

**PRISM**  
LABORATORIES, INC.

## Case Narrative

**Date:** 03/10/09  
**Company:** MACTEC Eng. & Consulting, Inc  
**Contact:** Susan Kelly  
**Address:** 1308 Patton Avenue  
 Asheville, NC 28806

**Client Project ID:** Mills Gap  
**Prism COC Group No:** G0209635  
**Collection Date(s):** 02/23/09  
**Lab Submittal Date(s):** 02/24/09

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 28 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**

No Anomalies Reported

**Wet Lab and Micro Analysis**

Analysis Note for Q39718 LCS Cyanide, Total: No MS/MSD with this batch.

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

**Data Reviewed by:** Steven H. Guptill

**Project Manager:** Steven H. Guptill

**Signature:** *Steven H. Guptill*

**Signature:** *Steven H. Guptill*

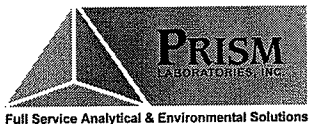
**Review Date:** 03/10/09

**Approval Date:** 03/10/09

**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.



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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: MW-1B  
 Prism Sample ID: 238829  
 COC Group: G0209635  
 Time Collected: 02/23/09 13:45  
 Time Submitted: 02/24/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b><u>Volatile Organic Compounds by GC/MS</u></b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.087	1	8260B	03/01/09 10:49	Iwity	Q39572
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.053	1	8260B	03/01/09 10:49	Iwity	Q39572
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.071	1	8260B	03/01/09 10:49	Iwity	Q39572
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.092	1	8260B	03/01/09 10:49	Iwity	Q39572
1,1-Dichloroethane	BRL	µg/L	1.0	0.053	1	8260B	03/01/09 10:49	Iwity	Q39572
1,1-Dichloroethene	BRL	µg/L	1.0	0.046	1	8260B	03/01/09 10:49	Iwity	Q39572
1,1-Dichloropropene	BRL	µg/L	1.0	0.089	1	8260B	03/01/09 10:49	Iwity	Q39572
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.23	1	8260B	03/01/09 10:49	Iwity	Q39572
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.15	1	8260B	03/01/09 10:49	Iwity	Q39572
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.28	1	8260B	03/01/09 10:49	Iwity	Q39572
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.14	1	8260B	03/01/09 10:49	Iwity	Q39572
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.37	1	8260B	03/01/09 10:49	Iwity	Q39572
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.11	1	8260B	03/01/09 10:49	Iwity	Q39572
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.094	1	8260B	03/01/09 10:49	Iwity	Q39572
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	03/01/09 10:49	Iwity	Q39572
1,2-Dichloropropane	BRL	µg/L	1.0	0.081	1	8260B	03/01/09 10:49	Iwity	Q39572
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.081	1	8260B	03/01/09 10:49	Iwity	Q39572
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	03/01/09 10:49	Iwity	Q39572
1,3-Dichloropropane	BRL	µg/L	1.0	0.062	1	8260B	03/01/09 10:49	Iwity	Q39572
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.092	1	8260B	03/01/09 10:49	Iwity	Q39572
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	03/01/09 10:49	Iwity	Q39572
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.37	1	8260B	03/01/09 10:49	Iwity	Q39572
2-Chlorotoluene	BRL	µg/L	1.0	0.090	1	8260B	03/01/09 10:49	Iwity	Q39572
2-Hexanone	BRL	µg/L	5.0	0.20	1	8260B	03/01/09 10:49	Iwity	Q39572
4-Chlorotoluene	BRL	µg/L	1.0	0.13	1	8260B	03/01/09 10:49	Iwity	Q39572
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.93	1	8260B	03/01/09 10:49	Iwity	Q39572
Acetone	BRL	µg/L	10	1.0	1	8260B	03/01/09 10:49	Iwity	Q39572

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: MW-1B  
 Prism Sample ID: 238829  
 COC Group: G0209635  
 Time Collected: 02/23/09 13:45  
 Time Submitted: 02/24/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	1.4	1	8260B	03/01/09 10:49	Iwityr	Q39572
Acrylonitrile	BRL	µg/L	100	1.4	1	8260B	03/01/09 10:49	Iwityr	Q39572
Benzene	BRL	µg/L	1.0	0.044	1	8260B	03/01/09 10:49	Iwityr	Q39572
Bromobenzene	BRL	µg/L	1.0	0.098	1	8260B	03/01/09 10:49	Iwityr	Q39572
Bromochloromethane	BRL	µg/L	1.0	0.14	1	8260B	03/01/09 10:49	Iwityr	Q39572
Bromodichloromethane	BRL	µg/L	1.0	0.076	1	8260B	03/01/09 10:49	Iwityr	Q39572
Bromoform	BRL	µg/L	1.0	0.039	1	8260B	03/01/09 10:49	Iwityr	Q39572
Bromomethane	BRL	µg/L	3.0	0.27	1	8260B	03/01/09 10:49	Iwityr	Q39572
Carbon disulfide	BRL	µg/L	5.0	0.37	1	8260B	03/01/09 10:49	Iwityr	Q39572
Carbon tetrachloride	BRL	µg/L	2.0	0.11	1	8260B	03/01/09 10:49	Iwityr	Q39572
Chlorobenzene	BRL	µg/L	1.0	0.050	1	8260B	03/01/09 10:49	Iwityr	Q39572
Chlorodibromomethane	BRL	µg/L	1.0	0.070	1	8260B	03/01/09 10:49	Iwityr	Q39572
Chloroethane	BRL	µg/L	5.0	0.22	1	8260B	03/01/09 10:49	Iwityr	Q39572
Chloroform	BRL	µg/L	1.0	0.049	1	8260B	03/01/09 10:49	Iwityr	Q39572
Chloromethane	BRL	µg/L	2.0	0.30	1	8260B	03/01/09 10:49	Iwityr	Q39572
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.054	1	8260B	03/01/09 10:49	Iwityr	Q39572
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.070	1	8260B	03/01/09 10:49	Iwityr	Q39572
Dibromomethane	BRL	µg/L	1.0	0.21	1	8260B	03/01/09 10:49	Iwityr	Q39572
Dichlorodifluoromethane	BRL	µg/L	2.0	0.30	1	8260B	03/01/09 10:49	Iwityr	Q39572
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	03/01/09 10:49	Iwityr	Q39572
Hexachlorobutadiene	BRL	µg/L	2.0	0.30	1	8260B	03/01/09 10:49	Iwityr	Q39572
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.076	1	8260B	03/01/09 10:49	Iwityr	Q39572
Isopropylbenzene	BRL	µg/L	1.0	0.10	1	8260B	03/01/09 10:49	Iwityr	Q39572
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	03/01/09 10:49	Iwityr	Q39572
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.95	1	8260B	03/01/09 10:49	Iwityr	Q39572
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	03/01/09 10:49	Iwityr	Q39572
Methylene chloride	BRL	µg/L	2.0	0.081	1	8260B	03/01/09 10:49	Iwityr	Q39572

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: MW-1B  
 Prism Sample ID: 238829  
 COC Group: G0209635  
 Time Collected: 02/23/09 13:45  
 Time Submitted: 02/24/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.24	1	8260B	03/01/09 10:49	lwitry	Q39572
n-Propylbenzene	BRL	µg/L	1.0	0.087	1	8260B	03/01/09 10:49	lwitry	Q39572
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	03/01/09 10:49	lwitry	Q39572
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	03/01/09 10:49	lwitry	Q39572
p-Isopropyltoluene	BRL	µg/L	1.0	0.14	1	8260B	03/01/09 10:49	lwitry	Q39572
sec-Butylbenzene	BRL	µg/L	1.0	0.12	1	8260B	03/01/09 10:49	lwitry	Q39572
Styrene	BRL	µg/L	1.0	0.051	1	8260B	03/01/09 10:49	lwitry	Q39572
tert-Butylbenzene	BRL	µg/L	1.0	0.074	1	8260B	03/01/09 10:49	lwitry	Q39572
Tetrachloroethene	BRL	µg/L	1.0	0.12	1	8260B	03/01/09 10:49	lwitry	Q39572
Toluene	BRL	µg/L	1.0	0.064	1	8260B	03/01/09 10:49	lwitry	Q39572
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.066	1	8260B	03/01/09 10:49	lwitry	Q39572
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.17	1	8260B	03/01/09 10:49	lwitry	Q39572
Trichloroethene	BRL	µg/L	2.0	0.073	1	8260B	03/01/09 10:49	lwitry	Q39572
Trichlorofluoromethane	BRL	µg/L	2.0	0.31	1	8260B	03/01/09 10:49	lwitry	Q39572
Vinyl acetate	BRL	µg/L	20	1.8	1	8260B	03/01/09 10:49	lwitry	Q39572
Vinyl chloride	BRL	µg/L	2.0	0.28	1	8260B	03/01/09 10:49	lwitry	Q39572

Surrogate	% Recovery	Control Limits
Toluene-d8	108	75 - 121
Dibromofluoromethane	103	74 - 133
Bromofluorobenzene	108	69 - 139

**TIC's By 8260**

Est.Conc Units

No TICs were detected.

