Q35843
Zinc	96	mg/kg	3.0	0.22	1	6010B	10/02/08 22:27	mcampbell	Q35843
Sample Preparation:			2.05 g	/	50 mL	3050B	10/02/08 7:25	mbarber	P22688

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 dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-1  
Prism Sample ID: 226348  
COC Group: G0908772  
Time Collected: 09/25/08 11:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>	92.6	%			1	SM2540.G	10/01/08 9:00	dsullivan	
Percent Solids									
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	4.7	0.46	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,1,1-Trichloroethane	BRL	µg/kg	4.7	0.49	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,1,2,2-Tetrachloroethane	BRL	µg/kg	4.7	0.53	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,1,2-Trichloroethane	BRL	µg/kg	4.7	0.31	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,1-Dichloroethane	BRL	µg/kg	4.7	0.49	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,1-Dichloroethene	BRL	µg/kg	4.7	0.61	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,1-Dichloropropene	BRL	µg/kg	4.7	0.67	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,2,3-Trichlorobenzene	BRL	µg/kg	9.4	0.73	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,2,3-Trichloropropane	BRL	µg/kg	4.7	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,2,4-Trichlorobenzene	BRL	µg/kg	9.4	0.76	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,2,4-Trimethylbenzene	BRL	µg/kg	9.4	0.67	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,2-Dibromo-3-chloropropane	BRL	µg/kg	4.7	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,2-Dibromoethane (EDB)	BRL	µg/kg	4.7	0.53	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,2-Dichlorobenzene	BRL	µg/kg	9.4	0.55	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,2-Dichloroethane	BRL	µg/kg	4.7	0.55	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,2-Dichloropropane	BRL	µg/kg	4.7	0.48	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,3,5-Trimethylbenzene	BRL	µg/kg	9.4	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,3-Dichlorobenzene	BRL	µg/kg	9.4	0.68	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,3-Dichloropropane	BRL	µg/kg	4.7	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
1,4-Dichlorobenzene	BRL	µg/kg	9.4	0.58	1	8260B	10/02/08 15:19	Iwtry	Q35830
2,2-Dichloropropane	BRL	µg/kg	4.7	0.43	1	8260B	10/02/08 15:19	Iwtry	Q35830
2-Chloroethyl vinyl ether	BRL	µg/kg	9.4	0.48	1	8260B	10/02/08 15:19	Iwtry	Q35830
2-Chlorotoluene	BRL	µg/kg	9.4	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
2-Hexanone	BRL	µg/kg	47	0.35	1	8260B	10/02/08 15:19	Iwtry	Q35830

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# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-1  
Prism Sample ID: 226348  
COC Group: G0908772  
Time Collected: 09/25/08 11:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	9.4	0.69	1	8260B	10/02/08 15:19	Iwtry	Q35830
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	9.4	0.99	1	8260B	10/02/08 15:19	Iwtry	Q35830
Acetone	BRL	µg/kg	19	1.4	1	8260B	10/02/08 15:19	Iwtry	Q35830
Benzene	BRL	µg/kg	2.8	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
Bromobenzene	BRL	µg/kg	4.7	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
Bromochloromethane	BRL	µg/kg	4.7	0.63	1	8260B	10/02/08 15:19	Iwtry	Q35830
Bromodichloromethane	BRL	µg/kg	4.7	0.49	1	8260B	10/02/08 15:19	Iwtry	Q35830
Bromoform	BRL	µg/kg	4.7	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
Bromomethane	BRL	µg/kg	9.4	1.4	1	8260B	10/02/08 15:19	Iwtry	Q35830
Carbon disulfide	BRL	µg/kg	9.4	0.70	1	8260B	10/02/08 15:19	Iwtry	Q35830
Carbon tetrachloride	BRL	µg/kg	4.7	0.40	1	8260B	10/02/08 15:19	Iwtry	Q35830
Chlorobenzene	BRL	µg/kg	4.7	0.50	1	8260B	10/02/08 15:19	Iwtry	Q35830
Chlorodibromomethane	BRL	µg/kg	4.7	0.54	1	8260B	10/02/08 15:19	Iwtry	Q35830
Chloroethane	BRL	µg/kg	9.4	1.2	1	8260B	10/02/08 15:19	Iwtry	Q35830
Chloroform	BRL	µg/kg	4.7	0.47	1	8260B	10/02/08 15:19	Iwtry	Q35830
Chloromethane	BRL	µg/kg	9.4	0.70	1	8260B	10/02/08 15:19	Iwtry	Q35830
cis-1,2-Dichloroethene	BRL	µg/kg	4.7	0.75	1	8260B	10/02/08 15:19	Iwtry	Q35830
cis-1,3-Dichloropropene	BRL	µg/kg	4.7	0.53	1	8260B	10/02/08 15:19	Iwtry	Q35830
Dibromomethane	BRL	µg/kg	4.7	0.59	1	8260B	10/02/08 15:19	Iwtry	Q35830
Dichlorodifluoromethane	BRL	µg/kg	9.4	0.77	1	8260B	10/02/08 15:19	Iwtry	Q35830
Ethylbenzene	BRL	µg/kg	4.7	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
Hexachlorobutadiene	BRL	µg/kg	14	0.80	1	8260B	10/02/08 15:19	Iwtry	Q35830
Isopropyl ether (IPE)	BRL	µg/kg	4.7	0.40	1	8260B	10/02/08 15:19	Iwtry	Q35830
Isopropylbenzene	BRL	µg/kg	9.4	0.71	1	8260B	10/02/08 15:19	Iwtry	Q35830
m,p-Xylenes	BRL	µg/kg	9.4	1.1	1	8260B	10/02/08 15:19	Iwtry	Q35830
Methyl ethyl ketone (MEK)	BRL	µg/kg	19	0.72	1	8260B	10/02/08 15:19	Iwtry	Q35830
Methyl t-butyl ether (MTBE)	BRL	µg/kg	4.7	0.47	1	8260B	10/02/08 15:19	Iwtry	Q35830

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NC Certification No. 402  
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# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-1  
Prism Sample ID: 226348  
COC Group: G0908772  
Time Collected: 09/25/08 11:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	9.4	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
n-Butylbenzene	BRL	µg/kg	14	0.63	1	8260B	10/02/08 15:19	Iwtry	Q35830
n-Propylbenzene	BRL	µg/kg	9.4	0.55	1	8260B	10/02/08 15:19	Iwtry	Q35830
Naphthalene	BRL	µg/kg	4.7	1.4	1	8260B	10/02/08 15:19	Iwtry	Q35830
o-Xylene	BRL	µg/kg	4.7	0.59	1	8260B	10/02/08 15:19	Iwtry	Q35830
p-Isopropyltoluene	BRL	µg/kg	14	0.69	1	8260B	10/02/08 15:19	Iwtry	Q35830
sec-Butylbenzene	BRL	µg/kg	14	0.68	1	8260B	10/02/08 15:19	Iwtry	Q35830
Styrene	BRL	µg/kg	4.7	0.53	1	8260B	10/02/08 15:19	Iwtry	Q35830
tert-Butylbenzene	BRL	µg/kg	19	0.65	1	8260B	10/02/08 15:19	Iwtry	Q35830
Tetrachloroethene	BRL	µg/kg	9.4	0.56	1	8260B	10/02/08 15:19	Iwtry	Q35830
Toluene	BRL	µg/kg	4.7	0.52	1	8260B	10/02/08 15:19	Iwtry	Q35830
trans-1,2-Dichloroethene	BRL	µg/kg	4.7	0.57	1	8260B	10/02/08 15:19	Iwtry	Q35830
trans-1,3-Dichloropropene	BRL	µg/kg	4.7	0.76	1	8260B	10/02/08 15:19	Iwtry	Q35830
Trichloroethene	BRL	µg/kg	4.7	0.77	1	8260B	10/02/08 15:19	Iwtry	Q35830
Trichlorofluoromethane	BRL	µg/kg	4.7	0.68	1	8260B	10/02/08 15:19	Iwtry	Q35830
Vinyl chloride	BRL	µg/kg	9.4	0.67	1	8260B	10/02/08 15:19	Iwtry	Q35830

Surrogate	% Recovery	Control Limits
Toluene-d8	97	81 - 128
Dibromofluoromethane	96	67 - 143
Bromofluorobenzene	102	77 - 128

TIC's By 8260	Est.Conc	Units
No TICs were detected.		

Sample Weight Determination	Weight Bisulfate 1	5.74	g	1	5035	10/01/08 0:00	lbrown
	Weight Bisulfate 2	5.44	g	1	5035	10/01/08 0:00	lbrown

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-1  
Prism Sample ID: 226348  
COC Group: G0908772  
Time Collected: 09/25/08 11:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Weight Methanol	5.61	g			1	5035	10/01/08 0:00	lbrown	
<b><u>Semi-volatile Organic Compounds by GC/MS</u></b>									
1,2,4-Trichlorobenzene	BRL	µg/kg	360	39	1	8270C	10/02/08 17:10	kcampigotto	Q35801
1,2-Dichlorobenzene	BRL	µg/kg	360	39	1	8270C	10/02/08 17:10	kcampigotto	Q35801
1,3-Dichlorobenzene	BRL	µg/kg	360	35	1	8270C	10/02/08 17:10	kcampigotto	Q35801
1,4-Dichlorobenzene	BRL	µg/kg	360	42	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2,4,5-Trichlorophenol	BRL	µg/kg	360	42	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2,4,6-Trichlorophenol	BRL	µg/kg	360	38	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2,4-Dichlorophenol	BRL	µg/kg	360	23	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2,4-Dimethylphenol	BRL	µg/kg	360	53	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2,4-Dinitrophenol	BRL	µg/kg	360	100	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2,4-Dinitrotoluene	BRL	µg/kg	360	47	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2,6-Dinitrotoluene	BRL	µg/kg	360	64	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2-Chloronaphthalene	BRL	µg/kg	360	45	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2-Chlorophenol	BRL	µg/kg	360	15	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2-Methylnaphthalene	BRL	µg/kg	360	40	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2-Methylphenol	BRL	µg/kg	360	29	1	8270C	10/02/08 17:10	kcampigotto	Q35801
2-Nitrophenol	BRL	µg/kg	360	50	1	8270C	10/02/08 17:10	kcampigotto	Q35801
3&4-Methylphenol	BRL	µg/kg	360	42	1	8270C	10/02/08 17:10	kcampigotto	Q35801
3,3'-Dichlorobenzidine	BRL	µg/kg	360	64	1	8270C	10/02/08 17:10	kcampigotto	Q35801
4,6-Dinitro-2-methylphenol	BRL	µg/kg	360	31	1	8270C	10/02/08 17:10	kcampigotto	Q35801
4-Bromophenylphenylether	BRL	µg/kg	360	44	1	8270C	10/02/08 17:10	kcampigotto	Q35801
4-Chloro-3-methylphenol	BRL	µg/kg	360	42	1	8270C	10/02/08 17:10	kcampigotto	Q35801
4-Chlorophenylphenylether	BRL	µg/kg	360	45	1	8270C	10/02/08 17:10	kcampigotto	Q35801
4-Nitrophenol	BRL	µg/kg	360	45	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Acenaphthene	BRL	µg/kg	360	48	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Acenaphthylene	BRL	µg/kg	360	33	1	8270C	10/02/08 17:10	kcampigotto	Q35801

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-1  
Prism Sample ID: 226348  
COC Group: G0908772  
Time Collected: 09/25/08 11:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anthracene	BRL	µg/kg	360	26	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Benzo(a)anthracene	BRL	µg/kg	360	40	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Benzo(a)pyrene	BRL	µg/kg	360	45	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Benzo(b)fluoranthene	BRL	µg/kg	360	73	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Benzo(g,h,i)perylene	BRL	µg/kg	360	45	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Benzo(k)fluoranthene	BRL	µg/kg	360	95	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Bis(2-chloroethoxy)methane	BRL	µg/kg	360	60	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Bis(2-chloroethyl)ether	BRL	µg/kg	360	44	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Bis(2-chloroisopropyl)ether	BRL	µg/kg	360	36	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	360	28	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Butylbenzylphthalate	BRL	µg/kg	360	44	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Chrysene	BRL	µg/kg	360	24	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Di-n-butylphthalate	BRL	µg/kg	360	57	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Di-n-octylphthalate	BRL	µg/kg	360	100	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Dibenzo(a,h)anthracene	BRL	µg/kg	360	33	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Dibenzofuran	BRL	µg/kg	360	43	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Diethylphthalate	BRL	µg/kg	360	92	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Dimethylphthalate	BRL	µg/kg	360	53	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Fluoranthene	BRL	µg/kg	360	63	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Fluorene	BRL	µg/kg	360	51	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Hexachlorobenzene	BRL	µg/kg	360	49	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Hexachlorobutadiene	BRL	µg/kg	360	35	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Hexachlorocyclopentadiene	BRL	µg/kg	360	53	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Hexachloroethane	BRL	µg/kg	360	15	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	360	34	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Isophorone	BRL	µg/kg	360	34	1	8270C	10/02/08 17:10	kcampigotto	Q35801
N-Nitrosodi-n-propylamine	BRL	µg/kg	360	21	1	8270C	10/02/08 17:10	kcampigotto	Q35801

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-1  
Prism Sample ID: 226348  
COC Group: G0908772  
Time Collected: 09/25/08 11:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
N-Nitrosodiphenylamine	BRL	µg/kg	360	52	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Naphthalene	BRL	µg/kg	360	42	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Nitrobenzene	BRL	µg/kg	360	45	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Pentachlorophenol	BRL	µg/kg	360	54	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Phenanthrene	BRL	µg/kg	360	30	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Phenol	BRL	µg/kg	360	63	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Pyrene	BRL	µg/kg	360	68	1	8270C	10/02/08 17:10	kcampigotto	Q35801
Sample Preparation:			30.04 g	/	1 mL	3550B	10/01/08 8:30	jbarrette	P22672
						Surrogate	% Recovery	Control Limits	
						Terphenyl-d14	74	41 - 136	
						Phenol-d5	70	13 - 95	
						Nitrobenzene-d5	57	14 - 103	
						2-Fluorophenol	57	14 - 89	
						2-Fluorobiphenyl	62	21 - 108	
						2,4,6-Tribromophenol	81	25 - 123	

## TIC's By 8270

No TICs were detected.

Est.Conc      Units

## Cyanide by Spectrophotometric Method

Cyanide, Total	BRL	mg/kg	0.54	0.19	1	9014	10/09/08 16:44	heasler	Q36026
Sample Preparation:			1 g	/	50 mL	9010B	10/07/08 14:50	rloftin	P22741

## Mercury by CVAA

Mercury	BRL	mg/kg	0.022	0.0025	1	7471A	10/10/08 17:52	heasler	Q36055
Sample Preparation:			0.6 g	/	50 mL	7471A	10/10/08 11:35	mbarber	P22765

## Metals by ICP

Antimony	0.31	mg/kg	0.22	0.057	1	6010B	10/02/08 22:34	mcampbell	Q35843
Arsenic	2.0	mg/kg	0.53	0.070	1	6010B	10/02/08 22:34	mcampbell	Q35843

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-1  
Prism Sample ID: 226348  
COC Group: G0908772  
Time Collected: 09/25/08 11:15  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Beryllium	0.92	mg/kg	0.26	0.0063	1	6010B	10/02/08 22:34	mcampbell	Q35843
Cadmium	0.36	mg/kg	0.26	0.0063	1	6010B	10/02/08 22:34	mcampbell	Q35843
Chromium	16	mg/kg	0.26	0.015	1	6010B	10/02/08 22:34	mcampbell	Q35843
Copper	2.6	mg/kg	0.53	0.23	1	6010B	10/02/08 22:34	mcampbell	Q35843
Lead	7.7	mg/kg	0.26	0.017	1	6010B	10/02/08 22:34	mcampbell	Q35843
Manganese	560	mg/kg	2.6	0.32	10	6010B	10/03/08 19:52	mcampbell	Q35843
Nickel	14	mg/kg	0.53	0.063	1	6010B	10/02/08 22:34	mcampbell	Q35843
Selenium	BRL	mg/kg	0.53	0.10	1	6010B	10/02/08 22:34	mcampbell	Q35843
Silver	0.84	mg/kg	0.26	0.017	1	6010B	10/02/08 22:34	mcampbell	Q35843
Thallium	BRL	mg/kg	0.54	0.094	1	6010B	10/02/08 22:34	mcampbell	Q35843
Zinc	59	mg/kg	2.6	0.19	1	6010B	10/02/08 22:34	mcampbell	Q35843
Sample Preparation:				2.05 g	/	50 mL	3050B	10/02/08 7:25	mbarber
P22688									

## 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 dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-3  
Prism Sample ID: 226349  
COC Group: G0908772  
Time Collected: 09/25/08 9:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b><u>Percent Solids Determination</u></b>									
Percent Solids	83.1	%			1	SM2540 G	10/01/08 9:00	dsullivan	
<b><u>Volatile Organic Compounds by GC/MS</u></b>									
1,1,1,2-Tetrachloroethane	BRL	µg/kg	5.3	0.52	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,1,1-Trichloroethane	6300	µg/kg	540	56	100	8260B	10/06/08 21:50	Iwtry	Q35830
1,1,2,2-Tetrachloroethane	BRL	µg/kg	5.3	0.60	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,1,2-Trichloroethane	BRL	µg/kg	5.3	0.35	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,1-Dichloroethane	BRL	µg/kg	5.3	0.55	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,1-Dichloroethene	76	µg/kg	5.3	0.69	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,1-Dichloropropene	BRL	µg/kg	5.3	0.75	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,2,3-Trichlorobenzene	BRL	µg/kg	11	0.83	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,2,3-Trichloropropane	BRL	µg/kg	5.3	0.63	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,2,4-Trichlorobenzene	BRL	µg/kg	11	0.86	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,2,4-Trimethylbenzene	32000	µg/kg	5400	380	500	8260B	10/06/08 20:32	Iwtry	Q35830
1,2-Dibromo-3-chloropropane	BRL	µg/kg	5.3	0.64	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,2-Dibromoethane (EDB)	BRL	µg/kg	5.3	0.60	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,2-Dichlorobenzene	BRL	µg/kg	11	0.62	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,2-Dichloroethane	BRL	µg/kg	5.3	0.62	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,2-Dichloropropane	BRL	µg/kg	5.3	0.54	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,3,5-Trimethylbenzene	15000	µg/kg	5400	320	500	8260B	10/06/08 20:32	Iwtry	Q35830
1,3-Dichlorobenzene	BRL	µg/kg	11	0.77	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,3-Dichloropropane	BRL	µg/kg	5.3	0.64	1	8260B	10/02/08 21:46	Iwtry	Q35830
1,4-Dichlorobenzene	BRL	µg/kg	11	0.66	1	8260B	10/02/08 21:46	Iwtry	Q35830
2,2-Dichloropropane	BRL	µg/kg	5.3	0.49	1	8260B	10/02/08 21:46	Iwtry	Q35830
2-Chloroethyl vinyl ether	BRL	µg/kg	11	0.54	1	8260B	10/02/08 21:46	Iwtry	Q35830
2-Chlorotoluene	BRL	µg/kg	11	0.63	1	8260B	10/02/08 21:46	Iwtry	Q35830
2-Hexanone	BRL	µg/kg	53	0.39	1	8260B	10/02/08 21:46	Iwtry	Q35830

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NC Certification No. 402  
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# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-3  
Prism Sample ID: 226349  
COC Group: G0908772  
Time Collected: 09/25/08 9:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorotoluene	BRL	µg/kg	11	0.78	1	8260B	10/02/08 21:46	Iwtry	Q35830
4-Methyl-2-pentanone (MIBK)	BRL	µg/kg	11	1.1	1	8260B	10/02/08 21:46	Iwtry	Q35830
Acetone	230	µg/kg	21	1.6	1	8260B	10/02/08 21:46	Iwtry	Q35830
Benzene	630	µg/kg	330	65	100	8260B	10/06/08 21:50	Iwtry	Q35830
Bromobenzene	BRL	µg/kg	5.3	0.63	1	8260B	10/02/08 21:46	Iwtry	Q35830
Bromoform	BRL	µg/kg	5.3	0.71	1	8260B	10/02/08 21:46	Iwtry	Q35830
Bromochloromethane	BRL	µg/kg	5.3	0.55	1	8260B	10/02/08 21:46	Iwtry	Q35830
Bromodichloromethane	BRL	µg/kg	5.3	0.64	1	8260B	10/02/08 21:46	Iwtry	Q35830
Bromoform	BRL	µg/kg	11	1.6	1	8260B	10/02/08 21:46	Iwtry	Q35830
Bromomethane	BRL	µg/kg	11	0.79	1	8260B	10/02/08 21:46	Iwtry	Q35830
Carbon disulfide	BRL	µg/kg	11	0.79	1	8260B	10/02/08 21:46	Iwtry	Q35830
Carbon tetrachloride	BRL	µg/kg	5.3	0.46	1	8260B	10/02/08 21:46	Iwtry	Q35830
Chlorobenzene	BRL	µg/kg	5.3	0.56	1	8260B	10/02/08 21:46	Iwtry	Q35830
Chlorodibromomethane	BRL	µg/kg	5.3	0.61	1	8260B	10/02/08 21:46	Iwtry	Q35830
Chloroethane	BRL	µg/kg	11	1.4	1	8260B	10/02/08 21:46	Iwtry	Q35830
Chloroform	BRL	µg/kg	5.3	0.53	1	8260B	10/02/08 21:46	Iwtry	Q35830
Chloromethane	BRL	µg/kg	11	0.79	1	8260B	10/02/08 21:46	Iwtry	Q35830
cis-1,2-Dichloroethene	17	µg/kg	5.3	0.85	1	8260B	10/02/08 21:46	Iwtry	Q35830
cis-1,3-Dichloropropene	BRL	µg/kg	5.3	0.60	1	8260B	10/02/08 21:46	Iwtry	Q35830
Dibromomethane	BRL	µg/kg	5.3	0.67	1	8260B	10/02/08 21:46	Iwtry	Q35830
Dichlorodifluoromethane	BRL	µg/kg	11	0.87	1	8260B	10/02/08 21:46	Iwtry	Q35830
Ethylbenzene	9000	µg/kg	540	65	100	8260B	10/06/08 21:50	Iwtry	Q35830
Hexachlorobutadiene	BRL	µg/kg	16	0.90	1	8260B	10/02/08 21:46	Iwtry	Q35830
Isopropyl ether (IPE)	BRL	µg/kg	5.3	0.46	1	8260B	10/02/08 21:46	Iwtry	Q35830
Isopropylbenzene	5000	µg/kg	1100	81	100	8260B	10/06/08 21:50	Iwtry	Q35830
m,p-Xylenes	16000	µg/kg	1100	130	100	8260B	10/06/08 21:50	Iwtry	Q35830
Methyl ethyl ketone (MEK)	BRL	µg/kg	21	0.82	1	8260B	10/02/08 21:46	Iwtry	Q35830
Methyl t-butyl ether (MTBE)	BRL	µg/kg	5.3	0.53	1	8260B	10/02/08 21:46	Iwtry	Q35830

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

## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-3  
Prism Sample ID: 226349  
COC Group: G0908772  
Time Collected: 09/25/08 9:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methylene chloride	BRL	µg/kg	11	0.64	1	8260B	10/02/08 21:46	Iwtry	Q35830
n-Butylbenzene	5600	µg/kg	1600	73	100	8260B	10/06/08 21:50	Iwtry	Q35830
n-Propylbenzene	8400	µg/kg	1100	63	100	8260B	10/06/08 21:50	Iwtry	Q35830
Naphthalene	31000	µg/kg	2700	830	500	8260B	10/06/08 20:32	Iwtry	Q35830
o-Xylene	17000	µg/kg	2700	340	500	8260B	10/06/08 20:32	Iwtry	Q35830
p-Isopropyltoluene	3900	µg/kg	1600	79	100	8260B	10/06/08 21:50	Iwtry	Q35830
sec-Butylbenzene	5100	µg/kg	1600	78	100	8260B	10/06/08 21:50	Iwtry	Q35830
Styrene	BRL	µg/kg	5.3	0.60	1	8260B	10/02/08 21:46	Iwtry	Q35830
tert-Butylbenzene	170	µg/kg	21	0.73	1	8260B	10/02/08 21:46	Iwtry	Q35830
Tetrachloroethene	BRL	µg/kg	11	0.64	1	8260B	10/02/08 21:46	Iwtry	Q35830
Toluene	4300	µg/kg	540	60	100	8260B	10/06/08 21:50	Iwtry	Q35830
trans-1,2-Dichloroethene	BRL	µg/kg	5.3	0.65	1	8260B	10/02/08 21:46	Iwtry	Q35830
trans-1,3-Dichloropropene	BRL	µg/kg	5.3	0.86	1	8260B	10/02/08 21:46	Iwtry	Q35830
Trichloroethene	10000	µg/kg	540	89	100	8260B	10/06/08 21:50	Iwtry	Q35830
Trichlorofluoromethane	BRL	µg/kg	5.3	0.77	1	8260B	10/02/08 21:46	Iwtry	Q35830
Vinyl chloride	BRL	µg/kg	11	0.75	1	8260B	10/02/08 21:46	Iwtry	Q35830

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-3  
Prism Sample ID: 226349  
COC Group: G0908772  
Time Collected: 09/25/08 9:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Two surrogate recoveries were outside of the control limits. Matrix interference is suspected.

Surrogate	% Recovery	Control Limits
Toluene-d8	266 #	81 - 128
Dibromofluoromethane	95	67 - 143
Bromofluorobenzene	3412 #	77 - 128

TIC's By 8260	Est.Conc	Units
Unknown hydrocarbon	28	µg/kg
Unknown cyclic hydrocarbon	73	µg/kg
Unknown cyclic hydrocarbon	44	µg/kg
Unknown cyclic hydrocarbon	190	µg/kg
Trimethyl cyclohexane isomer	79	µg/kg
Trimethyl cyclohexane isomer	120	µg/kg
Trimethyl benzene isomer	44	µg/kg
Methyl octane	110	µg/kg
Ethyl cyclohexane	200	µg/kg
Dimethyl heptane	58	µg/kg

Sample Weight Determination	5.66	g	1	5035	10/01/08 0:00	Ibrown
Weight Bisulfate 1	5.66	g	1	5035	10/01/08 0:00	Ibrown
Weight Bisulfate 2	5.84	g	1	5035	10/01/08 0:00	Ibrown
Weight Methanol	5.55	g	1	5035	10/01/08 0:00	Ibrown

Semi-volatile Organic Compounds by GC/MS	BRL	µg/kg	2000	220	5	8270C	10/02/08 18:44	kcampigotto	Q35801
1,2,4-Trichlorobenzene	BRL	µg/kg	2000	220	5	8270C	10/02/08 18:44	kcampigotto	Q35801
1,2-Dichlorobenzene	BRL	µg/kg	2000	220	5	8270C	10/02/08 18:44	kcampigotto	Q35801
1,3-Dichlorobenzene	BRL	µg/kg	2000	190	5	8270C	10/02/08 18:44	kcampigotto	Q35801
1,4-Dichlorobenzene	BRL	µg/kg	2000	240	5	8270C	10/02/08 18:44	kcampigotto	Q35801
2,4,5-Trichlorophenol	BRL	µg/kg	2000	240	5	8270C	10/02/08 18:44	kcampigotto	Q35801
2,4,6-Trichlorophenol	BRL	µg/kg	2000	210	5	8270C	10/02/08 18:44	kcampigotto	Q35801

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-3  
Prism Sample ID: 226349  
COC Group: G0908772  
Time Collected: 09/25/08 9:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,4-Dichlorophenol	BRL	µg/kg	2000	130	5	8270C	10/02/08 18:44	kcampigotto	Q35801
2,4-Dimethylphenol	BRL	µg/kg	2000	300	5	8270C	10/02/08 18:44	kcampigotto	Q35801
2,4-Dinitrophenol	BRL	µg/kg	2000	580	5	8270C	10/02/08 18:44	kcampigotto	Q35801
2,4-Dinitrotoluene	BRL	µg/kg	2000	260	5	8270C	10/02/08 18:44	kcampigotto	Q35801
2,6-Dinitrotoluene	BRL	µg/kg	2000	360	5	8270C	10/02/08 18:44	kcampigotto	Q35801
2-Chloronaphthalene	BRL	µg/kg	2000	250	5	8270C	10/02/08 18:44	kcampigotto	Q35801
2-Chlorophenol	BRL	µg/kg	2000	83	5	8270C	10/02/08 18:44	kcampigotto	Q35801
2-Methylnaphthalene	58000	µg/kg	8000	890	20	8270C	10/02/08 19:16	kcampigotto	Q35801
2-Methylphenol	BRL	µg/kg	2000	160	5	8270C	10/02/08 18:44	kcampigotto	Q35801
2-Nitrophenol	BRL	µg/kg	2000	280	5	8270C	10/02/08 18:44	kcampigotto	Q35801
3&4-Methylphenol	BRL	µg/kg	2000	230	5	8270C	10/02/08 18:44	kcampigotto	Q35801
3,3'-Dichlorobenzidine	BRL	µg/kg	2000	360	5	8270C	10/02/08 18:44	kcampigotto	Q35801
4,6-Dinitro-2-methylphenol	BRL	µg/kg	2000	170	5	8270C	10/02/08 18:44	kcampigotto	Q35801
4-Bromophenylphenylether	BRL	µg/kg	2000	250	5	8270C	10/02/08 18:44	kcampigotto	Q35801
4-Chloro-3-methylphenol	BRL	µg/kg	2000	240	5	8270C	10/02/08 18:44	kcampigotto	Q35801
4-Chlorophenylphenylether	BRL	µg/kg	2000	250	5	8270C	10/02/08 18:44	kcampigotto	Q35801
4-Nitrophenol	BRL	µg/kg	2000	250	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Acenaphthene	BRL	µg/kg	2000	270	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Acenaphthylene	BRL	µg/kg	2000	190	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Anthracene	BRL	µg/kg	2000	150	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Benzo(a)anthracene	BRL	µg/kg	2000	220	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Benzo(a)pyrene	BRL	µg/kg	2000	250	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Benzo(b)fluoranthene	BRL	µg/kg	2000	410	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Benzo(g,h,i)perylene	BRL	µg/kg	2000	250	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Benzo(k)fluoranthene	BRL	µg/kg	2000	530	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Bis(2-chloroethoxy)methane	BRL	µg/kg	2000	340	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Bis(2-chloroethyl)ether	BRL	µg/kg	2000	250	5	8270C	10/02/08 18:44	kcampigotto	Q35801

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-3  
Prism Sample ID: 226349  
COC Group: G0908772  
Time Collected: 09/25/08 9:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	µg/kg	2000	200	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Bis(2-ethylhexyl)phthalate	BRL	µg/kg	2000	150	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Butylbenzylphthalate	BRL	µg/kg	2000	250	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Chrysene	BRL	µg/kg	2000	130	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Di-n-butylphthalate	BRL	µg/kg	2000	320	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Di-n-octylphthalate	BRL	µg/kg	2000	580	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Dibenzo(a,h)anthracene	BRL	µg/kg	2000	190	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Dibenzofuran	BRL	µg/kg	2000	240	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Diethylphthalate	BRL	µg/kg	2000	510	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Dimethylphthalate	BRL	µg/kg	2000	300	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Fluoranthene	BRL	µg/kg	2000	350	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Fluorene	6300	µg/kg	2000	280	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Hexachlorobenzene	BRL	µg/kg	2000	270	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Hexachlorobutadiene	BRL	µg/kg	2000	200	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Hexachlorocyclopentadiene	BRL	µg/kg	2000	300	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Hexachloroethane	BRL	µg/kg	2000	82	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Indeno(1,2,3-cd)pyrene	BRL	µg/kg	2000	190	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Isophorone	BRL	µg/kg	2000	190	5	8270C	10/02/08 18:44	kcampigotto	Q35801
N-Nitrosodi-n-propylamine	BRL	µg/kg	2000	120	5	8270C	10/02/08 18:44	kcampigotto	Q35801
N-Nitrosodiphenylamine	BRL	µg/kg	2000	290	5	8270C	10/02/08 19:16	kcampigotto	Q35801
Naphthalene	24000	µg/kg	8000	950	20	8270C	10/02/08 19:16	kcampigotto	Q35801
Nitrobenzene	BRL	µg/kg	2000	250	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Pentachlorophenol	BRL	µg/kg	2000	300	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Phenanthrene	19000	µg/kg	2000	170	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Phenol	BRL	µg/kg	2000	350	5	8270C	10/02/08 18:44	kcampigotto	Q35801
Pyrene	990 J	µg/kg	2000	380	5	8270C	10/02/08 18:44	kcampigotto	Q35801

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-3  
Prism Sample ID: 226349  
COC Group: G0908772  
Time Collected: 09/25/08 9:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate recovery was outside of the control limits. Matrix interference is suspected.