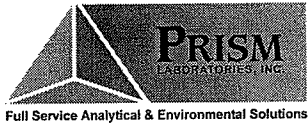
**Semi-volatile Organics by GC/MS**

1,2,4-Trichlorobenzene	BRL	µg/L	9.7	2.6	1	8270C	03/02/09 22:41	kcampigotto	Q39573
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	03/02/09 22:41	kcampigotto	Q39573

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Project ID: Mills Gap  
 Sample Matrix: Water

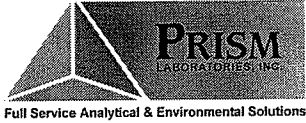
Client Sample ID: MW-1B  
 Prism Sample ID: 238829  
 COC Group: G0209635  
 Time Collected: 02/23/09 13:45  
 Time Submitted: 02/24/09 13:30

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	03/02/09 22:41	kcampigotto	Q39573
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	03/02/09 22:41	kcampigotto	Q39573
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	03/02/09 22:41	kcampigotto	Q39573
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	03/02/09 22:41	kcampigotto	Q39573
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	03/02/09 22:41	kcampigotto	Q39573
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	03/02/09 22:41	kcampigotto	Q39573
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	03/02/09 22:41	kcampigotto	Q39573
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	03/02/09 22:41	kcampigotto	Q39573
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	03/02/09 22:41	kcampigotto	Q39573
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	03/02/09 22:41	kcampigotto	Q39573

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 Time Submitted: 02/24/09 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	03/02/09 22:41	kcampigotto	Q39573
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	03/02/09 22:41	kcampigotto	Q39573
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	03/02/09 22:41	kcampigotto	Q39573
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	03/02/09 22:41	kcampigotto	Q39573

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: MW-1B  
 Prism Sample ID: 238829  
 COC Group: G0209635  
 Time Collected: 02/23/09 13:45  
 Time Submitted: 02/24/09 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	03/02/09 22:41	kcampigotto	Q39573
Phenol	BRL	µg/L	9.7	0.99	1	8270C	03/02/09 22:41	kcampigotto	Q39573
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	03/02/09 22:41	kcampigotto	Q39573

Sample Preparation: 1030 mL / 1 mL 3510C 02/27/09 8:00 smanivanh P23881

Surrogate	% Recovery	Control Limits
Terphenyl-d14	99	41 - 136
Phenol-d5	17	10 - 78
Nitrobenzene-d5	73	13 - 107
2-Fluorophenol	35	10 - 75
2-Fluorobiphenyl	77	27 - 107
2,4,6-Tribromophenol	78	38 - 117

### TIC's By 8270

Est.Conc Units

No TICs were detected.

### Cyanide by Colorimetric Method

Cyanide, Total	BRL	mg/L	0.0050	0.0020	1	9014	03/05/09 17:06	wknight	Q39718
Sample Preparation:						9010	03/05/09 12:00	wknight	P23939

### Mercury by CVAA

Mercury	BRL	mg/L	0.0002	0.0000084	1	7470A	03/03/09 15:44	heasler	Q39625
Sample Preparation:						7470A	03/03/09 10:35	mbarber	P23906

### Metals by ICP

Antimony	BRL	mg/L	0.010	0.0014	1	6010B	02/27/09 17:45	heasler	Q39553
Arsenic	BRL	mg/L	0.010	0.0012	1	6010B	02/27/09 17:45	heasler	Q39553
Beryllium	BRL	mg/L	0.0020	0.00015	1	6010B	02/27/09 17:45	heasler	Q39553
Cadmium	BRL	mg/L	0.0010	0.00012	1	6010B	02/27/09 17:45	heasler	Q39553
Chromium	0.0053	mg/L	0.0050	0.0004	1	6010B	02/27/09 17:45	heasler	Q39553
Copper	BRL	mg/L	0.010	0.0018	1	6010B	02/27/09 17:45	heasler	Q39553

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: MW-1B  
 Prism Sample ID: 238829  
 COC Group: G0209635  
 Time Collected: 02/23/09 13:45  
 Time Submitted: 02/24/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	BRL	mg/L	0.0050	0.00095	1	6010B	02/27/09 17:45	heasler	Q39553
Manganese	0.029	mg/L	0.010	0.00042	1	6010B	02/27/09 17:45	heasler	Q39553
Nickel	0.0031 J	mg/L	0.010	0.0005	1	6010B	02/27/09 17:45	heasler	Q39553
Selenium	BRL	mg/L	0.020	0.0040	1	6010B	02/27/09 17:45	heasler	Q39553
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	02/27/09 17:45	heasler	Q39553
Thallium	BRL	mg/L	0.010	0.0024	1	6010B	02/27/09 17:45	heasler	Q39553
Zinc	0.0063 J	mg/L	0.030	0.0037	1	6010B	02/27/09 17:45	heasler	Q39553
Sample Preparation:				50 mL /	50 mL	3010A	02/27/09 8:40	mbarber	P23880

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

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

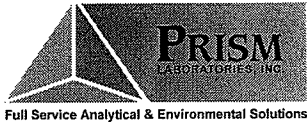
Client Sample ID: EB-04  
 Prism Sample ID: 238830  
 COC Group: G0209635  
 Time Collected: 02/23/09 14:40  
 Time Submitted: 02/24/09 13:30

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	0.087	1	8260B	03/01/09 3:34	Iwity	Q39572
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.053	1	8260B	03/01/09 3:34	Iwity	Q39572
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.071	1	8260B	03/01/09 3:34	Iwity	Q39572
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.092	1	8260B	03/01/09 3:34	Iwity	Q39572
1,1-Dichloroethane	BRL	µg/L	1.0	0.053	1	8260B	03/01/09 3:34	Iwity	Q39572
1,1-Dichloroethene	BRL	µg/L	1.0	0.046	1	8260B	03/01/09 3:34	Iwity	Q39572
1,1-Dichloropropene	BRL	µg/L	1.0	0.089	1	8260B	03/01/09 3:34	Iwity	Q39572
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.23	1	8260B	03/01/09 3:34	Iwity	Q39572
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.15	1	8260B	03/01/09 3:34	Iwity	Q39572
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.28	1	8260B	03/01/09 3:34	Iwity	Q39572
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.14	1	8260B	03/01/09 3:34	Iwity	Q39572
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.37	1	8260B	03/01/09 3:34	Iwity	Q39572
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.11	1	8260B	03/01/09 3:34	Iwity	Q39572
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.094	1	8260B	03/01/09 3:34	Iwity	Q39572
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	03/01/09 3:34	Iwity	Q39572
1,2-Dichloropropane	BRL	µg/L	1.0	0.081	1	8260B	03/01/09 3:34	Iwity	Q39572
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.081	1	8260B	03/01/09 3:34	Iwity	Q39572
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	03/01/09 3:34	Iwity	Q39572
1,3-Dichloropropane	BRL	µg/L	1.0	0.062	1	8260B	03/01/09 3:34	Iwity	Q39572
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.092	1	8260B	03/01/09 3:34	Iwity	Q39572
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	03/01/09 3:34	Iwity	Q39572
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.37	1	8260B	03/01/09 3:34	Iwity	Q39572
2-Chlorotoluene	BRL	µg/L	1.0	0.090	1	8260B	03/01/09 3:34	Iwity	Q39572
2-Hexanone	BRL	µg/L	5.0	0.20	1	8260B	03/01/09 3:34	Iwity	Q39572
4-Chlorotoluene	BRL	µg/L	1.0	0.13	1	8260B	03/01/09 3:34	Iwity	Q39572
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.93	1	8260B	03/01/09 3:34	Iwity	Q39572
Acetone	BRL	µg/L	10	1.0	1	8260B	03/01/09 3:34	Iwity	Q39572

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

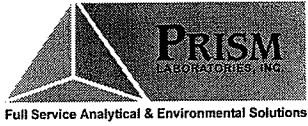
Client Sample ID: EB-04  
 Prism Sample ID: 238830  
 COC Group: G0209635  
 Time Collected: 02/23/09 14:40  
 Time Submitted: 02/24/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	1.4	1	8260B	03/01/09 3:34	Iwity	Q39572
Acrylonitrile	BRL	µg/L	100	1.4	1	8260B	03/01/09 3:34	Iwity	Q39572
Benzene	BRL	µg/L	1.0	0.044	1	8260B	03/01/09 3:34	Iwity	Q39572
Bromobenzene	BRL	µg/L	1.0	0.098	1	8260B	03/01/09 3:34	Iwity	Q39572
Bromochloromethane	BRL	µg/L	1.0	0.14	1	8260B	03/01/09 3:34	Iwity	Q39572
Bromodichloromethane	BRL	µg/L	1.0	0.076	1	8260B	03/01/09 3:34	Iwity	Q39572
Bromoform	BRL	µg/L	1.0	0.039	1	8260B	03/01/09 3:34	Iwity	Q39572
Bromomethane	BRL	µg/L	3.0	0.27	1	8260B	03/01/09 3:34	Iwity	Q39572
Carbon disulfide	BRL	µg/L	5.0	0.37	1	8260B	03/01/09 3:34	Iwity	Q39572
Carbon tetrachloride	BRL	µg/L	2.0	0.11	1	8260B	03/01/09 3:34	Iwity	Q39572
Chlorobenzene	BRL	µg/L	1.0	0.050	1	8260B	03/01/09 3:34	Iwity	Q39572
Chlorodibromomethane	BRL	µg/L	1.0	0.070	1	8260B	03/01/09 3:34	Iwity	Q39572
Chloroethane	BRL	µg/L	5.0	0.22	1	8260B	03/01/09 3:34	Iwity	Q39572
Chloroform	BRL	µg/L	1.0	0.049	1	8260B	03/01/09 3:34	Iwity	Q39572
Chloromethane	BRL	µg/L	2.0	0.30	1	8260B	03/01/09 3:34	Iwity	Q39572
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.054	1	8260B	03/01/09 3:34	Iwity	Q39572
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.070	1	8260B	03/01/09 3:34	Iwity	Q39572
Dibromomethane	BRL	µg/L	1.0	0.21	1	8260B	03/01/09 3:34	Iwity	Q39572
Dichlorodifluoromethane	BRL	µg/L	2.0	0.30	1	8260B	03/01/09 3:34	Iwity	Q39572
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	03/01/09 3:34	Iwity	Q39572
Hexachlorobutadiene	BRL	µg/L	2.0	0.30	1	8260B	03/01/09 3:34	Iwity	Q39572
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.076	1	8260B	03/01/09 3:34	Iwity	Q39572
Isopropylbenzene	BRL	µg/L	1.0	0.10	1	8260B	03/01/09 3:34	Iwity	Q39572
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	03/01/09 3:34	Iwity	Q39572
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.95	1	8260B	03/01/09 3:34	Iwity	Q39572
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	03/01/09 3:34	Iwity	Q39572
Methylene chloride	BRL	µg/L	2.0	0.081	1	8260B	03/01/09 3:34	Iwity	Q39572

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: EB-04  
 Prism Sample ID: 238830  
 COC Group: G0209635  
 Time Collected: 02/23/09 14:40  
 Time Submitted: 02/24/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.24	1	8260B	03/01/09 3:34	lwitry	Q39572
n-Propylbenzene	BRL	µg/L	1.0	0.087	1	8260B	03/01/09 3:34	lwitry	Q39572
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	03/01/09 3:34	lwitry	Q39572
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	03/01/09 3:34	lwitry	Q39572
p-Isopropyltoluene	BRL	µg/L	1.0	0.14	1	8260B	03/01/09 3:34	lwitry	Q39572
sec-Butylbenzene	BRL	µg/L	1.0	0.12	1	8260B	03/01/09 3:34	lwitry	Q39572
Styrene	BRL	µg/L	1.0	0.051	1	8260B	03/01/09 3:34	lwitry	Q39572
tert-Butylbenzene	BRL	µg/L	1.0	0.074	1	8260B	03/01/09 3:34	lwitry	Q39572
Tetrachloroethene	BRL	µg/L	1.0	0.12	1	8260B	03/01/09 3:34	lwitry	Q39572
Toluene	BRL	µg/L	1.0	0.064	1	8260B	03/01/09 3:34	lwitry	Q39572
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.066	1	8260B	03/01/09 3:34	lwitry	Q39572
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.17	1	8260B	03/01/09 3:34	lwitry	Q39572
Trichloroethene	BRL	µg/L	2.0	0.073	1	8260B	03/01/09 3:34	lwitry	Q39572
Trichlorofluoromethane	BRL	µg/L	2.0	0.31	1	8260B	03/01/09 3:34	lwitry	Q39572
Vinyl acetate	BRL	µg/L	20	1.8	1	8260B	03/01/09 3:34	lwitry	Q39572
Vinyl chloride	BRL	µg/L	2.0	0.28	1	8260B	03/01/09 3:34	lwitry	Q39572

Surrogate	% Recovery	Control Limits
Toluene-d8	106	75 - 121
Dibromofluoromethane	102	74 - 133
Bromofluorobenzene	109	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	03/02/09 23:14	kcampigotto	Q39573
1,2-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	03/02/09 23:14	kcampigotto	Q39573

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03/10/09

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 Attn: Susan Kelly  
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Project ID: Mills Gap  
 Sample Matrix: Water

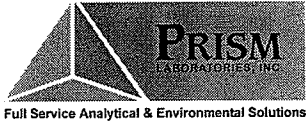
Client Sample ID: EB-04  
 Prism Sample ID: 238830  
 COC Group: G0209635  
 Time Collected: 02/23/09 14:40  
 Time Submitted: 02/24/09 13:30

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	03/02/09 23:14	kcampigotto	Q39573
1,4-Dichlorobenzene	BRL	µg/L	9.7	2.9	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2,4,5-Trichlorophenol	BRL	µg/L	9.7	1.9	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2,4,6-Trichlorophenol	BRL	µg/L	9.7	2.2	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2,4-Dichlorophenol	BRL	µg/L	9.7	2.3	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2,4-Dimethylphenol	BRL	µg/L	9.7	2.5	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2,4-Dinitrophenol	BRL	µg/L	9.7	1.6	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2,4-Dinitrotoluene	BRL	µg/L	9.7	1.1	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2,6-Dinitrotoluene	BRL	µg/L	9.7	1.3	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2-Chloronaphthalene	BRL	µg/L	9.7	2.3	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2-Chlorophenol	BRL	µg/L	9.7	2.8	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2-Methylnaphthalene	BRL	µg/L	9.7	2.6	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2-Methylphenol	BRL	µg/L	9.7	2.4	1	8270C	03/02/09 23:14	kcampigotto	Q39573
2-Nitrophenol	BRL	µg/L	9.7	2.8	1	8270C	03/02/09 23:14	kcampigotto	Q39573
3&4-Methylphenol	BRL	µg/L	9.7	1.9	1	8270C	03/02/09 23:14	kcampigotto	Q39573
3,3'-Dichlorobenzidine	BRL	µg/L	9.7	3.7	1	8270C	03/02/09 23:14	kcampigotto	Q39573
4,6-Dinitro-2-methylphenol	BRL	µg/L	9.7	1.8	1	8270C	03/02/09 23:14	kcampigotto	Q39573
4-Bromophenylphenylether	BRL	µg/L	9.7	0.77	1	8270C	03/02/09 23:14	kcampigotto	Q39573
4-Chloro-3-methylphenol	BRL	µg/L	9.7	2.4	1	8270C	03/02/09 23:14	kcampigotto	Q39573
4-Chlorophenylphenylether	BRL	µg/L	9.7	1.8	1	8270C	03/02/09 23:14	kcampigotto	Q39573
4-Nitrophenol	BRL	µg/L	9.7	0.59	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Acenaphthene	BRL	µg/L	9.7	2.2	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Acenaphthylene	BRL	µg/L	9.7	2.1	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Anthracene	BRL	µg/L	9.7	0.60	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Benzo(a)anthracene	BRL	µg/L	9.7	1.9	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Benzo(a)pyrene	BRL	µg/L	9.7	1.2	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Benzo(b)fluoranthene	BRL	µg/L	9.7	1.1	1	8270C	03/02/09 23:14	kcampigotto	Q39573