Sample Preparation: 29.87 g / 1 mL 3550B 10/01/08 8:30 jbarnette P22672

Surrogate	% Recovery	Control Limits
Terphenyl-d14	68	41 - 136
Phenol-d5	24	13 - 95
Nitrobenzene-d5	120 #	14 - 103
2-Fluorophenol	57	14 - 89
2-Fluorobiphenyl	75	21 - 108
2,4,6-Tribromophenol	78	25 - 123

TIC's By 8270	Est.Conc	Units
Unknown aromatic	9800	ug/kg
Unknown aromatic	8500	ug/kg
Unknown aromatic	6300	ug/kg
Tetradecane	7900	ug/kg
Tetracosane	8200	ug/kg
Octadecane	24000	ug/kg
Nonadecane	12000	ug/kg
Hexadecane	6300	ug/kg
Heptadecane	8100	ug/kg
Docosane	18000	ug/kg

#### Cyanide by Spectrophotometric Method

Cyanide, Total 0.91 mg/kg 0.60 0.21 1 9014 10/09/08 16:44 heaster Q36026  
Sample Preparation: 1 g / 50 mL 9010B 10/07/08 14:50 rloftin P22741

#### Mercury by CVAA

Mercury BRL mg/kg 0.024 0.0028 1 7471A 10/10/08 17:56 heaster Q36055  
Sample Preparation: 0.6 g / 50 mL 7471A 10/10/08 11:35 mbarber P22765

#### Metals by ICP

Antimony 0.26 mg/kg 0.24 0.064 1 6010B 10/02/08 22:43 mcampbell Q35843

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Soil

Client Sample ID: SS-3  
Prism Sample ID: 226349  
COC Group: G0908772  
Time Collected: 09/25/08 9:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Arsenic	2.7	mg/kg	0.60	0.079	1	6010B	10/02/08 22:43	mcampbell	Q35843
Beryllium	2.9	mg/kg	0.30	0.0072	1	6010B	10/02/08 22:43	mcampbell	Q35843
Cadmium	0.95	mg/kg	0.30	0.0072	1	6010B	10/02/08 22:43	mcampbell	Q35843
Chromium	41	mg/kg	0.30	0.017	1	6010B	10/02/08 22:43	mcampbell	Q35843
Copper	36	mg/kg	0.60	0.26	1	6010B	10/02/08 22:43	mcampbell	Q35843
Lead	9.5	mg/kg	0.30	0.019	1	6010B	10/02/08 22:43	mcampbell	Q35843
Manganese	1000	mg/kg	3.0	0.36	10	6010B	10/03/08 20:15	mcampbell	Q35843
Nickel	42	mg/kg	0.60	0.072	1	6010B	10/02/08 22:43	mcampbell	Q35843
Selenium	BRL	mg/kg	0.60	0.12	1	6010B	10/02/08 22:43	mcampbell	Q35843
Silver	1.2	mg/kg	0.30	0.019	1	6010B	10/02/08 22:43	mcampbell	Q35843
Thallium	BRL	mg/kg	0.60	0.10	1	6010B	10/02/08 22:43	mcampbell	Q35843
Zinc	92	mg/kg	3.0	0.22	1	6010B	10/02/08 22:43	mcampbell	Q35843
Sample Preparation:			2 g	/	50 mL	3050B	10/02/08 7:25	mbarber	P22688

## 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 dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-02  
Prism Sample ID: 226350  
COC Group: G0908772  
Time Collected: 09/25/08 8:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 21:14	Iwtry	Q35792
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 21:14	Iwtry	Q35792
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	10/01/08 21:14	Iwtry	Q35792
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	10/01/08 21:14	Iwtry	Q35792
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 21:14	Iwtry	Q35792
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	10/01/08 21:14	Iwtry	Q35792
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 21:14	Iwtry	Q35792
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	10/01/08 21:14	Iwtry	Q35792
Acetone	9.2 J	µg/L	10	0.44	1	8260B	10/01/08 21:14	Iwtry	Q35792

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-02  
Prism Sample ID: 226350  
COC Group: G0908772  
Time Collected: 09/25/08 8:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	10/01/08 21:14	Iwtry	Q35792
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	10/01/08 21:14	Iwtry	Q35792
Benzene	BRL	µg/L	1.0	0.094	1	8260B	10/01/08 21:14	Iwtry	Q35792
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	10/01/08 21:14	Iwtry	Q35792
Bromoform	BRL	µg/L	1.0	0.085	1	8260B	10/01/08 21:14	Iwtry	Q35792
Bromochloromethane	BRL	µg/L	1.0	0.15	1	8260B	10/01/08 21:14	Iwtry	Q35792
Bromodichloromethane	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 21:14	Iwtry	Q35792
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	10/01/08 21:14	Iwtry	Q35792
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	10/01/08 21:14	Iwtry	Q35792
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	10/01/08 21:14	Iwtry	Q35792
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/01/08 21:14	Iwtry	Q35792
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	10/01/08 21:14	Iwtry	Q35792
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	10/01/08 21:14	Iwtry	Q35792
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	10/01/08 21:14	Iwtry	Q35792
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	10/01/08 21:14	Iwtry	Q35792
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	10/01/08 21:14	Iwtry	Q35792
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	10/01/08 21:14	Iwtry	Q35792
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	10/01/08 21:14	Iwtry	Q35792
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	10/01/08 21:14	Iwtry	Q35792
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/01/08 21:14	Iwtry	Q35792
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	10/01/08 21:14	Iwtry	Q35792
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	10/01/08 21:14	Iwtry	Q35792
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	10/01/08 21:14	Iwtry	Q35792
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	10/01/08 21:14	Iwtry	Q35792
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	10/01/08 21:14	Iwtry	Q35792
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	10/01/08 21:14	Iwtry	Q35792
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	10/01/08 21:14	Iwtry	Q35792

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-02  
Prism Sample ID: 226350  
COC Group: G0908772  
Time Collected: 09/25/08 8:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	10/01/08 21:14	Iwtry	Q35792
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	10/01/08 21:14	Iwtry	Q35792
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	10/01/08 21:14	Iwtry	Q35792
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	10/01/08 21:14	Iwtry	Q35792
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	10/01/08 21:14	Iwtry	Q35792
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/01/08 21:14	Iwtry	Q35792
Styrene	BRL	µg/L	1.0	0.11	1	8260B	10/01/08 21:14	Iwtry	Q35792
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	10/01/08 21:14	Iwtry	Q35792
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	10/01/08 21:14	Iwtry	Q35792
Toluene	BRL	µg/L	1.0	0.31	1	8260B	10/01/08 21:14	Iwtry	Q35792
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	10/01/08 21:14	Iwtry	Q35792
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	10/01/08 21:14	Iwtry	Q35792
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	10/01/08 21:14	Iwtry	Q35792
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	10/01/08 21:14	Iwtry	Q35792
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	10/01/08 21:14	Iwtry	Q35792
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	10/01/08 21:14	Iwtry	Q35792

Surrogate	% Recovery	Control Limits
Toluene-d8	98	75 - 121
Dibromofluoromethane	97	74 - 133
Bromofluorobenzene	101	69 - 139

TIC's By 8260	Est Conc	Units
Unknown	5.6	µg/L

## Semi-volatile Organics by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/06/08 17:56	kcampigotto	Q35902
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/06/08 17:56	kcampigotto	Q35902

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-02  
Prism Sample ID: 226350  
COC Group: G0908772  
Time Collected: 09/25/08 8:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/06/08 17:56	kcampigotto	Q35902
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/06/08 17:56	kcampigotto	Q35902
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/06/08 17:56	kcampigotto	Q35902
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/06/08 17:56	kcampigotto	Q35902
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/06/08 17:56	kcampigotto	Q35902
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/06/08 17:56	kcampigotto	Q35902
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/06/08 17:56	kcampigotto	Q35902
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/06/08 17:56	kcampigotto	Q35902
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/06/08 17:56	kcampigotto	Q35902
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Acenaphthylene	BRL	µg/L	9.7	0.60	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Benzo(a)anthracene	BRL	µg/L	9.7	1.2	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Benzo(a)pyrene	BRL	µg/L	9.7	1.1	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Benzo(b)fluoranthene	BRL	µg/L	9.7						

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-02  
Prism Sample ID: 226350  
COC Group: G0908772  
Time Collected: 09/25/08 8:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/06/08 17:56	kcampigotto	Q35902
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/06/08 17:56	kcampigotto	Q35902
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/06/08 17:56	kcampigotto	Q35902

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

# Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-02  
Prism Sample ID: 226350  
COC Group: G0908772  
Time Collected: 09/25/08 8:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/06/08 17:56	kcampigotto	Q35902
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/06/08 17:56	kcampigotto	Q35902
			1030 mL /		1 mL	3510C	10/02/08 7:00	pbarr	P22683
Sample Preparation:									



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

## Laboratory Report

10/16/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-02  
Prism Sample ID: 226350  
COC Group: G0908772  
Time Collected: 09/25/08 8:30  
Time Submitted: 09/30/08 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/02/08 21:33	mcampbell	Q35840
Manganese	0.0051 J	mg/L	0.010	0.0012	1	6010B	10/02/08 21:33	mcampbell	Q35840
Nickel	BRL	mg/L	0.010	0.00042	1	6010B	10/02/08 21:33	mcampbell	Q35840
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/02/08 21:33	mcampbell	Q35840
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/02/08 21:33	mcampbell	Q35840
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/02/08 21:33	mcampbell	Q35840
Zinc	0.0055 J	mg/L	0.030	0.0023	1	6010B	10/02/08 21:33	mcampbell	Q35840
Sample Preparation:			50 mL	/	50 mL	3010A	10/02/08 7:10	mbarber	P22686

### 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

A handwritten signature in black ink, appearing to read "Angela D. Overcash".

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

10/16/08

MACTEC Eng. & Consulting, Inc

Project ID: Mills Gap

Attn: Susan Kelly  
1308 Patton Avenue  
Asheville, NC 28806

COC Group Number: G0908772

Date/Time Submitted: 9/30/08 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	Q35792
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q35792
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q35792
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q35792
1,1-Dichloroethane	ND	1	<0.5	µg/L	Q35792
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q35792
1,1-Dichloropropene	ND	1	<0.5	µg/L	Q35792
1,2,3-Trichlorobenzene	ND	2	<1	µg/L	Q35792
1,2,3-Trichloropropane	ND	1	<0.5	µg/L	Q35792
1,2,4-Trichlorobenzene	ND	1	<0.5	µg/L	Q35792
1,2,4-Trimethylbenzene	ND	1	<0.5	µg/L	Q35792
1,2-Dibromo-3-chloropropane	ND	2	<1	µg/L	Q35792
1,2-Dibromoethane (EDB)	ND	1	<0.5	µg/L	Q35792
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q35792
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q35792
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q35792
1,3,5-Trimethylbenzene	ND	1	<0.5	µg/L	Q35792
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q35792
1,3-Dichloropropane	ND	1	<0.5	µg/L	Q35792
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q35792
2,2-Dichloropropane	ND	2	<1	µg/L	Q35792
2-Chloroethyl vinyl ether	ND	2	<1	µg/L	Q35792
2-Chlorotoluene	ND	1	<0.5	µg/L	Q35792
2-Hexanone	ND	5	<2.5	µg/L	Q35792
4-Chlorotoluene	ND	1	<0.5	µg/L	Q35792
4-Methyl-2-pentanone (MIBK)	ND	5	<2.5	µg/L	Q35792
Acetone	ND	10	<5	µg/L	Q35792
Acrolein	ND	100	<50	µg/L	Q35792
Acrylonitrile	ND	100	<50	µg/L	Q35792
Benzene	ND	1	<0.5	µg/L	Q35792
Bromobenzene	ND	1	<0.5	µg/L	Q35792
Bromochloromethane	ND	1	<0.5	µg/L	Q35792
Bromodichloromethane	ND	1	<0.5	µg/L	Q35792
Bromoform	ND	1	<0.5	µg/L	Q35792

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

## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908772

Date/Time Submitted: 9/30/08 13:30

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Bromomethane	ND	3	<1.5	µg/L	Q35792
Carbon disulfide	ND	5	<2.5	µg/L	Q35792
Carbon tetrachloride	ND	2	<1	µg/L	Q35792
Chlorobenzene	ND	1	<0.5	µg/L	Q35792
Chlorodibromomethane	ND	1	<0.5	µg/L	Q35792
Chloroethane	ND	5	<2.5	µg/L	Q35792
Chloroform	ND	1	<0.5	µg/L	Q35792
Chloromethane	ND	2	<1	µg/L	Q35792
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q35792
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q35792
Dibromomethane	ND	1	<0.5	µg/L	Q35792
Dichlorodifluoromethane	ND	2	<1	µg/L	Q35792
Ethylbenzene	ND	1	<0.5	µg/L	Q35792
Hexachlorobutadiene	ND	2	<1	µg/L	Q35792
Isopropyl ether (IPE)	ND	1	<0.5	µg/L	Q35792
Isopropylbenzene	ND	1	<0.5	µg/L	Q35792
m,p-Xylenes	ND	2	<1	µg/L	Q35792
Methyl ethyl ketone (MEK)	ND	5	<2.5	µg/L	Q35792
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q35792
Methylene chloride	ND	2	<1	µg/L	Q35792
n-Butylbenzene	ND	1	<0.5	µg/L	Q35792
n-Propylbenzene	ND	1	<0.5	µg/L	Q35792
Naphthalene	ND	1	<0.5	µg/L	Q35792
o-Xylene	ND	1	<0.5	µg/L	Q35792
p-Isopropyltoluene	ND	1	<0.5	µg/L	Q35792
sec-Butylbenzene	ND	1	<0.5	µg/L	Q35792
Styrene	ND	1	<0.5	µg/L	Q35792
tert-Butylbenzene	ND	1	<0.5	µg/L	Q35792
Tetrachloroethene	ND	1	<0.5	µg/L	Q35792
Toluene	ND	1	<0.5	µg/L	Q35792
trans-1,2-Dichloroethene	ND	2	<1	µg/L	Q35792
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q35792
Trichloroethene	ND	2	<1	µg/L	Q35792
Trichlorofluoromethane	ND	2	<1	µg/L	Q35792
Vinyl acetate	ND	20	<10	µg/L	Q35792
Vinyl chloride	ND	2	<1	µg/L	Q35792

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

## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908772  
Date/Time Submitted: 9/30/08 13:30

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1-Dichloroethene	69.2	50	µg/L	138	62-141	Q35792
Benzene	58.5	50	µg/L	117	70-141	Q35792
Chlorobenzene	54.63	50	µg/L	109	88-120	Q35792
Toluene	58.05	50	µg/L	116	78-130	Q35792
Trichloroethene	58.86	50	µg/L	118	78-124	Q35792

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:						
226124 1,1-Dichloroethene	2250	2000	µg/L	113	54-140	Q35792
Benzene	2148.8	2000	µg/L	107	62-129	Q35792
Chlorobenzene	1953.2	2000	µg/L	98	64-127	Q35792
Toluene	2118.8	2000	µg/L	106	60-131	Q35792
Trichloroethene	2064.4	2000	µg/L	103	52-128	Q35792

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:								
226124 1,1-Dichloroethene	2387.2	2000	µg/L	119	54-140	6	0 - 20	Q35792
Benzene	2258	2000	µg/L	113	62-129	5	0 - 19	Q35792
Chlorobenzene	2024	2000	µg/L	101	64-127	4	0 - 20	Q35792
Toluene	2214.8	2000	µg/L	111	60-131	4	0 - 21	Q35792
Trichloroethene	2189.2	2000	µg/L	109	52-128	6	0 - 18	Q35792



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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908772

Date/Time Submitted: 9/30/08 13:30

### Semi-volatile Organic Compounds by GC/MS, method 8270C

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	0.33	<0.165	mg/kg	Q35801
1,2-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q35801
1,3-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q35801
1,4-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q35801
1-Methylnaphthalene	ND	0.33	<0.165	mg/kg	Q35801
2,4,5-Trichlorophenol	ND	0.33	<0.165	mg/kg	Q35801
2,4,6-Trichlorophenol	ND	0.33	<0.165	mg/kg	Q35801
2,4-Dichlorophenol	ND	0.33	<0.165	mg/kg	Q35801
2,4-Dimethylphenol	ND	0.33	<0.165	mg/kg	Q35801
2,4-Dinitrophenol	ND	1.65	<0.825	mg/kg	Q35801
2,4-Dinitrotoluene	ND	0.33	<0.165	mg/kg	Q35801
2,6-Dinitrotoluene	ND	0.33	<0.165	mg/kg	Q35801
2-Chloronaphthalene	ND	0.33	<0.165	mg/kg	Q35801
2-Chlorophenol	ND	0.33	<0.165	mg/kg	Q35801
2-Methylnaphthalene	ND	0.33	<0.165	mg/kg	Q35801
2-Methylphenol	ND	0.33	<0.165	mg/kg	Q35801
2-Nitrophenol	ND	0.33	<0.165	mg/kg	Q35801
3&4-Methylphenol	ND	0.33	<0.165	mg/kg	Q35801
3,3'-Dichlorobenzidine	ND	0.66	<0.33	mg/kg	Q35801
4,6-Dinitro-2-methylphenol	ND	1.65	<0.825	mg/kg	Q35801
4-Bromophenylphenylether	ND	0.33	<0.165	mg/kg	Q35801
4-Chloro-3-methylphenol	ND	0.66	<0.33	mg/kg	Q35801
4-Chloroaniline	ND	0.33	<0.165	mg/kg	Q35801
4-Chlorophenylphenylether	ND	0.33	<0.165	mg/kg	Q35801
4-Nitrophenol	ND	1.65	<0.825	mg/kg	Q35801
Acenaphthene	ND	0.33	<0.165	mg/kg	Q35801
Acenaphthylene	ND	0.33	<0.165	mg/kg	Q35801
Anthracene	ND	0.33	<0.165	mg/kg	Q35801
Azobenzene	ND	1.65	<0.825	mg/kg	Q35801
Benzo(a)anthracene	ND	0.33	<0.165	mg/kg	Q35801
Benzo(a)pyrene	ND	0.33	<0.165	mg/kg	Q35801
Benzo(b)fluoranthene	ND	0.33	<0.165	mg/kg	Q35801
Benzo(g,h,i)perylene	ND	0.33	<0.165	mg/kg	Q35801
Benzo(k)fluoranthene	ND	0.33	<0.165	mg/kg	Q35801

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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908772  
Date/Time Submitted: 9/30/08 13:30

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Benzoic acid	ND	1.65	<0.825	mg/kg	Q35801
Benzyl alcohol	ND	0.66	<0.33	mg/kg	Q35801
Bis(2-chloroethoxy)methane	ND	0.33	<0.165	mg/kg	Q35801
Bis(2-chloroethyl)ether	ND	0.33	<0.165	mg/kg	Q35801
Bis(2-chloroisopropyl)ether	ND	0.33	<0.165	mg/kg	Q35801
Bis(2-ethylhexyl)phthalate	ND	0.33	<0.165	mg/kg	Q35801
Butylbenzylphthalate	ND	0.33	<0.165	mg/kg	Q35801
Chrysene	ND	0.33	<0.165	mg/kg	Q35801
Di-n-butylphthalate	ND	0.33	<0.165	mg/kg	Q35801
Di-n-octylphthalate	ND	0.33	<0.165	mg/kg	Q35801
Dibenzo(a,h)anthracene	ND	0.33	<0.165	mg/kg	Q35801
Dibenzofuran	ND	0.33	<0.165	mg/kg	Q35801
Diethylphthalate	ND	0.33	<0.165	mg/kg	Q35801
Dimethylphthalate	ND	0.33	<0.165	mg/kg	Q35801
Fluoranthene	ND	0.33	<0.165	mg/kg	Q35801
Fluorene	ND	0.33	<0.165	mg/kg	Q35801
Hexachlorobenzene	ND	0.33	<0.165	mg/kg	Q35801
Hexachlorobutadiene	ND	0.33	<0.165	mg/kg	Q35801
Hexachlorocyclopentadiene	ND	0.33	<0.165	mg/kg	Q35801
Hexachloroethane	ND	0.33	<0.165	mg/kg	Q35801
Indeno(1,2,3-cd)pyrene	ND	0.33	<0.165	mg/kg	Q35801
Isophorone	ND	0.33	<0.165	mg/kg	Q35801
N-Nitrosodi-n-propylamine	ND	0.33	<0.165	mg/kg	Q35801
N-Nitrosodiphenylamine	ND	0.33	<0.165	mg/kg	Q35801
Naphthalene	ND	0.33	<0.165	mg/kg	Q35801
Nitrobenzene	ND	0.33	<0.165	mg/kg	Q35801
Pentachlorophenol	ND	1.65	<0.825	mg/kg	Q35801
Phenanthrene	ND	0.33	<0.165	mg/kg	Q35801
Phenol	ND	0.33	<0.165	mg/kg	Q35801
Pyrene	ND	0.33	<0.165	mg/kg	Q35801

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2,4-Trichlorobenzene	1.03352	1.6765	mg/kg	62	39-98	Q35801
1,4-Dichlorobenzene	1.04726	1.6765	mg/kg	62	37-95	Q35801
2,4-Dinitrotoluene	1.41367	1.6765	mg/kg	84	56-128	Q35801
2-Chlorophenol	1.17432	1.6765	mg/kg	70	37-98	Q35801

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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908772

Date/Time Submitted: 9/30/08 13:30

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
4-Chloro-3-methylphenol	1.37914	1.6765	mg/kg	82	45-111	Q35801		
4-Nitrophenol	1.41099	1.6765	mg/kg	84	20-157	Q35801		
Acenaphthene	1.30405	1.6765	mg/kg	78	44-110	Q35801		
N-Nitrosodi-n-propylamine	1.14951	1.6765	mg/kg	69	38-101	Q35801		
Pentachlorophenol	1.37378	1.6765	mg/kg	82	53-127	Q35801		
Phenol	1.09084	1.6765	mg/kg	65	34-102	Q35801		
Pyrene	1.35903	1.6765	mg/kg	81	54-131	Q35801		
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
226366 1,2,4-Trichlorobenzene	0.98968	1.6647	mg/kg	59	26-97	Q35801		
1,4-Dichlorobenzene	0.94007	1.6647	mg/kg	56	23-92	Q35801		
2,4-Dinitrotoluene	1.29460	1.6647	mg/kg	78	45-127	Q35801		
2-Chlorophenol	1.06824	1.6647	mg/kg	64	25-94	Q35801		
4-Chloro-3-methylphenol	1.33122	1.6647	mg/kg	80	31-113	Q35801		
4-Nitrophenol	1.25499	1.6647	mg/kg	75	17-150	Q35801		
Acenaphthene	1.33322	1.6647	mg/kg	80	36-107	Q35801		
N-Nitrosodi-n-propylamine	1.14813	1.6647	mg/kg	69	22-105	Q35801		
Pentachlorophenol	1.55459	1.6647	mg/kg	93	39-137	Q35801		
Phenol	1.26664	1.6647	mg/kg	76	23-97	Q35801		
Pyrene	1.18109	1.6647	mg/kg	71	45-133	Q35801		
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
226366 1,2,4-Trichlorobenzene	1.06168	1.6675	mg/kg	64	26-97	7	0 - 37	Q35801
1,4-Dichlorobenzene	1.07202	1.6675	mg/kg	64	23-92	13	0 - 36	Q35801
2,4-Dinitrotoluene	1.60120	1.6675	mg/kg	96	45-127	21	0 - 29	Q35801
2-Chlorophenol	1.17672	1.6675	mg/kg	71	25-94	10	0 - 37	Q35801
4-Chloro-3-methylphenol	1.39713	1.6675	mg/kg	84	31-113	5	0 - 32	Q35801
4-Nitrophenol	1.22307	1.6675	mg/kg	73	17-150	3	0 - 32	Q35801
Acenaphthene	1.35311	1.6675	mg/kg	81	36-107	1	0 - 32	Q35801
N-Nitrosodi-n-propylamine	1.36378	1.6675	mg/kg	82	22-105	17	0 - 37	Q35801
Pentachlorophenol	1.71490	1.6675	mg/kg	103	39-137	10	0 - 27	Q35801
Phenol	1.14704	1.6675	mg/kg	69	23-97	10	0 - 42	Q35801
Pyrene	1.38212	1.6675	mg/kg	83	45-133	16	0 - 27	Q35801

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NC Drinking Water Cert. No. 37735

## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908772  
Date/Time Submitted: 9/30/08 13:30

### Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q35830
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q35830
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q35830
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q35830
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35830
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35830
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35830
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q35830
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35830
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q35830
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q35830
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35830
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q35830
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35830
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q35830
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35830
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35830
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q35830
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q35830
2-Chlorotoluene	ND	0.05	<0.025	mg/kg	Q35830
2-Hexanone	ND	0.05	<0.0025	mg/kg	Q35830
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q35830
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q35830
Acetone	ND	0.05	<0.025	mg/kg	Q35830
Benzene	ND	0.003	<0.0015	mg/kg	Q35830
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q35830
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q35830
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q35830
Bromoform	ND	0.005	<0.0025	mg/kg	Q35830
Bromomethane	ND	0.01	<0.005	mg/kg	Q35830
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q35830
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q35830
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q35830
Chloroethane	ND	0.01	<0.005	mg/kg	Q35830

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## Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908772

Date/Time Submitted: 9/30/08 13:30

Method Blank	Result	RL	Control Limit	Units	QC Batch ID	
Chloroform	ND	0.005	<0.0025	mg/kg	Q35830	
Chloromethane	ND	0.005	<0.0025	mg/kg	Q35830	
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35830	
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35830	
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg	Q35830	
Ethybenzene	ND	0.005	<0.0025	mg/kg	Q35830	
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg	Q35830	
Isopropylbenzene	ND	0.005	<0.0025	mg/kg	Q35830	
m,p-Xylenes	ND	0.01	<0.005	mg/kg	Q35830	
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg	Q35830	
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg	Q35830	
Methylene chloride	ND	0.005	<0.0025	mg/kg	Q35830	
n-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35830	
n-Propylbenzene	ND	0.005	<0.0025	mg/kg	Q35830	
Naphthalene	ND	0.01	<0.005	mg/kg	Q35830	
o-Xylene	ND	0.005	<0.0025	mg/kg	Q35830	
p-Isopropyltoluene	ND	0.005	<0.0025	mg/kg	Q35830	
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35830	
Styrene	ND	0.005	<0.0025	mg/kg	Q35830	
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q35830	
Tetrachloroethene	ND	0.005	<0.0025	mg/kg	Q35830	
Toluene	ND	0.005	<0.0025	mg/kg	Q35830	
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q35830	
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q35830	
Trichloroethene	ND	0.005	<0.0025	mg/kg	Q35830	
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg	Q35830	
Vinyl acetate	ND	0.025	<0.0125	mg/kg	Q35830	
Vinyl chloride	ND	0.005	<0.0025	mg/kg	Q35830	
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	
					QC Batch ID	
1,1-Dichloroethene	0.05788	0.05	mg/kg	116	57-122	Q35830
Benzene	0.05747	0.05	mg/kg	115	62-119	Q35830
Chlorobenzene	0.05538	0.05	mg/kg	111	61-124	Q35830
Toluene	0.04935	0.05	mg/kg	99	57-122	Q35830
Trichloroethene	0.05187	0.05	mg/kg	104	59-129	Q35830

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

## Level II QC Report

10/16/08

MACTEC Eng. & Consulting, Inc.

Project ID: Mills Gap

COC Group Number: G0908772

Date/Time Submitted: 9/30/08 13:30

Attn: Susan Kelly  
1308 Patton Avenue  
Asheville, NC 28806

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:						
226187 1,1-Dichloroethene	0.06755	0.05	mg/kg	135	44-140	Q35830
Benzene	0.05657	0.05	mg/kg	113	46-136	Q35830
Chlorobenzene	0.04893	0.05	mg/kg	98	47-135	Q35830
Toluene	0.04937	0.05	mg/kg	99	47-136	Q35830
Trichloroethylene	0.05488	0.05	mg/kg	110	45-141	Q35830

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:								
226187 1,1-Dichloroethene	0.06238	0.05	mg/kg	125	44-140	8	0 - 23	Q35830
Benzene	0.05579	0.05	mg/kg	112	46-136	1	0 - 22	Q35830
Chlorobenzene	0.046	0.05	mg/kg	92	47-135	6	0 - 22	Q35830
Toluene	0.04676	0.05	mg/kg	94	47-136	5	0 - 22	Q35830
Trichloroethylene	0.05152	0.05	mg/kg	103	45-141	6	0 - 23	Q35830



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1308 Patton Avenue  
Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G0908772

Date/Time Submitted: 9/30/08 13:30

### Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Antimony	0.0012	0.01	<0.005	mg/L	Q35840
Arsenic	-0.0014	0.01	<0.005	mg/L	Q35840
Beryllium	ND	0.002	<0.001	mg/L	Q35840
Cadmium	0.0001	0.001	<0.0005	mg/L	Q35840
Chromium	-0.0003	0.005	<0.0025	mg/L	Q35840
Copper	-0.0004	0.01	<0.005	mg/L	Q35840
Lead	0.0002	0.005	<0.0025	mg/L	Q35840
Manganese	0.0021	0.01	<0.005	mg/L	Q35840
Nickel	0.0008	0.01	<0.005	mg/L	Q35840
Selenium	0.0018	0.02	<0.01	mg/L	Q35840
Silver	0.0001	0.005	<0.0025	mg/L	Q35840
Thallium	-0.0005	0.01	<0.005	mg/L	Q35840
Zinc	0.0024	0.03	<0.015	mg/L	Q35840
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Antimony	0.2148	0.25	mg/L	86	80-120
Arsenic	0.2164	0.25	mg/L	87	80-120
Beryllium	0.2118	0.25	mg/L	85	80-120
Cadmium	0.2134	0.25	mg/L	85	80-120
Chromium	0.2131	0.25	mg/L	85	80-120
Copper	0.2173	0.25	mg/L	87	80-120
Lead	0.2186	0.25	mg/L	87	80-120
Manganese	0.219	0.25	mg/L	88	80-120
Nickel	0.2156	0.25	mg/L	86	80-120
Selenium	0.2133	0.25	mg/L	85	80-120
Silver	0.2198	0.25	mg/L	88	80-120
Thallium	0.2169	0.25	mg/L	87	80-120
Zinc	0.2113	0.25	mg/L	85	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID:					QC Batch ID
226373 Antimony	0.2148	0.25	mg/L	85	75-125
Arsenic	0.2176	0.25	mg/L	87	75-125
Beryllium	0.2173	0.25	mg/L	87	75-125
Cadmium	0.2103	0.25	mg/L	84	75-125

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# Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908772  
Date/Time Submitted: 9/30/08 13:30

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:						
226373 Chromium	0.2095	0.25	mg/L	84	75-125	Q35840
Copper	0.2168	0.25	mg/L	87	75-125	Q35840
Lead	0.2122	0.25	mg/L	84	75-125	Q35840
Manganese	0.2218	0.25	mg/L	79	75-125	Q35840
Nickel	0.2088	0.25	mg/L	83	75-125	Q35840
Selenium	0.2207	0.25	mg/L	85	75-125	Q35840
Silver	0.2158	0.25	mg/L	86	75-125	Q35840
Thallium	0.2099	0.25	mg/L	84	75-125	Q35840
Zinc	2.5316	0.25	mg/L	121	75-125	Q35840

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:								
226373 Antimony	0.2081	0.25	mg/L	83	75-125	3	0 - 20	Q35840
Arsenic	0.2122	0.25	mg/L	85	75-125	3	0 - 20	Q35840
Beryllium	0.2095	0.25	mg/L	84	75-125	4	0 - 20	Q35840
Cadmium	0.2069	0.25	mg/L	83	75-125	2	0 - 20	Q35840
Chromium	0.2047	0.25	mg/L	82	75-125	2	0 - 20	Q35840
Copper	0.2132	0.25	mg/L	85	75-125	2	0 - 20	Q35840
Lead	0.2065	0.25	mg/L	82	75-125	3	0 - 20	Q35840
Manganese	0.2244	0.25	mg/L	80	75-125	1	0 - 20	Q35840
Nickel	0.2052	0.25	mg/L	81	75-125	2	0 - 20	Q35840
Selenium	0.2134	0.25	mg/L	82	75-125	3	0 - 20	Q35840
Silver	0.2115	0.25	mg/L	85	75-125	2	0 - 20	Q35840
Thallium	0.2057	0.25	mg/L	82	75-125	2	0 - 20	Q35840
Zinc	2.508	0.25	mg/L	112	75-125	1	0 - 20	Q35840



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Project ID: Mills Gap

COC Group Number: G0908772

Date/Time Submitted: 9/30/08 13:30

### Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Antimony	0.0169	0.2	<0.1	mg/kg	Q35843
Arsenic	-0.0183	0.5	<0.25	mg/kg	Q35843
Beryllium	-0.0005	0.25	<0.125	mg/kg	Q35843
Cadmium	0.0011	0.25	<0.125	mg/kg	Q35843
Chromium	0.0458	0.25	<0.125	mg/kg	Q35843
Copper	0.0441	0.5	<0.25	mg/kg	Q35843
Lead	0.0559	0.25	<0.125	mg/kg	Q35843
Manganese	0.1359	0.25	<0.125	mg/kg	Q35843
Nickel	0.0491	0.5	<0.25	mg/kg	Q35843
Selenium	0.0796	0.5	<0.25	mg/kg	Q35843
Silver	0.0004	0.25	<0.125	mg/kg	Q35843
Thallium	-0.0017	0.5	<0.25	mg/kg	Q35843
Zinc	0.5736	2.5	<1.25	mg/kg	Q35843
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Antimony	22.8692	25	mg/kg	91	80-120
Arsenic	23.4386	25	mg/kg	94	80-120
Beryllium	23.5685	25	mg/kg	94	80-120
Cadmium	22.9656	25	mg/kg	92	80-120
Chromium	23.6599	25	mg/kg	95	80-120
Copper	25.3636	25	mg/kg	101	80-120
Lead	23.4874	25	mg/kg	94	80-120
Manganese	24.4317	25	mg/kg	98	80-120
Nickel	23.5311	25	mg/kg	94	80-120
Selenium	22.6204	25	mg/kg	90	80-120
Silver	23.5444	25	mg/kg	94	80-120
Thallium	23.3135	25	mg/kg	93	80-120
Zinc	22.8866	25	mg/kg	92	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID:					QC Batch ID
226346 Antimony	4.3672	25	mg/kg	15 #	75-125
Arsenic	21.4641	25	mg/kg	74 #	75-125
Beryllium	18.6546	25	mg/kg	67 #	75-125
Cadmium	16.1444	25	mg/kg	61 #	75-125

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# Level II QC Report

10/16/08

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

Project ID: Mills Gap

COC Group Number: G0908772  
Date/Time Submitted: 9/30/08 13:30

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:						
226346 Chromium	59.2443	25	mg/kg	68 #	75-125	Q35843
Copper	32.3707	25	mg/kg	79	75-125	Q35843
Lead	27.2745	25	mg/kg	67 #	75-125	Q35843
Manganese	716	25	mg/kg	216 #	75-125	Q35843
Nickel	42.7096	25	mg/kg	62 #	75-125	Q35843
Selenium	12.2228	25	mg/kg	70 #	75-125	Q35843
Silver	20.0195	25	mg/kg	78	75-125	Q35843
Thallium	10.0198	25	mg/kg	58 #	75-125	Q35843
Zinc	127.574	25	mg/kg	66 #	75-125	Q35843

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:								
226346 Antimony	3.6508	24.630	mg/kg	12 #	75-125	18	0 - 20	Q35843
Arsenic	19.9542	24.630	mg/kg	69 #	75-125	7	0 - 20	Q35843
Beryllium	18.2337	24.630	mg/kg	67 #	75-125	2	0 - 20	Q35843
Cadmium	15.7204	24.630	mg/kg	60 #	75-125	3	0 - 20	Q35843
Chromium	50.9769	24.630	mg/kg	35 #	75-125	15	0 - 20	Q35843
Copper	33.1928	24.630	mg/kg	83	75-125	3	0 - 20	Q35843
Lead	24.5989	24.630	mg/kg	58 #	75-125	10	0 - 20	Q35843
Manganese	533	25	mg/kg	-516 #	75-125	29 #	0 - 20	Q35843
Nickel	39.1116	24.630	mg/kg	49 #	75-125	9	0 - 20	Q35843
Selenium	12.524	24.630	mg/kg	73 #	75-125	2	0 - 20	Q35843
Silver	19.5215	24.630	mg/kg	77	75-125	3	0 - 20	Q35843
Thallium	10.1969	24.630	mg/kg	59 #	75-125	2	0 - 20	Q35843
Zinc	114.103	24.630	mg/kg	12 #	75-125	11	0 - 20	Q35843



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Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G0908772

Date/Time Submitted: 9/30/08 13:30

### Semi-volatile Organics by GC/MS, method 8270C

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	10	<5	µg/L	Q35902
1,2-Dichlorobenzene	ND	10	<5	µg/L	Q35902
1,3-Dichlorobenzene	ND	10	<5	µg/L	Q35902
1,4-Dichlorobenzene	ND	10	<5	µg/L	Q35902
2,4,5-Trichlorophenol	ND	10	<5	µg/L	Q35902
2,4,6-Trichlorophenol	ND	10	<5	µg/L	Q35902
2,4-Dichlorophenol	ND	10	<5	µg/L	Q35902
2,4-Dimethylphenol	ND	10	<5	µg/L	Q35902
2,4-Dinitrophenol	ND	10	<5	µg/L	Q35902
2,4-Dinitrotoluene	ND	10	<5	µg/L	Q35902
2,6-Dinitrotoluene	ND	10	<5	µg/L	Q35902
2-Chloronaphthalene	ND	10	<5	µg/L	Q35902
2-Chlorophenol	ND	10	<5	µg/L	Q35902
2-Methylnaphthalene	ND	10	<5	µg/L	Q35902
2-Methylphenol	ND	10	<5	µg/L	Q35902
2-Nitrophenol	ND	10	<5	µg/L	Q35902
3&4-Methylphenol	ND	10	<5	µg/L	Q35902
3,3'-Dichlorobenzidine	ND	10	<5	µg/L	Q35902
4,6-Dinitro-2-methylphenol	ND	10	<5	µg/L	Q35902
4-Bromophenylphenylether	ND	10	<5	µg/L	Q35902
4-Chloro-3-methylphenol	ND	10	<5	µg/L	Q35902
4-Chlorophenylphenylether	ND	10	<5	µg/L	Q35902
4-Nitrophenol	ND	10	<5	µg/L	Q35902
Acenaphthene	ND	10	<5	µg/L	Q35902
Acenaphthylene	ND	10	<5	µg/L	Q35902
Anthracene	ND	10	<5	µg/L	Q35902
Benzo(a)anthracene	ND	10	<5	µg/L	Q35902
Benzo(a)pyrene	ND	10	<5	µg/L	Q35902
Benzo(b)fluoranthene	ND	10	<5	µg/L	Q35902
Benzo(g,h,i)perylene	ND	10	<5	µg/L	Q35902
Benzo(k)fluoranthene	ND	10	<5	µg/L	Q35902
Bis(2-chloroethoxy)methane	ND	10	<5	µg/L	Q35902
Bis(2-chloroethyl)ether	ND	10	<5	µg/L	Q35902
Bis(2-chloroisopropyl)ether	ND	10	<5	µg/L	Q35902

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Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G0908772  
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Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Bis(2-ethylhexyl)phthalate	ND	10	<5	µg/L	Q35902
Butylbenzylphthalate	ND	10	<5	µg/L	Q35902
Chrysene	ND	10	<5	µg/L	Q35902
Di-n-butylphthalate	ND	10	<5	µg/L	Q35902
Di-n-octylphthalate	ND	10	<5	µg/L	Q35902
Dibenzo(a,h)anthracene	ND	10	<5	µg/L	Q35902
Dibenzofuran	ND	10	<5	µg/L	Q35902
Diethylphthalate	ND	10	<5	µg/L	Q35902
Dimethylphthalate	ND	10	<5	µg/L	Q35902
Fluoranthene	ND	10	<5	µg/L	Q35902
Fluorene	ND	10	<5	µg/L	Q35902
Hexachlorobenzene	ND	10	<5	µg/L	Q35902
Hexachlorobutadiene	ND	10	<5	µg/L	Q35902
Hexachlorocyclopentadiene	ND	10	<5	µg/L	Q35902
Hexachloroethane	ND	10	<5	µg/L	Q35902
Indeno(1,2,3-cd)pyrene	ND	10	<5	µg/L	Q35902
Isophorone	ND	10	<5	µg/L	Q35902
N-Nitrosodi-n-propylamine	ND	10	<5	µg/L	Q35902
N-Nitrosodiphenylamine	ND	10	<5	µg/L	Q35902
Naphthalene	ND	10	<5	µg/L	Q35902
Nitrobenzene	ND	10	<5	µg/L	Q35902
Pentachlorophenol	ND	10	<5	µg/L	Q35902
Phenanthrene	ND	10	<5	µg/L	Q35902
Phenol	ND	10	<5	µg/L	Q35902
Pyrene	ND	10	<5	µg/L	Q35902

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2,4-Trichlorobenzene	27.27	50	µg/L	55	26-96	Q35902
1,4-Dichlorobenzene	28.04	50	µg/L	56	19-95	Q35902
2,4-Dinitrotoluene	37.49	50	µg/L	75	47-122	Q35902
2-Chlorophenol	28.23	50	µg/L	56	20-95	Q35902
4-Chloro-3-methylphenol	33.96	50	µg/L	68	36-104	Q35902
4-Nitrophenol	11.51	50	µg/L	23	10-117	Q35902
Acenaphthene	37.41	50	µg/L	75	36-109	Q35902
N-Nitrosodi-n-propylamine	32.02	50	µg/L	64	31-100	Q35902
Pentachlorophenol	51.34	50	µg/L	103	48-124	Q35902

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Project ID: Mills Gap

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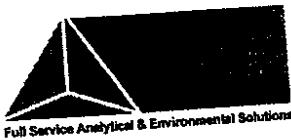
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Phenol	10.38	50	µg/L	21	10-99	Q35902
Pyrene	36.71	50	µg/L	73	55-120	Q35902

### Mercury by CVAA, method 7470A

Method Blank	Result	RL	Control Limit	Units	QC Batch ID			
Mercury	-0.00008	0.0002	<0.0001	mg/L	Q35913			
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Mercury	0.00959	0.0093	mg/L	102	80-120	Q35913		
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Sample ID: 225833 Mercury	0.00684	0.0093	mg/L	74 #	80-120	Q35913		
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID: 225833 Mercury	0.00694	0.0093	mg/L	75 #	80-120	1	0 - 20	Q35913

### Cyanide by Colorimetric Method, method 9014

Method Blank	Result	RL	Control Limit	Units	QC Batch ID			
Cyanide, Total	0.0016	0.005	<0.0025	mg/L	Q35970			
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Cyanide, Total	0.0948	0.1	mg/L	95	80-120	Q35970		
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Sample ID: 226350 Cyanide, Total	0.0968	0.11	mg/L	87	80-120	Q35970		
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID: 226350 Cyanide, Total	0.0930	0.11	mg/L	84	80-120	4	0 - 20	Q35970



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Project ID: Mills Gap

COC Group Number: G0908772  
Date/Time Submitted: 9/30/08 13:30

## Cyanide by Spectrophotometric Method, method 9014

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Cyanide, Total	0.0958	0.5	<0.25	mg/kg	Q36026
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Cyanide, Total	4.7716	5	mg/kg	95	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 226970 Cyanide, Total	3.440	5	mg/kg	59 #	80-120
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 226970 Cyanide, Total	3.348	5	mg/kg	57 #	80-120
				3	0 - 20 Q36026

## Mercury by CVAA, method 7471A

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Mercury	-0.00618	0.02	<0.01	mg/kg	Q36055
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Mercury	0.42678	0.417	mg/kg	102	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 225849 Mercury	0.42510	0.4048	mg/kg	103	80-120
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 225849 Mercury	0.43109	0.3847	mg/kg	110	80-120
#-See Case Narrative				1	0 - 20 Q36055







# Case Narrative



Date: 10/27/08  
Company: MACTEC Eng. & Consulting, Inc  
Contact: Susan Kelly  
Address: 1308 Patton Avenue  
Asheville, NC 28806

Client Project ID: Mills Gap  
Prism COC Group No: G1008426  
Collection Date(s): 10/9/08 thru 10/10/08  
Lab Submittal Date(s): 10/11/08

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 35 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

Analysis Note for Q36096 LCS Pyrene: LCS recovery outside the control limits. Compound was not detected in associated samples.  
Analysis Note for Q36096 MS N-Nitrosodi-n-propylamine: MS recovery outside of the control limits.  
Analysis Note for Q36096 MS Pyrene: MS recovery outside the control limits.  
Analysis Note for Q36096 MSD Pyrene: MSD recovery outside the control limits.

## Volatile Analysis

No Anomalies Reported

## Metals Analysis

Analysis Note for Q36184 MS Zinc: Sample concentration too high for recovery evaluation.  
Analysis Note for Q36184 MSD Zinc: Sample concentration too high for recovery evaluation.

## Wet Lab and Micro Analysis

No Anomalies Reported

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

Date Reviewed by: Paula A. Gilleland  
Signature: Paula A. Gilleland  
Review Date: 10/27/08

Project Manager: Paula A. Gilleland  
Signature: Paula A. Gilleland  
Approval Date: 10/27/08

## 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

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-04  
Prism Sample ID: 227705  
COC Group: G1008426  
Time Collected: 10/09/08  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 13:38	erussell	Q36117
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 13:38	erussell	Q36117
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 13:38	erussell	Q36117
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	10/15/08 13:38	erussell	Q36117
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	10/15/08 13:38	erussell	Q36117
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	10/15/08 13:38	erussell	Q36117
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 13:38	erussell	Q36117
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	10/15/08 13:38	erussell	Q36117
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 13:38	erussell	Q36117
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	10/15/08 13:38	erussell	Q36117
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/15/08 13:38	erussell	Q36117
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	10/15/08 13:38	erussell	Q36117
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	10/15/08 13:38	erussell	Q36117
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 13:38	erussell	Q36117
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 13:38	erussell	Q36117
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 13:38	erussell	Q36117
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	10/15/08 13:38	erussell	Q36117
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 13:38	erussell	Q36117
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 13:38	erussell	Q36117
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 13:38	erussell	Q36117
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	10/15/08 13:38	erussell	Q36117
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	10/15/08 13:38	erussell	Q36117
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 13:38	erussell	Q36117
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	10/15/08 13:38	erussell	Q36117
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 13:38	erussell	Q36117
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	10/15/08 13:38	erussell	Q36117
Acetone	BRL	µg/L	10	0.44	1	8260B	10/15/08 13:38	erussell	Q36117

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-04  
Prism Sample ID: 227705  
COC Group: G1008426  
Time Collected: 10/09/08  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	10/15/08 13:38	erussell	Q36117
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	10/15/08 13:38	erussell	Q36117
Benzene	BRL	µg/L	1.0	0.094	1	8260B	10/15/08 13:38	erussell	Q36117
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	10/15/08 13:38	erussell	Q36117
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	10/15/08 13:38	erussell	Q36117
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	10/15/08 13:38	erussell	Q36117
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 13:38	erussell	Q36117
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	10/15/08 13:38	erussell	Q36117
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	10/15/08 13:38	erussell	Q36117
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	10/15/08 13:38	erussell	Q36117
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 13:38	erussell	Q36117
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 13:38	erussell	Q36117
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	10/15/08 13:38	erussell	Q36117
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	10/15/08 13:38	erussell	Q36117
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	10/15/08 13:38	erussell	Q36117
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 13:38	erussell	Q36117
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	10/15/08 13:38	erussell	Q36117
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	10/15/08 13:38	erussell	Q36117
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	10/15/08 13:38	erussell	Q36117
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/15/08 13:38	erussell	Q36117
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	10/15/08 13:38	erussell	Q36117
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	10/15/08 13:38	erussell	Q36117
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 13:38	erussell	Q36117
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	10/15/08 13:38	erussell	Q36117
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	10/15/08 13:38	erussell	Q36117
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	10/15/08 13:38	erussell	Q36117
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	10/15/08 13:38	erussell	Q36117

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

## Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-04  
Prism Sample ID: 227705  
COC Group: G1008426  
Time Collected: 10/09/08  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	10/15/08 13:38	erussell	Q36117
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	10/15/08 13:38	erussell	Q36117
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	10/15/08 13:38	erussell	Q36117
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 13:38	erussell	Q36117
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	10/15/08 13:38	erussell	Q36117
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/15/08 13:38	erussell	Q36117
Styrene	BRL	µg/L	1.0	0.11	1	8260B	10/15/08 13:38	erussell	Q36117
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 13:38	erussell	Q36117
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 13:38	erussell	Q36117
Toluene	BRL	µg/L	1.0	0.31	1	8260B	10/15/08 13:38	erussell	Q36117
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	10/15/08 13:38	erussell	Q36117
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	10/15/08 13:38	erussell	Q36117
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	10/15/08 13:38	erussell	Q36117
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	10/15/08 13:38	erussell	Q36117
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	10/15/08 13:38	erussell	Q36117
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	10/15/08 13:38	erussell	Q36117

Surrogate	% Recovery	Control Limits
Toluene-d8	102	75 - 121
Dibromofluoromethane	103	74 - 133
Bromofluorobenzene	103	69 - 139

TIC's By 8260

Est.Conc      Units

No TICs were detected.

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NC Drinking Water Cert. No. 37735

## Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-04  
Prism Sample ID: 227705  
COC Group: G1008426  
Time Collected: 10/09/08  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

### 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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## Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-1  
Prism Sample ID: 227706  
COC Group: G1008426  
Time Collected: 10/09/08 11:45  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 19:31	erussell	Q36117
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 19:31	erussell	Q36117
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 19:31	erussell	Q36117
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	10/15/08 19:31	erussell	Q36117
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	10/15/08 19:31	erussell	Q36117
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	10/15/08 19:31	erussell	Q36117
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 19:31	erussell	Q36117
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	10/15/08 19:31	erussell	Q36117
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 19:31	erussell	Q36117
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	10/15/08 19:31	erussell	Q36117
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/15/08 19:31	erussell	Q36117
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	10/15/08 19:31	erussell	Q36117
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	10/15/08 19:31	erussell	Q36117
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 19:31	erussell	Q36117
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 19:31	erussell	Q36117
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 19:31	erussell	Q36117
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	10/15/08 19:31	erussell	Q36117
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 19:31	erussell	Q36117
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 19:31	erussell	Q36117
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 19:31	erussell	Q36117
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	10/15/08 19:31	erussell	Q36117
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	10/15/08 19:31	erussell	Q36117
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 19:31	erussell	Q36117
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	10/15/08 19:31	erussell	Q36117
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 19:31	erussell	Q36117
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	10/15/08 19:31	erussell	Q36117
Acetone	BRL	µg/L	10	0.44	1	8260B	10/15/08 19:31	erussell	Q36117

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-1  
Prism Sample ID: 227706  
COC Group: G1008426  
Time Collected: 10/09/08 11:45  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	10/15/08 19:31	erussell	Q36117
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	10/15/08 19:31	erussell	Q36117
Benzene	BRL	µg/L	1.0	0.094	1	8260B	10/15/08 19:31	erussell	Q36117
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	10/15/08 19:31	erussell	Q36117
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	10/15/08 19:31	erussell	Q36117
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	10/15/08 19:31	erussell	Q36117
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 19:31	erussell	Q36117
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	10/15/08 19:31	erussell	Q36117
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	10/15/08 19:31	erussell	Q36117
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	10/15/08 19:31	erussell	Q36117
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 19:31	erussell	Q36117
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 19:31	erussell	Q36117
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	10/15/08 19:31	erussell	Q36117
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	10/15/08 19:31	erussell	Q36117
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	10/15/08 19:31	erussell	Q36117
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 19:31	erussell	Q36117
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	10/15/08 19:31	erussell	Q36117
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	10/15/08 19:31	erussell	Q36117
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	10/15/08 19:31	erussell	Q36117
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/15/08 19:31	erussell	Q36117
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	10/15/08 19:31	erussell	Q36117
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	10/15/08 19:31	erussell	Q36117
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 19:31	erussell	Q36117
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	10/15/08 19:31	erussell	Q36117
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	10/15/08 19:31	erussell	Q36117
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	10/15/08 19:31	erussell	Q36117
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	10/15/08 19:31	erussell	Q36117

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-1  
Prism Sample ID: 227706  
COC Group: G1008426  
Time Collected: 10/09/08 11:45  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	10/15/08 19:31	erussell	Q36117
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	10/15/08 19:31	erussell	Q36117
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	10/15/08 19:31	erussell	Q36117
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 19:31	erussell	Q36117
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	10/15/08 19:31	erussell	Q36117
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/15/08 19:31	erussell	Q36117
Styrene	BRL	µg/L	1.0	0.11	1	8260B	10/15/08 19:31	erussell	Q36117
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 19:31	erussell	Q36117
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 19:31	erussell	Q36117
Toluene	BRL	µg/L	1.0	0.31	1	8260B	10/15/08 19:31	erussell	Q36117
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	10/15/08 19:31	erussell	Q36117
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	10/15/08 19:31	erussell	Q36117
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	10/15/08 19:31	erussell	Q36117
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	10/15/08 19:31	erussell	Q36117
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	10/15/08 19:31	erussell	Q36117
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	10/15/08 19:31	erussell	Q36117

Surrogate	% Recovery	Control Limits
Toluene-d8	103	75 - 121
Dibromofluoromethane	102	74 - 133
Bromofluorobenzene	100	69 - 139

TIC's By 8260	Est.Conc	Units
No TICs were detected.		

#### Semi-volatile Organics by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 19:45	kcampigotto	Q36096
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/14/08 19:45	kcampigotto	Q36096

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NC Drinking Water Cert. No. 37735

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-1  
Prism Sample ID: 227706  
COC Group: G1008426  
Time Collected: 10/09/08 11:45  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 19:45	kcampigotto	Q36096
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/14/08 19:45	kcampigotto	Q36096
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/14/08 19:45	kcampigotto	Q36096
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 19:45	kcampigotto	Q36096
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/14/08 19:45	kcampigotto	Q36096
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 19:45	kcampigotto	Q36096
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/14/08 19:45	kcampigotto	Q36096
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/14/08 19:45	kcampigotto	Q36096
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 19:45	kcampigotto	Q36096
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/14/08 19:45	kcampigotto	Q36096

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-1  
Prism Sample ID: 227706  
COC Group: G1008426  
Time Collected: 10/09/08 11:45  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/14/08 19:45	kcampigotto	Q36096
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 19:45	kcampigotto	Q36096
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 19:45	kcampigotto	Q36096

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-1  
Prism Sample ID: 227706  
COC Group: G1008426  
Time Collected: 10/09/08 11:45  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/14/08 19:45	kcampigotto	Q36096
Sample Preparation:									
1030 mL / 1 mL      3510C      10/14/08 10:00      smanivah P22778									
Surrogate % Recovery Control Limits									
Terphenyl-d14 114 41 - 136									
Phenol-d5 12 10 - 78									
Nitrobenzene-d5 73 13 - 107									
2-Fluorophenol 30 10 - 75									
2-Fluorobiphenyl 84 27 - 107									
2,4,6-Tribromophenol 98 38 - 117									

TIC's By 8270	Est.Conc	Units							
No TICs were detected.									
<u>Cyanide by Colorimetric Method</u>									
Cyanide, Total BRL mg/L 0.0050 0.0026 1 9014 10/23/08 15:49 heasler Q36406									
Sample Preparation: 50 mL / 50 mL 9010 10/22/08 11:56 heasler P22856									
<u>Mercury by CVAA</u>									
Mercury BRL mg/L 0.0002 0.000011 1 7470A 10/16/08 16:29 heasler Q36192									
Sample Preparation: 20 mL / 30 mL 7470A 10/16/08 10:35 mbarber P22815									
<u>Metals by ICP</u>									
Antimony BRL mg/L 0.010 0.0023 1 6010B 10/20/08 17:35 mcampbell Q36184									
Arsenic BRL mg/L 0.010 0.0022 1 6010B 10/20/08 17:35 mcampbell Q36184									
Beryllium BRL mg/L 0.0020 0.00022 1 6010B 10/17/08 1:08 mcampbell Q36184									
Cadmium BRL mg/L 0.0010 0.00017 1 6010B 10/20/08 17:35 mcampbell Q36184									
Chromium 0.0019 J BRL mg/L 0.0050 0.00015 1 6010B 10/22/08 15:39 mcampbell Q36184									
Copper 0.0007 J BRL mg/L 0.010 0.00028 1 6010B 10/17/08 1:08 mcampbell Q36184									

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

## Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-1  
Prism Sample ID: 227706  
COC Group: G1008426  
Time Collected: 10/09/08 11:45  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/17/08 1:08	mcampbell	Q36184
Manganese	0.20	mg/L	0.010	0.0012	1	6010B	10/17/08 1:08	mcampbell	Q36184
Nickel	0.0044 J	mg/L	0.010	0.00042	1	6010B	10/17/08 1:08	mcampbell	Q36184
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/20/08 17:35	mcampbell	Q36184
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/17/08 1:08	mcampbell	Q36184
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 15:39	mcampbell	Q36184
Zinc	0.015 J	mg/L	0.030	0.0023	1	6010B	10/20/08 17:35	mcampbell	Q36184
Sample Preparation:				50 mL	/	50 mL	3010A	10/16/08 9:30	mbarber
P22805									

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4  
Prism Sample ID: 227707  
COC Group: G1008426  
Time Collected: 10/09/08 16:20  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 20:03	erussell	Q36117
1,1,1-Trichloroethane	11	µg/L	1.0	0.20	1	8260B	10/15/08 20:03	erussell	Q36117
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 20:03	erussell	Q36117
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	10/15/08 20:03	erussell	Q36117
1,1-Dichloroethane	4.3	µg/L	1.0	0.088	1	8260B	10/15/08 20:03	erussell	Q36117
1,1-Dichloroethene	0.65 J	µg/L	1.0	0.095	1	8260B	10/15/08 20:03	erussell	Q36117
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 20:03	erussell	Q36117
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	10/15/08 20:03	erussell	Q36117
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 20:03	erussell	Q36117
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	10/15/08 20:03	erussell	Q36117
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/15/08 20:03	erussell	Q36117
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	10/15/08 20:03	erussell	Q36117
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	10/15/08 20:03	erussell	Q36117
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 20:03	erussell	Q36117
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 20:03	erussell	Q36117
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 20:03	erussell	Q36117
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	10/15/08 20:03	erussell	Q36117
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 20:03	erussell	Q36117
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 20:03	erussell	Q36117
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 20:03	erussell	Q36117
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	10/15/08 20:03	erussell	Q36117
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	10/15/08 20:03	erussell	Q36117
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	10/15/08 20:03	erussell	Q36117
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	10/15/08 20:03	erussell	Q36117
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 20:03	erussell	Q36117
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	10/15/08 20:03	erussell	Q36117
Acetone	BRL	µg/L	10	0.44	1	8260B	10/15/08 20:03	erussell	Q36117

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## Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4  
Prism Sample ID: 227707  
COC Group: G1008426  
Time Collected: 10/09/08 16:20  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	10/15/08 20:03	erussell	Q36117
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	10/15/08 20:03	erussell	Q36117
Benzene	BRL	µg/L	1.0	0.094	1	8260B	10/15/08 20:03	erussell	Q36117
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	10/15/08 20:03	erussell	Q36117
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	10/15/08 20:03	erussell	Q36117
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	10/15/08 20:03	erussell	Q36117
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 20:03	erussell	Q36117
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	10/15/08 20:03	erussell	Q36117
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	10/15/08 20:03	erussell	Q36117
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	10/15/08 20:03	erussell	Q36117
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/15/08 20:03	erussell	Q36117
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 20:03	erussell	Q36117
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	10/15/08 20:03	erussell	Q36117
Chloroform	7.7	µg/L	1.0	0.080	1	8260B	10/15/08 20:03	erussell	Q36117
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	10/15/08 20:03	erussell	Q36117
cis-1,2-Dichloroethene	100	µg/L	1.0	0.12	1	8260B	10/15/08 20:03	erussell	Q36117
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	10/15/08 20:03	erussell	Q36117
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	10/15/08 20:03	erussell	Q36117
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	10/15/08 20:03	erussell	Q36117
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/15/08 20:03	erussell	Q36117
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	10/15/08 20:03	erussell	Q36117
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	10/15/08 20:03	erussell	Q36117
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	10/15/08 20:03	erussell	Q36117
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	10/15/08 20:03	erussell	Q36117
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	10/15/08 20:03	erussell	Q36117
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	10/15/08 20:03	erussell	Q36117
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	10/15/08 20:03	erussell	Q36117

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4  
Prism Sample ID: 227707  
COC Group: G1008426  
Time Collected: 10/09/08 16:20  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	10/15/08 20:03	erussell	Q36117
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	10/15/08 20:03	erussell	Q36117
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	10/15/08 20:03	erussell	Q36117
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 20:03	erussell	Q36117
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	10/15/08 20:03	erussell	Q36117
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/15/08 20:03	erussell	Q36117
Styrene	BRL	µg/L	1.0	0.11	1	8260B	10/15/08 20:03	erussell	Q36117
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	10/15/08 20:03	erussell	Q36117
Tetrachloroethene	2.2	µg/L	1.0	0.17	1	8260B	10/15/08 20:03	erussell	Q36117
Toluene	BRL	µg/L	1.0	0.31	1	8260B	10/15/08 20:03	erussell	Q36117
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	10/15/08 20:03	erussell	Q36117
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	10/15/08 20:03	erussell	Q36117
Trichloroethene	250	µg/L	20	1.9	10	8260B	10/16/08 10:30	erussell	Q36117
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	10/15/08 20:03	erussell	Q36117
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	10/15/08 20:03	erussell	Q36117
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	10/15/08 20:03	erussell	Q36117

Surrogate	% Recovery	Control Limits
Toluene-d8	103	75 - 121
Dibromofluoromethane	100	74 - 133
Bromofluorobenzene	101	69 - 139

## TIC's By 8260

No TICs were detected.