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# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

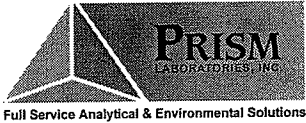
Client Sample ID: EB-04  
 Prism Sample ID: 238830  
 COC Group: G0209635  
 Time Collected: 02/23/09 14:40  
 Time Submitted: 02/24/09 13:30

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	03/02/09 23:14	kcampigotto	Q39573
Benzo(k)fluoranthene	BRL	µg/L	9.7	1.3	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Bis(2-chloroethoxy)methane	BRL	µg/L	9.7	3.0	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Bis(2-chloroethyl)ether	BRL	µg/L	9.7	3.0	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Bis(2-chloroisopropyl)ether	BRL	µg/L	9.7	3.2	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Bis(2-ethylhexyl)phthalate	BRL	µg/L	9.7	2.1	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Butylbenzylphthalate	BRL	µg/L	9.7	2.5	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Chrysene	BRL	µg/L	9.7	1.8	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Di-n-butylphthalate	BRL	µg/L	9.7	1.5	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Di-n-octylphthalate	BRL	µg/L	9.7	2.2	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Dibenzo(a,h)anthracene	BRL	µg/L	9.7	1.4	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Dibenzofuran	BRL	µg/L	9.7	1.9	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Diethylphthalate	BRL	µg/L	9.7	0.96	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Dimethylphthalate	BRL	µg/L	9.7	1.4	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Fluoranthene	BRL	µg/L	9.7	0.74	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Fluorene	BRL	µg/L	9.7	1.7	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Hexachlorobenzene	BRL	µg/L	9.7	0.77	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Hexachlorobutadiene	BRL	µg/L	9.7	3.0	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Hexachlorocyclopentadiene	BRL	µg/L	9.7	2.6	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Hexachloroethane	BRL	µg/L	9.7	3.5	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Indeno(1,2,3-cd)pyrene	BRL	µg/L	9.7	1.5	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Isophorone	BRL	µg/L	9.7	2.3	1	8270C	03/02/09 23:14	kcampigotto	Q39573
N-Nitrosodi-n-propylamine	BRL	µg/L	9.7	3.0	1	8270C	03/02/09 23:14	kcampigotto	Q39573
N-Nitrosodiphenylamine	BRL	µg/L	9.7	0.73	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Naphthalene	BRL	µg/L	9.7	3.1	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Nitrobenzene	BRL	µg/L	9.7	2.6	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Pentachlorophenol	BRL	µg/L	9.7	1.8	1	8270C	03/02/09 23:14	kcampigotto	Q39573

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: EB-04  
 Prism Sample ID: 238830  
 COC Group: G0209635  
 Time Collected: 02/23/09 14:40  
 Time Submitted: 02/24/09 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	03/02/09 23:14	kcampigotto	Q39573
Phenol	BRL	µg/L	9.7	0.99	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Pyrene	BRL	µg/L	9.7	1.3	1	8270C	03/02/09 23:14	kcampigotto	Q39573
Sample Preparation:			1030 mL / 1 mL		3510C	02/27/09 8:00	smanivanh		P23881

Surrogate	% Recovery	Control Limits
Terphenyl-d14	99	41 - 136
Phenol-d5	16	10 - 78
Nitrobenzene-d5	72	13 - 107
2-Fluorophenol	32	10 - 75
2-Fluorobiphenyl	75	27 - 107
2,4,6-Tribromophenol	74	38 - 117

**TIC's By 8270**

Est.Conc Units

No TICs were detected.

**Cyanide by Colorimetric Method**

Cyanide, Total	BRL	mg/L	0.0050	0.0020	1	9014	03/05/09 17:06	wknight	Q39718
Sample Preparation:			50 mL / 50 mL		9010	03/05/09 12:00	wknight		P23939

**Mercury by CVAA**

Mercury	BRL	mg/L	0.0002	0.0000084	1	7470A	03/03/09 15:55	heasler	Q39625
Sample Preparation:			20 mL / 30 mL		7470A	03/03/09 10:35	mbarber		P23906

**Metals by ICP**

Antimony	BRL	mg/L	0.010	0.0014	1	6010B	02/27/09 17:51	heasler	Q39553
Arsenic	BRL	mg/L	0.010	0.0012	1	6010B	02/27/09 17:51	heasler	Q39553
Beryllium	BRL	mg/L	0.0020	0.00015	1	6010B	02/27/09 17:51	heasler	Q39553
Cadmium	BRL	mg/L	0.0010	0.00012	1	6010B	02/27/09 17:51	heasler	Q39553
Chromium	BRL	mg/L	0.0050	0.0004	1	6010B	02/27/09 17:51	heasler	Q39553
Copper	BRL	mg/L	0.010	0.0018	1	6010B	02/27/09 17:51	heasler	Q39553

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: EB-04  
 Prism Sample ID: 238830  
 COC Group: G0209635  
 Time Collected: 02/23/09 14:40  
 Time Submitted: 02/24/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	BRL	mg/L	0.0050	0.00095	1	6010B	02/27/09 17:51	heasler	Q39553
Manganese	0.0008 J	mg/L	0.010	0.00042	1	6010B	02/27/09 17:51	heasler	Q39553
Nickel	BRL	mg/L	0.010	0.0005	1	6010B	02/27/09 17:51	heasler	Q39553
Selenium	BRL	mg/L	0.020	0.0040	1	6010B	02/27/09 17:51	heasler	Q39553
Silver	BRL	mg/L	0.0050	0.00018	1	6010B	02/27/09 17:51	heasler	Q39553
Thallium	BRL	mg/L	0.010	0.0024	1	6010B	02/27/09 17:51	heasler	Q39553
Titanium	0.0007 J	mg/L	0.010	0.0003	1	6010B	02/27/09 17:51	heasler	Q39553
Zinc	0.023 J	mg/L	0.030	0.0037	1	6010B	02/27/09 17:51	heasler	Q39553
Sample Preparation:				50 mL /	50 mL	3010A	02/27/09 8:40	mbarber	P23880

Sample Comment(s):

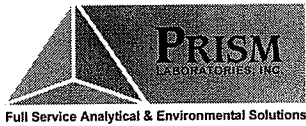
BRL = Below Reporting Limit

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

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: TB-07  
 Prism Sample ID: 238831  
 COC Group: G0209635  
 Time Collected: 02/23/09  
 Time Submitted: 02/24/09 13:30

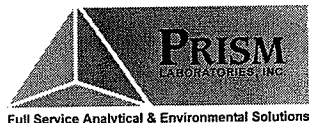
Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b><u>Volatile Organic Compounds by GC/MS</u></b>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	1.0	0.087	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,1,1-Trichloroethane	BRL	µg/L	1.0	0.053	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,1,2,2-Tetrachloroethane	BRL	µg/L	1.0	0.071	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,1,2-Trichloroethane	BRL	µg/L	1.0	0.092	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,1-Dichloroethane	BRL	µg/L	1.0	0.053	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,1-Dichloroethene	BRL	µg/L	1.0	0.046	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,1-Dichloropropene	BRL	µg/L	1.0	0.089	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,2,3-Trichlorobenzene	BRL	µg/L	2.0	0.23	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,2,3-Trichloropropane	BRL	µg/L	1.0	0.15	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,2,4-Trichlorobenzene	BRL	µg/L	1.0	0.28	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,2,4-Trimethylbenzene	BRL	µg/L	1.0	0.14	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,2-Dibromo-3-chloropropane	BRL	µg/L	2.0	0.37	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,2-Dibromoethane (EDB)	BRL	µg/L	1.0	0.11	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,2-Dichlorobenzene	BRL	µg/L	1.0	0.094	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,2-Dichloroethane	BRL	µg/L	1.0	0.072	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,2-Dichloropropane	BRL	µg/L	1.0	0.081	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,3,5-Trimethylbenzene	BRL	µg/L	1.0	0.081	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,3-Dichlorobenzene	BRL	µg/L	1.0	0.10	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,3-Dichloropropane	BRL	µg/L	1.0	0.062	1	8260B	03/01/09 3:03	Iwitry	Q39572
1,4-Dichlorobenzene	BRL	µg/L	1.0	0.092	1	8260B	03/01/09 3:03	Iwitry	Q39572
2,2-Dichloropropane	BRL	µg/L	2.0	0.21	1	8260B	03/01/09 3:03	Iwitry	Q39572
2-Chloroethyl vinyl ether	BRL	µg/L	2.0	0.37	1	8260B	03/01/09 3:03	Iwitry	Q39572
2-Chlorotoluene	BRL	µg/L	1.0	0.090	1	8260B	03/01/09 3:03	Iwitry	Q39572
2-Hexanone	BRL	µg/L	5.0	0.20	1	8260B	03/01/09 3:03	Iwitry	Q39572
4-Chlorotoluene	BRL	µg/L	1.0	0.13	1	8260B	03/01/09 3:03	Iwitry	Q39572
4-Methyl-2-pentanone (MIBK)	BRL	µg/L	5.0	0.93	1	8260B	03/01/09 3:03	Iwitry	Q39572
Acetone	BRL	µg/L	10	1.0	1	8260B	03/01/09 3:03	Iwitry	Q39572

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: TB-07  
 Prism Sample ID: 238831  
 COC Group: G0209635  
 Time Collected: 02/23/09  
 Time Submitted: 02/24/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Acrolein	BRL	µg/L	100	1.4	1	8260B	03/01/09 3:03	Iwity	Q39572
Acrylonitrile	BRL	µg/L	100	1.4	1	8260B	03/01/09 3:03	Iwity	Q39572
Benzene	BRL	µg/L	1.0	0.044	1	8260B	03/01/09 3:03	Iwity	Q39572
Bromobenzene	BRL	µg/L	1.0	0.098	1	8260B	03/01/09 3:03	Iwity	Q39572
Bromochloromethane	BRL	µg/L	1.0	0.14	1	8260B	03/01/09 3:03	Iwity	Q39572
Bromodichloromethane	BRL	µg/L	1.0	0.076	1	8260B	03/01/09 3:03	Iwity	Q39572
Bromoform	BRL	µg/L	1.0	0.039	1	8260B	03/01/09 3:03	Iwity	Q39572
Bromomethane	BRL	µg/L	3.0	0.27	1	8260B	03/01/09 3:03	Iwity	Q39572
Carbon disulfide	BRL	µg/L	5.0	0.37	1	8260B	03/01/09 3:03	Iwity	Q39572
Carbon tetrachloride	BRL	µg/L	2.0	0.11	1	8260B	03/01/09 3:03	Iwity	Q39572
Chlorobenzene	BRL	µg/L	1.0	0.050	1	8260B	03/01/09 3:03	Iwity	Q39572
Chlorodibromomethane	BRL	µg/L	1.0	0.070	1	8260B	03/01/09 3:03	Iwity	Q39572
Chloroethane	BRL	µg/L	5.0	0.22	1	8260B	03/01/09 3:03	Iwity	Q39572
Chloroform	BRL	µg/L	1.0	0.049	1	8260B	03/01/09 3:03	Iwity	Q39572
Chloromethane	BRL	µg/L	2.0	0.30	1	8260B	03/01/09 3:03	Iwity	Q39572
cis-1,2-Dichloroethene	BRL	µg/L	1.0	0.054	1	8260B	03/01/09 3:03	Iwity	Q39572
cis-1,3-Dichloropropene	BRL	µg/L	1.0	0.070	1	8260B	03/01/09 3:03	Iwity	Q39572
Dibromomethane	BRL	µg/L	1.0	0.21	1	8260B	03/01/09 3:03	Iwity	Q39572
Dichlorodifluoromethane	BRL	µg/L	2.0	0.30	1	8260B	03/01/09 3:03	Iwity	Q39572
Ethylbenzene	BRL	µg/L	1.0	0.085	1	8260B	03/01/09 3:03	Iwity	Q39572
Hexachlorobutadiene	BRL	µg/L	2.0	0.30	1	8260B	03/01/09 3:03	Iwity	Q39572
Isopropyl ether (IPE)	BRL	µg/L	1.0	0.076	1	8260B	03/01/09 3:03	Iwity	Q39572
Isopropylbenzene	BRL	µg/L	1.0	0.10	1	8260B	03/01/09 3:03	Iwity	Q39572
m,p-Xylenes	BRL	µg/L	2.0	0.13	1	8260B	03/01/09 3:03	Iwity	Q39572
Methyl ethyl ketone (MEK)	BRL	µg/L	5.0	0.95	1	8260B	03/01/09 3:03	Iwity	Q39572
Methyl t-butyl ether (MTBE)	BRL	µg/L	1.0	0.11	1	8260B	03/01/09 3:03	Iwity	Q39572
Methylene chloride	BRL	µg/L	2.0	0.081	1	8260B	03/01/09 3:03	Iwity	Q39572

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: TB-07  
 Prism Sample ID: 238831  
 COC Group: G0209635  
 Time Collected: 02/23/09  
 Time Submitted: 02/24/09 13:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Butylbenzene	BRL	µg/L	1.0	0.24	1	8260B	03/01/09 3:03	Iwity	Q39572
n-Propylbenzene	BRL	µg/L	1.0	0.087	1	8260B	03/01/09 3:03	Iwity	Q39572
Naphthalene	BRL	µg/L	1.0	0.23	1	8260B	03/01/09 3:03	Iwity	Q39572
o-Xylene	BRL	µg/L	1.0	0.059	1	8260B	03/01/09 3:03	Iwity	Q39572
p-Isopropyltoluene	BRL	µg/L	1.0	0.14	1	8260B	03/01/09 3:03	Iwity	Q39572
sec-Butylbenzene	BRL	µg/L	1.0	0.12	1	8260B	03/01/09 3:03	Iwity	Q39572
Styrene	BRL	µg/L	1.0	0.051	1	8260B	03/01/09 3:03	Iwity	Q39572
tert-Butylbenzene	BRL	µg/L	1.0	0.074	1	8260B	03/01/09 3:03	Iwity	Q39572
Tetrachloroethene	BRL	µg/L	1.0	0.12	1	8260B	03/01/09 3:03	Iwity	Q39572
Toluene	BRL	µg/L	1.0	0.064	1	8260B	03/01/09 3:03	Iwity	Q39572
trans-1,2-Dichloroethene	BRL	µg/L	2.0	0.066	1	8260B	03/01/09 3:03	Iwity	Q39572
trans-1,3-Dichloropropene	BRL	µg/L	1.0	0.17	1	8260B	03/01/09 3:03	Iwity	Q39572
Trichloroethene	BRL	µg/L	2.0	0.073	1	8260B	03/01/09 3:03	Iwity	Q39572
Trichlorofluoromethane	BRL	µg/L	2.0	0.31	1	8260B	03/01/09 3:03	Iwity	Q39572
Vinyl acetate	BRL	µg/L	20	1.8	1	8260B	03/01/09 3:03	Iwity	Q39572
Vinyl chloride	BRL	µg/L	2.0	0.28	1	8260B	03/01/09 3:03	Iwity	Q39572

Surrogate	% Recovery	Control Limits
Toluene-d8	104	75 - 121
Dibromofluoromethane	104	74 - 133
Bromofluorobenzene	110	69 - 139

**TIC's By 8260**

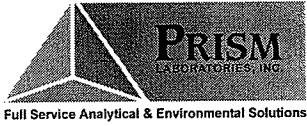
Est.Conc Units

No TICs were detected.