## Semi-volatile Organics by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 20:17	kcampigotto	Q36096
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/14/08 20:17	kcampigotto	Q36096

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4  
Prism Sample ID: 227707  
COC Group: G1008426  
Time Collected: 10/09/08 16:20  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 20:17	kcampigotto	Q36096
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/14/08 20:17	kcampigotto	Q36096
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/14/08 20:17	kcampigotto	Q36096
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 20:17	kcampigotto	Q36096
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/14/08 20:17	kcampigotto	Q36096
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 20:17	kcampigotto	Q36096
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/14/08 20:17	kcampigotto	Q36096
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/14/08 20:17	kcampigotto	Q36096
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 20:17	kcampigotto	Q36096
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/14/08 20:17	kcampigotto	Q36096

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4  
Prism Sample ID: 227707  
COC Group: G1008426  
Time Collected: 10/09/08 16:20  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/14/08 20:17	kcampigotto	Q36096
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 20:17	kcampigotto	Q36096
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 20:17	kcampigotto	Q36096

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

## Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4  
Prism Sample ID: 227707  
COC Group: G1008426  
Time Collected: 10/09/08 16:20  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/14/08 20:17	kcampigotto	Q36096
Sample Preparation:		1030 mL /		1 mL	3510C	10/14/08 10:00	smanivah	P22778	
				Surrogate		% Recovery		Control Limits	
				Terphenyl-d14		104		41 - 136	
				Phenol-d5		21		10 - 78	
				Nitrobenzene-d5		76		13 - 107	
				2-Fluorophenol		29		10 - 75	
				2-Fluorobiphenyl		86		27 - 107	
				2,4,6-Tribromophenol		113		38 - 117	

TIC's By 8270	Est.Conc	Units
No TICs were detected.		

### Cyanide by Colorimetric Method

Cyanide, Total	BRL	mg/L	0.0050	0.0026	1	9014	10/23/08 15:49	heasler	Q36406
Sample Preparation:			50 mL /	50 mL	9010	10/22/08 11:56	heasler	P22856	

### Mercury by CVAA

Mercury	BRL	mg/L	0.0002	0.000011	1	7470A	10/16/08 16:33	heasler	Q36192
Sample Preparation:			20 mL /	30 mL	7470A	10/16/08 10:35	mbarber	P22815	

### Metals by ICP

Antimony	BRL	mg/L	0.010	0.0023	1	6010B	10/20/08 17:40	mcampbell	Q36184
Arsenic	BRL	mg/L	0.010	0.0022	1	6010B	10/20/08 17:40	mcampbell	Q36184
Beryllium	0.0005 J	mg/L	0.0020	0.00022	1	6010B	10/17/08 1:13	mcampbell	Q36184
Cadmium	BRL	mg/L	0.0010	0.00017	1	6010B	10/20/08 17:40	mcampbell	Q36184
Chromium	0.0004 J	mg/L	0.0050	0.00015	1	6010B	10/22/08 15:44	mcampbell	Q36184
Copper	0.0005 J	mg/L	0.010	0.00028	1	6010B	10/17/08 1:13	mcampbell	Q36184

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4  
Prism Sample ID: 227707  
COC Group: G1008426  
Time Collected: 10/09/08 16:20  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/17/08 1:13	mcampbell	Q36184
Manganese	0.13	mg/L	0.010	0.0012	1	6010B	10/17/08 1:13	mcampbell	Q36184
Nickel	0.0031 J	mg/L	0.010	0.00042	1	6010B	10/17/08 1:13	mcampbell	Q36184
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/20/08 17:40	mcampbell	Q36184
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/17/08 1:13	mcampbell	Q36184
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 15:44	mcampbell	Q36184
Zinc	0.017 J	mg/L	0.030	0.0023	1	6010B	10/20/08 17:40	mcampbell	Q36184
			50 mL	/	50 mL	3010A	10/16/08 9:30	mbarber	P22805

Sample Preparation:

## 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

## Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5  
Prism Sample ID: 227708  
COC Group: G1008426  
Time Collected: 10/10/08 12:30  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	10	1.0	10	8260B	10/16/08 2:27	erussell	Q36117
1,1,1-Trichloroethane	BRL	µg/L	10	2.0	10	8260B	10/16/08 2:27	erussell	Q36117
1,1,2,2-Tetrachloroethane	BRL	µg/L	10	1.1	10	8260B	10/16/08 2:27	erussell	Q36117
1,1,2-Trichloroethane	BRL	µg/L	10	1.6	10	8260B	10/16/08 2:27	erussell	Q36117
1,1-Dichloroethane	BRL	µg/L	10	0.88	10	8260B	10/16/08 2:27	erussell	Q36117
1,1-Dichloroethene	6.3 J	µg/L	10	0.95	10	8260B	10/16/08 2:27	erussell	Q36117
1,1-Dichloropropene	BRL	µg/L	10	1.9	10	8260B	10/16/08 2:27	erussell	Q36117
1,2,3-Trichlorobenzene	BRL	µg/L	20	2.4	10	8260B	10/16/08 2:27	erussell	Q36117
1,2,3-Trichloropropane	BRL	µg/L	10	1.7	10	8260B	10/16/08 2:27	erussell	Q36117
1,2,4-Trichlorobenzene	BRL	µg/L	10	2.2	10	8260B	10/16/08 2:27	erussell	Q36117
1,2,4-Trimethylbenzene	BRL	µg/L	10	1.6	10	8260B	10/16/08 2:27	erussell	Q36117
1,2-Dibromo-3-chloropropane	BRL	µg/L	20	13	10	8260B	10/16/08 2:27	erussell	Q36117
1,2-Dibromoethane (EDB)	BRL	µg/L	10	1.4	10	8260B	10/16/08 2:27	erussell	Q36117
1,2-Dichlorobenzene	BRL	µg/L	10	1.1	10	8260B	10/16/08 2:27	erussell	Q36117
1,2-Dichloroethane	BRL	µg/L	10	1.2	10	8260B	10/16/08 2:27	erussell	Q36117
1,2-Dichloropropane	BRL	µg/L	10	1.7	10	8260B	10/16/08 2:27	erussell	Q36117
1,3,5-Trimethylbenzene	BRL	µg/L	10	1.9	10	8260B	10/16/08 2:27	erussell	Q36117
1,3-Dichlorobenzene	BRL	µg/L	10	1.1	10	8260B	10/16/08 2:27	erussell	Q36117
1,3-Dichloropropane	BRL	µg/L	10	1.2	10	8260B	10/16/08 2:27	erussell	Q36117
1,4-Dichlorobenzene	BRL	µg/L	10	1.0	10	8260B	10/16/08 2:27	erussell	Q36117
2,2-Dichloropropane	BRL	µg/L	20	2.1	10	8260B	10/16/08 2:27	erussell	Q36117
2-Chloroethyl vinyl ether	BRL	µg/L	20	4.1	10	8260B	10/16/08 2:27	erussell	Q36117
2-Chlorotoluene	BRL	µg/L	10	1.2	10	8260B	10/16/08 2:27	erussell	Q36117
2-Hexanone	BRL	µg/L	50	2.3	10	8260B	10/16/08 2:27	erussell	Q36117
4-Chlorotoluene	BRL	µg/L	10	1.0	10	8260B	10/16/08 2:27	erussell	Q36117
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	50	4.6	10	8260B	10/16/08 2:27	erussell	Q36117
Acetone	BRL	µg/L	100	4.4	10	8260B	10/16/08 2:27	erussell	Q36117

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5  
Prism Sample ID: 227708  
COC Group: G1008426  
Time Collected: 10/10/08 12:30  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	1000	5.4	10	8260B	10/16/08 2:27	erussell	Q36117
Acrylonitrile	BRL	µg/L	1000	4.3	10	8260B	10/16/08 2:27	erussell	Q36117
Benzene	BRL	µg/L	10	0.94	10	8260B	10/16/08 2:27	erussell	Q36117
Bromobenzene	BRL	µg/L	10	0.88	10	8260B	10/16/08 2:27	erussell	Q36117
Bromoform	BRL	µg/L	10	0.85	10	8260B	10/16/08 2:27	erussell	Q36117
Bromochloromethane	BRL	µg/L	10	1.5	10	8260B	10/16/08 2:27	erussell	Q36117
Bromodichloromethane	BRL	µg/L	10	1.0	10	8260B	10/16/08 2:27	erussell	Q36117
Bromomethane	BRL	µg/L	30	2.3	10	8260B	10/16/08 2:27	erussell	Q36117
Carbon disulfide	BRL	µg/L	50	1.5	10	8260B	10/16/08 2:27	erussell	Q36117
Carbon tetrachloride	BRL	µg/L	20	1.5	10	8260B	10/16/08 2:27	erussell	Q36117
Chlorobenzene	BRL	µg/L	10	1.0	10	8260B	10/16/08 2:27	erussell	Q36117
Chlorodibromomethane	BRL	µg/L	10	2.0	10	8260B	10/16/08 2:27	erussell	Q36117
Chloroethane	BRL	µg/L	50	1.8	10	8260B	10/16/08 2:27	erussell	Q36117
Chloroform	BRL	µg/L	10	0.80	10	8260B	10/16/08 2:27	erussell	Q36117
Chloromethane	BRL	µg/L	20	2.1	10	8260B	10/16/08 2:27	erussell	Q36117
cis-1,2-Dichloroethene	12	µg/L	10	1.2	10	8260B	10/16/08 2:27	erussell	Q36117
cis-1,3-Dichloropropene	BRL	µg/L	10	0.97	10	8260B	10/16/08 2:27	erussell	Q36117
Dibromomethane	BRL	µg/L	10	1.4	10	8260B	10/16/08 2:27	erussell	Q36117
Dichlorodifluoromethane	BRL	µg/L	20	1.9	10	8260B	10/16/08 2:27	erussell	Q36117
Ethylbenzene	BRL	µg/L	10	1.6	10	8260B	10/16/08 2:27	erussell	Q36117
Hexachlorobutadiene	BRL	µg/L	20	1.7	10	8260B	10/16/08 2:27	erussell	Q36117
Isopropyl ether (IPE)	BRL	µg/L	10	0.79	10	8260B	10/16/08 2:27	erussell	Q36117
Isopropylbenzene	BRL	µg/L	10	2.0	10	8260B	10/16/08 2:27	erussell	Q36117
m,p-Xylenes	BRL	µg/L	20	3.3	10	8260B	10/16/08 2:27	erussell	Q36117
Methyl ethyl ketone (MEK)	BRL	µg/L	50	3.6	10	8260B	10/16/08 2:27	erussell	Q36117
Methyl t-butyl ether (MTBE)	BRL	µg/L	10	0.93	10	8260B	10/16/08 2:27	erussell	Q36117
Methylene chloride	BRL	µg/L	20	1.6	10	8260B	10/16/08 2:27	erussell	Q36117

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5  
Prism Sample ID: 227708  
COC Group: G1008426  
Time Collected: 10/10/08 12:30  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	10	2.1	10	8260B	10/16/08 2:27	erussell	Q36117
n-Propylbenzene	BRL	µg/L	10	1.8	10	8260B	10/16/08 2:27	erussell	Q36117
Naphthalene	BRL	µg/L	10	1.9	10	8260B	10/16/08 2:27	erussell	Q36117
o-Xylene	BRL	µg/L	10	1.7	10	8260B	10/16/08 2:27	erussell	Q36117
p-Isopropyltoluene	BRL	µg/L	10	2.1	10	8260B	10/16/08 2:27	erussell	Q36117
sec-Butylbenzene	BRL	µg/L	10	1.6	10	8260B	10/16/08 2:27	erussell	Q36117
Styrene	BRL	µg/L	10	1.1	10	8260B	10/16/08 2:27	erussell	Q36117
tert-Butylbenzene	BRL	µg/L	10	1.7	10	8260B	10/16/08 2:27	erussell	Q36117
Tetrachloroethylene	BRL	µg/L	10	1.7	10	8260B	10/16/08 2:27	erussell	Q36117
Toluene	BRL	µg/L	10	3.1	10	8260B	10/16/08 2:27	erussell	Q36117
trans-1,2-Dichloroethene	BRL	µg/L	20	1.2	10	8260B	10/16/08 2:27	erussell	Q36117
trans-1,3-Dichloropropene	BRL	µg/L	10	2.2	10	8260B	10/16/08 2:27	erussell	Q36117
Trichloroethylene	4500	µg/L	200	19	100	8260B	10/16/08 11:02	erussell	Q36117
Trichlorofluoromethane	BRL	µg/L	20	2.1	10	8260B	10/16/08 2:27	erussell	Q36117
Vinyl acetate	BRL	µg/L	200	4.4	10	8260B	10/16/08 2:27	erussell	Q36117
Vinyl chloride	BRL	µg/L	20	2.4	10	8260B	10/16/08 2:27	erussell	Q36117

Surrogate	% Recovery	Control Limits
Toluene-d8	104	75 - 121
Dibromofluoromethane	98	74 - 133
Bromofluorobenzene	102	69 - 139

TIC's By 8260	Est.Conc	Units
No TICs were detected.		

Semi-volatile Organics by GC/MS	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 20:49	kcampigotto	Q36096
1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/14/08 20:49	kcampigotto	Q36096

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5  
Prism Sample ID: 227708  
COC Group: G1008426  
Time Collected: 10/10/08 12:30  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 20:49	kcampigotto	Q36096
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2,6-Dinitrotoluene	BRL	µg/L	9.7	2.3	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2-Chloronaphthalene	BRL	µg/L	9.7	2.8	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2-Chlorophenol	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2-Methylnaphthalene	BRL	µg/L	9.7	2.4	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2-Methylphenol	BRL	µg/L	9.7	2.8	1	8270C	10/14/08 20:49	kcampigotto	Q36096
2-Nitrophenol	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 20:49	kcampigotto	Q36096
3&4-Methylphenol	BRL	µg/L	9.7	3.7	1	8270C	10/14/08 20:49	kcampigotto	Q36096
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 20:49	kcampigotto	Q36096
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	0.77	1	8270C	10/14/08 20:49	kcampigotto	Q36096
4-Bromophenylphenylether	BRL	µg/L	9.7	2.4	1	8270C	10/14/08 20:49	kcampigotto	Q36096
4-Chloro-3-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 20:49	kcampigotto	Q36096
4-Chlorophenylphenylether	BRL	µg/L	9.7	0.59	1	8270C	10/14/08 20:49	kcampigotto	Q36096
4-Nitrophenol	BRL	µg/L	9.7	2.2	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Acenaphthene	BRL	µg/L	9.7	2.1	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Acenaphthylene	BRL	µg/L	9.7	0.60	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Benzo(a)anthracene	BRL	µg/L	9.7	1.2	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Benzo(a)pyrene	BRL	µg/L	9.7	1.1	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Benzo(b)fluoranthene	BRL	µg/L	9.7						

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5  
Prism Sample ID: 227708  
COC Group: G1008426  
Time Collected: 10/10/08 12:30  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/14/08 20:49	kcampigotto	Q36096
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/14/08 20:49	kcampigotto	Q36096
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/14/08 20:49	kcampigotto	Q36096

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

# Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5  
Prism Sample ID: 227708  
COC Group: G1008426  
Time Collected: 10/10/08 12:30  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/14/08 20:49	kcampigotto	Q36096
Sample Preparation:									
1030 mL / 1 mL 3510C 10/14/08 10:00 smanivah P22778									
Surrogate % Recovery Control Limits									
Terphenyl-d14 120 41 - 136									
Phenol-d5 18 10 - 78									
Nitrobenzene-d5 71 13 - 107									
2-Fluorophenol 26 10 - 75									
2-Fluorobiphenyl 97 27 - 107									
2,4,6-Tribromophenol 115 38 - 117									

## TIC's By 8270

No TICs were detected.

## Cyanide by Colorimetric Method

Cyanide, Total  
Sample Preparation:

		Est.Conc	Units		
	BRL	mg/L	0.0050	0.0026	1 9014 10/23/08 15:49 heasler Q36406
			50 mL /	50 mL	9010 10/22/08 11:56 heasler P22856

## Mercury by CVAA

Mercury  
Sample Preparation:

		Est.Conc	Units		
	BRL	mg/L	0.0002	0.000011	1 7470A 10/16/08 16:37 heasler Q36192
			20 mL /	30 mL	7470A 10/16/08 10:35 mbarber P22815

## Metals by ICP

Antimony

BRL	mg/L	0.010	0.0023	1	6010B 10/20/08 17:45 mcampbell Q36184
BRL	mg/L	0.010	0.0022	1	6010B 10/20/08 17:45 mcampbell Q36184

Arsenic

BRL	mg/L	0.0020	0.00022	1	6010B 10/17/08 1:18 mcampbell Q36184
BRL	mg/L	0.0010	0.00017	1	6010B 10/20/08 17:45 mcampbell Q36184

Beryllium

BRL	mg/L	0.0010	0.00017	1	6010B 10/20/08 17:45 mcampbell Q36184
0.0009 J	mg/L	0.0050	0.00015	1	6010B 10/22/08 15:49 mcampbell Q36184

Cadmium

0.0009 J	mg/L	0.0050	0.00015	1	6010B 10/22/08 15:49 mcampbell Q36184
0.0003 J	mg/L	0.010	0.00028	1	6010B 10/17/08 1:18 mcampbell Q36184

Chromium

0.0003 J	mg/L	0.010	0.00028	1	6010B 10/17/08 1:18 mcampbell Q36184
Copper					

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## Laboratory Report

10/27/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5  
Prism Sample ID: 227708  
COC Group: G1008426  
Time Collected: 10/10/08 12:30  
Time Submitted: 10/11/08 9:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/17/08 1:18	mcampbell	Q36184
Manganese	0.60	mg/L	0.010	0.0012	1	6010B	10/17/08 1:18	mcampbell	Q36184
Nickel	0.020	mg/L	0.010	0.00042	1	6010B	10/17/08 1:18	mcampbell	Q36184
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/20/08 17:45	mcampbell	Q36184
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/17/08 1:18	mcampbell	Q36184
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 15:49	mcampbell	Q36184
Zinc	0.014 J	mg/L	0.030	0.0023	1	6010B	10/20/08 17:45	mcampbell	Q36184
Sample Preparation:				50 mL /	50 mL	3010A	10/16/08 9:30	mbarber	P22805

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

# Level II QC Report

10/27/08

MACTEC Eng. & Consulting, Inc

Attn: Susan Kelly  
1308 Patton Avenue  
Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G1008426  
Date/Time Submitted: 10/11/08 9:00

## Semi-volatile Organics by GC/MS, method 8270C

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	10	<5	µg/L	Q36096
1,2-Dichlorobenzene	ND	10	<5	µg/L	Q36096
1,3-Dichlorobenzene	ND	10	<5	µg/L	Q36096
1,4-Dichlorobenzene	ND	10	<5	µg/L	Q36096
2,4,5-Trichlorophenol	ND	10	<5	µg/L	Q36096
2,4,6-Trichlorophenol	ND	10	<5	µg/L	Q36096
2,4-Dichlorophenol	ND	10	<5	µg/L	Q36096
2,4-Dimethylphenol	ND	10	<5	µg/L	Q36096
2,4-Dinitrophenol	ND	10	<5	µg/L	Q36096
2,4-Dinitrotoluene	ND	10	<5	µg/L	Q36096
2,6-Dinitrotoluene	ND	10	<5	µg/L	Q36096
2-Chloronaphthalene	ND	10	<5	µg/L	Q36096
2-Chlorophenol	ND	10	<5	µg/L	Q36096
2-Methylnaphthalene	ND	10	<5	µg/L	Q36096
2-Methylphenol	ND	10	<5	µg/L	Q36096
2-Nitrophenol	ND	10	<5	µg/L	Q36096
3&4-Methylphenol	ND	10	<5	µg/L	Q36096
3,3'-Dichlorobenzidine	ND	10	<5	µg/L	Q36096
4,6-Dinitro-2-methylphenol	ND	10	<5	µg/L	Q36096
4-Bromophenylphenylether	ND	10	<5	µg/L	Q36096
4-Chloro-3-methylphenol	ND	10	<5	µg/L	Q36096
4-Chlorophenylphenylether	ND	10	<5	µg/L	Q36096
4-Nitrophenol	ND	10	<5	µg/L	Q36096
Acenaphthene	ND	10	<5	µg/L	Q36096
Acenaphthylene	ND	10	<5	µg/L	Q36096
Anthracene	ND	10	<5	µg/L	Q36096
Benzo(a)anthracene	ND	10	<5	µg/L	Q36096
Benzo(a)pyrene	ND	10	<5	µg/L	Q36096
Benzo(b)fluoranthene	ND	10	<5	µg/L	Q36096
Benzo(g,h,i)perylene	ND	10	<5	µg/L	Q36096
Benzo(k)fluoranthene	ND	10	<5	µg/L	Q36096
Bis(2-chloroethoxy)methane	ND	10	<5	µg/L	Q36096
Bis(2-chloroethyl)ether	ND	10	<5	µg/L	Q36096
Bis(2-chloroisopropyl)ether	ND	10	<5	µg/L	Q36096

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## Level II QC Report

10/27/08

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

Project ID: Mills Gap

COC Group Number: G1008426

Date/Time Submitted: 10/11/08 9:00

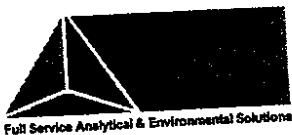
Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Bis(2-ethylhexyl)phthalate	ND	10	<5	µg/L	Q36096
Butylbenzylphthalate	ND	10	<5	µg/L	Q36096
Chrysene	ND	10	<5	µg/L	Q36096
Di-n-butylphthalate	ND	10	<5	µg/L	Q36096
Di-n-octylphthalate	ND	10	<5	µg/L	Q36096
Dibenzo(a,h)anthracene	ND	10	<5	µg/L	Q36096
Dibenzofuran	ND	10	<5	µg/L	Q36096
Diethylphthalate	ND	10	<5	µg/L	Q36096
Dimethylphthalate	ND	10	<5	µg/L	Q36096
Fluoranthene	ND	10	<5	µg/L	Q36096
Fluorene	ND	10	<5	µg/L	Q36096
Hexachlorobenzene	ND	10	<5	µg/L	Q36096
Hexachlorobutadiene	ND	10	<5	µg/L	Q36096
Hexachlorocyclopentadiene	ND	10	<5	µg/L	Q36096
Hexachloroethane	ND	10	<5	µg/L	Q36096
Indeno(1,2,3-cd)pyrene	ND	10	<5	µg/L	Q36096
Isophorone	ND	10	<5	µg/L	Q36096
N-Nitrosodi-n-propylamine	ND	10	<5	µg/L	Q36096
N-Nitrosodiphenylamine	ND	10	<5	µg/L	Q36096
Naphthalene	ND	10	<5	µg/L	Q36096
Nitrobenzene	ND	10	<5	µg/L	Q36096
Pentachlorophenol	ND	10	<5	µg/L	Q36096
Phenanthrene	ND	10	<5	µg/L	Q36096
Phenol	ND	10	<5	µg/L	Q36096
Pyrene	ND	10	<5	µg/L	Q36096

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2,4-Trichlorobenzene	43.47	50	µg/L	87	26-96	Q36096
1,4-Dichlorobenzene	40.65	50	µg/L	81	19-95	Q36096
2,4-Dinitrotoluene	47.39	50	µg/L	95	47-122	Q36096
2-Chlorophenol	30.83	50	µg/L	62	20-95	Q36096
4-Chloro-3-methylphenol	41.44	50	µg/L	83	36-104	Q36096
4-Nitrophenol	8.21	50	µg/L	16	10-117	Q36096
Acenaphthene	38.38	50	µg/L	77	36-109	Q36096
N-Nitrosodi-n-propylamine	44.94	50	µg/L	90	31-100	Q36096
Pentachlorophenol	49	50	µg/L	98	48-124	Q36096

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10/27/08

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

Project ID: Mills Gap

COC Group Number: G1008426  
Date/Time Submitted: 10/11/08 9:00

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Phenol	10.09	50	µg/L	20	10-99	Q36096		
Pyrene	60.55	50	µg/L	121 #	55-120	Q36096		
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Sample ID:								
227718 1,2,4-Trichlorobenzene	79.18	100	µg/L	79	21-105	Q36096		
1,4-Dichlorobenzene	79.14	100	µg/L	79	19-99	Q36096		
2,4-Dinitrotoluene	94.88	100	µg/L	95	48-126	Q36096		
2-Chlorophenol	96.02	100	µg/L	96	19-104	Q36096		
4-Chloro-3-methylphenol	83.02	100	µg/L	83	35-115	Q36096		
4-Nitrophenol	29.04	100	µg/L	29	10-116	Q36096		
Acenaphthene	91.44	100	µg/L	91	35-112	Q36096		
N-Nitrosodi-n-propylamine	107.72	100	µg/L	102	62-119	Q36096		
Pentachlorophenol	102.48	100	µg/L	40	10-93	Q36096		
Phenol	40.04	100	µg/L	40.04	10-93	Q36096		
Pyrene	138.68	100	µg/L	139 #	52-127	Q36096		
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:								
227718 1,2,4-Trichlorobenzene	80.1	100	µg/L	80	21-105	1	0 - 36	Q36096
1,4-Dichlorobenzene	87.46	100	µg/L	87	19-99	10	0 - 36	Q36096
2,4-Dinitrotoluene	111.5	100	µg/L	112	48-126	16	0 - 29	Q36096
2-Chlorophenol	77.82	100	µg/L	78	19-104	21	0 - 35	Q36096
4-Chloro-3-methylphenol	72.24	100	µg/L	72	35-115	14	0 - 50	Q36096
4-Nitrophenol	34.38	100	µg/L	34	10-116	17	0 - 20	Q36096
Acenaphthene	104	100	µg/L	104	35-112	13	0 - 36	Q36096
N-Nitrosodi-n-propylamine	93.92	100	µg/L	94	27-105	14	0 - 21	Q36096
Pentachlorophenol	114.52	100	µg/L	115	62-119	11	0 - 39	Q36096
Phenol	40.22	100	µg/L	40.22	10-93	0	0 - 15	Q36096
Pyrene	131.4	100	µg/L	131 #	52-127	5	0 - 15	Q36096

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## Level II QC Report

10/27/08

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

Project ID: Mills Gap

COC Group Number: G1008426  
Date/Time Submitted: 10/11/08 9:00

### 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	Q36117
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q36117
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q36117
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q36117
1,1-Dichloroethane	ND	1	<0.5	µg/L	Q36117
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q36117
1,1-Dichloropropene	ND	1	<0.5	µg/L	Q36117
1,2,3-Trichlorobenzene	ND	2	<1	µg/L	Q36117
1,2,3-Trichloropropane	ND	1	<0.5	µg/L	Q36117
1,2,4-Trichlorobenzene	ND	1	<0.5	µg/L	Q36117
1,2,4-Trimethylbenzene	ND	1	<0.5	µg/L	Q36117
1,2-Dibromo-3-chloropropane	ND	2	<1	µg/L	Q36117
1,2-Dibromoethane (EDB)	ND	1	<0.5	µg/L	Q36117
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q36117
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q36117
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q36117
1,3,5-Trimethylbenzene	ND	1	<0.5	µg/L	Q36117
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q36117
1,3-Dichloropropane	ND	1	<0.5	µg/L	Q36117
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q36117
2,2-Dichloropropane	ND	2	<1	µg/L	Q36117
2-Chloroethyl vinyl ether	ND	2	<1	µg/L	Q36117
2-Chlorotoluene	ND	1	<0.5	µg/L	Q36117
2-Hexanone	ND	5	<2.5	µg/L	Q36117
4-Chlorotoluene	ND	1	<0.5	µg/L	Q36117
4-Methyl-2-pentanone (MIBK)	ND	5	<2.5	µg/L	Q36117
Acetone	ND	10	<5	µg/L	Q36117
Acrolein	ND	100	<50	µg/L	Q36117
Acrylonitrile	ND	100	<50	µg/L	Q36117
Benzene	ND	1	<0.5	µg/L	Q36117
Bromobenzene	ND	1	<0.5	µg/L	Q36117
Bromochloromethane	ND	1	<0.5	µg/L	Q36117
Bromodichloromethane	ND	1	<0.5	µg/L	Q36117
Bromoform	ND	1	<0.5	µg/L	Q36117

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# Level II QC Report

10/27/08

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

Project ID: Mills Gap

COC Group Number: G1008426  
Date/Time Submitted: 10/11/08 9:00

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Bromomethane	ND	3	<1.5	µg/L	Q36117
Carbon disulfide	ND	5	<2.5	µg/L	Q36117
Carbon tetrachloride	ND	2	<1	µg/L	Q36117
Chlorobenzene	ND	1	<0.5	µg/L	Q36117
Chlorodibromomethane	ND	1	<0.5	µg/L	Q36117
Chloroethane	ND	5	<2.5	µg/L	Q36117
Chloroform	ND	1	<0.5	µg/L	Q36117
Chloromethane	ND	2	<1	µg/L	Q36117
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q36117
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q36117
Dibromomethane	ND	1	<0.5	µg/L	Q36117
Dichlorodifluoromethane	ND	2	<1	µg/L	Q36117
Ethylbenzene	ND	1	<0.5	µg/L	Q36117
Hexachlorobutadiene	ND	2	<1	µg/L	Q36117
Isopropyl ether (IPE)	ND	1	<0.5	µg/L	Q36117
Isopropylbenzene	ND	1	<0.5	µg/L	Q36117
m,p-Xylenes	ND	2	<1	µg/L	Q36117
Methyl ethyl ketone (MEK)	ND	5	<2.5	µg/L	Q36117
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q36117
Methylene chloride	ND	2	<1	µg/L	Q36117
n-Butylbenzene	ND	1	<0.5	µg/L	Q36117
n-Propylbenzene	ND	1	<0.5	µg/L	Q36117
Naphthalene	ND	1	<0.5	µg/L	Q36117
o-Xylene	ND	1	<0.5	µg/L	Q36117
p-Isopropyltoluene	ND	1	<0.5	µg/L	Q36117
sec-Butylbenzene	ND	1	<0.5	µg/L	Q36117
Styrene	ND	1	<0.5	µg/L	Q36117
tert-Butylbenzene	ND	1	<0.5	µg/L	Q36117
Tetrachloroethene	ND	1	<0.5	µg/L	Q36117
Toluene	ND	1	<0.5	µg/L	Q36117
trans-1,2-Dichloroethene	ND	2	<1	µg/L	Q36117
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q36117
Trichloroethene	ND	2	<1	µg/L	Q36117
Trichlorofluoromethane	ND	2	<1	µg/L	Q36117
Vinyl acetate	ND	20	<10	µg/L	Q36117
Vinyl chloride	ND	2	<1	µg/L	Q36117

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Attn: Susan Kelly  
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Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G1008426  
Date/Time Submitted: 10/11/08 9:00

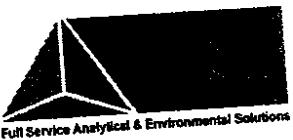
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1-Dichloroethene	69.04	50	µg/L	138	62-141	Q36117
Benzene	55.7	50	µg/L	111	70-141	Q36117
Chlorobenzene	52.82	50	µg/L	106	88-120	Q36117
Toluene	55.1	50	µg/L	110	78-130	Q36117
Trichloroethene	57.89	50	µg/L	116	78-124	Q36117