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

# Laboratory Report

03/10/09

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

Project ID: Mills Gap  
 Sample Matrix: Water

Client Sample ID: TB-07  
 Prism Sample ID: 238831  
 COC Group: G0209635  
 Time Collected: 02/23/09  
 Time Submitted: 02/24/09 13:30

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

*BRL = Below Reporting Limit*

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

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

*All results are reported on a wet-weight basis*

Angela D. Overcash, V.P. Laboratory Services



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

# Level II QC Report

03/10/09

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

Project ID: Mills Gap

COC Group Number: G0209635  
 Date/Time Submitted: 02/24/09 13:30

## Metals by ICP, method 6010B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Antimony	0.0005	0.01	<0.005	mg/L	Q39553
Arsenic	0.0001	0.01	<0.005	mg/L	Q39553
Beryllium	ND	0.002	<0.001	mg/L	Q39553
Cadmium	0.0001	0.001	<0.0005	mg/L	Q39553
Chromium	ND	0.005	<0.0025	mg/L	Q39553
Copper	ND	0.01	<0.005	mg/L	Q39553
Lead	ND	0.005	<0.0025	mg/L	Q39553
Manganese	0.0003	0.01	<0.005	mg/L	Q39553
Nickel	0.005	0.01	<0.005	mg/L	Q39553
Selenium	-0.0004	0.02	<0.01	mg/L	Q39553
Silver	-0.0001	0.005	<0.0025	mg/L	Q39553
Thallium	-0.0002	0.01	<0.005	mg/L	Q39553
Titanium	0.0001	0.01	<0.005	mg/L	Q39553
Zinc	0.0009	0.03	<0.015	mg/L	Q39553

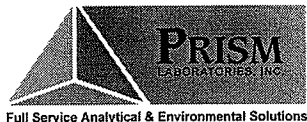
Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Antimony	0.2381	0.25	mg/L	95	80-120	Q39553
Arsenic	0.2456	0.25	mg/L	98	80-120	Q39553
Beryllium	0.2427	0.25	mg/L	97	80-120	Q39553
Cadmium	0.2434	0.25	mg/L	97	80-120	Q39553
Chromium	0.2432	0.25	mg/L	97	80-120	Q39553
Copper	0.2551	0.25	mg/L	102	80-120	Q39553
Lead	0.2466	0.25	mg/L	99	80-120	Q39553
Manganese	0.2541	0.25	mg/L	102	80-120	Q39553
Nickel	0.2489	0.25	mg/L	100	80-120	Q39553
Selenium	0.2441	0.25	mg/L	98	80-120	Q39553
Silver	0.2464	0.25	mg/L	99	80-120	Q39553
Thallium	0.2485	0.25	mg/L	99	80-120	Q39553
Titanium	0.2434	0.25	mg/L	97	80-120	Q39553
Zinc	0.2415	0.25	mg/L	97	80-120	Q39553

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
	238922 Antimony	0.2372	0.25	mg/L	95	75-125	Q39553
	Arsenic	0.2489	0.25	mg/L	99	75-125	Q39553

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

# Level II QC Report

03/10/09

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

Project ID: Mills Gap

COC Group Number: G0209635  
 Date/Time Submitted: 02/24/09 13:30

<b>Matrix Spike</b>		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:							
238922	Beryllium	0.2471	0.25	mg/L	99	75-125	Q39553
	Cadmium	0.2449	0.25	mg/L	98	75-125	Q39553
	Chromium	0.2465	0.25	mg/L	98	75-125	Q39553
	Copper	0.2569	0.25	mg/L	102	75-125	Q39553
	Lead	0.2477	0.25	mg/L	99	75-125	Q39553
	Manganese	0.4254	0.25	mg/L	103	75-125	Q39553
	Nickel	0.2514	0.25	mg/L	100	75-125	Q39553
	Selenium	0.2444	0.25	mg/L	98	75-125	Q39553
	Silver	0.245	0.25	mg/L	98	75-125	Q39553
	Thallium	0.2467	0.25	mg/L	99	75-125	Q39553
	Titanium	0.2537	0.25	mg/L	100	75-125	Q39553
	Zinc	0.2727	0.25	mg/L	98	75-125	Q39553

<b>Matrix Spike Duplicate</b>		Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:									
238922	Antimony	0.2372	0.25	mg/L	95	75-125	0	0 - 20	Q39553
	Arsenic	0.2459	0.25	mg/L	98	75-125	1	0 - 20	Q39553
	Beryllium	0.2464	0.25	mg/L	98	75-125	0	0 - 20	Q39553
	Cadmium	0.2445	0.25	mg/L	98	75-125	0	0 - 20	Q39553
	Chromium	0.2449	0.25	mg/L	98	75-125	1	0 - 20	Q39553
	Copper	0.2547	0.25	mg/L	102	75-125	1	0 - 20	Q39553
	Lead	0.2467	0.25	mg/L	98	75-125	0	0 - 20	Q39553
	Manganese	0.4238	0.25	mg/L	102	75-125	0	0 - 20	Q39553
	Nickel	0.2499	0.25	mg/L	99	75-125	1	0 - 20	Q39553
	Selenium	0.2446	0.25	mg/L	99	75-125	0	0 - 20	Q39553
	Silver	0.2435	0.25	mg/L	98	75-125	1	0 - 20	Q39553
	Thallium	0.2452	0.25	mg/L	98	75-125	1	0 - 20	Q39553
	Titanium	0.2589	0.25	mg/L	102	75-125	2	0 - 20	Q39553
	Zinc	0.272	0.25	mg/L	97	75-125	0	0 - 20	Q39553

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# Level II QC Report

03/10/09

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

Project ID: Mills Gap

COC Group Number: G0209635  
 Date/Time Submitted: 02/24/09 13:30

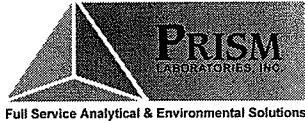
## Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q39572
1,1,1-Trichloroethane	ND	1	<0.5	µg/L	Q39572
1,1,2,2-Tetrachloroethane	ND	1	<0.5	µg/L	Q39572
1,1,2-Trichloroethane	ND	1	<0.5	µg/L	Q39572
1,1-Dichloroethane	ND	1	<0.5	µg/L	Q39572
1,1-Dichloroethene	ND	1	<0.5	µg/L	Q39572
1,1-Dichloropropene	ND	1	<0.5	µg/L	Q39572
1,2,3-Trichlorobenzene	ND	2	<1	µg/L	Q39572
1,2,3-Trichloropropane	ND	1	<0.5	µg/L	Q39572
1,2,4-Trichlorobenzene	ND	1	<0.5	µg/L	Q39572
1,2,4-Trimethylbenzene	ND	1	<0.5	µg/L	Q39572
1,2-Dibromo-3-chloropropane	ND	2	<1	µg/L	Q39572
1,2-Dibromoethane (EDB)	ND	1	<0.5	µg/L	Q39572
1,2-Dichlorobenzene	ND	1	<0.5	µg/L	Q39572
1,2-Dichloroethane	ND	1	<0.5	µg/L	Q39572
1,2-Dichloropropane	ND	1	<0.5	µg/L	Q39572
1,3,5-Trimethylbenzene	ND	1	<0.5	µg/L	Q39572
1,3-Dichlorobenzene	ND	1	<0.5	µg/L	Q39572
1,3-Dichloropropane	ND	1	<0.5	µg/L	Q39572
1,4-Dichlorobenzene	ND	1	<0.5	µg/L	Q39572
2,2-Dichloropropane	ND	2	<1	µg/L	Q39572
2-Chloroethyl vinyl ether	ND	2	<1	µg/L	Q39572
2-Chlorotoluene	ND	1	<0.5	µg/L	Q39572
2-Hexanone	ND	5	<2.5	µg/L	Q39572
4-Chlorotoluene	ND	1	<0.5	µg/L	Q39572
4-Methyl-2-pentanone (MIBK)	ND	5	<2.5	µg/L	Q39572
Acetone	ND	10	<5	µg/L	Q39572
Acrolein	ND	100	<50	µg/L	Q39572
Acrylonitrile	ND	100	<50	µg/L	Q39572
Benzene	ND	1	<0.5	µg/L	Q39572
Bromobenzene	ND	1	<0.5	µg/L	Q39572
Bromochloromethane	ND	1	<0.5	µg/L	Q39572
Bromodichloromethane	ND	1	<0.5	µg/L	Q39572
Bromoform	ND	1	<0.5	µg/L	Q39572

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# Level II QC Report

03/10/09

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

Project ID: Mills Gap

COC Group Number: G0209635  
 Date/Time Submitted: 02/24/09 13:30

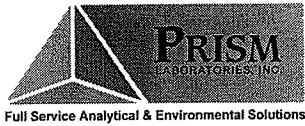
## Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Bromomethane	ND	3	<1.5	µg/L	Q39572
Carbon disulfide	ND	5	<2.5	µg/L	Q39572
Carbon tetrachloride	ND	2	<1	µg/L	Q39572
Chlorobenzene	ND	1	<0.5	µg/L	Q39572
Chlorodibromomethane	ND	1	<0.5	µg/L	Q39572
Chloroethane	ND	5	<2.5	µg/L	Q39572
Chloroform	ND	1	<0.5	µg/L	Q39572
Chloromethane	ND	2	<1	µg/L	Q39572
cis-1,2-Dichloroethene	ND	1	<0.5	µg/L	Q39572
cis-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q39572
Dibromomethane	ND	1	<0.5	µg/L	Q39572
Dichlorodifluoromethane	ND	2	<1	µg/L	Q39572
Ethylbenzene	ND	1	<0.5	µg/L	Q39572
Hexachlorobutadiene	ND	2	<1	µg/L	Q39572
Isopropyl ether (IPE)	ND	1	<0.5	µg/L	Q39572
Isopropylbenzene	ND	1	<0.5	µg/L	Q39572
m,p-Xylenes	ND	2	<1	µg/L	Q39572
Methyl ethyl ketone (MEK)	ND	5	<2.5	µg/L	Q39572
Methyl t-butyl ether (MTBE)	ND	1	<0.5	µg/L	Q39572
Methylene chloride	ND	2	<1	µg/L	Q39572
n-Butylbenzene	ND	1	<0.5	µg/L	Q39572
n-Propylbenzene	ND	1	<0.5	µg/L	Q39572
Naphthalene	ND	1	<0.5	µg/L	Q39572
o-Xylene	ND	1	<0.5	µg/L	Q39572
p-Isopropyltoluene	ND	1	<0.5	µg/L	Q39572
sec-Butylbenzene	ND	1	<0.5	µg/L	Q39572
Styrene	ND	1	<0.5	µg/L	Q39572
tert-Butylbenzene	ND	1	<0.5	µg/L	Q39572
Tetrachloroethene	ND	1	<0.5	µg/L	Q39572
Toluene	ND	1	<0.5	µg/L	Q39572
trans-1,2-Dichloroethene	ND	2	<1	µg/L	Q39572
trans-1,3-Dichloropropene	ND	1	<0.5	µg/L	Q39572
Trichloroethene	ND	2	<1	µg/L	Q39572
Trichlorofluoromethane	ND	2	<1	µg/L	Q39572
Vinyl acetate	ND	20	<10	µg/L	Q39572
Vinyl chloride	ND	2	<1	µg/L	Q39572

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# Level II QC Report

03/10/09

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

Project ID: Mills Gap

COC Group Number: G0209635  
 Date/Time Submitted: 02/24/09 13:30

Laboratory Control Sample						
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,1-Dichloroethene	58.26	50	µg/L	117	62-141	Q39572
Benzene	51.38	50	µg/L	103	70-141	Q39572
Chlorobenzene	46.6	50	µg/L	93	88-120	Q39572
Toluene	50.22	50	µg/L	100	78-130	Q39572
Trichloroethene	60.24	50	µg/L	120	78-124	Q39572

Matrix Spike						
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
238810 1,1-Dichloroethene	642.6	500	µg/L	129	54-140	Q39572
Benzene	540.6	500	µg/L	108	62-129	Q39572
Chlorobenzene	471.9	500	µg/L	94	64-127	Q39572
Toluene	521.7	500	µg/L	104	60-131	Q39572
Trichloroethene	560.7	500	µg/L	112	52-128	Q39572

Matrix Spike Duplicate								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
238810 1,1-Dichloroethene	600	500	µg/L	120	54-140	7	0 - 20	Q39572
Benzene	517.9	500	µg/L	104	62-129	4	0 - 19	Q39572
Chlorobenzene	464.9	500	µg/L	93	64-127	1	0 - 20	Q39572
Toluene	499.9	500	µg/L	100	60-131	4	0 - 21	Q39572
Trichloroethene	539.7	500	µg/L	108	52-128	4	0 - 18	Q39572

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# Level II QC Report

03/10/09

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

Project ID: Mills Gap

COC Group Number: G0209635  
 Date/Time Submitted: 02/24/09 13:30

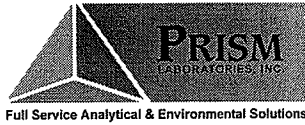
## Semi-volatile Organics by GC/MS, method 8270C

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	10	<5	µg/L	Q39573
1,2-Dichlorobenzene	ND	10	<5	µg/L	Q39573
1,3-Dichlorobenzene	ND	10	<5	µg/L	Q39573
1,4-Dichlorobenzene	ND	10	<5	µg/L	Q39573
1-Methylnaphthalene	ND	10	<5	µg/L	Q39573
2,4,5-Trichlorophenol	ND	10	<5	µg/L	Q39573
2,4,6-Trichlorophenol	ND	10	<5	µg/L	Q39573
2,4-Dichlorophenol	ND	10	<5	µg/L	Q39573
2,4-Dimethylphenol	ND	10	<5	µg/L	Q39573
2,4-Dinitrophenol	ND	10	<5	µg/L	Q39573
2,4-Dinitrotoluene	ND	10	<5	µg/L	Q39573
2,6-Dinitrotoluene	ND	10	<5	µg/L	Q39573
2-Chloronaphthalene	ND	10	<5	µg/L	Q39573
2-Chlorophenol	ND	10	<5	µg/L	Q39573
2-Methylnaphthalene	ND	10	<5	µg/L	Q39573
2-Methylphenol	ND	10	<5	µg/L	Q39573
2-Nitroaniline	ND	10	<5	µg/L	Q39573
2-Nitrophenol	ND	10	<5	µg/L	Q39573
3&4-Methylphenol	ND	10	<5	µg/L	Q39573
3,3'-Dichlorobenzidine	ND	10	<5	µg/L	Q39573
3-Nitroaniline	ND	10	<5	µg/L	Q39573
4,6-Dinitro-2-methylphenol	ND	10	<5	µg/L	Q39573
4-Bromophenylphenylether	ND	10	<5	µg/L	Q39573
4-Chloro-3-methylphenol	ND	10	<5	µg/L	Q39573
4-Chloroaniline	ND	10	<5	µg/L	Q39573
4-Chlorophenylphenylether	ND	10	<5	µg/L	Q39573
4-Nitroaniline	ND	10	<5	µg/L	Q39573
4-Nitrophenol	ND	10	<5	µg/L	Q39573
Acenaphthene	ND	10	<5	µg/L	Q39573
Acenaphthylene	ND	10	<5	µg/L	Q39573
Anthracene	ND	10	<5	µg/L	Q39573
Benzo(a)anthracene	ND	10	<5	µg/L	Q39573
Benzo(a)pyrene	ND	10	<5	µg/L	Q39573
Benzo(b)fluoranthene	ND	10	<5	µg/L	Q39573

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 Attn: Susan Kelly  
 1308 Patton Avenue  
 Asheville, NC 28806