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID: 227673 1,1-Dichloroethene	277.24	200	µg/L	139	54-140	Q36117
Benzene	226.76	200	µg/L	113	62-129	Q36117
Chlorobenzene	211.56	200	µg/L	106	64-127	Q36117
Toluene	221.68	200	µg/L	111	60-131	Q36117
Trichloroethene	229.44	200	µg/L	115	52-128	Q36117

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID: 227673 1,1-Dichloroethene	265.04	200	µg/L	133	54-140	4	0 - 20	Q36117
Benzene	216.96	200	µg/L	108	62-129	4	0 - 19	Q36117
Chlorobenzene	205.28	200	µg/L	103	64-127	3	0 - 20	Q36117
Toluene	212.36	200	µg/L	106	60-131	4	0 - 21	Q36117
Trichloroethene	218.24	200	µg/L	109	52-128	5	0 - 18	Q36117



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Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G1008426  
Date/Time Submitted: 10/11/08 9:00

### Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Antimony	0.0001	0.01	<0.005	mg/L	Q36184
Arsenic	-0.0001	0.01	<0.005	mg/L	Q36184
Beryllium	-0.0001	0.002	<0.001	mg/L	Q36184
Cadmium	ND	0.001	<0.0005	mg/L	Q36184
Chromium	0.0007	0.005	<0.0025	mg/L	Q36184
Copper	-0.0003	0.01	<0.005	mg/L	Q36184
Lead	-0.0004	0.005	<0.0025	mg/L	Q36184
Manganese	-0.0001	0.01	<0.005	mg/L	Q36184
Nickel	0.0001	0.01	<0.005	mg/L	Q36184
Selenium	0.0001	0.02	<0.01	mg/L	Q36184
Silver	0.0001	0.005	<0.0025	mg/L	Q36184
Thallium	0.0009	0.01	<0.005	mg/L	Q36184
Zinc	0.0039	0.03	<0.015	mg/L	Q36184

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Antimony	0.244	0.25	mg/L	98	80-120	Q36184
Arsenic	0.250	0.25	mg/L	100	80-120	Q36184
Beryllium	0.2411	0.25	mg/L	96	80-120	Q36184
Cadmium	0.249	0.25	mg/L	100	80-120	Q36184
Chromium	0.259	0.25	mg/L	104	80-120	Q36184
Copper	0.2481	0.25	mg/L	99	80-120	Q36184
Lead	0.2345	0.25	mg/L	94	80-120	Q36184
Manganese	0.2448	0.25	mg/L	98	80-120	Q36184
Nickel	0.24	0.25	mg/L	96	80-120	Q36184
Selenium	0.244	0.25	mg/L	98	80-120	Q36184
Silver	0.2462	0.25	mg/L	95	80-120	Q36184
Thallium	0.238	0.25	mg/L	99	80-120	Q36184
Zinc	0.248	0.25	mg/L	99	80-120	Q36184

Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:						
227672 Antimony	0.244	0.25	mg/L	98	75-125	Q36184
Arsenic	0.250	0.25	mg/L	100	75-125	Q36184
Beryllium	0.244	0.25	mg/L	98	75-125	Q36184
Cadmium	0.243	0.25	mg/L	97	75-125	Q36184

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Project ID: Mills Gap

COC Group Number: G1008426

Date/Time Submitted: 10/11/08 9:00

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
227672 Chromium		0.254	0.25	mg/L	101	75-125	Q36184
Copper		0.2483	0.25	mg/L	99	75-125	Q36184
Lead		0.2293	0.25	mg/L	92	75-125	Q36184
Manganese		0.3172	0.25	mg/L	94	75-125	Q36184
Nickel		0.2284	0.25	mg/L	91	75-125	Q36184
Selenium		0.236	0.25	mg/L	96	75-125	Q36184
Silver		0.2443	0.25	mg/L	98	75-125	Q36184
Thallium		0.2264	0.25	mg/L	91	75-125	Q36184
Zinc		3.81	0.25	mg/L	72 #	75-125	Q36184

Matrix Spike Duplicate	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
227672 Antimony		0.236	0.25	mg/L	95	75-125	3	0 - 20	Q36184
Arsenic		0.243	0.25	mg/L	97	75-125	3	0 - 20	Q36184
Beryllium		0.2373	0.25	mg/L	95	75-125	3	0 - 20	Q36184
Cadmium		0.238	0.25	mg/L	95	75-125	2	0 - 20	Q36184
Chromium		0.251	0.25	mg/L	100	75-125	1	0 - 20	Q36184
Copper		0.2414	0.25	mg/L	97	75-125	3	0 - 20	Q36184
Lead		0.2235	0.25	mg/L	89	75-125	3	0 - 20	Q36184
Manganese		0.3098	0.25	mg/L	91	75-125	2	0 - 20	Q36184
Nickel		0.2227	0.25	mg/L	89	75-125	3	0 - 20	Q36184
Selenium		0.231	0.25	mg/L	94	75-125	2	0 - 20	Q36184
Silver		0.2379	0.25	mg/L	95	75-125	3	0 - 20	Q36184
Thallium		0.221	0.25	mg/L	89	75-125	2	0 - 20	Q36184
Zinc		3.74	0.25	mg/L	44 #	75-125	2	0 - 20	Q36184



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

# Level II QC Report

10/27/08

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

Project ID: Mills Gap

COC Group Number: G1008426  
Date/Time Submitted: 10/11/08 9:00

## Mercury by CVAA, method 7470A

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Mercury	-0.00013	0.0002	<0.0001	mg/L	Q36192
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Mercury	0.01024	0.0093	mg/L	109	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 227718 Mercury	0.01001	0.0093	mg/L	108	80-120
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 227718 Mercury	0.01060	0.0093	mg/L	114	80-120
				6	0 - 20 Q36192

## Cyanide by Colorimetric Method, method 9014

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Cyanide, Total	0.0015	0.005	<0.0025	mg/L	Q36406
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Cyanide, Total	0.1050	0.1	mg/L	105	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 228100 Cyanide, Total	0.1101	0.11	mg/L	98	80-120
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID: 228100 Cyanide, Total	0.1081	0.11	mg/L	96	80-120
				2	0 - 20 Q36406

#See Case Narrative



# Case Narrative (Revised)



Date: 10/29/08  
Company: MACTEC Eng. & Consulting, Inc  
Contact: Susan Kelly  
Address: 1308 Patton Avenue  
Asheville, NC 28806

Client Project ID: Mills Gap  
Prism COC Group No: G1008550  
Collection Date(s): 10/13/08 thru 10/15/08  
Lab Submittal Date(s): 10/16/08

This is a revised report and supersedes our original laboratory report dated 10/29/08. TIC comment added to sample 228106.

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 82 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

Analysis Note for Q36339 LCS Pyrene: LCS recovery outside the control limits. There were no hits of this compound found nor reported in samples associated with this QC batch.

Analysis Note for Q36339 MSD Pyrene: RPD value outside the control limits.

## Volatile Analysis

No Anomalies Reported

## Metals Analysis

Analysis Note for Q36341 MS Mercury: MS recovery outside of the control limits. Matrix interference is suspected. Post-digestion spike recovery (76%) is outside the acceptance limits (80-120%).

## Wet Lab and Micro Analysis

No Anomalies Reported

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

Date Reviewed by: Paula A. Gilleland

Project Manager: Paula A. Gilleland

Signature:

Signature:

Review Date:

10/29/08

Approval Date:

10/29/08

## 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  
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NC Drinking Water Cert. No. 37735

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-05  
Prism Sample ID: 228096  
COC Group: G1008550  
Time Collected: 10/14/08  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 12:35	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 12:35	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 12:35	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	10/20/08 12:35	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 12:35	Iwtry	Q36253
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	10/20/08 12:35	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 12:35	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	10/20/08 12:35	Iwtry	Q36253
Acetone	9.3 J	µg/L	10	0.44	1	8260B	10/20/08 12:35	Iwtry	Q36253

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# Laboratory Report

10/29/08

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



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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: TB-05  
 Prism Sample ID: 228096  
 COC Group: G1008550  
 Time Collected: 10/14/08  
 Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	10/20/08 12:35 lwtly		Q36253
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	10/20/08 12:35 lwtly		Q36253
Benzene	BRL	µg/L	1.0	0.094	1	8260B	10/20/08 12:35 lwtly		Q36253
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	10/20/08 12:35 lwtly		Q36253
Bromoform	BRL	µg/L	1.0	0.085	1	8260B	10/20/08 12:35 lwtly		Q36253
Bromochloromethane	BRL	µg/L	1.0	0.15	1	8260B	10/20/08 12:35 lwtly		Q36253
Bromodichloromethane	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 12:35 lwtly		Q36253
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	10/20/08 12:35 lwtly		Q36253
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	10/20/08 12:35 lwtly		Q36253
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	10/20/08 12:35 lwtly		Q36253
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 12:35 lwtly		Q36253
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 12:35 lwtly		Q36253
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	10/20/08 12:35 lwtly		Q36253
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	10/20/08 12:35 lwtly		Q36253
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 12:35 lwtly		Q36253
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 12:35 lwtly		Q36253
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	10/20/08 12:35 lwtly		Q36253
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	10/20/08 12:35 lwtly		Q36253
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	10/20/08 12:35 lwtly		Q36253
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 12:35 lwtly		Q36253
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	10/20/08 12:35 lwtly		Q36253
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	10/20/08 12:35 lwtly		Q36253
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 12:35 lwtly		Q36253
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	10/20/08 12:35 lwtly		Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	10/20/08 12:35 lwtly		Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	10/20/08 12:35 lwtly		Q36253
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	10/20/08 12:35 lwtly		Q36253

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

## Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-05  
Prism Sample ID: 228096  
COC Group: G1008550  
Time Collected: 10/14/08  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	10/20/08 12:35	Iwtry	Q36253
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	10/20/08 12:35	Iwtry	Q36253
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	10/20/08 12:35	Iwtry	Q36253
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 12:35	Iwtry	Q36253
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	10/20/08 12:35	Iwtry	Q36253
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 12:35	Iwtry	Q36253
Styrene	BRL	µg/L	1.0	0.11	1	8260B	10/20/08 12:35	Iwtry	Q36253
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 12:35	Iwtry	Q36253
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 12:35	Iwtry	Q36253
Toluene	BRL	µg/L	1.0	0.31	1	8260B	10/20/08 12:35	Iwtry	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	10/20/08 12:35	Iwtry	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	10/20/08 12:35	Iwtry	Q36253
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	10/20/08 12:35	Iwtry	Q36253
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 12:35	Iwtry	Q36253
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	10/20/08 12:35	Iwtry	Q36253
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	10/20/08 12:35	Iwtry	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	81	75 - 121
Dibromofluoromethane	88	74 - 133
Bromofluorobenzene	107	69 - 139

TIC's By 8260

Est.Conc      Units

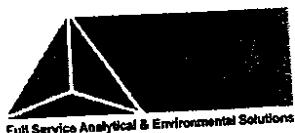
No TICs were detected.

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: TB-05  
Prism Sample ID: 228096  
COC Group: G1008550  
Time Collected: 10/14/08  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

## 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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FB-01  
Prism Sample ID: 228097  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:01	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:01	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 13:01	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	10/20/08 13:01	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:01	Iwtry	Q36253
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	10/20/08 13:01	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:01	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	10/20/08 13:01	Iwtry	Q36253
Acetone	BRL	µg/L	10	0.44	1	8260B	10/20/08 13:01	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FB-01  
Prism Sample ID: 228097  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	10/20/08 13:01	Iwtry	Q36253
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	10/20/08 13:01	Iwtry	Q36253
Benzene	BRL	µg/L	1.0	0.094	1	8260B	10/20/08 13:01	Iwtry	Q36253
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	10/20/08 13:01	Iwtry	Q36253
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	10/20/08 13:01	Iwtry	Q36253
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	10/20/08 13:01	Iwtry	Q36253
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:01	Iwtry	Q36253
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	10/20/08 13:01	Iwtry	Q36253
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	10/20/08 13:01	Iwtry	Q36253
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	10/20/08 13:01	Iwtry	Q36253
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:01	Iwtry	Q36253
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 13:01	Iwtry	Q36253
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	10/20/08 13:01	Iwtry	Q36253
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	10/20/08 13:01	Iwtry	Q36253
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 13:01	Iwtry	Q36253
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:01	Iwtry	Q36253
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	10/20/08 13:01	Iwtry	Q36253
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	10/20/08 13:01	Iwtry	Q36253
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	10/20/08 13:01	Iwtry	Q36253
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 13:01	Iwtry	Q36253
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	10/20/08 13:01	Iwtry	Q36253
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	10/20/08 13:01	Iwtry	Q36253
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 13:01	Iwtry	Q36253
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	10/20/08 13:01	Iwtry	Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	10/20/08 13:01	Iwtry	Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	10/20/08 13:01	Iwtry	Q36253
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	10/20/08 13:01	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FB-01  
Prism Sample ID: 228097  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	10/20/08 13:01	Iwtry	Q36253
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	10/20/08 13:01	Iwtry	Q36253
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	10/20/08 13:01	Iwtry	Q36253
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 13:01	Iwtry	Q36253
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	10/20/08 13:01	Iwtry	Q36253
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 13:01	Iwtry	Q36253
Styrene	BRL	µg/L	1.0	0.11	1	8260B	10/20/08 13:01	Iwtry	Q36253
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 13:01	Iwtry	Q36253
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 13:01	Iwtry	Q36253
Toluene	BRL	µg/L	1.0	0.31	1	8260B	10/20/08 13:01	Iwtry	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	10/20/08 13:01	Iwtry	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	10/20/08 13:01	Iwtry	Q36253
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	10/20/08 13:01	Iwtry	Q36253
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 13:01	Iwtry	Q36253
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	10/20/08 13:01	Iwtry	Q36253
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	10/20/08 13:01	Iwtry	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	118	75 - 121
Dibromofluoromethane	81	74 - 133
Bromofluorobenzene	97	69 - 139

TIC's By 8260

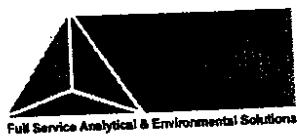
Est.Conc      Units

No TICs were detected.

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NC Certification No. 402  
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# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FB-01  
Prism Sample ID: 228097  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID

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

## Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FD-02  
Prism Sample ID: 228098  
COC Group: G1008550  
Time Collected: 10/14/08 12:01  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	20	2.0	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,1,1-Trichloroethane	49	µg/L	20	4.0	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	20	2.3	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	20	3.1	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,1-Dichloroethane	BRL	µg/L	20	1.8	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,1-Dichloroethene	BRL	µg/L	20	1.9	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	20	3.9	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	40	4.8	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	20	3.3	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	20	4.4	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,2,4-Trimethylbenzene	BRL	µg/L	20	3.1	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	40	26	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	20	2.8	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	20	2.1	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	20	2.5	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,2-Dichloropropane	BRL	µg/L	20	3.4	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,3,5-Trimethylbenzene	BRL	µg/L	20	3.8	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	20	2.3	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	20	2.4	20	8260B	10/20/08 18:13	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	20	2.0	20	8260B	10/20/08 18:13	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	40	4.2	20	8260B	10/20/08 18:13	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	40	8.2	20	8260B	10/20/08 18:13	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	20	2.4	20	8260B	10/20/08 18:13	Iwtry	Q36253
2-Hexanone	BRL	µg/L	100	4.6	20	8260B	10/20/08 18:13	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	20	2.1	20	8260B	10/20/08 18:13	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	100	9.2	20	8260B	10/20/08 18:13	Iwtry	Q36253
Acetone	BRL	µg/L	200	8.8	20	8260B	10/20/08 18:13	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FD-02  
Prism Sample ID: 228098  
COC Group: G1008550  
Time Collected: 10/14/08 12:01  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	2000	11	20	8260B	10/20/08 18:13	Iwtry	Q36253
Acrylonitrile	BRL	µg/L	2000	8.6	20	8260B	10/20/08 18:13	Iwtry	Q36253
Benzene	BRL	µg/L	20	1.9	20	8260B	10/20/08 18:13	Iwtry	Q36253
Bromobenzene	BRL	µg/L	20	1.8	20	8260B	10/20/08 18:13	Iwtry	Q36253
Bromoform	BRL	µg/L	20	1.7	20	8260B	10/20/08 18:13	Iwtry	Q36253
Bromodichloromethane	BRL	µg/L	20	3.0	20	8260B	10/20/08 18:13	Iwtry	Q36253
Bromomethane	BRL	µg/L	20	2.0	20	8260B	10/20/08 18:13	Iwtry	Q36253
Carbon disulfide	BRL	µg/L	60	4.5	20	8260B	10/20/08 18:13	Iwtry	Q36253
Carbon tetrachloride	BRL	µg/L	100	3.0	20	8260B	10/20/08 18:13	Iwtry	Q36253
Chlorobenzene	BRL	µg/L	20	2.0	20	8260B	10/20/08 18:13	Iwtry	Q36253
Chlorodibromomethane	BRL	µg/L	20	4.1	20	8260B	10/20/08 18:13	Iwtry	Q36253
Chloroethane	BRL	µg/L	100	3.7	20	8260B	10/20/08 18:13	Iwtry	Q36253
Chloroform	BRL	µg/L	20	1.6	20	8260B	10/20/08 18:13	Iwtry	Q36253
Chloromethane	BRL	µg/L	40	4.3	20	8260B	10/20/08 18:13	Iwtry	Q36253
cis-1,2-Dichloroethene	BRL	µg/L	20	2.4	20	8260B	10/20/08 18:13	Iwtry	Q36253
cis-1,3-Dichloropropene	BRL	µg/L	20	1.9	20	8260B	10/20/08 18:13	Iwtry	Q36253
Dibromomethane	BRL	µg/L	20	2.7	20	8260B	10/20/08 18:13	Iwtry	Q36253
Dichlorodifluoromethane	BRL	µg/L	40	3.9	20	8260B	10/20/08 18:13	Iwtry	Q36253
Ethylbenzene	BRL	µg/L	20	3.2	20	8260B	10/20/08 18:13	Iwtry	Q36253
Hexachlorobutadiene	BRL	µg/L	40	3.4	20	8260B	10/20/08 18:13	Iwtry	Q36253
Isopropyl ether (IPE)	BRL	µg/L	20	1.6	20	8260B	10/20/08 18:13	Iwtry	Q36253
Isopropylbenzene	BRL	µg/L	20	3.9	20	8260B	10/20/08 18:13	Iwtry	Q36253
m,p-Xylenes	BRL	µg/L	40	6.7	20	8260B	10/20/08 18:13	Iwtry	Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	100	7.1	20	8260B	10/20/08 18:13	Iwtry	Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	20	1.9	20	8260B	10/20/08 18:13	Iwtry	Q36253
Methylene chloride	BRL	µg/L	40	3.1	20	8260B	10/20/08 18:13	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FD-02  
Prism Sample ID: 228098  
COC Group: G1008550  
Time Collected: 10/14/08 12:01  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	20	4.3	20	8260B	10/20/08 18:13	Iwtry	Q36253
n-Propylbenzene	BRL	µg/L	20	3.6	20	8260B	10/20/08 18:13	Iwtry	Q36253
Naphthalene	BRL	µg/L	20	3.9	20	8260B	10/20/08 18:13	Iwtry	Q36253
o-Xylene	BRL	µg/L	20	3.4	20	8260B	10/20/08 18:13	Iwtry	Q36253
p-Isopropyltoluene	BRL	µg/L	20	4.2	20	8260B	10/20/08 18:13	Iwtry	Q36253
sec-Butylbenzene	BRL	µg/L	20	3.3	20	8260B	10/20/08 18:13	Iwtry	Q36253
Styrene	BRL	µg/L	20	2.2	20	8260B	10/20/08 18:13	Iwtry	Q36253
tert-Butylbenzene	BRL	µg/L	20	3.5	20	8260B	10/20/08 18:13	Iwtry	Q36253
Tetrachloroethene	BRL	µg/L	20	3.4	20	8260B	10/20/08 18:13	Iwtry	Q36253
Toluene	BRL	µg/L	20	6.2	20	8260B	10/20/08 18:13	Iwtry	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	40	2.4	20	8260B	10/20/08 18:13	Iwtry	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	20	4.5	20	8260B	10/20/08 18:13	Iwtry	Q36253
Trichloroethene	6500	µg/L	400	37	200	8260B	10/21/08 14:40	Iwtry	Q36253
Trichlorofluoromethane	BRL	µg/L	40	4.2	20	8260B	10/20/08 18:13	Iwtry	Q36253
Vinyl acetate	BRL	µg/L	400	8.8	20	8260B	10/20/08 18:13	Iwtry	Q36253
Vinyl chloride	BRL	µg/L	40	4.7	20	8260B	10/20/08 18:13	Iwtry	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	81	75 - 121
Dibromofluoromethane	90	74 - 133
Bromofluorobenzene	101	69 - 139

TIC's By 8260	Est.Conc	Units
No TICs were detected.		

## Semi-volatile Organics by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/22/08 23:27	kcampigotto	Q36339
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/22/08 23:27	kcampigotto	Q36339

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NC Drinking Water Cert. No. 37735

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FD-02  
Prism Sample ID: 228098  
COC Group: G1008550  
Time Collected: 10/14/08 12:01  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/22/08 23:27	kcampigotto	Q36339
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/22/08 23:27	kcampigotto	Q36339
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/22/08 23:27	kcampigotto	Q36339
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/22/08 23:27	kcampigotto	Q36339
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/22/08 23:27	kcampigotto	Q36339
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/22/08 23:27	kcampigotto	Q36339
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/22/08 23:27	kcampigotto	Q36339
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/22/08 23:27	kcampigotto	Q36339
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/22/08 23:27	kcampigotto	Q36339
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/22/08 23:27	kcampigotto	Q36339

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

## Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FD-02  
Prism Sample ID: 228098  
COC Group: G1008550  
Time Collected: 10/14/08 12:01  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/22/08 23:27	kcampigotto	Q36339
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/22/08 23:27	kcampigotto	Q36339
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/22/08 23:27	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FD-02  
Prism Sample ID: 228098  
COC Group: G1008550  
Time Collected: 10/14/08 12:01  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/22/08 23:27	kcampigotto	Q36339
Sample Preparation:									
1030 mL / 1 mL									
Surrogate % Recovery Control Limits									
Terphenyl-d14 101 41 - 136									
Phenol-d5 12 10 - 78									
Nitrobenzene-d5 59 13 - 107									
2-Fluorophenol 23 10 - 75									
2-Fluorobiphenyl 69 27 - 107									
2,4,6-Tribromophenol 88 38 - 117									

## TIC's By 8270

No TICs were detected.

## Cyanide by Colorimetric Method

Cyanide, Total

		Est.Conc	Units		
	BRL	mg/L	0.0050	0.0026	1

9014 10/23/08 15:49

heaster Q36406

## Sample Preparation:

50 mL / 50 mL 9010 10/22/08 11:56 heaster P22856

## Mercury by CVAA

Mercury

		mg/L	0.0002	0.000011	1	7470A	10/21/08 16:58	mcampbell	Q36341
	BRL					7470A	10/20/08 10:25	mbarber	P22830

## Sample Preparation:

20 mL / 30 mL 7470A 10/20/08 10:25 mbarber P22830

## Metals by ICP

Antimony

		mg/L	0.010	0.0023	1	6010B	10/22/08 22:31	mcampbell	Q36311
	BRL					6010B	10/22/08 22:31	mcampbell	Q36311

Arsenic

		mg/L	0.010	0.0022	1	6010B	10/22/08 22:31	mcampbell	Q36311
	BRL					6010B	10/22/08 22:31	mcampbell	Q36311

Beryllium

		mg/L	0.0020	0.00022	1	6010B	10/22/08 22:31	mcampbell	Q36311
	BRL					6010B	10/23/08 13:09	mcampbell	Q36311

Cadmium

		mg/L	0.0050	0.00015	1	6010B	10/22/08 22:31	mcampbell	Q36311
	BRL					6010B	10/23/08 13:09	mcampbell	Q36311

Chromium

		mg/L	0.044	0.00028	1	6010B	10/22/08 22:31	mcampbell	Q36311
	BRL					6010B	10/23/08 13:09	mcampbell	Q36311

Copper

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

## Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: FD-02  
Prism Sample ID: 228098  
COC Group: G1008550  
Time Collected: 10/14/08 12:01  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/22/08 22:31	mcampbell	Q36311
Manganese	0.42	mg/L	0.010	0.0012	1	6010B	10/22/08 22:31	mcampbell	Q36311
Nickel	0.0097 J	mg/L	0.010	0.00042	1	6010B	10/22/08 22:31	mcampbell	Q36311
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/23/08 13:09	mcampbell	Q36311
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/22/08 22:31	mcampbell	Q36311
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 22:31	mcampbell	Q36311
Zinc	0.016 J	mg/L	0.030	0.0023	1	6010B	10/22/08 22:31	mcampbell	Q36311
Sample Preparation:				50 mL /	50 mL	3010A	10/20/08 7:30	mbarber	P22827

### 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

A handwritten signature in black ink, appearing to read "Angela D. Overcash".

Angela D. Overcash, V.P. Laboratory Services

# Laboratory Report

10/29/08

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



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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: MW-6  
 Prism Sample ID: 228099  
 COC Group: G1008550  
 Time Collected: 10/13/08 10:00  
 Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	20	2.0	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,1,1-Trichloroethane	BRL	µg/L	20	4.0	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	20	2.3	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	20	3.1	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,1-Dichloroethane	BRL	µg/L	20	1.8	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,1-Dichloroethene	49	µg/L	20	1.9	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	20	3.9	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	40	4.8	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	20	3.3	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	20	4.4	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,2,4-Trimethylbenzene	BRL	µg/L	20	3.1	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	40	26	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	20	2.8	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	20	2.1	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	20	2.5	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,2-Dichloropropane	BRL	µg/L	20	3.4	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,3,5-Trimethylbenzene	BRL	µg/L	20	3.8	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	20	2.3	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	20	2.4	20	8260B	10/20/08 17:47	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	40	2.0	20	8260B	10/20/08 17:47	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	40	4.2	20	8260B	10/20/08 17:47	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	40	8.2	20	8260B	10/20/08 17:47	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	20	2.4	20	8260B	10/20/08 17:47	Iwtry	Q36253
2-Hexanone	BRL	µg/L	100	4.6	20	8260B	10/20/08 17:47	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	20	2.1	20	8260B	10/20/08 17:47	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	100	9.2	20	8260B	10/20/08 17:47	Iwtry	Q36253
Acetone	BRL	µg/L	200	8.8	20	8260B	10/20/08 17:47	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6  
Prism Sample ID: 228099  
COC Group: G1008550  
Time Collected: 10/13/08 10:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	2000	11	20	8260B	10/20/08 17:47	Iwtry	Q36253
Acrylonitrile	BRL	µg/L	2000	8.6	20	8260B	10/20/08 17:47	Iwtry	Q36253
Benzene	BRL	µg/L	20	1.9	20	8260B	10/20/08 17:47	Iwtry	Q36253
Bromobenzene	BRL	µg/L	20	1.8	20	8260B	10/20/08 17:47	Iwtry	Q36253
Bromoform	BRL	µg/L	20	1.7	20	8260B	10/20/08 17:47	Iwtry	Q36253
Bromochloromethane	BRL	µg/L	20	3.0	20	8260B	10/20/08 17:47	Iwtry	Q36253
Bromodichloromethane	BRL	µg/L	20	2.0	20	8260B	10/20/08 17:47	Iwtry	Q36253
Bromoform	BRL	µg/L	20	2.0	20	8260B	10/20/08 17:47	Iwtry	Q36253
Bromomethane	BRL	µg/L	60	4.5	20	8260B	10/20/08 17:47	Iwtry	Q36253
Carbon disulfide	BRL	µg/L	100	3.0	20	8260B	10/20/08 17:47	Iwtry	Q36253
Carbon tetrachloride	BRL	µg/L	40	3.0	20	8260B	10/20/08 17:47	Iwtry	Q36253
Chlorobenzene	BRL	µg/L	20	2.0	20	8260B	10/20/08 17:47	Iwtry	Q36253
Chlorodibromomethane	BRL	µg/L	20	4.1	20	8260B	10/20/08 17:47	Iwtry	Q36253
Chloroethane	BRL	µg/L	100	3.7	20	8260B	10/20/08 17:47	Iwtry	Q36253
Chloroform	BRL	µg/L	20	1.6	20	8260B	10/20/08 17:47	Iwtry	Q36253
Chloromethane	BRL	µg/L	40	4.3	20	8260B	10/20/08 17:47	Iwtry	Q36253
cis-1,2-Dichloroethylene	BRL	µg/L	20	2.4	20	8260B	10/20/08 17:47	Iwtry	Q36253
cis-1,3-Dichloropropene	BRL	µg/L	20	1.9	20	8260B	10/20/08 17:47	Iwtry	Q36253
Dibromomethane	BRL	µg/L	20	2.7	20	8260B	10/20/08 17:47	Iwtry	Q36253
Dichlorodifluoromethane	BRL	µg/L	40	3.9	20	8260B	10/20/08 17:47	Iwtry	Q36253
Ethylbenzene	BRL	µg/L	20	3.2	20	8260B	10/20/08 17:47	Iwtry	Q36253
Hexachlorobutadiene	BRL	µg/L	40	3.4	20	8260B	10/20/08 17:47	Iwtry	Q36253
Isopropyl ether (IPE)	BRL	µg/L	20	1.6	20	8260B	10/20/08 17:47	Iwtry	Q36253
Isopropylbenzene	BRL	µg/L	20	3.9	20	8260B	10/20/08 17:47	Iwtry	Q36253
m,p-Xylenes	BRL	µg/L	40	6.7	20	8260B	10/20/08 17:47	Iwtry	Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	100	7.1	20	8260B	10/20/08 17:47	Iwtry	Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	20	1.9	20	8260B	10/20/08 17:47	Iwtry	Q36253
Methylene chloride	BRL	µg/L	40	3.1	20	8260B	10/20/08 17:47	Iwtry	Q36253

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# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6  
Prism Sample ID: 228099  
COC Group: G1008550  
Time Collected: 10/13/08 10:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	20	4.3	20	8260B	10/20/08 17:47	Iwtry	Q36253
n-Propylbenzene	BRL	µg/L	20	3.6	20	8260B	10/20/08 17:47	Iwtry	Q36253
Naphthalene	BRL	µg/L	20	3.9	20	8260B	10/20/08 17:47	Iwtry	Q36253
o-Xylene	BRL	µg/L	20	3.4	20	8260B	10/20/08 17:47	Iwtry	Q36253
p-Isopropyltoluene	BRL	µg/L	20	4.2	20	8260B	10/20/08 17:47	Iwtry	Q36253
sec-Butylbenzene	BRL	µg/L	20	3.3	20	8260B	10/20/08 17:47	Iwtry	Q36253
Styrene	BRL	µg/L	20	2.2	20	8260B	10/20/08 17:47	Iwtry	Q36253
tert-Butylbenzene	BRL	µg/L	20	3.5	20	8260B	10/20/08 17:47	Iwtry	Q36253
Tetrachloroethene	BRL	µg/L	20	3.4	20	8260B	10/20/08 17:47	Iwtry	Q36253
Toluene	BRL	µg/L	20	6.2	20	8260B	10/20/08 17:47	Iwtry	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	40	2.4	20	8260B	10/20/08 17:47	Iwtry	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	20	4.5	20	8260B	10/20/08 17:47	Iwtry	Q36253
Trichloroethene	19000	µg/L	800	74	400	8260B	10/21/08 13:22	Iwtry	Q36253
Trichlorofluoromethane	BRL	µg/L	40	4.2	20	8260B	10/20/08 17:47	Iwtry	Q36253
Vinyl acetate	BRL	µg/L	400	8.8	20	8260B	10/20/08 17:47	Iwtry	Q36253
Vinyl chloride	BRL	µg/L	40	4.7	20	8260B	10/20/08 17:47	Iwtry	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	84	75 - 121
Dibromofluoromethane	102	74 - 133
Bromoform	106	69 - 139

## TIC's By 8260

No TICs were detected.

## Semi-volatile Organics by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 23:59	kcampigotto	Q36339
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 23:59	kcampigotto	Q36339

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NC Certification No. 402  
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## Laboratory Report

10/29/08

MACTEC Eng. & Consulting, Inc  
Attn: Susan Kelly  
1308 Patton Avenue  
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Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6  
Prism Sample ID: 228099  
COC Group: G1008550  
Time Collected: 10/13/08 10:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 23:59	kcampigotto	Q36339
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 23:59	kcampigotto	Q36339
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 23:59	kcampigotto	Q36339
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 23:59	kcampigotto	Q36339
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/23/08 23:59	kcampigotto	Q36339
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 23:59	kcampigotto	Q36339
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 23:59	kcampigotto	Q36339
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 23:59	kcampigotto	Q36339
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 23:59	kcampigotto	Q36339
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 23:59	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6  
Prism Sample ID: 228099  
COC Group: G1008550  
Time Collected: 10/13/08 10:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 23:59	kcampigotto	Q36339
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 23:59	kcampigotto	Q36339
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 23:59	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6  
Prism Sample ID: 228099  
COC Group: G1008550  
Time Collected: 10/13/08 10:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 23:59	kcampigotto	Q36339
Sample Preparation:			1030 mL /	1 mL	3510C	10/17/08 9:00	smanivanh	P22822	
						Surrogate	% Recovery	Control Limits	
						Terphenyl-d14	106	41 - 136	
						Phenol-d5	10	10 - 78	
						Nitrobenzene-d5	63	13 - 107	
						2-Fluorophenol	20	10 - 75	
						2-Fluorobiphenyl	77	27 - 107	
						2,4,6-Tribromophenol	88	38 - 117	

## TIC's By 8270

No TICs were detected.

## Est.Conc

## Units

### Cyanide by Colorimetric Method

Cyanide, Total	BRL	mg/L	0.0050	0.0026	1	9014	10/23/08 15:49	heasler	Q36406
Sample Preparation:			50 mL /	50 mL	9010	10/22/08 11:56	heasler	P22856	

### Mercury by CVAA

Mercury	BRL	mg/L	0.0002	0.000011	1	7470A	10/21/08 17:09	mcampbell	Q36341
Sample Preparation:			20 mL /	30 mL	7470A	10/20/08 10:25	mbarber	P22830	

### Metals by ICP

Antimony	BRL	mg/L	0.010	0.0023	1	6010B	10/22/08 22:36	mcampbell	Q36311
Arsenic	BRL	mg/L	0.010	0.0022	1	6010B	10/22/08 22:36	mcampbell	Q36311
Beryllium	0.0003 J	mg/L	0.0020	0.00022	1	6010B	10/22/08 22:36	mcampbell	Q36311
Cadmium	BRL	mg/L	0.0010	0.00017	1	6010B	10/22/08 22:36	mcampbell	Q36311
Chromium	0.0009 J	mg/L	0.0050	0.00015	1	6010B	10/23/08 13:14	mcampbell	Q36311
Copper	0.0004 J	mg/L	0.010	0.00028	1	6010B	10/22/08 22:36	mcampbell	Q36311

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6  
Prism Sample ID: 228099  
COC Group: G1008550  
Time Collected: 10/13/08 10:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/22/08 22:36	mcampbell	Q36311
Manganese	0.088	mg/L	0.010	0.0012	1	6010B	10/22/08 22:36	mcampbell	Q36311
Nickel	0.0046 J	mg/L	0.010	0.00042	1	6010B	10/22/08 22:36	mcampbell	Q36311
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/23/08 13:14	mcampbell	Q36311
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/22/08 22:36	mcampbell	Q36311
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 22:36	mcampbell	Q36311
Zinc	0.026 J	mg/L	0.030	0.0023	1	6010B	10/22/08 22:36	mcampbell	Q36311
			50 mL /	50 mL		3010A	10/20/08 7:30	mbarber	P22827

Sample Preparation:

## 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

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6A  
Prism Sample ID: 228100  
COC Group: G1008550  
Time Collected: 10/13/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	100	10	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,1,1-Trichloroethane	BRL	µg/L	100	20	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	100	12	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	100	16	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,1-Dichloroethane	BRL	µg/L	100	8.8	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,1-Dichloroethene	97 J	µg/L	100	9.5	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	100	20	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	200	24	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	100	17	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	100	22	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,2,4-Trimethylbenzene	BRL	µg/L	100	16	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	200	130	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	100	14	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	100	11	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	100	12	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,2-Dichloropropane	BRL	µg/L	100	17	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,3,5-Trimethylbenzene	BRL	µg/L	100	19	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	100	12	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	100	12	100	8260B	10/20/08 17:21	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	100	10	100	8260B	10/20/08 17:21	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	200	21	100	8260B	10/20/08 17:21	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	200	41	100	8260B	10/20/08 17:21	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	100	12	100	8260B	10/20/08 17:21	Iwtry	Q36253
2-Hexanone	BRL	µg/L	500	23	100	8260B	10/20/08 17:21	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	100	10	100	8260B	10/20/08 17:21	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	500	46	100	8260B	10/20/08 17:21	Iwtry	Q36253
Acetone	BRL	µg/L	1000	44	100	8260B	10/20/08 17:21	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6A  
Prism Sample ID: 228100  
COC Group: G1008550  
Time Collected: 10/13/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	10000	54	100	8260B	10/20/08 17:21	Iwtry	Q36253
Acrylonitrile	BRL	µg/L	10000	43	100	8260B	10/20/08 17:21	Iwtry	Q36253
Benzene	BRL	µg/L	100	9.4	100	8260B	10/20/08 17:21	Iwtry	Q36253
Bromobenzene	BRL	µg/L	100	8.8	100	8260B	10/20/08 17:21	Iwtry	Q36253
Bromoform	BRL	µg/L	100	8.5	100	8260B	10/20/08 17:21	Iwtry	Q36253
Bromochloromethane	BRL	µg/L	100	15	100	8260B	10/20/08 17:21	Iwtry	Q36253
Bromodichloromethane	BRL	µg/L	100	10	100	8260B	10/20/08 17:21	Iwtry	Q36253
Bromomethane	BRL	µg/L	300	23	100	8260B	10/20/08 17:21	Iwtry	Q36253
Carbon disulfide	BRL	µg/L	500	15	100	8260B	10/20/08 17:21	Iwtry	Q36253
Carbon tetrachloride	BRL	µg/L	200	15	100	8260B	10/20/08 17:21	Iwtry	Q36253
Chlorobenzene	BRL	µg/L	100	10	100	8260B	10/20/08 17:21	Iwtry	Q36253
Chlorodibromomethane	BRL	µg/L	100	20	100	8260B	10/20/08 17:21	Iwtry	Q36253
Chloroethane	BRL	µg/L	500	18	100	8260B	10/20/08 17:21	Iwtry	Q36253
Chloroform	BRL	µg/L	100	8.0	100	8260B	10/20/08 17:21	Iwtry	Q36253
Chloromethane	BRL	µg/L	200	22	100	8260B	10/20/08 17:21	Iwtry	Q36253
cis-1,2-Dichloroethene	BRL	µg/L	100	12	100	8260B	10/20/08 17:21	Iwtry	Q36253
cis-1,3-Dichloropropene	BRL	µg/L	100	9.7	100	8260B	10/20/08 17:21	Iwtry	Q36253
Dibromomethane	BRL	µg/L	100	14	100	8260B	10/20/08 17:21	Iwtry	Q36253
Dichlorodifluoromethane	BRL	µg/L	200	19	100	8260B	10/20/08 17:21	Iwtry	Q36253
Ethylbenzene	BRL	µg/L	100	16	100	8260B	10/20/08 17:21	Iwtry	Q36253
Hexachlorobutadiene	BRL	µg/L	200	17	100	8260B	10/20/08 17:21	Iwtry	Q36253
Isopropyl ether (IPE)	BRL	µg/L	100	7.9	100	8260B	10/20/08 17:21	Iwtry	Q36253
Isopropylbenzene	BRL	µg/L	100	20	100	8260B	10/20/08 17:21	Iwtry	Q36253
m,p-Xylenes	BRL	µg/L	200	33	100	8260B	10/20/08 17:21	Iwtry	Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	500	36	100	8260B	10/20/08 17:21	Iwtry	Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	100	9.3	100	8260B	10/20/08 17:21	Iwtry	Q36253
Methylene chloride	BRL	µg/L	200	16	100	8260B	10/20/08 17:21	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6A  
Prism Sample ID: 228100  
COC Group: G1008550  
Time Collected: 10/13/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	100	21	100	8260B	10/20/08 17:21	Iwiry	Q36253
n-Propylbenzene	BRL	µg/L	100	18	100	8260B	10/20/08 17:21	Iwiry	Q36253
Naphthalene	BRL	µg/L	100	19	100	8260B	10/20/08 17:21	Iwiry	Q36253
o-Xylene	BRL	µg/L	100	17	100	8260B	10/20/08 17:21	Iwiry	Q36253
p-Isopropyltoluene	BRL	µg/L	100	21	100	8260B	10/20/08 17:21	Iwiry	Q36253
sec-Butylbenzene	BRL	µg/L	100	16	100	8260B	10/20/08 17:21	Iwiry	Q36253
Styrene	BRL	µg/L	100	11	100	8260B	10/20/08 17:21	Iwiry	Q36253
tert-Butylbenzene	BRL	µg/L	100	17	100	8260B	10/20/08 17:21	Iwiry	Q36253
Tetrachloroethene	BRL	µg/L	100	17	100	8260B	10/20/08 17:21	Iwiry	Q36253
Toluene	BRL	µg/L	100	31	100	8260B	10/20/08 17:21	Iwiry	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	200	12	100	8260B	10/20/08 17:21	Iwiry	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	100	22	100	8260B	10/20/08 17:21	Iwiry	Q36253
Trichloroethene	42000	µg/L	2000	190	1000	8260B	10/21/08 12:56	Iwiry	Q36253
Trichlorofluoromethane	BRL	µg/L	200	21	100	8260B	10/20/08 17:21	Iwiry	Q36253
Vinyl acetate	BRL	µg/L	2000	44	100	8260B	10/20/08 17:21	Iwiry	Q36253
Vinyl chloride	BRL	µg/L	200	24	100	8260B	10/20/08 17:21	Iwiry	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	80	75 - 121
Dibromofluoromethane	90	74 - 133
Bromofluorobenzene	100	69 - 139

TIC's By 8260	Est.Conc	Units
No TICs were detected.		

## Semi-volatile Organics by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 0:31	kcampigotto	Q36339
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 0:31	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: MW-6A  
 Prism Sample ID: 228100  
 COC Group: G1008550  
 Time Collected: 10/13/08 13:30  
 Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 0:31	kcampigotto	Q36339
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 0:31	kcampigotto	Q36339
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 0:31	kcampigotto	Q36339
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 0:31	kcampigotto	Q36339
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/23/08 0:31	kcampigotto	Q36339
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 0:31	kcampigotto	Q36339
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 0:31	kcampigotto	Q36339
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 0:31	kcampigotto	Q36339
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 0:31	kcampigotto	Q36339
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 0:31	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6A  
Prism Sample ID: 228100  
COC Group: G1008550  
Time Collected: 10/13/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 0:31	kcampigotto	Q36339
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 0:31	kcampigotto	Q36339
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 0:31	kcampigotto	Q36339
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 0:31	kcampigotto	Q36339

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# Laboratory Report

10/29/08

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



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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: MW-6A  
 Prism Sample ID: 228100  
 COC Group: G1008550  
 Time Collected: 10/13/08 13:30  
 Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID																					
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/23/08 0:31	kcampigotto	Q36339																					
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/23/08 0:31	kcampigotto	Q36339																					
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 0:31	kcampigotto	Q36339																					
Sample Preparation:																														
<table border="1"> <thead> <tr> <th>Surrogate</th> <th>% Recovery</th> <th>Control Limits</th> </tr> </thead> <tbody> <tr> <td>Terphenyl-d14</td> <td>100</td> <td>41 - 136</td> </tr> <tr> <td>Phenol-d5</td> <td>10</td> <td>10 - 78</td> </tr> <tr> <td>Nitrobenzene-d5</td> <td>60</td> <td>13 - 107</td> </tr> <tr> <td>2-Fluorophenol</td> <td>18</td> <td>10 - 75</td> </tr> <tr> <td>2-Fluorobiphenyl</td> <td>70</td> <td>27 - 107</td> </tr> <tr> <td>2,4,6-Tribromophenol</td> <td>87</td> <td>38 - 117</td> </tr> </tbody> </table>										Surrogate	% Recovery	Control Limits	Terphenyl-d14	100	41 - 136	Phenol-d5	10	10 - 78	Nitrobenzene-d5	60	13 - 107	2-Fluorophenol	18	10 - 75	2-Fluorobiphenyl	70	27 - 107	2,4,6-Tribromophenol	87	38 - 117
Surrogate	% Recovery	Control Limits																												
Terphenyl-d14	100	41 - 136																												
Phenol-d5	10	10 - 78																												
Nitrobenzene-d5	60	13 - 107																												
2-Fluorophenol	18	10 - 75																												
2-Fluorobiphenyl	70	27 - 107																												
2,4,6-Tribromophenol	87	38 - 117																												

## TIC's By 8270

No TICs were detected.

## Cyanide by Colorimetric Method

Cyanide, Total  
 Sample Preparation:

## Mercury by CVAA

Mercury  
 Sample Preparation:

## Metals by ICP

Antimony  
 Arsenic  
 Beryllium  
 Cadmium  
 Chromium  
 Copper  
 Sample Preparation:

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

## Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-6A  
Prism Sample ID: 228100  
COC Group: G1008550  
Time Collected: 10/13/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/22/08 22:41	mcampbell	Q36311
Manganese	0.0049 J	mg/L	0.010	0.0012	1	6010B	10/22/08 22:41	mcampbell	Q36311
Nickel	0.0017 J	mg/L	0.010	0.00042	1	6010B	10/22/08 22:41	mcampbell	Q36311
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/23/08 13:19	mcampbell	Q36311
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/22/08 22:41	mcampbell	Q36311
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 22:41	mcampbell	Q36311
Zinc	0.0051 J	mg/L	0.030	0.0023	1	6010B	10/22/08 22:41	mcampbell	Q36311
Sample Preparation:				50 mL /	50 mL	3010A	10/20/08 7:30	mbarber	P22827

### 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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4A  
Prism Sample ID: 228101  
COC Group: G1008550  
Time Collected: 10/15/08 11:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 14:45	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 14:45	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	2.0	0.41	1	8260B	10/20/08 14:45	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 14:45	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	5.0	0.23	1	8260B	10/20/08 14:45	Iwtry	Q36253
2-Hexanone	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 14:45	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	5.0	0.46	1	8260B	10/20/08 14:45	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	20	0.44	1	8260B	10/20/08 14:45	Iwtry	Q36253
Acetone									

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4A  
Prism Sample ID: 228101  
COC Group: G1008550  
Time Collected: 10/15/08 11:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	10/20/08 14:45	Iwtry	Q36253
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	10/20/08 14:45	Iwtry	Q36253
Benzene	BRL	µg/L	1.0	0.094	1	8260B	10/20/08 14:45	Iwtry	Q36253
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	10/20/08 14:45	Iwtry	Q36253
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	10/20/08 14:45	Iwtry	Q36253
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	10/20/08 14:45	Iwtry	Q36253
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 14:45	Iwtry	Q36253
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	10/20/08 14:45	Iwtry	Q36253
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	10/20/08 14:45	Iwtry	Q36253
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	10/20/08 14:45	Iwtry	Q36253
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 14:45	Iwtry	Q36253
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 14:45	Iwtry	Q36253
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	10/20/08 14:45	Iwtry	Q36253
Chloroform	2.4	µg/L	1.0	0.080	1	8260B	10/20/08 14:45	Iwtry	Q36253
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 14:45	Iwtry	Q36253
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 14:45	Iwtry	Q36253
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	10/20/08 14:45	Iwtry	Q36253
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	10/20/08 14:45	Iwtry	Q36253
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	10/20/08 14:45	Iwtry	Q36253
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 14:45	Iwtry	Q36253
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	10/20/08 14:45	Iwtry	Q36253
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	10/20/08 14:45	Iwtry	Q36253
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 14:45	Iwtry	Q36253
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	10/20/08 14:45	Iwtry	Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	10/20/08 14:45	Iwtry	Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	10/20/08 14:45	Iwtry	Q36253
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	10/20/08 14:45	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4A  
Prism Sample ID: 228101  
COC Group: G1008550  
Time Collected: 10/15/08 11:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	10/20/08 14:45	Iwtry	Q36253
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	10/20/08 14:45	Iwtry	Q36253
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	10/20/08 14:45	Iwtry	Q36253
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 14:45	Iwtry	Q36253
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	10/20/08 14:45	Iwtry	Q36253
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 14:45	Iwtry	Q36253
Styrene	BRL	µg/L	1.0	0.11	1	8260B	10/20/08 14:45	Iwtry	Q36253
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 14:45	Iwtry	Q36253
Tetrachloroethene	BRL	µg/L	1.0	0.31	1	8260B	10/20/08 14:45	Iwtry	Q36253
Toluene	BRL	µg/L	1.0	0.31	1	8260B	10/20/08 14:45	Iwtry	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	10/20/08 14:45	Iwtry	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	10/20/08 14:45	Iwtry	Q36253
Trichloroethene	1.8 J	µg/L	2.0	0.19	1	8260B	10/20/08 14:45	Iwtry	Q36253
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 14:45	Iwtry	Q36253
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	10/20/08 14:45	Iwtry	Q36253
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	10/20/08 14:45	Iwtry	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	75	75 - 121
Dibromofluoromethane	82	74 - 133
Bromofluorobenzene	97	69 - 139

TIC's By 8260		Est.Conc	Units					
Unknown		11	µg/L					
<u>Semi-volatile Organics by GC/MS</u>								
1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 1:02	kcampigotto Q36339
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 1:02	kcampigotto Q36339



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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4A  
Prism Sample ID: 228101  
COC Group: G1008550  
Time Collected: 10/15/08 11:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 1:02	kcampigotto	Q36339
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 1:02	kcampigotto	Q36339
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 1:02	kcampigotto	Q36339
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 1:02	kcampigotto	Q36339
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/23/08 1:02	kcampigotto	Q36339
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 1:02	kcampigotto	Q36339
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 1:02	kcampigotto	Q36339
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 1:02	kcampigotto	Q36339
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 1:02	kcampigotto	Q36339
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 1:02	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4A  
Prism Sample ID: 228101  
COC Group: G1008550  
Time Collected: 10/15/08 11:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 1:02	kcampigotto	Q36339
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 1:02	kcampigotto	Q36339
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 1:02	kcampigotto	Q36339
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 1:02	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4A  
Prism Sample ID: 228101  
COC Group: G1008550  
Time Collected: 10/15/08 11:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID		
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/23/08 1:02	kcampigotto	Q36339		
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/23/08 1:02	kcampigotto	Q36339		
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 1:02	kcampigotto	Q36339		
Sample Preparation:		1030 mL /		1 mL	3510C	10/17/08 9:00	smanlvanh	P22822			
						Surrogate	% Recovery	Control Limits			
						Terphenyl-d14	108	41 - 136			
						Phenol-d5	12	10 - 78			
						Nitrobenzene-d5	73	13 - 107			
						2-Fluorophenol	25	10 - 75			
						2-Fluorobiphenyl	88	27 - 107			
						2,4,6-Tribromophenol	96	38 - 117			

TIC's By 8270	Est.Conc	Units
Unknown	17	ug/L
Unknown	12	ug/L
Unknown	11	ug/L
Unknown	10	ug/L
alpha-Terpineol	63	ug/L

Cyanide by Colorimetric Method	BRL	mg/L	0.0050	0.0026	1	9014	10/27/08 16:28	heasier	Q36460
Cyanide, Total									

Sample Preparation: 50 mL / 50 mL 9010 10/24/08 10:31 heasier P22887

Mercury by CVAA	BRL	mg/L	0.0002	0.000011	1	7470A	10/21/08 17:16	mcampbell	Q36341
Mercury									

Sample Preparation: 20 mL / 30 mL 7470A 10/20/08 10:25 mbarber P22830

Metals by ICP	BRL	mg/L	0.010	0.0023	1	6010B	10/22/08 22:47	mcampbell	Q36311
Antimony									
Arsenic	0.0028 J	mg/L	0.010	0.0022	1	6010B	10/22/08 22:47	mcampbell	Q36311

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NC Drinking Water Cert. No. 37735

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-4A  
Prism Sample ID: 228101  
COC Group: G1008550  
Time Collected: 10/15/08 11:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Beryllium	BRL	mg/L	0.0020	0.00022	1	6010B	10/22/08 22:47	mcampbell	Q36311
Cadmium	BRL	mg/L	0.0010	0.00017	1	6010B	10/22/08 22:47	mcampbell	Q36311
Chromium	0.033	mg/L	0.0050	0.00015	1	6010B	10/23/08 13:26	mcampbell	Q36311
Copper	0.0021 J	mg/L	0.010	0.00028	1	6010B	10/22/08 22:47	mcampbell	Q36311
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/22/08 22:47	mcampbell	Q36311
Manganese	0.037	mg/L	0.010	0.0012	1	6010B	10/22/08 22:47	mcampbell	Q36311
Nickel	0.0007 J	mg/L	0.010	0.00042	1	6010B	10/23/08 13:26	mcampbell	Q36311
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/22/08 22:47	mcampbell	Q36311
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/22/08 22:47	mcampbell	Q36311
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 22:47	mcampbell	Q36311
Zinc	0.0065 J	mg/L	0.030	0.0023	1	6010B	10/22/08 22:47	mcampbell	Q36311
Sample Preparation:				50 mL	/	50 mL	3010A	10/20/08 7:30	mbarber
P22827									

## 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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5A  
Prism Sample ID: 228102  
COC Group: G1008550  
Time Collected: 10/14/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 15:11	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 15:11	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 15:11	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	10/20/08 15:11	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 15:11	Iwtry	Q36253
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	10/20/08 15:11	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 15:11	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	10/20/08 15:11	Iwtry	Q36253
Acetone	8.6 J	µg/L	10	0.44	1	8260B	10/20/08 15:11	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5A  
Prism Sample ID: 228102  
COC Group: G1008550  
Time Collected: 10/14/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	10/20/08 15:11	Iwtry	Q36253
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	10/20/08 15:11	Iwtry	Q36253
Benzene	BRL	µg/L	1.0	0.094	1	8260B	10/20/08 15:11	Iwtry	Q36253
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	10/20/08 15:11	Iwtry	Q36253
Bromoform	BRL	µg/L	1.0	0.085	1	8260B	10/20/08 15:11	Iwtry	Q36253
Bromochloromethane	BRL	µg/L	1.0	0.15	1	8260B	10/20/08 15:11	Iwtry	Q36253
Bromodichloromethane	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 15:11	Iwtry	Q36253
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	10/20/08 15:11	Iwtry	Q36253
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	10/20/08 15:11	Iwtry	Q36253
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	10/20/08 15:11	Iwtry	Q36253
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 15:11	Iwtry	Q36253
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 15:11	Iwtry	Q36253
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	10/20/08 15:11	Iwtry	Q36253
Chloroform	0.59 J	µg/L	1.0	0.080	1	8260B	10/20/08 15:11	Iwtry	Q36253
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 15:11	Iwtry	Q36253
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 15:11	Iwtry	Q36253
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	10/20/08 15:11	Iwtry	Q36253
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	10/20/08 15:11	Iwtry	Q36253
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	10/20/08 15:11	Iwtry	Q36253
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 15:11	Iwtry	Q36253
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	10/20/08 15:11	Iwtry	Q36253
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	10/20/08 15:11	Iwtry	Q36253
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 15:11	Iwtry	Q36253
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	10/20/08 15:11	Iwtry	Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	10/20/08 15:11	Iwtry	Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	10/20/08 15:11	Iwtry	Q36253
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	10/20/08 15:11	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5A  
Prism Sample ID: 228102  
COC Group: G1008550  
Time Collected: 10/14/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	10/20/08 15:11	Iwtry	Q36253
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	10/20/08 15:11	Iwtry	Q36253
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	10/20/08 15:11	Iwtry	Q36253
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 15:11	Iwtry	Q36253
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	10/20/08 15:11	Iwtry	Q36253
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 15:11	Iwtry	Q36253
Styrene	BRL	µg/L	1.0	0.11	1	8260B	10/20/08 15:11	Iwtry	Q36253
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 15:11	Iwtry	Q36253
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 15:11	Iwtry	Q36253
Toluene	BRL	µg/L	1.0	0.31	1	8260B	10/20/08 15:11	Iwtry	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	10/20/08 15:11	Iwtry	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	10/20/08 15:11	Iwtry	Q36253
Trichloroethene	77	µg/L	2.0	0.19	1	8260B	10/20/08 15:11	Iwtry	Q36253
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 15:11	Iwtry	Q36253
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	10/20/08 15:11	Iwtry	Q36253
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	10/20/08 15:11	Iwtry	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	113	75 - 121
Dibromofluoromethane	81	74 - 133
Bromofluorobenzene	95	69 - 139

## TIC's By 8260

No TICs were detected.

Est.Conc      Units

Semi-volatile Organics by GC/MS							
1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 1:34 kcampigotto Q36339
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 1:34 kcampigotto Q36339

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Asheville, NC 28806

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5A  
Prism Sample ID: 228102  
COC Group: G1008550  
Time Collected: 10/14/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 1:34	kcampigotto	Q36339
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 1:34	kcampigotto	Q36339
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 1:34	kcampigotto	Q36339
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 1:34	kcampigotto	Q36339
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/23/08 1:34	kcampigotto	Q36339
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 1:34	kcampigotto	Q36339
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 1:34	kcampigotto	Q36339
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 1:34	kcampigotto	Q36339
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 1:34	kcampigotto	Q36339
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 1:34	kcampigotto	Q36339

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NC Certification No. 402  
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# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5A  
Prism Sample ID: 228102  
COC Group: G1008550  
Time Collected: 10/14/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 1:34	kcampigotto	Q36339
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 1:34	kcampigotto	Q36339
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 1:34	kcampigotto	Q36339

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# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-5A  
Prism Sample ID: 228102  
COC Group: G1008550  
Time Collected: 10/14/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/23/08 1:34	kcampigotto	Q36339
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 1:34	kcampigotto	Q36339

Surrogate recovery was outside of the control limits. Matrix interference is suspected.

Sample Preparation: 1030 mL / 1 mL 3510C 10/17/08 9:00 smanivanh P22822

Surrogate	% Recovery	Control Limits
Terphenyl-d14	105	41 - 136
Phenol-d5	9 #	10 - 78
Nitrobenzene-d5	70	13 - 107
2-Fluorophenol	15	10 - 75
2-Fluorobiphenyl	81	27 - 107
2,4,6-Tribromophenol	85	38 - 117

TIC's By 8270	Est.Conc	Units
Unknown	52	ug/L
Unknown	17	ug/L
Unknown	12	ug/L
Unknown	10	ug/L

Cyanide by Colorimetric Method								
Cyanide, Total	BRL	mg/L	0.0050	0.0026	1	9014	10/27/08 16:28	heasler
Sample Preparation:			50 mL	/	50 mL	9010	10/24/08 10:31	heasler

Mercury by CVAA								
Mercury	BRL	mg/L	0.0002	0.000011	1	7470A	10/21/08 17:20	mcampbell
Sample Preparation:			20 mL	/	30 mL	7470A	10/20/08 10:25	mbarber

Metals by ICP								
Antimony	BRL	mg/L	0.010	0.0023	1	6010B	10/22/08 23:04	mcampbell
Arsenic	BRL	mg/L	0.010	0.0022	1	6010B	10/22/08 23:04	mcampbell
Beryllium	BRL	mg/L	0.0020	0.00022	1	6010B	10/22/08 23:04	mcampbell

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Client Sample ID: MW-5A  
Prism Sample ID: 228102  
COC Group: G1008550  
Time Collected: 10/14/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Cadmium	BRL	mg/L	0.0010	0.00017	1	6010B	10/22/08 23:04	mcampbell	Q36311
Chromium	0.029	mg/L	0.0050	0.00015	1	6010B	10/24/08 13:55	mcampbell	Q36311
Copper	0.0007 J	mg/L	0.010	0.00028	1	6010B	10/22/08 23:04	mcampbell	Q36311
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/22/08 23:04	mcampbell	Q36311
Manganese	0.012	mg/L	0.010	0.0012	1	6010B	10/22/08 23:04	mcampbell	Q36311
Nickel	BRL	mg/L	0.010	0.00042	1	6010B	10/22/08 23:04	mcampbell	Q36311
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/23/08 13:42	mcampbell	Q36311
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/22/08 23:04	mcampbell	Q36311
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 23:04	mcampbell	Q36311
Zinc	0.0074 J	mg/L	0.030	0.0023	1	6010B	10/22/08 23:04	mcampbell	Q36311
Sample Preparation:			50 mL	/	50 mL	3010A	10/20/08 7:30	mbarber	P22827

---

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

A handwritten signature in black ink, appearing to read "Angela D. Overcash".

---

Angela D. Overcash, V.P. Laboratory Services

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10/29/08

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Attn: Susan Kelly  
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Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3A  
Prism Sample ID: 228103  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	20	2.0	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,1,1-Trichloroethane	1300	µg/L	20	4.0	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	20	2.3	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	20	3.1	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,1-Dichloroethane	BRL	µg/L	20	1.8	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,1-Dichloroethene	34	µg/L	20	1.9	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	20	3.9	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	40	4.8	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	20	3.3	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	20	4.4	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,2,4-Trimethylbenzene	48	µg/L	20	3.1	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	40	26	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	20	2.8	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	20	2.1	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	20	2.5	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,2-Dichloropropene	BRL	µg/L	20	3.4	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,3,5-Trimethylbenzene	16 J	µg/L	20	3.8	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	20	2.3	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	20	2.4	20	8260B	10/20/08 18:39	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	20	2.0	20	8260B	10/20/08 18:39	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	40	4.2	20	8260B	10/20/08 18:39	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	40	8.2	20	8260B	10/20/08 18:39	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	20	2.4	20	8260B	10/20/08 18:39	Iwtry	Q36253
2-Hexanone	BRL	µg/L	100	4.6	20	8260B	10/20/08 18:39	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	20	2.1	20	8260B	10/20/08 18:39	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	100	9.2	20	8260B	10/20/08 18:39	Iwtry	Q36253
Acetone	BRL	µg/L	200	8.8	20	8260B	10/20/08 18:39	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3A  
Prism Sample ID: 228103  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	2000	11	20	8260B	10/20/08 18:39	Iwtry	Q36253
Acrylonitrile	BRL	µg/L	2000	8.6	20	8260B	10/20/08 18:39	Iwtry	Q36253
Benzene	BRL	µg/L	20	1.9	20	8260B	10/20/08 18:39	Iwtry	Q36253
Bromobenzene	BRL	µg/L	20	1.8	20	8260B	10/20/08 18:39	Iwtry	Q36253
Bromoform	BRL	µg/L	20	1.7	20	8260B	10/20/08 18:39	Iwtry	Q36253
Bromodichloromethane	BRL	µg/L	20	3.0	20	8260B	10/20/08 18:39	Iwtry	Q36253
Bromoform	BRL	µg/L	20	2.0	20	8260B	10/20/08 18:39	Iwtry	Q36253
Bromomethane	BRL	µg/L	60	4.5	20	8260B	10/20/08 18:39	Iwtry	Q36253
Carbon disulfide	BRL	µg/L	100	3.0	20	8260B	10/20/08 18:39	Iwtry	Q36253
Carbon tetrachloride	BRL	µg/L	40	3.0	20	8260B	10/20/08 18:39	Iwtry	Q36253
Chlorobenzene	BRL	µg/L	20	2.0	20	8260B	10/20/08 18:39	Iwtry	Q36253
Chlorodibromomethane	BRL	µg/L	20	4.1	20	8260B	10/20/08 18:39	Iwtry	Q36253
Chloroethane	BRL	µg/L	100	3.7	20	8260B	10/20/08 18:39	Iwtry	Q36253
Chloroform	BRL	µg/L	20	1.6	20	8260B	10/20/08 18:39	Iwtry	Q36253
Chloromethane	BRL	µg/L	40	4.3	20	8260B	10/20/08 18:39	Iwtry	Q36253
cis-1,2-Dichloroethylene	14 J	µg/L	20	2.4	20	8260B	10/20/08 18:39	Iwtry	Q36253
cis-1,3-Dichloropropene	BRL	µg/L	20	1.9	20	8260B	10/20/08 18:39	Iwtry	Q36253
Dibromomethane	BRL	µg/L	20	2.7	20	8260B	10/20/08 18:39	Iwtry	Q36253
Dichlorodifluoromethane	BRL	µg/L	40	3.9	20	8260B	10/20/08 18:39	Iwtry	Q36253
Ethylbenzene	18 J	µg/L	20	3.2	20	8260B	10/20/08 18:39	Iwtry	Q36253
Hexachlorobutadiene	BRL	µg/L	40	3.4	20	8260B	10/20/08 18:39	Iwtry	Q36253
Isopropyl ether (IPE)	BRL	µg/L	20	1.6	20	8260B	10/20/08 18:39	Iwtry	Q36253
Isopropylbenzene	12 J	µg/L	20	3.9	20	8260B	10/20/08 18:39	Iwtry	Q36253
m,p-Xylenes	14 J	µg/L	40	6.7	20	8260B	10/20/08 18:39	Iwtry	Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	100	7.1	20	8260B	10/20/08 18:39	Iwtry	Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	20	1.9	20	8260B	10/20/08 18:39	Iwtry	Q36253
Methylene chloride	BRL	µg/L	40	3.1	20	8260B	10/20/08 18:39	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3A  
Prism Sample ID: 228103  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	20	4.3	20	8260B	10/20/08 18:39	Iwtry	Q36253
n-Propylbenzene	BRL	µg/L	20	3.6	20	8260B	10/20/08 18:39	Iwtry	Q36253
Naphthalene	63	µg/L	20	3.9	20	8260B	10/20/08 18:39	Iwtry	Q36253
o-Xylene	33	µg/L	20	3.4	20	8260B	10/20/08 18:39	Iwtry	Q36253
p-Isopropyltoluene	BRL	µg/L	20	4.2	20	8260B	10/20/08 18:39	Iwtry	Q36253
sec-Butylbenzene	BRL	µg/L	20	3.3	20	8260B	10/20/08 18:39	Iwtry	Q36253
Styrene	BRL	µg/L	20	2.2	20	8260B	10/20/08 18:39	Iwtry	Q36253
tert-Butylbenzene	BRL	µg/L	20	3.5	20	8260B	10/20/08 18:39	Iwtry	Q36253
Tetrachloroethene	BRL	µg/L	20	3.4	20	8260B	10/20/08 18:39	Iwtry	Q36253
Toluene	BRL	µg/L	20	6.2	20	8260B	10/20/08 18:39	Iwtry	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	40	2.4	20	8260B	10/20/08 18:39	Iwtry	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	20	4.5	20	8260B	10/20/08 18:39	Iwtry	Q36253
Trichloroethene	15000	µg/L	800	74	400	8260B	10/21/08 13:48	Iwtry	Q36253
Trichlorofluoromethane	BRL	µg/L	40	4.2	20	8260B	10/20/08 18:39	Iwtry	Q36253
Vinyl acetate	BRL	µg/L	400	8.8	20	8260B	10/20/08 18:39	Iwtry	Q36253
Vinyl chloride	BRL	µg/L	40	4.7	20	8260B	10/20/08 18:39	Iwtry	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	89	75 - 121
Dibromofluoromethane	105	74 - 133
Bromofluorobenzene	105	69 - 139

TIC's By 8260  
No TICs were detected.

Est.Conc      Units

Semi-volatile Organics by GC/MS	Result	Units	Est.Conc	Units	Method	Analysis Date/Time	Analyst	Batch ID	
1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/22/08 18:45	kcampigotto	Q36339
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/22/08 18:45	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3A  
Prism Sample ID: 228103  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/22/08 18:45	kcampigotto	Q36339
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2-Methylnaphthalene	3.3 J	µg/L	9.7	2.6	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/22/08 18:45	kcampigotto	Q36339
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/22/08 18:45	kcampigotto	Q36339
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/22/08 18:45	kcampigotto	Q36339
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/22/08 18:45	kcampigotto	Q36339
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/22/08 18:45	kcampigotto	Q36339
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/22/08 18:45	kcampigotto	Q36339
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/22/08 18:45	kcampigotto	Q36339
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/22/08 18:45	kcampigotto	Q36339
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/22/08 18:45	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3A  
Prism Sample ID: 228103  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Fluorene	3.1 J	µg/L	9.7	1.7	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/22/08 18:45	kcampigotto	Q36339
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/22/08 18:45	kcampigotto	Q36339
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/22/08 18:45	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3A  
Prism Sample ID: 228103  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	3.5 J	µg/L	9.7	0.98	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/22/08 18:45	kcampigotto	Q36339
Sample Preparation:			1030 mL	/	1 mL	3510C	10/17/08 9:00	smanivah	P22822
							Surrogate	% Recovery	Control Limits
							Terphenyl-d14	91	41 - 136
							Phenol-d5	14	10 - 78
							Nitrobenzene-d5	62	13 - 107
							2-Fluorophenol	23	10 - 75
							2-Fluorobiphenyl	75	27 - 107
							2,4,6-Tribromophenol	80	38 - 117

TIC's By 8270	Est.Conc	Units
Unknown	25	ug/L
Unknown	21	ug/L
Trimethylbenzene	26	ug/L
Trimethylbenzene	25	ug/L
Tetrahydronaphthalene	14	ug/L
Methyl Indane	22	ug/L
Ethylmethyl benzene	19	ug/L
Ethyldimethylbenzene	15	ug/L
Dimethylnaphthalene	31	ug/L
Dimethylnaphthalene	19	ug/L

#### Cyanide by Colorimetric Method

Cyanide, Total	0.0046 J	mg/L	0.0050	0.0026	1	9014	10/27/08 16:28	heasler	Q36460
Sample Preparation:			50 mL	/	50 mL	9010	10/24/08 10:31	heasler	P22887

#### Mercury by CVAA

Mercury	BRL	mg/L	0.0002	0.000011	1	7470A	10/21/08 16:47	mcampbell	Q36341
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# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3A  
Prism Sample ID: 228103  
COC Group: G1008550  
Time Collected: 10/14/08 15:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:									
<b>Metals by ICP</b>									
Antimony	BRL	mg/L	0.010	0.0023	1	6010B	10/22/08 22:03	mcampbell	Q36311
Arsenic	0.0027 J	mg/L	0.010	0.0022	1	6010B	10/22/08 22:03	mcampbell	Q36311
Beryllium	BRL	mg/L	0.0020	0.00022	1	6010B	10/22/08 22:03	mcampbell	Q36311
Cadmium	BRL	mg/L	0.0010	0.00017	1	6010B	10/22/08 22:03	mcampbell	Q36311
Chromium	0.0034 J	mg/L	0.0050	0.00015	1	6010B	10/23/08 12:42	mcampbell	Q36311
Copper	BRL	mg/L	0.010	0.00028	1	6010B	10/22/08 22:03	mcampbell	Q36311
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/22/08 22:03	mcampbell	Q36311
Manganese	1.4	mg/L	0.010	0.0012	1	6010B	10/22/08 22:03	mcampbell	Q36311
Nickel	0.0017 J	mg/L	0.010	0.00042	1	6010B	10/22/08 22:03	mcampbell	Q36311
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/23/08 12:42	mcampbell	Q36311
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/22/08 22:03	mcampbell	Q36311
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 22:03	mcampbell	Q36311
Zinc	0.013 J	mg/L	0.030	0.0023	1	6010B	10/22/08 22:03	mcampbell	Q36311
Sample Preparation:									
50 mL / 50 mL									
3010A									
10/20/08 7:30 mbarber P22827									

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3  
Prism Sample ID: 228104  
COC Group: G1008550  
Time Collected: 10/15/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	20	2.0	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,1,1-Trichloroethane	1600	µg/L	20	4.0	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	20	2.3	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	20	3.1	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,1-Dichloroethane	15 J	µg/L	20	1.8	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,1-Dichloroethene	120	µg/L	20	1.9	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	20	3.9	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	40	4.8	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	20	3.3	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	20	4.4	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,2,4-Trimethylbenzene	110	µg/L	20	3.1	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	40	26	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	20	2.8	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	20	2.1	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	20	2.5	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,2-Dichloropropane	BRL	µg/L	20	3.4	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,3,5-Trimethylbenzene	31	µg/L	20	3.8	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	20	2.3	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	20	2.4	20	8260B	10/20/08 19:05	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	20	2.0	20	8260B	10/20/08 19:05	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	40	4.2	20	8260B	10/20/08 19:05	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	40	8.2	20	8260B	10/20/08 19:05	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	20	2.4	20	8260B	10/20/08 19:05	Iwtry	Q36253
2-Hexanone	BRL	µg/L	100	4.6	20	8260B	10/20/08 19:05	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	20	2.1	20	8260B	10/20/08 19:05	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	100	9.2	20	8260B	10/20/08 19:05	Iwtry	Q36253
Acetone	BRL	µg/L	200	8.8	20	8260B	10/20/08 19:05	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3  
Prism Sample ID: 228104  
COC Group: G1008550  
Time Collected: 10/15/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	2000	11	20	8260B	10/20/08 19:05	Iwtry	Q36253
Acrylonitrile	BRL	µg/L	2000	8.6	20	8260B	10/20/08 19:05	Iwtry	Q36253
Benzene	80	µg/L	20	1.9	20	8260B	10/20/08 19:05	Iwtry	Q36253
Bromobenzene	BRL	µg/L	20	1.8	20	8260B	10/20/08 19:05	Iwtry	Q36253
Bromochloromethane	BRL	µg/L	20	1.7	20	8260B	10/20/08 19:05	Iwtry	Q36253
Bromodichloromethane	BRL	µg/L	20	3.0	20	8260B	10/20/08 19:05	Iwtry	Q36253
Bromoform	BRL	µg/L	20	2.0	20	8260B	10/20/08 19:05	Iwtry	Q36253
Bromomethane	BRL	µg/L	60	4.5	20	8260B	10/20/08 19:05	Iwtry	Q36253
Carbon disulfide	BRL	µg/L	100	3.0	20	8260B	10/20/08 19:05	Iwtry	Q36253
Carbon tetrachloride	BRL	µg/L	40	3.0	20	8260B	10/20/08 19:05	Iwtry	Q36253
Chlorobenzene	BRL	µg/L	20	2.0	20	8260B	10/20/08 19:05	Iwtry	Q36253
Chlorodibromomethane	BRL	µg/L	20	4.1	20	8260B	10/20/08 19:05	Iwtry	Q36253
Chloroethane	BRL	µg/L	100	3.7	20	8260B	10/20/08 19:05	Iwtry	Q36253
Chloroform	BRL	µg/L	20	1.6	20	8260B	10/20/08 19:05	Iwtry	Q36253
Chloromethane	BRL	µg/L	40	4.3	20	8260B	10/20/08 19:05	Iwtry	Q36253
cis-1,2-Dichloroethene	45	µg/L	20	2.4	20	8260B	10/20/08 19:05	Iwtry	Q36253
cis-1,3-Dichloropropene	BRL	µg/L	20	1.9	20	8260B	10/20/08 19:05	Iwtry	Q36253
Dibromomethane	BRL	µg/L	20	2.7	20	8260B	10/20/08 19:05	Iwtry	Q36253
Dichlorodifluoromethane	BRL	µg/L	40	3.9	20	8260B	10/20/08 19:05	Iwtry	Q36253
Ethylbenzene	38	µg/L	20	3.2	20	8260B	10/20/08 19:05	Iwtry	Q36253
Hexachlorobutadiene	BRL	µg/L	40	3.4	20	8260B	10/20/08 19:05	Iwtry	Q36253
Isopropyl ether (IPE)	BRL	µg/L	20	1.6	20	8260B	10/20/08 19:05	Iwtry	Q36253
Isopropylbenzene	15 J	µg/L	20	3.9	20	8260B	10/20/08 19:05	Iwtry	Q36253
m,p-Xylenes	64	µg/L	40	6.7	20	8260B	10/20/08 19:05	Iwtry	Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	100	7.1	20	8260B	10/20/08 19:05	Iwtry	Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	20	1.9	20	8260B	10/20/08 19:05	Iwtry	Q36253
Methylene chloride	BRL	µg/L	40	3.1	20	8260B	10/20/08 19:05	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3  
Prism Sample ID: 228104  
COC Group: G1008550  
Time Collected: 10/15/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	20	4.3	20	8260B	10/20/08 19:05	Iwity	Q36253
n-Propylbenzene	13 J	µg/L	20	3.6	20	8260B	10/20/08 19:05	Iwity	Q36253
Naphthalene	180	µg/L	20	3.9	20	8260B	10/20/08 19:05	Iwity	Q36253
o-Xylene	150	µg/L	20	3.4	20	8260B	10/20/08 19:05	Iwity	Q36253
p-Isopropyltoluene	BRL	µg/L	20	4.2	20	8260B	10/20/08 19:05	Iwity	Q36253
sec-Butylbenzene	BRL	µg/L	20	3.3	20	8260B	10/20/08 19:05	Iwity	Q36253
Styrene	BRL	µg/L	20	2.2	20	8260B	10/20/08 19:05	Iwity	Q36253
tert-Butylbenzene	BRL	µg/L	20	3.5	20	8260B	10/20/08 19:05	Iwity	Q36253
Tetrachloroethene	BRL	µg/L	20	3.4	20	8260B	10/20/08 19:05	Iwity	Q36253
Toluene	10 J	µg/L	20	6.2	20	8260B	10/20/08 19:05	Iwity	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	40	2.4	20	8260B	10/20/08 19:05	Iwity	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	20	4.5	20	8260B	10/20/08 19:05	Iwity	Q36253
Trichloroethene	17000	µg/L	800	74	400	8260B	10/21/08 14:14	Iwity	Q36253
Trichlorofluoromethane	BRL	µg/L	40	4.2	20	8260B	10/20/08 19:05	Iwity	Q36253
Vinyl acetate	BRL	µg/L	400	8.8	20	8260B	10/20/08 19:05	Iwity	Q36253
Vinyl chloride	BRL	µg/L	40	4.7	20	8260B	10/20/08 19:05	Iwity	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	81	75 - 121
Dibromofluoromethane	100	74 - 133
Bromofluorobenzene	102	69 - 139

TIC's By 8260	Est.Conc	Units
Ethyl methyl benzene	110	µg/L
2-Methyl naphthalene	130	µg/L

## Semi-volatile Organics by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 2:56	kcampigotto	Q36339
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 2:56	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3  
Prism Sample ID: 228104  
COC Group: G1008550  
Time Collected: 10/15/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 2:56	kcampigotto	Q36339
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2-Methylnaphthalene	150	µg/L	49	13	5	8270C	10/23/08 14:30	kcampigotto	Q36339
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 2:56	kcampigotto	Q36339
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 2:56	kcampigotto	Q36339
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 2:56	kcampigotto	Q36339
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/23/08 2:56	kcampigotto	Q36339
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 2:56	kcampigotto	Q36339
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 2:56	kcampigotto	Q36339
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 2:56	kcampigotto	Q36339
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 2:56	kcampigotto	Q36339
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 2:56	kcampigotto	Q36339

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NC Certification No. 402  
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# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3  
Prism Sample ID: 228104  
COC Group: G1008550  
Time Collected: 10/15/08 13:30  
Time Submitted: 10/16/08 12:55

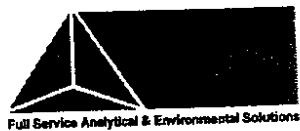
Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Dibenzofuran	2.6 J	µg/L	9.7	1.9	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Fluorene	5.0 J	µg/L	9.7	1.7	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 2:56	kcampigotto	Q36339
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 2:56	kcampigotto	Q36339
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Naphthalene	120	µg/L	49	15	5	8270C	10/23/08 14:30	kcampigotto	Q36339
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 2:56	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-3  
Prism Sample ID: 228104  
COC Group: G1008550  
Time Collected: 10/15/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	4.1 J	µg/L	9.7	0.98	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 2:56	kcampigotto	Q36339
Sample Preparation:			1030 mL	/	1 mL	3510C	10/17/08 9:00	smanivanh	P22822
						Surrogate	% Recovery	Control Limits	
						Terphenyl-d14	96	41 - 136	
						Phenol-d5	17	10 - 78	
						Nitrobenzene-d5	79	13 - 107	
						2-Fluorophenol	27	10 - 75	
						2-Fluorobiphenyl	82	27 - 107	
						2,4,6-Tribromophenol	97	38 - 117	

TIC's By 8270	Est.Conc	Units
Unknown	38	ug/L
Unknown	34	ug/L
Unknown	33	ug/L
Unknown	110	ug/L
Trimethylbenzene	89	ug/L
Trimethylbenzene	57	ug/L
Trimethylbenzene	28	ug/L
Methyl Indane	38	ug/L
Ethylmethylbenzene	57	ug/L
Dimethylnaphthalene	36	ug/L

<u>Cyanide by Colorimetric Method</u>	0.0034 J	mg/L	0.0050	0.0026	1	9014	10/27/08 16:28	heasler	Q36460
Cyanide, Total						9010	10/24/08 10:31	heasler	P22887

Sample Preparation:

<u>Mercury by CVAA</u>	BRL	mg/L	0.0002	0.000011	1	7470A	10/21/08 17:24	mcampbell	Q36341
Mercury									

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

# Laboratory Report

10/29/08

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Attn: Susan Kelly  
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Sample Matrix: Water

Client Sample ID: MW-3  
Prism Sample ID: 228104  
COC Group: G1008550  
Time Collected: 10/15/08 13:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:						20 mL / 30 mL	7470A	10/20/08 10:25	mbarber P22830
<b>Metals by ICP</b>									
Antimony	BRL	mg/L	0.010	0.0023	1	6010B	10/22/08 23:17	mcampbell	Q36311
Arsenic	BRL	mg/L	0.010	0.0022	1	6010B	10/22/08 23:17	mcampbell	Q36311
Beryllium	BRL	mg/L	0.0020	0.00022	1	6010B	10/22/08 23:17	mcampbell	Q36311
Cadmium	BRL	mg/L	0.0010	0.00017	1	6010B	10/22/08 23:17	mcampbell	Q36311
Chromium	BRL	mg/L	0.0050	0.00015	1	6010B	10/23/08 13:55	mcampbell	Q36311
Copper	0.0008 J	mg/L	0.010	0.00028	1	6010B	10/22/08 23:17	mcampbell	Q36311
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/22/08 23:17	mcampbell	Q36311
Manganese	12	mg/L	0.10	0.012	10	6010B	10/24/08 14:02	mcampbell	Q36311
Nickel	0.0093 J	mg/L	0.010	0.00042	1	6010B	10/22/08 23:17	mcampbell	Q36311
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/23/08 13:55	mcampbell	Q36311
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/22/08 23:17	mcampbell	Q36311
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 23:17	mcampbell	Q36311
Zinc	0.031	mg/L	0.030	0.0023	1	6010B	10/22/08 23:17	mcampbell	Q36311
Sample Preparation:						50 mL / 50 mL	3010A	10/20/08 7:30	mbarber P22827

## 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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# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-03  
Prism Sample ID: 228105  
COC Group: G1008550  
Time Collected: 10/13/08 18:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.15	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,1-Dichloroethane	BRL	µg/L	1.0	0.088	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,1-Dichloroethene	BRL	µg/L	1.0	0.095	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.24	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.22	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	1.3	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.14	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,2-Dichloropropane	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.19	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:27	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:27	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 13:27	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.41	1	8260B	10/20/08 13:27	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:27	Iwtry	Q36253
2-Hexanone	BRL	µg/L	5.0	0.23	1	8260B	10/20/08 13:27	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:27	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.46	1	8260B	10/20/08 13:27	Iwtry	Q36253
Acetone	BRL	µg/L	10	0.44	1	8260B	10/20/08 13:27	Iwtry	Q36253

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10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-03  
Prism Sample ID: 228105  
COC Group: G1008550  
Time Collected: 10/13/08 18:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	0.54	1	8260B	10/20/08 13:27	Iwtry	Q36253
Acrylonitrile	BRL	µg/L	100	0.43	1	8260B	10/20/08 13:27	Iwtry	Q36253
Benzene	BRL	µg/L	1.0	0.094	1	8260B	10/20/08 13:27	Iwtry	Q36253
Bromobenzene	BRL	µg/L	1.0	0.088	1	8260B	10/20/08 13:27	Iwtry	Q36253
Bromochloromethane	BRL	µg/L	1.0	0.085	1	8260B	10/20/08 13:27	Iwtry	Q36253
Bromodichloromethane	BRL	µg/L	1.0	0.15	1	8260B	10/20/08 13:27	Iwtry	Q36253
Bromoform	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:27	Iwtry	Q36253
Bromomethane	BRL	µg/L	3.0	0.23	1	8260B	10/20/08 13:27	Iwtry	Q36253
Carbon disulfide	BRL	µg/L	5.0	0.15	1	8260B	10/20/08 13:27	Iwtry	Q36253
Carbon tetrachloride	BRL	µg/L	2.0	0.15	1	8260B	10/20/08 13:27	Iwtry	Q36253
Chlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	10/20/08 13:27	Iwtry	Q36253
Chlorodibromomethane	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 13:27	Iwtry	Q36253
Chloroethane	BRL	µg/L	5.0	0.18	1	8260B	10/20/08 13:27	Iwtry	Q36253
Chloroform	BRL	µg/L	1.0	0.080	1	8260B	10/20/08 13:27	Iwtry	Q36253
Chloromethane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 13:27	Iwtry	Q36253
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.12	1	8260B	10/20/08 13:27	Iwtry	Q36253
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.097	1	8260B	10/20/08 13:27	Iwtry	Q36253
Dibromomethane	BRL	µg/L	1.0	0.14	1	8260B	10/20/08 13:27	Iwtry	Q36253
Dichlorodifluoromethane	BRL	µg/L	2.0	0.19	1	8260B	10/20/08 13:27	Iwtry	Q36253
Ethylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 13:27	Iwtry	Q36253
Hexachlorobutadiene	BRL	µg/L	2.0	0.17	1	8260B	10/20/08 13:27	Iwtry	Q36253
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.079	1	8260B	10/20/08 13:27	Iwtry	Q36253
Isopropylbenzene	BRL	µg/L	1.0	0.20	1	8260B	10/20/08 13:27	Iwtry	Q36253
m,p-Xylenes	BRL	µg/L	2.0	0.33	1	8260B	10/20/08 13:27	Iwtry	Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.36	1	8260B	10/20/08 13:27	Iwtry	Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.093	1	8260B	10/20/08 13:27	Iwtry	Q36253
Methylene chloride	BRL	µg/L	2.0	0.16	1	8260B	10/20/08 13:27	Iwtry	Q36253

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NC Certification No. 402  
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# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-03  
Prism Sample ID: 228105  
COC Group: G1008550  
Time Collected: 10/13/08 18:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.21	1	8260B	10/20/08 13:27	Iwtry	Q36253
n-Propylbenzene	BRL	µg/L	1.0	0.18	1	8260B	10/20/08 13:27	Iwtry	Q36253
Naphthalene	BRL	µg/L	1.0	0.19	1	8260B	10/20/08 13:27	Iwtry	Q36253
o-Xylene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 13:27	Iwtry	Q36253
p-Isopropyltoluene	BRL	µg/L	1.0	0.21	1	8260B	10/20/08 13:27	Iwtry	Q36253
sec-Butylbenzene	BRL	µg/L	1.0	0.16	1	8260B	10/20/08 13:27	Iwtry	Q36253
Styrene	BRL	µg/L	1.0	0.11	1	8260B	10/20/08 13:27	Iwtry	Q36253
tert-Butylbenzene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 13:27	Iwtry	Q36253
Tetrachloroethene	BRL	µg/L	1.0	0.17	1	8260B	10/20/08 13:27	Iwtry	Q36253
Toluene	BRL	µg/L	1.0	0.31	1	8260B	10/20/08 13:27	Iwtry	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.12	1	8260B	10/20/08 13:27	Iwtry	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.22	1	8260B	10/20/08 13:27	Iwtry	Q36253
Trichloroethene	BRL	µg/L	2.0	0.19	1	8260B	10/20/08 13:27	Iwtry	Q36253
Trichlorofluoromethane	BRL	µg/L	2.0	0.21	1	8260B	10/20/08 13:27	Iwtry	Q36253
Vinyl acetate	BRL	µg/L	20	0.44	1	8260B	10/20/08 13:27	Iwtry	Q36253
Vinyl chloride	BRL	µg/L	2.0	0.23	1	8260B	10/20/08 13:27	Iwtry	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	87	75 - 121
Dibromofluoromethane	94	74 - 133
Bromofluorobenzene	113	69 - 139

TIC's By 8260  
No TICs were detected.

Est.Conc      Units

Semi-volatile Organics by GC/MS	Result	Units	Est.Conc	Units	Analyst	Date/Time	Batch ID		
1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 3:28	kcampigotto	Q36339
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 3:28	kcampigotto	Q36339

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Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-03  
Prism Sample ID: 228105  
COC Group: G1008550  
Time Collected: 10/13/08 18:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 3:28	kcampigotto	Q36339
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 3:28	kcampigotto	Q36339
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 3:28	kcampigotto	Q36339
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 3:28	kcampigotto	Q36339
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/23/08 3:28	kcampigotto	Q36339
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 3:28	kcampigotto	Q36339
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 3:28	kcampigotto	Q36339
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 3:28	kcampigotto	Q36339
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 3:28	kcampigotto	Q36339
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 3:28	kcampigotto	Q36339

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Sample Matrix: Water

Client Sample ID: EB-03  
Prism Sample ID: 228105  
COC Group: G1008550  
Time Collected: 10/13/08 18:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 3:28	kcampigotto	Q36339
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 3:28	kcampigotto	Q36339
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 3:28	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-03  
Prism Sample ID: 228105  
COC Group: G1008550  
Time Collected: 10/13/08 18:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/23/08 3:28	kcampigotto	Q36339
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 3:28	kcampigotto	Q36339

Surrogate recovery was outside of the control limits. Matrix interference is suspected. Severe emulsions were noted during sample extraction.

Sample Preparation: 1030 mL / 1 mL 3510C 10/17/08 9:00 smanivanh P22822

Surrogate	% Recovery	Control Limits
Terphenyl-d14	97	41 - 136
Phenol-d5	10 #	10 - 78
Nitrobenzene-d5	61	13 - 107
2-Fluorophenol	18	10 - 75
2-Fluorobiphenyl	70	27 - 107
2,4,6-Tribromophenol	81	38 - 117

TIC's By 8270	Est.Conc	Units
No TICs were detected.		

#### Cyanide by Colorimetric Method

Cyanide, Total BRL mg/L 0.0050 0.0026 1 9014 10/27/08 16:28 heaster Q36460

Sample Preparation: 50 mL / 50 mL 9010 10/24/08 10:31 heaster P22887

#### Mercury by CVAA

Mercury BRL mg/L 0.0002 0.000011 1 7470A 10/21/08 17:27 mcampbell Q36341

Sample Preparation: 20 mL / 30 mL 7470A 10/20/08 10:25 mbarber P22830

#### Metals by ICP

Antimony BRL mg/L 0.010 0.0023 1 6010B 10/22/08 23:23 mcampbell Q36311

Arsenic BRL mg/L 0.010 0.0022 1 6010B 10/22/08 23:23 mcampbell Q36311

Beryllium BRL mg/L 0.0020 0.00022 1 6010B 10/22/08 23:23 mcampbell Q36311

Cadmium 0.0002 J mg/L 0.0010 0.00017 1 6010B 10/22/08 23:23 mcampbell Q36311

Chromium 0.0011 J mg/L 0.0050 0.00015 1 6010B 10/23/08 14:02 mcampbell Q36311

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: EB-03  
Prism Sample ID: 228105  
COC Group: G1008550  
Time Collected: 10/13/08 18:00  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Copper	BRL	mg/L	0.010	0.00028	1	6010B	10/22/08 23:23	mcampbell	Q36311
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/22/08 23:23	mcampbell	Q36311
Manganese	0.0035 J	mg/L	0.010	0.0012	1	6010B	10/22/08 23:23	mcampbell	Q36311
Nickel	0.0014 J	mg/L	0.010	0.00042	1	6010B	10/22/08 23:23	mcampbell	Q36311
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/23/08 14:02	mcampbell	Q36311
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/22/08 23:23	mcampbell	Q36311
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 23:23	mcampbell	Q36311
Zinc	0.0090 J	mg/L	0.030	0.0023	1	6010B	10/22/08 23:23	mcampbell	Q36311
Sample Preparation:				50 mL /	50 mL	3010A	10/20/08 7:30	mbarber	P22827

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-2  
Prism Sample ID: 228106  
COC Group: G1008550  
Time Collected: 10/14/08 10:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Volatile Organic Compounds by GC/MS</b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	20	2.0	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,1,1-Trichloroethane	47	µg/L	20	4.0	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,1,2,2-Tetrachloroethane	BRL	µg/L	20	2.3	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,1,2-Trichloroethane	BRL	µg/L	20	3.1	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,1-Dichloroethane	BRL	µg/L	20	1.8	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,1-Dichloroethene	BRL	µg/L	20	1.9	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,1-Dichloropropene	BRL	µg/L	20	3.9	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,2,3-Trichlorobenzene	BRL	µg/L	40	4.8	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,2,3-Trichloropropane	BRL	µg/L	20	3.3	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,2,4-Trichlorobenzene	BRL	µg/L	20	4.4	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,2,4-Trimethylbenzene	BRL	µg/L	20	3.1	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,2-Dibromo-3-chloropropane	BRL	µg/L	40	26	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,2-Dibromoethane (EDB)	BRL	µg/L	20	2.8	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,2-Dichlorobenzene	BRL	µg/L	20	2.1	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,2-Dichloroethane	BRL	µg/L	20	2.5	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,2-Dichloropropane	BRL	µg/L	20	3.4	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,3,5-Trimethylbenzene	BRL	µg/L	20	3.8	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,3-Dichlorobenzene	BRL	µg/L	20	2.3	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,3-Dichloropropane	BRL	µg/L	20	2.4	20	8260B	10/20/08 19:30	Iwtry	Q36253
1,4-Dichlorobenzene	BRL	µg/L	20	2.0	20	8260B	10/20/08 19:30	Iwtry	Q36253
2,2-Dichloropropane	BRL	µg/L	40	4.2	20	8260B	10/20/08 19:30	Iwtry	Q36253
2-Chloroethyl vinyl ether	BRL	µg/L	40	8.2	20	8260B	10/20/08 19:30	Iwtry	Q36253
2-Chlorotoluene	BRL	µg/L	20	2.4	20	8260B	10/20/08 19:30	Iwtry	Q36253
2-Hexanone	BRL	µg/L	100	4.6	20	8260B	10/20/08 19:30	Iwtry	Q36253
4-Chlorotoluene	BRL	µg/L	20	2.1	20	8260B	10/20/08 19:30	Iwtry	Q36253
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	100	9.2	20	8260B	10/20/08 19:30	Iwtry	Q36253
Acetone	BRL	µg/L	200	8.8	20	8260B	10/20/08 19:30	Iwtry	Q36253

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-2  
Prism Sample ID: 228106  
COC Group: G1008550  
Time Collected: 10/14/08 10:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	2000	11	20	8260B	10/20/08 19:30	Iwtry	Q36253
Acrylonitrile	BRL	µg/L	2000	8.6	20	8260B	10/20/08 19:30	Iwtry	Q36253
Benzene	BRL	µg/L	20	1.9	20	8260B	10/20/08 19:30	Iwtry	Q36253
Bromobenzene	BRL	µg/L	20	1.8	20	8260B	10/20/08 19:30	Iwtry	Q36253
Bromoform	BRL	µg/L	20	1.7	20	8260B	10/20/08 19:30	Iwtry	Q36253
Bromodichloromethane	BRL	µg/L	20	3.0	20	8260B	10/20/08 19:30	Iwtry	Q36253
Bromomethane	BRL	µg/L	60	4.5	20	8260B	10/20/08 19:30	Iwtry	Q36253
Carbon disulfide	BRL	µg/L	100	3.0	20	8260B	10/20/08 19:30	Iwtry	Q36253
Carbon tetrachloride	BRL	µg/L	40	3.0	20	8260B	10/20/08 19:30	Iwtry	Q36253
Chlorobenzene	BRL	µg/L	20	2.0	20	8260B	10/20/08 19:30	Iwtry	Q36253
Chlorodibromomethane	BRL	µg/L	20	4.1	20	8260B	10/20/08 19:30	Iwtry	Q36253
Chloroethane	BRL	µg/L	100	3.7	20	8260B	10/20/08 19:30	Iwtry	Q36253
Chloroform	BRL	µg/L	20	1.6	20	8260B	10/20/08 19:30	Iwtry	Q36253
Chloromethane	BRL	µg/L	40	4.3	20	8260B	10/20/08 19:30	Iwtry	Q36253
cis-1,2-Dichloroethene	BRL	µg/L	20	2.4	20	8260B	10/20/08 19:30	Iwtry	Q36253
cis-1,3-Dichloropropene	BRL	µg/L	20	1.9	20	8260B	10/20/08 19:30	Iwtry	Q36253
Dibromomethane	BRL	µg/L	20	2.7	20	8260B	10/20/08 19:30	Iwtry	Q36253
Dichlorodifluoromethane	BRL	µg/L	40	3.9	20	8260B	10/20/08 19:30	Iwtry	Q36253
Ethylbenzene	BRL	µg/L	20	3.2	20	8260B	10/20/08 19:30	Iwtry	Q36253
Hexachlorobutadiene	BRL	µg/L	40	3.4	20	8260B	10/20/08 19:30	Iwtry	Q36253
Isopropyl ether (IPE)	BRL	µg/L	20	1.6	20	8260B	10/20/08 19:30	Iwtry	Q36253
Isopropylbenzene	BRL	µg/L	20	3.9	20	8260B	10/20/08 19:30	Iwtry	Q36253
m,p-Xylenes	BRL	µg/L	40	6.7	20	8260B	10/20/08 19:30	Iwtry	Q36253
Methyl ethyl ketone (MEK)	BRL	µg/L	100	7.1	20	8260B	10/20/08 19:30	Iwtry	Q36253
Methyl t-butyl ether (MTBE)	BRL	µg/L	20	1.9	20	8260B	10/20/08 19:30	Iwtry	Q36253
Methylene chloride	BRL	µg/L	40	3.1	20	8260B	10/20/08 19:30	Iwtry	Q36253

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

## Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-2  
Prism Sample ID: 228106  
COC Group: G1008550  
Time Collected: 10/14/08 10:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	20	4.3	20	8260B	10/20/08 19:30	Iwtry	Q36253
n-Propylbenzene	BRL	µg/L	20	3.6	20	8260B	10/20/08 19:30	Iwtry	Q36253
Naphthalene	BRL	µg/L	20	3.9	20	8260B	10/20/08 19:30	Iwtry	Q36253
o-Xylene	BRL	µg/L	20	3.4	20	8260B	10/20/08 19:30	Iwtry	Q36253
p-Isopropyltoluene	BRL	µg/L	20	4.2	20	8260B	10/20/08 19:30	Iwtry	Q36253
sec-Butylbenzene	BRL	µg/L	20	3.3	20	8260B	10/20/08 19:30	Iwtry	Q36253
Styrene	BRL	µg/L	20	2.2	20	8260B	10/20/08 19:30	Iwtry	Q36253
tert-Butylbenzene	BRL	µg/L	20	3.5	20	8260B	10/20/08 19:30	Iwtry	Q36253
Tetrachloroethene	BRL	µg/L	20	3.4	20	8260B	10/20/08 19:30	Iwtry	Q36253
Toluene	BRL	µg/L	20	6.2	20	8260B	10/20/08 19:30	Iwtry	Q36253
trans-1,2-Dichloroethene	BRL	µg/L	40	2.4	20	8260B	10/20/08 19:30	Iwtry	Q36253
trans-1,3-Dichloropropene	BRL	µg/L	20	4.5	20	8260B	10/20/08 19:30	Iwtry	Q36253
Trichloroethene	7200	µg/L	400	37	200	8260B	10/21/08 15:06	Iwtry	Q36253
Trichlorofluoromethane	BRL	µg/L	40	4.2	20	8260B	10/20/08 19:30	Iwtry	Q36253
Vinyl acetate	BRL	µg/L	400	8.8	20	8260B	10/20/08 19:30	Iwtry	Q36253
Vinyl chloride	BRL	µg/L	40	4.7	20	8260B	10/20/08 19:30	Iwtry	Q36253

Surrogate	% Recovery	Control Limits
Toluene-d8	117	75 - 121
Dibromofluoromethane	82	74 - 133
Bromofluorobenzene	96	69 - 139

TIC's By 8260	Est.Conc	Units
No TICs were detected.		

### Semi-volatile Organics by GC/MS

1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 3:59	kcampigotto	Q36339
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 3:59	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-2  
Prism Sample ID: 228106  
COC Group: G1008550  
Time Collected: 10/14/08 10:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,3-Dichlorobenzene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 3:59	kcampigotto	Q36339
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2,4-Dimethylphenol	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 3:59	kcampigotto	Q36339
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	10/23/08 3:59	kcampigotto	Q36339
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 3:59	kcampigotto	Q36339
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	10/23/08 3:59	kcampigotto	Q36339
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 3:59	kcampigotto	Q36339
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 3:59	kcampigotto	Q36339
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	10/23/08 3:59	kcampigotto	Q36339
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.6	1	8270C	10/23/08 3:59	kcampigotto	Q36339
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 3:59	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-2  
Prism Sample ID: 228106  
COC Group: G1008550  
Time Collected: 10/14/08 10:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(g,h,i)perylene	BRL	µg/L	9.7	1.1	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Di-n-octyiphthalate	BRL	µg/L	9.7	2.2	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	10/23/08 3:59	kcampigotto	Q36339
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	10/23/08 3:59	kcampigotto	Q36339
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	10/23/08 3:59	kcampigotto	Q36339

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-2  
Prism Sample ID: 228106  
COC Group: G1008550  
Time Collected: 10/14/08 10:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Phenanthrene	BRL	µg/L	9.7	0.98	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Phenol	BRL	µg/L	9.7	0.99	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	10/23/08 3:59	kcampigotto	Q36339
Surrogate recovery was outside of the control limits. Matrix interference is suspected.									
Sample Preparation: 1030 mL / 1 mL 3510C 10/17/08 9:00 smanivanh P22822									
Surrogate % Recovery Control Limits									
Terphenyl-d14 83 41 - 136									
Phenol-d5 9 # 10 - 78									
Nitrobenzene-d5 60 13 - 107									
2-Fluorophenol 19 10 - 75									
2-Fluorobiphenyl 69 27 - 107									
2,4,6-Tribromophenol 80 38 - 117									

## TIC's By 8270

No TICs were detected.

## Est.Conc Units

### Cyanide by Colorimetric Method

Cyanide, Total

BRL mg/L 0.0050 0.0026 1 9014 10/27/08 16:28 heasler Q36460

Sample Preparation:

50 mL / 50 mL 9010 10/24/08 10:31 heasler P22887

### Mercury by CVAA

Mercury

BRL mg/L 0.0002 0.000011 1 7470A 10/21/08 17:31 mcampbell Q36341

Sample Preparation:

20 mL / 30 mL 7470A 10/20/08 10:25 mbarber P22830

### Metals by ICP

Antimony

BRL mg/L 0.010 0.0023 1 6010B 10/22/08 23:28 mcampbell Q36311

Arsenic

BRL mg/L 0.010 0.0022 1 6010B 10/22/08 23:28 mcampbell Q36311

Beryllium

BRL mg/L 0.0020 0.00022 1 6010B 10/22/08 23:28 mcampbell Q36311

Cadmium

BRL mg/L 0.0010 0.00017 1 6010B 10/22/08 23:28 mcampbell Q36311

Chromium

0.0012 J mg/L 0.0050 0.00015 1 6010B 10/23/08 14:09 mcampbell Q36311

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

# Laboratory Report

10/29/08

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

Project ID: Mills Gap  
Sample Matrix: Water

Client Sample ID: MW-2  
Prism Sample ID: 228106  
COC Group: G1008550  
Time Collected: 10/14/08 10:30  
Time Submitted: 10/16/08 12:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Copper	0.037	mg/L	0.010	0.00028	1	6010B	10/22/08 23:28	mcampbell	Q36311
Lead	BRL	mg/L	0.0050	0.0014	1	6010B	10/22/08 23:28	mcampbell	Q36311
Manganese	0.40	mg/L	0.010	0.0012	1	6010B	10/22/08 23:28	mcampbell	Q36311
Nickel	0.0083 J	mg/L	0.010	0.00042	1	6010B	10/22/08 23:28	mcampbell	Q36311
Selenium	BRL	mg/L	0.020	0.0037	1	6010B	10/23/08 14:09	mcampbell	Q36311
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	10/22/08 23:28	mcampbell	Q36311
Thallium	BRL	mg/L	0.010	0.0014	1	6010B	10/22/08 23:28	mcampbell	Q36311
Zinc	0.015 J	mg/L	0.030	0.0023	1	6010B	10/22/08 23:28	mcampbell	Q36311
Sample Preparation:				50 mL /	50 mL	3010A	10/20/08 7:30	mbarber	P22827

## 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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NC Drinking Water Cert. No. 37735

## Level II QC Report

10/29/08

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

Project ID: Mills Gap

COC Group Number: G1008550  
Date/Time Submitted: 10/16/08 12:55

### 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	Q36253
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q36253
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q36253
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q36253
1,1-Dichloroethane	ND	1	<0.5	µg/L	Q36253
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q36253
1,1-Dichloropropene	ND	1	<0.5	µg/L	Q36253
1,2,3-Trichlorobenzene	ND	2	<1	µg/L	Q36253
1,2,3-Trichloropropane	ND	1	<0.5	µg/L	Q36253
1,2,4-Trichlorobenzene	ND	1	<0.5	µg/L	Q36253
1,2,4-Trimethylbenzene	ND	1	<0.5	µg/L	Q36253
1,2-Dibromo-3-chloropropane	ND	2	<1	µg/L	Q36253
1,2-Dibromoethane (EDB)	ND	1	<0.5	µg/L	Q36253
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q36253
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q36253
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q36253
1,3,5-Trimethylbenzene	ND	1	<0.5	µg/L	Q36253
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q36253
1,3-Dichloropropane	ND	1	<0.5	µg/L	Q36253
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q36253
2,2-Dichloropropane	ND	2	<1	µg/L	Q36253
2-Chloroethyl vinyl ether	ND	2	<1	µg/L	Q36253
2-Chlorotoluene	ND	1	<0.5	µg/L	Q36253
2-Hexanone	ND	5	<2.5	µg/L	Q36253
4-Chlorotoluene	ND	1	<0.5	µg/L	Q36253
4-Methyl-2-pentanone (MIBK)	ND	5	<2.5	µg/L	Q36253
Acetone	ND	10	<5	µg/L	Q36253
Acrolein	ND	100	<50	µg/L	Q36253
Acrylonitrile	ND	100	<50	µg/L	Q36253
Benzene	ND	1	<0.5	µg/L	Q36253
Bromobenzene	ND	1	<0.5	µg/L	Q36253
Bromochloromethane	ND	1	<0.5	µg/L	Q36253
Bromodichloromethane	ND	1	<0.5	µg/L	Q36253
Bromoform	ND	1	<0.5	µg/L	Q36253



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## Level II QC Report

10/29/08

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

Project ID: Mills Gap

COC Group Number: G1008550

Date/Time Submitted: 10/16/08 12:55

### Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Bromomethane	ND	3	<1.5	µg/L	Q36253
Carbon disulfide	ND	5	<2.5	µg/L	Q36253
Carbon tetrachloride	ND	2	<1	µg/L	Q36253
Chlorobenzene	ND	1	<0.5	µg/L	Q36253
Chlorodibromomethane	ND	1	<0.5	µg/L	Q36253
Chloroethane	ND	5	<2.5	µg/L	Q36253
Chloroform	ND	1	<0.5	µg/L	Q36253
Chloromethane	ND	2	<1	µg/L	Q36253
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q36253
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q36253
Dibromomethane	ND	1	<0.5	µg/L	Q36253
Dichlorodifluoromethane	ND	2	<1	µg/L	Q36253
Ethylbenzene	ND	1	<0.5	µg/L	Q36253
Hexachlorobutadiene	ND	2	<1	µg/L	Q36253
Isopropyl ether (IPE)	ND	1	<0.5	µg/L	Q36253
Isopropylbenzene	ND	1	<0.5	µg/L	Q36253
m,p-Xylenes	ND	2	<1	µg/L	Q36253
Methyl ethyl ketone (MEK)	ND	5	<2.5	µg/L	Q36253
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q36253
Methylene chloride	ND	2	<1	µg/L	Q36253
n-Butylbenzene	ND	1	<0.5	µg/L	Q36253
n-Propylbenzene	ND	1	<0.5	µg/L	Q36253
Naphthalene	ND	1	<0.5	µg/L	Q36253
o-Xylene	ND	1	<0.5	µg/L	Q36253
p-Isopropyltoluene	ND	1	<0.5	µg/L	Q36253
sec-Butylbenzene	ND	1	<0.5	µg/L	Q36253
Styrene	ND	1	<0.5	µg/L	Q36253
tert-Butylbenzene	ND	1	<0.5	µg/L	Q36253
Tetrachloroethene	ND	1	<0.5	µg/L	Q36253
Toluene	ND	1	<0.5	µg/L	Q36253
trans-1,2-Dichloroethene	ND	2	<1	µg/L	Q36253
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q36253
Trichloroethene	ND	2	<1	µg/L	Q36253
Trichlorofluoromethane	ND	2	<1	µg/L	Q36253
Vinyl acetate	ND	20	<10	µg/L	Q36253
Vinyl chloride	ND	2	<1	µg/L	Q36253

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NC Certification No. 402  
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## Level II QC Report

10/29/08

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

Project ID: Mills Gap

COC Group Number: G1008550

Date/Time Submitted: 10/16/08 12:55

Laboratory Control Sample		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
1,1-Dichloroethene		61.67	50	µg/L	123	62-141	Q36253		
Benzene		52.17	50	µg/L	104	70-141	Q36253		
Chlorobenzene		49.7	50	µg/L	99	88-120	Q36253		
Toluene		53.24	50	µg/L	106	78-130	Q36253		
Trichloroethylene		55.35	50	µg/L	111	78-124	Q36253		
Matrix Spike		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
228101 1,1-Dichloroethene		2322.4	2000	µg/L	116	54-140	Q36253		
Benzene		1996.8	2000	µg/L	100	62-129	Q36253		
Chlorobenzene		1882.8	2000	µg/L	94	64-127	Q36253		
Toluene		2007.2	2000	µg/L	100	60-131	Q36253		
Trichloroethylene		2077.2	2000	µg/L	104	52-128	Q36253		
Matrix Spike Duplicate		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
228101 1,1-Dichloroethene		2419.6	2000	µg/L	121	54-140	4	0 - 20	Q36253
Benzene		2118.8	2000	µg/L	106	62-129	6	0 - 19	Q36253
Chlorobenzene		2005.2	2000	µg/L	100	64-127	6	0 - 20	Q36253
Toluene		2126	2000	µg/L	106	60-131	6	0 - 21	Q36253
Trichloroethylene		2220.4	2000	µg/L	111	52-128	7	0 - 18	Q36253

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## Level II QC Report

10/29/08

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

Project ID: Mills Gap

COC Group Number: G1008550

Date/Time Submitted: 10/16/08 12:55

### Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Antimony	-0.0022	0.01	<0.005	mg/L	Q36311
Arsenic	0.0015	0.01	<0.005	mg/L	Q36311
Beryllium	-0.0001	0.002	<0.001	mg/L	Q36311
Cadmium	0.0001	0.001	<0.0005	mg/L	Q36311
Chromium	0.0005	0.005	<0.0025	mg/L	Q36311
Copper	-0.0005	0.01	<0.005	mg/L	Q36311
Lead	-0.0011	0.005	<0.0025	mg/L	Q36311
Manganese	-0.0001	0.01	<0.005	mg/L	Q36311
Nickel	0.0002	0.01	<0.005	mg/L	Q36311
Selenium	0.0018	0.02	<0.01	mg/L	Q36311
Silver	0.0001	0.005	<0.0025	mg/L	Q36311
Thallium	0.0011	0.01	<0.005	mg/L	Q36311
Zinc	0.0013	0.03	<0.015	mg/L	Q36311
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Antimony	0.2235	0.25	mg/L	89	80-120
Arsenic	0.2346	0.25	mg/L	94	80-120
Beryllium	0.2529	0.25	mg/L	101	80-120
Cadmium	0.2316	0.25	mg/L	93	80-120
Chromium	0.264	0.25	mg/L	106	80-120
Copper	0.2604	0.25	mg/L	104	80-120
Lead	0.2356	0.25	mg/L	94	80-120
Manganese	0.2527	0.25	mg/L	101	80-120
Nickel	0.2451	0.25	mg/L	98	80-120
Selenium	0.260	0.25	mg/L	104	80-120
Silver	0.2565	0.25	mg/L	103	80-120
Thallium	0.243	0.25	mg/L	97	80-120
Zinc	0.2279	0.25	mg/L	91	80-120
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %
Sample ID:					QC Batch ID
228103 Antimony	0.2345	0.25	mg/L	95	75-125
Arsenic	0.2474	0.25	mg/L	98	75-125
Beryllium	0.2652	0.25	mg/L	106	75-125
Cadmium	0.2383	0.25	mg/L	95	75-125

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## Level II QC Report

10/29/08

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

Project ID: Mills Gap

COC Group Number: G1008550

Date/Time Submitted: 10/16/08 12:55

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
228103 Chromium		0.288	0.25	mg/L	114	75-125	Q36311		
Copper		0.2672	0.25	mg/L	107	75-125	Q36311		
Lead		0.2421	0.25	mg/L	97	75-125	Q36311		
Manganese		1.6663	0.25	mg/L	122	75-125	Q36311		
Nickel		0.2483	0.25	mg/L	99	75-125	Q36311		
Selenium		0.277	0.25	mg/L	112	75-125	Q36311		
Silver		0.2666	0.25	mg/L	107	75-125	Q36311		
Thallium		0.2498	0.25	mg/L	101	75-125	Q36311		
Zinc		0.2481	0.25	mg/L	94	75-125	Q36311		
Matrix Spike Duplicate	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
228103 Antimony		0.2269	0.25	mg/L	92	75-125	3	0 - 20	Q36311
Arsenic		0.239	0.25	mg/L	95	75-125	3	0 - 20	Q36311
Beryllium		0.2587	0.25	mg/L	103	75-125	2	0 - 20	Q36311
Cadmium		0.2297	0.25	mg/L	92	75-125	4	0 - 20	Q36311
Chromium		0.274	0.25	mg/L	108	75-125	5	0 - 20	Q36311
Copper		0.2578	0.25	mg/L	103	75-125	4	0 - 20	Q36311
Lead		0.2339	0.25	mg/L	94	75-125	3	0 - 20	Q36311
Manganese		1.5989	0.25	mg/L	95	75-125	4	0 - 20	Q36311
Nickel		0.2399	0.25	mg/L	95	75-125	3	0 - 20	Q36311
Selenium		0.264	0.25	mg/L	107	75-125	5	0 - 20	Q36311
Silver		0.2572	0.25	mg/L	103	75-125	4	0 - 20	Q36311
Thallium		0.2406	0.25	mg/L	97	75-125	4	0 - 20	Q36311
Zinc		0.2393	0.25	mg/L	91	75-125	4	0 - 20	Q36311



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

## Level II QC Report

10/29/08

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

Project ID: Mills Gap

COC Group Number: G1008550

Date/Time Submitted: 10/16/08 12:55

### Semi-volatile Organics by GC/MS, method 8270C

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	10	<5	µg/L	Q36339
1,2-Dichlorobenzene	ND	10	<5	µg/L	Q36339
1,3-Dichlorobenzene	ND	10	<5	µg/L	Q36339
1,4-Dichlorobenzene	ND	10	<5	µg/L	Q36339
2,4,5-Trichlorophenol	ND	10	<5	µg/L	Q36339
2,4,6-Trichlorophenol	ND	10	<5	µg/L	Q36339
2,4-Dichlorophenol	ND	10	<5	µg/L	Q36339
2,4-Dimethylphenol	ND	10	<5	µg/L	Q36339
2,4-Dinitrophenol	ND	10	<5	µg/L	Q36339
2,4-Dinitrotoluene	ND	10	<5	µg/L	Q36339
2,6-Dinitrotoluene	ND	10	<5	µg/L	Q36339
2-Chloronaphthalene	ND	10	<5	µg/L	Q36339
2-Chlorophenol	ND	10	<5	µg/L	Q36339
2-Methylnaphthalene	ND	10	<5	µg/L	Q36339
2-Methylphenol	ND	10	<5	µg/L	Q36339
2-Nitroaniline	ND	10	<5	µg/L	Q36339
2-Nitrophenol	ND	10	<5	µg/L	Q36339
3&4-Methyphenol	ND	10	<5	µg/L	Q36339
3,3'-Dichlorobenzidine	ND	10	<5	µg/L	Q36339
3-Nitroaniline	ND	10	<5	µg/L	Q36339
4,6-Dinitro-2-methylphenol	ND	10	<5	µg/L	Q36339
4-Bromophenylphenylether	ND	10	<5	µg/L	Q36339
4-Chloro-3-methylphenol	ND	10	<5	µg/L	Q36339
4-Chloroaniline	ND	10	<5	µg/L	Q36339
4-Chlorophenylphenylether	ND	10	<5	µg/L	Q36339
4-Nitroaniline	ND	10	<5	µg/L	Q36339
4-Nitrophenol	ND	10	<5	µg/L	Q36339
Acenaphthene	ND	10	<5	µg/L	Q36339
Acenaphthylene	ND	10	<5	µg/L	Q36339
Aniline	ND	10	<5	µg/L	Q36339
Anthracene	ND	10	<5	µg/L	Q36339
Azobenzene	ND	10	<5	µg/L	Q36339
Benzidine	ND	100	<50	µg/L	Q36339
Benzo(a)anthracene	ND	10	<5	µg/L	Q36339

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## Level II QC Report

10/29/08

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

Project ID: Mills Gap

COC Group Number: G1008550

Date/Time Submitted: 10/16/08 12:55

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Benzo(a)pyrene	ND	10	<5	µg/L	Q36339
Benzo(b)fluoranthene	ND	10	<5	µg/L	Q36339
Benzo(g,h,i)perylene	ND	10	<5	µg/L	Q36339
Benzo(k)fluoranthene	ND	10	<5	µg/L	Q36339
Benzoic acid	ND	100	<50	µg/L	Q36339
Benzyl alcohol	ND	10	<5	µg/L	Q36339
Bis(2-chloroethoxy)methane	ND	10	<5	µg/L	Q36339
Bis(2-chloroethyl)ether	ND	10	<5	µg/L	Q36339
Bis(2-chloroisopropyl)ether	ND	10	<5	µg/L	Q36339
Bis(2-ethylhexyl)phthalate	ND	10	<5	µg/L	Q36339
Butylbenzylphthalate	ND	10	<5	µg/L	Q36339
Chrysene	ND	10	<5	µg/L	Q36339
Di-n-butylphthalate	ND	10	<5	µg/L	Q36339
Di-n-octylphthalate	ND	10	<5	µg/L	Q36339
Dibenzo(a,h)anthracene	ND	10	<5	µg/L	Q36339
Dibenzofuran	ND	10	<5	µg/L	Q36339
Diethylphthalate	ND	10	<5	µg/L	Q36339
Dimethylphthalate	ND	10	<5	µg/L	Q36339
Fluoranthene	ND	10	<5	µg/L	Q36339
Fluorene	ND	10	<5	µg/L	Q36339
Hexachlorobenzene	ND	10	<5	µg/L	Q36339
Hexachlorobutadiene	ND	10	<5	µg/L	Q36339
Hexachlorocyclopentadiene	ND	10	<5	µg/L	Q36339
Hexachloroethane	ND	10	<5	µg/L	Q36339
Indeno(1,2,3-cd)pyrene	ND	10	<5	µg/L	Q36339
Isophorone	ND	10	<5	µg/L	Q36339
N-Nitrosodi-n-propylamine	ND	10	<5	µg/L	Q36339
N-Nitrosodimethylamine	ND	10	<5	µg/L	Q36339
N-Nitrosodiphenylamine	ND	10	<5	µg/L	Q36339
Naphthalene	ND	10	<5	µg/L	Q36339
Nitrobenzene	ND	10	<5	µg/L	Q36339
Pentachlorophenol	ND	10	<5	µg/L	Q36339
Phenanthrene	ND	10	<5	µg/L	Q36339
Phenol	ND	10	<5	µg/L	Q36339
Pyrene	ND	10	<5	µg/L	Q36339
Pyridine	ND	10	<5	µg/L	Q36339

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## Level II QC Report

10/29/08

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

Project ID: Mills Gap

COC Group Number: G1008550

Date/Time Submitted: 10/16/08 12:55

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
1,2,4-Trichlorobenzene	41.5	50	µg/L	83	26-96	Q36339		
1,4-Dichlorobenzene	39.02	50	µg/L	78	19-95	Q36339		
2,4-Dinitrotoluene	53.47	50	µg/L	107	47-122	Q36339		
2-Chlorophenol	29.71	50	µg/L	59	20-95	Q36339		
4-Chloro-3-methylphenol	36.24	50	µg/L	72	36-104	Q36339		
4-Nitrophenol	31.31	50	µg/L	63	10-117	Q36339		
Acenaphthene	43.72	50	µg/L	87	36-109	Q36339		
N-Nitrosodi-n-propylamine	39.93	50	µg/L	80	31-100	Q36339		
Pentachlorophenol	48.79	50	µg/L	98	48-124	Q36339		
Phenol	8.07	50	µg/L	16	10-99	Q36339		
Pyrene	63.83	50	µg/L	128 #	55-120	Q36339		
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
228103 1,2,4-Trichlorobenzene	80.8431	98.039	µg/L	82	21-105	Q36339		
1,4-Dichlorobenzene	75.9019	98.039	µg/L	77	19-99	Q36339		
2,4-Dinitrotoluene	101.039	98.039	µg/L	103	48-126	Q36339		
2-Chlorophenol	67.5098	98.039	µg/L	69	19-104	Q36339		
4-Chloro-3-methylphenol	81.4901	98.039	µg/L	83	35-115	Q36339		
4-Nitrophenol	27.6274	98.039	µg/L	28	10-116	Q36339		
Acenaphthene	93.8431	98.039	µg/L	96	35-112	Q36339		
N-Nitrosodi-n-propylamine	79.1176	98.039	µg/L	81	27-105	Q36339		
Pentachlorophenol	105.333	98.039	µg/L	107	62-119	Q36339		
Phenol	27.9019	98.039	µg/L	28	10-93	Q36339		
Pyrene	119.137	98.039	µg/L	122	52-127	Q36339		
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
228103 1,2,4-Trichlorobenzene	75.5294	98.039	µg/L	77	21-105	7	0 - 36	Q36339
1,4-Dichlorobenzene	76.8235	98.039	µg/L	78	19-99	1	0 - 36	Q36339
2,4-Dinitrotoluene	91.9411	98.039	µg/L	94	48-126	9	0 - 29	Q36339
2-Chlorophenol	64.7058	98.039	µg/L	66	19-104	4	0 - 35	Q36339
4-Chloro-3-methylphenol	77.5490	98.039	µg/L	79	35-115	5	0 - 33	Q36339
4-Nitrophenol	24.2549	98.039	µg/L	25	10-116	13	0 - 50	Q36339
Acenaphthene	92.4117	98.039	µg/L	94	35-112	2	0 - 20	Q36339
N-Nitrosodi-n-propylamine	75.2549	98.039	µg/L	77	27-105	5	0 - 36	Q36339
Pentachlorophenol	102.823	98.039	µg/L	105	62-119	2	0 - 21	Q36339
Phenol	25.6078	98.039	µg/L	26	10-93	9	0 - 39	Q36339

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NC Certification No. 402  
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## Level II QC Report

10/29/08

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

Project ID: Mills Gap

COC Group Number: G1008550

Date/Time Submitted: 10/16/08 12:55

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
228103 Pyrene	97.4117	98.039	µg/L	99	52-127	20	# 0 - 15	Q36339

### Mercury by CVAA, method 7470A

Method Blank	Result	RL	Control Limit	Units	QC Batch ID			
Mercury	-0.00010	0.0002	<0.0001	mg/L	Q36341			
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Mercury	0.00903	0.0093	mg/L	96	80-120	Q36341		
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
228103 Mercury	0.00727	0.0093	mg/L	79 #	80-120	Q36341		
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
228103 Mercury	0.00864	0.0093	mg/L	93	80-120	17	0 - 20	Q36341

### Cyanide by Colorimetric Method, method 9014

Method Blank	Result	RL	Control Limit	Units	QC Batch ID			
Cyanide, Total	0.0015	0.005	<0.0025	mg/L	Q36406			
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Cyanide, Total	0.1050	0.1	mg/L	105	80-120	Q36406		
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
228100 Cyanide, Total	0.1101	0.11	mg/L	98	80-120	Q36406		
Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
228100 Cyanide, Total	0.1081	0.11	mg/L	96	80-120	2	0 - 20	Q36406



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1308 Patton Avenue  
Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G1008550

Date/Time Submitted: 10/16/08 12:55

### Cyanide by Colorimetric Method, method 9014

Method Blank						QC Batch ID
	Result	RL	Control Limit	Units		
Cyanide, Total	0.0013	0.005	<0.0025	mg/L		Q36460
Laboratory Control Sample						
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %
Cyanide, Total	0.0998	0.1		mg/L	100	80-120
Matrix Spike						
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %
228103 Cyanide, Total	0.1180	0.11		mg/L	103	80-120
Matrix Spike Duplicate						
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %
228103 Cyanide, Total	0.1231	0.11		mg/L	108	80-120
#-See Case Narrative					4	0 - 20