Project ID: Mills Gap

COC Group Number: G0209635  
 Date/Time Submitted: 02/24/09 13:30

## Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Benzo(g,h,i)perylene	ND	10	<5	µg/L	Q39573
Benzo(k)fluoranthene	ND	10	<5	µg/L	Q39573
Bis(2-chloroethoxy)methane	ND	10	<5	µg/L	Q39573
Bis(2-chloroethyl)ether	ND	10	<5	µg/L	Q39573
Bis(2-chloroisopropyl)ether	ND	10	<5	µg/L	Q39573
Bis(2-ethylhexyl)phthalate	ND	10	<5	µg/L	Q39573
Butylbenzylphthalate	ND	10	<5	µg/L	Q39573
Chrysene	ND	10	<5	µg/L	Q39573
Di-n-butylphthalate	ND	10	<5	µg/L	Q39573
Di-n-octylphthalate	ND	10	<5	µg/L	Q39573
Dibenzo(a,h)anthracene	ND	10	<5	µg/L	Q39573
Dibenzofuran	ND	10	<5	µg/L	Q39573
Diethylphthalate	ND	10	<5	µg/L	Q39573
Dimethylphthalate	ND	10	<5	µg/L	Q39573
Fluoranthene	ND	10	<5	µg/L	Q39573
Fluorene	ND	10	<5	µg/L	Q39573
Hexachlorobenzene	ND	10	<5	µg/L	Q39573
Hexachlorobutadiene	ND	10	<5	µg/L	Q39573
Hexachlorocyclopentadiene	ND	10	<5	µg/L	Q39573
Hexachloroethane	ND	10	<5	µg/L	Q39573
Indeno(1,2,3-cd)pyrene	ND	10	<5	µg/L	Q39573
Isophorone	ND	10	<5	µg/L	Q39573
N-Nitrosodi-n-propylamine	ND	10	<5	µg/L	Q39573
N-Nitrosodiphenylamine	ND	10	<5	µg/L	Q39573
Naphthalene	ND	10	<5	µg/L	Q39573
Nitrobenzene	ND	10	<5	µg/L	Q39573
Pentachlorophenol	ND	10	<5	µg/L	Q39573
Phenanthrene	ND	10	<5	µg/L	Q39573
Phenol	ND	10	<5	µg/L	Q39573
Pyrene	ND	10	<5	µg/L	Q39573

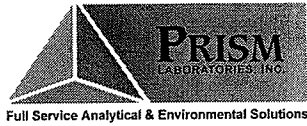
## Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
1,2,4-Trichlorobenzene	41.03	50	µg/L	82	35-105	Q39573
1,4-Dichlorobenzene	36.71	50	µg/L	73	30-100	Q39573
2,4-Dinitrotoluene	52.76	50	µg/L	106	50-120	Q39573
2-Chlorophenol	30.8	50	µg/L	62	35-105	Q39573

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Project ID: Mills Gap

COC Group Number: G0209635  
 Date/Time Submitted: 02/24/09 13:30

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
4-Chloro-3-methylphenol	44.29	50	µg/L	89	45-110	Q39573
4-Nitrophenol	12.32	50	µg/L	25	15-150	Q39573
Acenaphthene	36.82	50	µg/L	74	45-110	Q39573
N-Nitrosodi-n-propylamine	43.52	50	µg/L	87	35-130	Q39573
Pentachlorophenol	42.54	50	µg/L	85	40-115	Q39573
Phenol	10.97	50	µg/L	22	15-150	Q39573
Pyrene	53.5	50	µg/L	107	50-130	Q39573

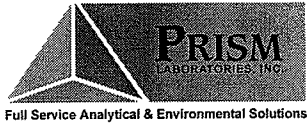
Matrix Spike	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Sample ID: 238674 1,2,4-Trichlorobenzene	78.9019	98.039	µg/L	80	35-105	Q39573
1,4-Dichlorobenzene	79.0980	98.039	µg/L	81	30-100	Q39573
2,4-Dinitrotoluene	103.235	98.039	µg/L	105	50-120	Q39573
2-Chlorophenol	66.9019	98.039	µg/L	68	35-105	Q39573
4-Chloro-3-methylphenol	92.9607	98.039	µg/L	95	45-110	Q39573
4-Nitrophenol	51.0196	98.039	µg/L	52	15-150	Q39573
Acenaphthene	90.5294	98.039	µg/L	92	45-110	Q39573
N-Nitrosodi-n-propylamine	93.1960	98.039	µg/L	95	35-130	Q39573
Pentachlorophenol	93.4313	98.039	µg/L	95	40-115	Q39573
Phenol	41.8431	98.039	µg/L	43	15-150	Q39573
Pyrene	113.803	98.039	µg/L	116	50-130	Q39573

Matrix Spike Duplicate	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID: 238674 1,2,4-Trichlorobenzene	78.5294	98.039	µg/L	80	35-105	0	0 - 50	Q39573
1,4-Dichlorobenzene	68.3529	98.039	µg/L	70	30-100	15	0 - 50	Q39573
2,4-Dinitrotoluene	97.2941	98.039	µg/L	99	50-120	6	0 - 50	Q39573
2-Chlorophenol	60.2745	98.039	µg/L	61	35-105	10	0 - 50	Q39573
4-Chloro-3-methylphenol	96.8431	98.039	µg/L	99	45-110	4	0 - 50	Q39573
4-Nitrophenol	39.8627	98.039	µg/L	41	15-150	25	0 - 50	Q39573
Acenaphthene	79.7254	98.039	µg/L	81	45-110	13	0 - 50	Q39573
N-Nitrosodi-n-propylamine	76.8431	98.039	µg/L	78	35-130	19	0 - 50	Q39573
Pentachlorophenol	92.7058	98.039	µg/L	95	40-115	1	0 - 50	Q39573
Phenol	31.5490	98.039	µg/L	32	15-150	28	0 - 50	Q39573
Pyrene	113.294	98.039	µg/L	116	50-130	0	0 - 50	Q39573

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



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

# Level II QC Report

03/10/09

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

Project ID: Mills Gap

COC Group Number: G0209635  
 Date/Time Submitted: 02/24/09 13:30

## Mercury by CVAA, method 7470A

Method Blank							QC Batch ID		
	Result	RL	Control Limit	Units					
Mercury	-0.00003	0.0002	<0.0001	mg/L			Q39625		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Mercury	0.00965	0.0093		mg/L	103	80-120	Q39625		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
238829 Mercury	0.00972	0.0093		mg/L	104	80-120	Q39625		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
238829 Mercury	0.00957	0.0093		mg/L	102	80-120	2	0 - 20	Q39625

## Cyanide by Colorimetric Method, method 9014

Method Blank							QC Batch ID
	Result	RL	Control Limit	Units			
Cyanide, Total	ND	0.005	<0.0025	mg/L			Q39718
Laboratory Control Sample							QC Batch ID
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	
Cyanide, Total	0.0861	0.1		mg/L	86	85-115	Q39718

#-See Case Narrative



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

Client Company Name: MACIEC  
 Report To/Contact Name: Susan Kelly  
 Reporting Address: 1308 Patton Ave  
Asheville, NC 28806

Phone: 828 252 8130 Fax (Yes) (NO)  
 Email (Yes) (No) Email Address: sekelly@maciek.com  
 EDD Type: PDF X Excel Other  
 Site Location Name: Mills Gap Road  
 Site Location Physical Address: Skyland, NC

# CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Mills Gap UST Project: (Yes) (NO)  
 Short Hold Analysis: (Yes) (NO) \*Please ATTACH any project specific reporting (QC LEVEL I, II, III, IV) provisions and/or QC Requirements  
 Invoice To: MACIEC  
 Address:

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

# LAB USE ONLY

Samples INTACT upon arrival? YES  NO  N/A   
 Received ON WET ICE? Temp 1.0  
 PROPER PRESERVATIVES indicated?  
 Received WITHIN HOLDING TIMES?  
 CUSTODY SEALS INTACT?  
 VOLATILES rec'd W/OUT HEADSPACE?  
 PROPER CONTAINERS used?

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL  
 Certification: NELAC USACE FL NC  
 SC OTHER N/A  
 Water Chlorinated: YES NO  
 Sample Iced Upon Collection: YES X NO

## ANALYSES REQUESTED

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER		PRESERVATIVES	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO. SIZE			
MW-1B	2-23-09	1345	Water	Various	7	Various		238829
EB-04	2-23-09	1440	Water	Various	7	Various		238830
TB-07	lab	lab	Water	VOA	1	40 ml HCL		238831

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: [Signature] Sampled By (Print Name): Wm. Kirk Weir Affiliation: \_\_\_\_\_  
 Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.  
 Relinquished By (Signature): [Signature] Received By (Signature): \_\_\_\_\_  
 Relinquished By (Signature): [Signature] Received By (Signature): \_\_\_\_\_  
 Relinquished By (Signature): [Signature] Received By (Signature): \_\_\_\_\_  
 Method of Shipment:  Fed Ex  UPS  Hand-delivered  Prism Field Service  Other  
 NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.  
 Additional Comments: \* 8260 + 8270 + TLCS  
 Date: \_\_\_\_\_ Military/Hours: \_\_\_\_\_  
 Date: \_\_\_\_\_ Date: 2/24/09 1330  
 COC Group No. G0209635  
 NPDES:  NC  SC  NC  SC  NC  SC  NC  SC  NC  SC  NC  SC  
 \*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL