Environmental Compliance and Remediation

Babb & Associates, P.A.

July 2, 2009

Mr. Ervin Lane, Hydrogeologist
Field Operations Branch
NC Solid Waste Section
Mail Service Center 1646
Raleigh, North Carolina 27699-1646

Re: 2009 First Semi-Annual Water Quality Monitoring Results
Wilson County MSWLF
Wilson, North Carolina

Dear Mark:

Babb & Associates, P.A. has completed the 2009 first semi-annual monitoring event at the Wilson County MSWLF. On May 19, 2009, nine groundwater monitoring wells and five surface water stations were sampled and analyzed for Appendix I parameters. The samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B and inorganic compounds by EPA Method 6010B. Attached is Figure 1 that identifies sample locations and provides the potentiometric surface of the shallow groundwater.

No VOCs were detected at concentrations exceeding Solid Waste Section Limits (SWSL) in any of the nine groundwater monitoring wells. No VOCs were detected at concentrations exceeding the SWSLs in any of the five surface water samples

Inorganic compounds were detected at concentrations exceeding the SWSLs in seven of the nine groundwater monitoring wells (MW-1A, MW-3, MW-3A, MW-4, MW-5, MW-6, and MW-8). The inorganic compounds detected in the nine monitoring wells were below the established 2L Groundwater Standards.

Inorganic compounds were detected above the SWSLs in all five of the surface water samples collected. Only two inorganic compounds (barium and zinc) were detected above the SWSLs but below the established 2B Surface Water Standards.

No other parameters were detected at concentrations equaling or exceeding laboratory quantitation limits in the groundwater or surface water samples collected.

One trip blank was analyzed for volatile organic constituents for QA/QC purposes. The analysis of the trip blank indicated one detectable VOCs above the laboratory quantitation limit (methylene chloride – 0.440 ug/l).

P.O. Box 37697
Raleigh, NC 27627
(919) 325-0696

Statistical analysis was performed on five inorganic constituents detected in the groundwater during the 2009 first semi-annual sampling event. Statistically significant evidence of contamination was indicated in monitoring wells MW-3A, MW-4, and MW-5 (barium – 0.29 mg/l, 0.335 mg/l, and 0.65 mg/l, respectively). The reported concentration of barium in these three wells is well below the 2L Groundwater Standard of 2.0 mg/l. The statistical evaluation for the compound cobalt indicates a statistically significance increase at the 5% significance level. The compound cobalt was detected in monitoring well MW-6 only, at a concentration of 0.0341 mg/l. There is no 2L Groundwater Standard for the compound cobalt. The statistical analysis of the other constituents detected during this sampling event indicates no statistically significant increase in contaminant concentrations. The statistical analysis report is included on the attached compact disc.

The groundwater and surface water laboratory analytical results are summarized on Tables 1 and 2, respectively. A compact disc is attached that contains the laboratory analytical report (Excel and adobe acrobat format), a spreadsheet containing laboratory information (acrobat format), and data sheets summarizing sample information and field data (acrobat format).

If there are any questions regarding the attached information, please contact the undersigned at (919) 325-0696.

Respectfully,

Babb & Associates, P.A.

Gary D. Babb, P.G.
President

NORTH CAROLINA LICENSED SEAL 488 GEOLOGIST GARY D. BABB

Attachments

cc: Mr. Andy Davis, Director
Wilson County Solid Waste

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Babb & Associates, P.A.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Gary D. Babb Phone: (919) 325-0696

E-mail: gbabb@nc.rr.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Wilson County MSWLF	4537 Landfill Road Wilson, NC	98-01	.0500	May 19, 2009

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☒ No. No groundwater or surface water standards were exceeded.
☐ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Gary D. Babb, P.G. Licensed Geologist (919) 325-0696

Facility Representative Name (Print) Title (Area Code) Telephone Number

Gary D. Babb 7/2/2009 Affix NC Licensed/Professional Geologist Seal

Signature Date

NORTH CAROLINA LICENSED SEAL 488 GEOLOGIST GARY D. BABB

Babb & Associates, P.A., P.O. Box 37697, Raleigh, NC 27627

Facility Representative Address

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

TABLE 1

2009 First Semi-Annual Groundwater Laboratory Analytical Results
Wilson County MSWLF
Wilson, North Carolina
Permit #98-01

Parameter	MW-1A	MW-2	MW-3	MW-3A	MW-4	MW-5	MW-6	MW-7	MW-8	2L Std.
Metals (ppm)										
Antimony	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NE
Arsenic	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.05
Barium	**0.261 B**	0.0780 JB	0.0780 JB	**0.290 B**	**0.335 B**	**0.650 B**	0.0851 JB	0.0972 JB	0.0744 JB	2.0
Beryllium	BQL	BQL	0.00147 J	BQL	BQL	BQL	0.00338 J	BQL	BQL	NE
Cadmium	BQL	BQL	BQL	BQL	BQL	BQL	**0.00114**	BQL	BQL	0.00175
Chromium	0.00220 JB	0.00311 JB	0.00334 JB	0.00265 JB	0.00371 JB	0.00674 JB	0.00379 JB	0.00371 JB	0.00280 JB	0.05
Cobalt	0.00555 JB	0.00428 JB	0.00544 JB	0.00251 JB	0.00419 JB	0.00601 JB	**0.0341 B**	0.00434 JB	0.00787 JB	NE
Copper	0.00648 JB	0.00605 JB	0.00667 JB	0.00658 JB	0.00771 JB	0.00851 JB	0.00789 JB	0.00668 JB	0.00728 JB	1.0
Lead	0.00725 J	BQL	BQL	BQL	BQL	0.00724 J	BQL	BQL	BQL	0.015
Nickel	0.00415 J	BQL	0.00553 J	BQL	0.00249 J	0.00692 J	**0.0529**	0.00336 J	0.00409 J	0.10
Selenium	0.00389 J	0.00459 J	BQL	0.00331 J	0.00581 J	0.00736 J	0.00349 J	0.00371 J	BQL	0.05
Silver	0.00399 JB	0.00384 JB	0.00405	0.00382 JB	0.00423 JB	0.00440 JB	BQL	0.00414 JB	0.00315 JB	0.0175
Thallium	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NE
Vanadium	BQL	BQL	BQL	BQL	BQL	BQL	0.00901 J	BQL	BQL	NE
Zinc	0.00748 JB	0.00577 JB	**0.0133 B**	0.00492 JB	0.00861 JB	0.00543 JB	**0.0640 B**	0.00547 JB	**0.0111 B**	1.05
Method 8260B (ppb)										
Acetone	BQL	BQL	BQL	BQL	4.07 J	6.88 J	BQL	BQL	BQL	700
Benzene	BQL	BQL	BQL	BQL	0.270 J	BQL	BQL	BQL	BQL	1.0
Carbon Disulfide	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	700
1,1-Dichloroethane	BQL	BQL	BQL	BQL	0.370 J	BQL	BQL	0.230 J	BQL	700
cis-1,2-Dichloroethene	BQL	BQL	BQL	BQL	0.230 J	BQL	BQL	0.540 J	BQL	70
Tetrachloroethene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.210 J	BQL	0.7
Trichloroethene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.8
Total Xylene	BQL	BQL	BQL	BQL	BQL	0.550 J	BQL	BQL	BQL	530

Notes:
Samples collected on May 19, 2009
BQL - Below laboratory quantitation limit.
Bold concentrations equal or exceed laboratory quantitation limit.
Shaded concentrations equal or exceed established or interim standards.
NE - Not established.
J - Between MDL and RL
B - Amount in Prep Blank > MDL

TABLE 2

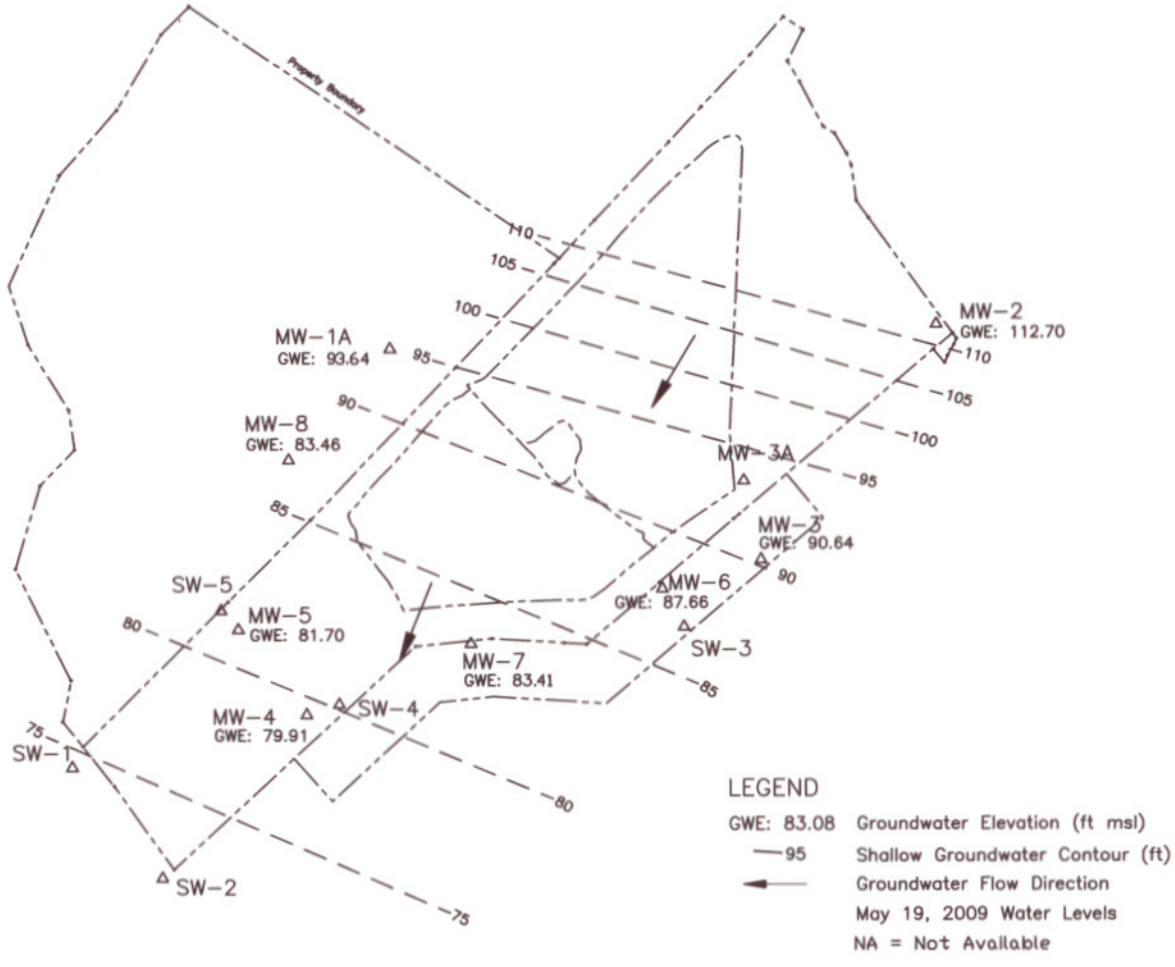
2009 First Semi-Annual Surface Water Laboratory Analytical Results
Wilson County MSWLF
Wilson, North Carolina
Permit #98-01

Parameter	SW-1	SW-2	SW-3	SW-4	SW-5	2B Std.
Metals (ppm)						
Barium	0.0642 JB	**0.1133 B**	**0.116 B**	**0.111 B**	0.0608 JB	1.0
Beryllium	BQL	BQL	BQL	BQL	BQL	0.0065
Chromium	0.00500 JB	0.00371 JB	0.00326 JB	0.00273 JB	0.00394 JB	0.050
Cobalt	0.00713 JB	0.00605 JB	0.00535 JB	0.00613 JB	0.00975 JB	NE
Copper	0.00774 JB	0.00791 JB	0.00714 JB	0.00750 JB	0.00769 JB	0.007
Lead	BQL	BQL	BQL	0.00687 J	BQL	0.025
Nickel	0.00265 J	BQL	BQL	BQL	0.00746 J	0.088
Selenium	0.00431 J	0.00299 J	BQL	0.00481 J	0.00493 J	0.005
Silver	0.00398 JB	0.00384 JB	0.00370 JB	0.00364 JB	0.00377 JB	0.00006
Thallium	BQL	BQL	BQL	BQL	BQL	NE
Vanadium	BQL	BQL	BQL	BQL	BQL	NE
Zinc	**0.0122 B**	**0.0116 B**	0.00566 JB	0.00651 JB	**0.0288 B**	0.050
Method 8260B (ppb)						
Acetone	5.52 J	3.13 J	2.94 J	2.46 J	3.41 J	NE
Benzene	BQL	BQL	BQL	BQL	BQL	1.190
Chlorobenzene	BQL	BQL	BQL	BQL	BQL	488
1,1-Dichloroethane	BQL	0.200 J	BQL	0.240 J	BQL	NE
cis-1,2-Dichloroethene	BQL	1.33 J	BQL	1.77 J	BQL	NE
Tetrachloroethene	BQL	BQL	BQL	BQL	BQL	0.7
Toluene	0.270 J	0.100 J	0.100 J	BQL	BQL	NE
Trichloroethene	BQL	BQL	BQL	0.170 J	BQL	NE
Vinyl Chloride	BQL	BQL	BQL	BQL	BQL	NE

Notes:
Samples collected on May 19, 2009
BQL - Below laboratory quantitation limit.
Bold concentrations equal or exceed laboratory quantitation limit.
Shaded concentrations equal or exceed established or interim standards.
NE - Not established.
NS - No Sample
J - Between MDL and RL
B - Amount in Prep Blank > MDL

TABLE 3
2009 First Semi-Annual Field Parameters
Wilson County MSWLF
Wilson, North Carolina
Permit #98-01

Monitoring Well	Sample Date	Sample Time	Conductivity	Temperature - C	pH
MW-1A	5/19/2009	1320	571	18.7	7.4
MW-2	5/19/2009	1508	120	18.4	4.5
MW-3	5/19/2009	1421	185	18.0	6.3
MW-3A	5/19/2009	1409	358	20.9	6.6
MW-4	5/19/2009	1438	223	13.7	6.2
MW-5	5/19/2009	1423	375	15.5	6.1
MW-6	5/19/2009	1435	419	17.1	4.1
MW-7	5/19/2009	1500	26	14.1	6.1
MW-8	5/19/2009	1341	253	18.8	7.3
SW-1	5/19/2009	1415	47	19.0	6.5
SW-2	5/19/2009	1432	31	14.3	7.4
SW-3	5/19/2009	1443	204	18.0	5.0
SW-4	5/19/2009	1447	26	14.8	7.5
SW-5	5/19/2009	1410	391	17.4	6.2



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Babb & Associates, P.A.

TITLE:	FIGURE NO:	SCALE:	PROJECT NO:
POTENTIOMETRIC MAP Wilson County Landfill State Road 1503 Wilson, North Carolina	Figure 1	1"=800'	WCLF
	CHECKED BY:	DRAWN BY:	DATE:
		G. Babb	5/19/09

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

MW ID#: MW-1A

Date Sampled: 5/19/09

Time Sampled: 1320

Sampled by: A. Duke

Weather conditions and temperature: Sunny & 80s

Unusual site conditions: none

Equipment used to collect groundwater level and well depth measurements: electric water level indicator

Equipment used for purging and groundwater sample collection: Teflon bailers

Top of casing (TOC) elevation (ft msl): 109.39

Depth to groundwater from TOC (ft): 15.75

Groundwater elevation from TOC (ft msl): 93.64

Depth to bottom of well from TOC (ft): 33.13

MW purging date and time: 5/19/09 - 930

Amount of purge water (gallons): 8.5

Field measurements:

pH	7.4
specific conductivity	571
temperature (C)	18.7

Number and type of sample containers and preservatives:

Method 8260: 3 x 40 mil vials w/HCl

App. I Metals & Hg: 1 x 500 mil plastic w/HNO_3

Comments: This is a new monitoring well replacing old MW-1A

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

MW ID#: MW-2

Date Sampled: 5/19/09

Time Sampled: 1508

Sampled by: A. Duke

Weather conditions and temperature: Sunny & 80s

Unusual site conditions: none

Equipment used to collect groundwater level and well depth measurements: electric water level indicator

Equipment used for purging and groundwater sample collection: Teflon bailers

Top of casing (TOC) elevation (ft msl): 120.04

Depth to groundwater from TOC (ft): 7.34

Groundwater elevation from TOC (ft msl): 112.70

Depth to bottom of well from TOC (ft): 15.03

MW purging date and time: 5/19/09 - 1240

Amount of purge water (gallons): 3.8

Field measurements:		
	pH	4.5
	specific conductivity	120
	temperature (C)	18.4

Number and type of sample containers and preservatives:

Method 8260: 3 x 40 mil vials w/HCl

App. I Metals & Hg: 1 x 500 mil plastic w/HNO_3

Comments: _____

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

MW ID#: MW-3

Date Sampled: 5/19/09

Time Sampled: 1421

Sampled by: A. Duke

Weather conditions and temperature: Sunny & 80s

Unusual site conditions: none

Equipment used to collect groundwater level and well depth measurements: electric water level indicator

Equipment used for purging and groundwater sample collection: Teflon bailers

Top of casing (TOC) elevation (ft msl): 108.14

Depth to groundwater from TOC (ft): 17.50

Groundwater elevation from TOC (ft msl): 90.64

Depth to bottom of well from TOC (ft): 23.0

MW purging date and time: 5/19/09 - 1145

Amount of purge water (gallons): 5.1

Field measurements:

pH	6.3
specific conductivity	185
temperature (C)	18.0

Number and type of sample containers and preservatives:

Method 8260: 3 x 40 mil vials w/HCl

App. I Metals & Hg: 1 x 500 mil plastic w/HNO_3

Comments: This is a new monitoring well replacing the old MW-3

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

MW ID#: MW-3A

Date Sampled: 5/19/09

Time Sampled: 1409

Sampled by: A. Duke

Weather conditions and temperature: Sunny & 80s

Unusual site conditions: none

Equipment used to collect groundwater level and well depth measurements: electric water level indicator

Equipment used for purging and groundwater sample collection: Teflon bailers

Top of casing (TOC) elevation (ft msl): 115.43

Depth to groundwater from TOC (ft): 18.97

Groundwater elevation from TOC (ft msl): 96.46

Depth to bottom of well from TOC (ft): 36.0

MW purging date and time: 5/19/09 - 1126

Amount of purge water (gallons): 8.3

Field measurements:

pH	6.6
specific conductivity	358
temperature (C)	20.9

Number and type of sample containers and preservatives:

Method 8260: 3 x 40 mil vials w/HCl

App. I Metals & Hg: 1 x 500 mil plastic w/HNO_3

Comments: _____

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

MW ID#: MW-4

Date Sampled: 5/19/09

Time Sampled: 1438

Sampled by: A. Duke

Weather conditions and temperature: Sunny & 80s

Unusual site conditions: none

Equipment used to collect groundwater level and well depth measurements: electric water level indicator

Equipment used for purging and groundwater sample collection: Teflon bailers

Top of casing (TOC) elevation (ft msl): 84.82

Depth to groundwater from TOC (ft): 4.91

Groundwater elevation from TOC (ft msl): 79.91

Depth to bottom of well from TOC (ft): 14.63

MW purging date and time: 5/19/09 - 1100

Amount of purge water (gallons): 4.7

Field measurements:

pH	6.2
specific conductivity	223
temperature (C)	13.7

Number and type of sample containers and preservatives:

Method 8260: 3 x 40 mil vials w/HCl

App. I Metals & Hg: 1 x 500 mil plastic w/HNO_3

Comments: _____

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

MW ID#: MW-5

Date Sampled: 5/19/09

Time Sampled: 1423

Sampled by: A. Duke

Weather conditions and temperature: Sunny & 80s

Unusual site conditions: none

Equipment used to collect groundwater level and well depth measurements: electric water level indicator

Equipment used for purging and groundwater sample collection: Teflon bailers

Top of casing (TOC) elevation (ft msl): 87.14

Depth to groundwater from TOC (ft): 5.44

Groundwater elevation from TOC (ft msl): 81.70

Depth to bottom of well from TOC (ft): 14.66

MW purging date and time: 5/19/09 - 1020

Amount of purge water (gallons): 4.5

Field measurements:

pH	6.1
specific conductivity	375
temperature (C)	15.5

Number and type of sample containers and preservatives:

Method 8260: 3 x 40 mil vials w/HCl

App. I Metals & Hg: 1 x 500 mil plastic w/HNO_3

Comments: _____

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

MW ID#: MW-6

Date Sampled: 5/19/09

Time Sampled: 1435

Sampled by: A. Duke

Weather conditions and temperature: Sunny & 80s

Unusual site conditions: none

Equipment used to collect groundwater level and well depth measurements: electric water level indicator

Equipment used for purging and groundwater sample collection: Teflon bailers

Top of casing (TOC) elevation (ft msl): 109.46

Depth to groundwater from TOC (ft): 21.80

Groundwater elevation from TOC (ft msl): 87.66

Depth to bottom of well from TOC (ft): 30.0

MW purging date and time: 5/19/09 - 1206

Amount of purge water (gallons): 4.0

Field measurements:		
	pH	4.1
	specific conductivity	419
	temperature (C)	17.1

Number and type of sample containers and preservatives:

Method 8260: 3 x 40 mil vials w/HCl

App. I Metals & Hg: 1 x 500 mil plastic w/HNO_3

Comments: _____

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

MW ID#: MW-7

Date Sampled: 5/19/09

Time Sampled: 1500

Sampled by: A. Duke

Weather conditions and temperature: Sunny & 80s

Unusual site conditions: none

Equipment used to collect groundwater level and well depth measurements: electric water level indicator

Equipment used for purging and groundwater sample collection: Teflon bailers

Top of casing (TOC) elevation (ft msl): 90.60

Depth to groundwater from TOC (ft): 7.19

Groundwater elevation from TOC (ft msl): 83.41

Depth to bottom of well from TOC (ft): 14.83

MW purging date and time: 5/19/09 - 1130

Amount of purge water (gallons): 3.7

Field measurements:

pH	6.1
specific conductivity	26
temperature (C)	14.1

Number and type of sample containers and preservatives:

Method 8260: 3 x 40 mil vials w/HCl

App. I Metals & Hg: 1 x 500 mil plastic w/HNO_3

Comments: _____

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

MW ID#: MW-8

Date Sampled: 5/19/09

Time Sampled: 1341

Sampled by: A. Duke

Weather conditions and temperature: Sunny & 80s

Unusual site conditions: none

Equipment used to collect groundwater level and well depth measurements: electric water level indicator

Equipment used for purging and groundwater sample collection: Teflon bailers

Top of casing (TOC) elevation (ft msl): 92.26

Depth to groundwater from TOC (ft): 8.80

Groundwater elevation from TOC (ft msl): 83.46

Depth to bottom of well from TOC (ft): 33.36

MW purging date and time: 5/19/09 - 1030

Amount of purge water (gallons): 6.9

Field measurements:		
	pH	7.3
	specific conductivity	253
	temperature (C)	18.8

Number and type of sample containers and preservatives:

Method 8260: 3 x 40 mil vials w/HCl

App. I Metals & Hg: 1 x 500 mil plastic w/HNO_3

Comments: This is a new well replacing old MW-8

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

SW ID#:	SW-1		
Date Sampled:	5/19/09		
Time Sampled:	1415		
Sampled by:	A. Duke		
Weather conditions and temperature:		Sunny & 80s	
Unusual site conditions:	dry		
Field measurements:	pH		6.5
	specific conductivity		47
	temperature (C)		19.0

Number and type of sample containers and preservatives:

Method 8260:	3 x 40 mil vials w/HCl
App. I Metals & Hg:	1 x 500 mil plastic w/HNO_3

Comments: _____

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SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

SW ID#:	SW-2		
Date Sampled:	5/19/09		
Time Sampled:	1432		
Sampled by:	A. Duke		
Weather conditions and temperature:		Sunny & 80s	
Unusual site conditions:	dry		
Field measurements:	pH		7.4
	specific conductivity		31
	temperature (C)		14.3

Number and type of sample containers and preservatives:

Method 8260:	3 x 40 mil vials w/HCl
App. I Metals & Hg:	1 x 500 mil plastic w/HNO_3

Comments: _____

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SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

SW ID#: SW-3

Date Sampled: 5/19/09

Time Sampled: 1443

Sampled by: A. Duke

Weather conditions and temperature: Sunny & 80s

Unusual site conditions:

Field measurements:	pH	5.0
	specific conductivity	204
	temperature (C)	18.0

Number and type of sample containers and preservatives:

Method 8260:	3 x 40 mil vials w/HCl
App. I Metals & Hg:	1 x 500 mil plastic w/HNO_3

Comments: _____

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_____

_____

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

SW ID#:	SW-4		
Date Sampled:	5/19/09		
Time Sampled:	1447		
Sampled by:	A. Duke		
Weather conditions and temperature:		Sunny & 80s	
Unusual site conditions:	none		
Field measurements:	pH		7.5
	specific conductivity		26
	temperature (C)		14.8

Number and type of sample containers and preservatives:

Method 8260:	3 x 40 mil vials w/HCl
App. I Metals & Hg:	1 x 500 mil plastic w/HNO_3

Comments: _____

_____

_____

_____

SAMPLE INFORMATION AND FIELD DATA

WILSON COUNTY LANDFILL
WILSON, NORTH CAROLINA

SW ID#:	SW-5		
Date Sampled:	5/19/09		
Time Sampled:	1410		
Sampled by:	A. Duke		
Weather conditions and temperature:		Sunny & 80s	
Unusual site conditions:	none		
Field measurements:	pH		6.2
	specific conductivity		391
	temperature (C)		17.4

Number and type of sample containers and preservatives:

Method 8260:	3 x 40 mil vials w/HCl
App. I Metals & Hg:	1 x 500 mil plastic w/HNO_3

Comments: _____

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Kruskal-Wallis Non-Parametric Test
Parameter: Barium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-2	12/2/1994	ND<0.5	55
	1/23/1995	ND<0.5	55
	3/20/1995	ND<0.5	55
	7/7/1995	ND<0.5	55
	11/2/1995	ND<0.5	55
	5/31/1996	ND<0.5	55
	11/20/1996	0.086	112
	7/2/1997	ND<0.5	55
	11/21/1997	ND<0.5	55
	6/22/1998	ND<0.5	55
	12/22/1998	ND<0.5	55
	7/23/1999	ND<0.5	55
	2/3/2000	ND<0.5	55
	7/27/2000	ND<0.5	55
	2/1/2001	ND<0.1	55
	10/3/2001	ND<0.1	55
	4/17/2002	ND<0.1	55
	11/20/2002	ND<0.1	55
	5/8/2003	ND<0.1	55
	11/20/2003	ND<0.1	55
	7/15/2004	ND<0.1	55
	12/15/2004	ND<0.01	55
	5/24/2005	ND<0.01	55
	12/14/2005	ND<0.01	55
	6/6/2006	ND<0.01	55
	11/7/2006	0.11	120
	6/12/2007	0.0905	113
	10/25/2007	0.552	174
	5/28/2008	ND<0.01	55
	11/11/2008	0.146	130
	5/19/2009	ND<0.01	55

Rank Sum = 2079
Rank Mean = 67.0645

Background Rank Sum = 2079
Background Rank Mean = 67.0645

Compliance Wells

Well ID	Date	Result	Rank
MW-4	12/2/1994	ND<0.5	55
	1/23/1995	1.027	195

	3/20/1995	0.786	189
	7/7/1995	0.511	170
	11/2/1995	ND<0.5	55
	5/31/1996	ND<0.5	55
	11/20/1996	0.42	168
	7/2/1997	ND<0.5	55
	11/21/1997	ND<0.5	55
	6/22/1998	ND<0.5	55
	12/22/1998	ND<0.5	55
	7/23/1999	ND<0.5	55
	2/3/2000	ND<0.5	55
	7/27/2000	ND<0.5	55
	2/1/2001	0.529	172
	10/3/2001	0.364	165
	4/17/2002	0.117	121
	11/20/2002	0.139	128
	5/8/2003	ND<0.1	55
	11/20/2003	0.187	136
	7/15/2004	ND<0.1	55
	12/15/2004	ND<0.1	55
	5/24/2005	ND<0.1	55
	12/14/2005	ND<0.1	55
	6/6/2006	ND<0.1	55
	11/7/2006	ND<0.1	55
	6/12/2007	0.359	164
	10/25/2007	0.382	166
	5/28/2008	0.271	149
	11/11/2008	0.226	141
	5/19/2009	0.335	160

Rank Sum = 3159
Rank Mean = 101.903

MW-5	12/2/1994	0.713	182
	1/23/1995	0.784	188
	3/20/1995	0.694	178
	7/7/1995	1.436	198
	11/2/1995	1.352	197
	5/31/1996	0.96	194
	11/20/1996	1.1	196
	7/2/1997	0.922	193
	11/21/1997	0.528	171
	6/22/1998	0.761	186
	12/22/1998	ND<0.5	55
	7/23/1999	ND<0.5	55
	2/3/2000	0.787	190
	7/27/2000	ND<0.5	55
	2/1/2001	0.829	192
	10/3/2001	0.536	173
	4/17/2002	0.431	169
	11/20/2002	0.696	179
	5/8/2003	0.335	161
	11/20/2003	0.405	167

	7/15/2004	0.625	175
	12/15/2004	0.825	191
	5/24/2005	0.721	184
	12/14/2005	0.705	181
	6/6/2006	0.717	183
	11/7/2006	0.768	187
	6/12/2007	0.725	185
	10/25/2007	0.236	143
	5/28/2008	0.697	180
	11/11/2008	0.681	177
	5/19/2009	0.65	176

Rank Sum = 5241
Rank Mean = 169.065

MW-3A	7/2/1997	ND<0.5	55
	11/21/1997	ND<0.5	55
	6/22/1998	ND<0.5	55
	12/22/1998	ND<0.5	55
	7/23/1999	ND<0.5	55
	2/3/2000	ND<0.5	55
	7/27/2000	ND<0.5	55
	2/1/2001	0.35	163
	10/3/2001	0.288	154
	4/17/2002	0.267	146
	11/20/2002	0.269	148
	5/8/2003	0.278	151
	11/20/2003	0.267	147
	7/15/2004	0.285	153
	12/15/2004	ND<0.01	55
	5/24/2005	ND<0.01	55
	12/14/2005	ND<0.01	55
	6/6/2006	ND<0.01	55
	11/7/2006	0.229	142
	6/12/2007	0.303	158
	10/25/2007	0.302	157
	5/28/2008	0.309	159
	11/11/2008	0.29	155
	5/19/2009	0.29	156

Rank Sum = 2594
Rank Mean = 108.083

MW-6	7/2/1997	ND<0.5	55
	11/21/1997	ND<0.5	55
	6/22/1998	ND<0.5	55
	12/22/1998	ND<0.5	55
	7/23/1999	ND<0.5	55
	2/3/2000	ND<0.5	55
	7/27/2000	ND<0.5	55
	2/1/2001	0.198	137
	10/3/2001	0.144	129
	4/17/2002	0.122	122
	11/20/2002	0.148	132

	5/8/2003	0.126	124
	11/20/2003	0.147	131
	7/15/2004	0.198	138
	12/15/2004	ND<0.01	55
	5/24/2005	ND<0.01	55
	12/14/2005	ND<0.01	55
	6/6/2006	ND<0.01	55
	11/7/2006	0.153	134
	6/12/2007	0.066	110
	10/25/2007	0.124	123
	5/28/2008	0.106	119
	11/11/2008	0.103	117
	5/19/2009	ND<0.01	55

Rank Sum = 2176
Rank Mean = 90.6667

MW-7	7/2/1997	ND<0.5	55
	11/21/1997	ND<0.5	55
	6/22/1998	ND<0.5	55
	12/22/1998	ND<0.5	55
	7/23/1999	ND<0.5	55
	2/3/2000	ND<0.5	55
	7/27/2000	ND<0.5	55
	2/1/2001	ND<0.1	55
	10/3/2001	ND<0.1	55
	4/17/2002	ND<0.1	55
	11/20/2002	ND<0.1	55
	5/8/2003	ND<0.1	55
	11/20/2003	0.199	139
	7/15/2004	0.157	135
	12/15/2004	ND<0.01	55
	5/24/2005	ND<0.01	55
	12/14/2005	ND<0.01	55
	6/6/2006	ND<0.01	55
	11/7/2006	ND<0.01	55
	6/12/2007	0.0991	114
	10/25/2007	ND<0.01	55
	5/28/2008	0.103	118
	11/11/2008	0.101	115
	5/19/2009	ND<0.01	55

Rank Sum = 1666
Rank Mean = 69.4167

MW-1A	7/15/2004	0.2	140
	12/15/2004	ND<0.01	55
	5/24/2005	ND<0.01	55
	12/14/2005	ND<0.01	55
	6/6/2006	ND<0.01	55
	11/7/2006	0.339	162
	6/12/2007	0.251	144
	10/25/2007	0.28	152
	5/28/2008	0.274	150

	11/11/2008	0.151	133
	5/19/2009	0.261	145

Rank Sum = 1246
Rank Mean = 113.273

MW-3	7/15/2004	ND<0.1	55
	12/15/2004	ND<0.1	55
	5/24/2005	ND<0.1	55
	12/14/2005	ND<0.1	55
	6/6/2006	ND<0.1	55
	11/7/2006	ND<0.1	55
	6/12/2007	0.076	111
	10/25/2007	ND<0.01	55
	5/28/2008	ND<0.01	55
	11/11/2008	ND<0.01	55
	5/19/2009	ND<0.01	55

Rank Sum = 661
Rank Mean = 60.0909

MW-8	7/15/2004	0.101	116
	12/15/2004	ND<0.01	55
	5/24/2005	ND<0.01	55
	12/14/2005	ND<0.01	55
	6/6/2006	ND<0.01	55
	11/7/2006	ND<0.01	55
	6/12/2007	0.129	125
	10/25/2007	0.138	127
	5/28/2008	0.131	126
	11/11/2008	ND<0.01	55
	5/19/2009	ND<0.01	55

Rank Sum = 879
Rank Mean = 79.9091

Calculation Results:
Kruskal-Wallis H Statistic = 70.5229
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 84.6435
95% Confidence comparison value is 15.5073 at 8 degrees of freedom
70.5229 > 15.5073 indicating a significant group difference at 5% significance level
84.6435 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison
1% Z score is 2.32634
Mean background rank is 67.0645

Well	Mean Rank	Dif from Bk	Critical Value
MW-4	101.903	34.8387	33.8592
MW-5	169.065	102	33.8592
MW-3A	108.083	41.0188	36.2441
MW-6	90.6667	23.6022	36.2441
MW-7	69.4167	2.35215	36.2441
MW-1A	113.273	46.2082	46.7832

MW-3	60.0909	-6.97361	46.7832
MW-8	79.9091	12.8446	46.7832

Individual Well Comparisons at Groupwise 5% Significance Level
(0.625% Significance Level per comparison)
0.625% Z score is 2.51213
Mean background rank is 67.0645

Well	Mean Rank	Dif from Bk	Critical Value
MW-4	101.903	34.8387	36.5633
MW-5	169.065	102	36.5633
MW-3A	108.083	41.0188	39.1387
MW-6	90.6667	23.6022	39.1387
MW-7	69.4167	2.35215	39.1387
MW-1A	113.273	46.2082	50.5195
MW-3	60.0909	-6.97361	50.5195
MW-8	79.9091	12.8446	50.5195

Kruskal-Wallis Non-Parametric Test
Parameter: Cadmium
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-2	12/2/1994	ND<0.001	86
	1/23/1995	ND<0.001	86
	3/20/1995	ND<0.001	86
	7/7/1995	ND<0.001	86
	11/2/1995	ND<0.001	86
	5/31/1996	ND<0.001	86
	11/20/1996	ND<0.001	86
	7/2/1997	ND<0.001	86
	11/21/1997	0.0108	198
	6/22/1998	ND<0.001	86
	12/22/1998	ND<0.001	86
	7/23/1999	ND<0.001	86
	2/3/2000	ND<0.001	86
	7/27/2000	ND<0.001	86
	2/1/2001	ND<0.005	86
	10/3/2001	ND<0.005	86
	4/17/2002	ND<0.01	86
	11/20/2002	ND<0.01	86
	5/8/2003	ND<0.01	86
	11/20/2003	ND<0.01	86
	7/15/2004	ND<0.01	86
	12/15/2004	ND<0.01	86
	5/24/2005	ND<0.01	86
	12/14/2005	0.00111	172

	6/6/2006	0.00157	182
	11/7/2006	ND<0.01	86
	6/12/2007	ND<0.01	86
	10/25/2007	0.00175	185
	5/28/2008	ND<0.01	86
	11/11/2008	ND<0.01	86
	5/19/2009	ND<0.01	86

Rank Sum = 3059
Rank Mean = 98.6774

Background Rank Sum = 3059
Background Rank Mean = 98.6774

Compliance Wells

Well ID	Date	Result	Rank
MW-4	12/2/1994	ND<0.001	86
	1/23/1995	ND<0.001	86
	3/20/1995	ND<0.001	86
	7/7/1995	ND<0.001	86
	11/2/1995	ND<0.001	86
	5/31/1996	ND<0.001	86
	11/20/1996	ND<0.001	86
	7/2/1997	0.0028	193
	11/21/1997	ND<0.001	86
	6/22/1998	0.0029	195
	12/22/1998	ND<0.001	86
	7/23/1999	0.0022	191
	2/3/2000	0.0019	187
	7/27/2000	ND<0.001	86
	2/1/2001	ND<0.005	86
	10/3/2001	ND<0.005	86
	4/17/2002	ND<0.01	86
	11/20/2002	ND<0.01	86
	5/8/2003	ND<0.01	86
	11/20/2003	ND<0.01	86
	7/15/2004	ND<0.01	86
	12/15/2004	ND<0.01	86
	5/24/2005	ND<0.01	86
	12/14/2005	ND<0.01	86
	6/6/2006	ND<0.01	86
	11/7/2006	ND<0.01	86
	6/12/2007	ND<0.01	86
	10/25/2007	ND<0.01	86
	5/28/2008	ND<0.01	86
	11/11/2008	ND<0.01	86
	5/19/2009	ND<0.01	86

Rank Sum = 3088
Rank Mean = 99.6129

MW-5	12/2/1994	ND<0.001	86
	1/23/1995	ND<0.001	86

	3/20/1995	ND<0.001	86
	7/7/1995	ND<0.001	86
	11/2/1995	ND<0.001	86
	5/31/1996	ND<0.001	86
	11/20/1996	ND<0.001	86
	7/2/1997	0.0033	196
	11/21/1997	ND<0.001	86
	6/22/1998	0.0028	194
	12/22/1998	0.0013	175
	7/23/1999	ND<0.001	86
	2/3/2000	0.0019	188
	7/27/2000	0.0013	176
	2/1/2001	ND<0.005	86
	10/3/2001	ND<0.005	86
	4/17/2002	ND<0.01	86
	11/20/2002	ND<0.01	86
	5/8/2003	ND<0.01	86
	11/20/2003	ND<0.01	86
	7/15/2004	ND<0.01	86
	12/15/2004	ND<0.01	86
	5/24/2005	ND<0.01	86
	12/14/2005	ND<0.01	86
	6/6/2006	0.00216	190
	11/7/2006	ND<0.01	86
	6/12/2007	ND<0.01	86
	10/25/2007	ND<0.01	86
	5/28/2008	ND<0.01	86
	11/11/2008	ND<0.01	86
	5/19/2009	ND<0.01	86

Rank Sum = 3269
Rank Mean = 105.452

MW-3A	7/2/1997	0.0013	177
	11/21/1997	ND<0.001	86
	6/22/1998	ND<0.001	86
	12/22/1998	ND<0.001	86
	7/23/1999	ND<0.001	86
	2/3/2000	ND<0.001	86
	7/27/2000	ND<0.001	86
	2/1/2001	ND<0.005	86
	10/3/2001	ND<0.005	86
	4/17/2002	ND<0.01	86
	11/20/2002	ND<0.01	86
	5/8/2003	ND<0.01	86
	11/20/2003	ND<0.01	86
	7/15/2004	ND<0.01	86
	12/15/2004	ND<0.01	86
	5/24/2005	ND<0.01	86
	12/14/2005	ND<0.01	86
	6/6/2006	0.00137	180
	11/7/2006	ND<0.01	86
	6/12/2007	ND<0.01	86

	10/25/2007	ND<0.01	86
	5/28/2008	ND<0.01	86
	11/11/2008	ND<0.01	86
	5/19/2009	ND<0.01	86

Rank Sum = 2249
Rank Mean = 93.7083

MW-6	7/2/1997	0.0016	183
	11/21/1997	ND<0.001	86
	6/22/1998	ND<0.001	86
	12/22/1998	ND<0.001	86
	7/23/1999	ND<0.001	86
	2/3/2000	ND<0.001	86
	7/27/2000	ND<0.001	86
	2/1/2001	ND<0.005	86
	10/3/2001	ND<0.005	86
	4/17/2002	ND<0.01	86
	11/20/2002	ND<0.01	86
	5/8/2003	ND<0.01	86
	11/20/2003	ND<0.01	86
	7/15/2004	ND<0.01	86
	12/15/2004	ND<0.01	86
	5/24/2005	ND<0.01	86
	12/14/2005	0.00165	184
	6/6/2006	0.00175	186
	11/7/2006	ND<0.01	86
	6/12/2007	ND<0.01	86
	10/25/2007	ND<0.01	86
	5/28/2008	ND<0.01	86
	11/11/2008	ND<0.01	86
	5/19/2009	0.00114	173

Rank Sum = 2446
Rank Mean = 101.917

MW-7	7/2/1997	0.0036	197
	11/21/1997	ND<0.001	86
	6/22/1998	ND<0.001	86
	12/22/1998	ND<0.001	86
	7/23/1999	ND<0.001	86
	2/3/2000	ND<0.001	86
	7/27/2000	ND<0.001	86
	2/1/2001	ND<0.005	86
	10/3/2001	ND<0.005	86
	4/17/2002	ND<0.01	86
	11/20/2002	ND<0.01	86
	5/8/2003	ND<0.01	86
	11/20/2003	ND<0.01	86
	7/15/2004	ND<0.01	86
	12/15/2004	ND<0.01	86
	5/24/2005	ND<0.01	86
	12/14/2005	0.00119	174
	6/6/2006	0.00199	189

	11/7/2006	ND<0.01	86
	6/12/2007	ND<0.01	86
	10/25/2007	ND<0.01	86
	5/28/2008	ND<0.01	86
	11/11/2008	ND<0.01	86
	5/19/2009	ND<0.01	86

Rank Sum = 2366
Rank Mean = 98.5833

MW-1A	7/15/2004	ND<0.01	86
	12/15/2004	ND<0.01	86
	5/24/2005	ND<0.01	86
	12/14/2005	ND<0.01	86
	6/6/2006	0.00141	181
	11/7/2006	ND<0.01	86
	6/12/2007	ND<0.01	86
	10/25/2007	ND<0.01	86
	5/28/2008	ND<0.01	86
	11/11/2008	ND<0.01	86
	5/19/2009	ND<0.01	86

Rank Sum = 1041
Rank Mean = 94.6364

MW-3	7/15/2004	ND<0.01	86
	12/15/2004	ND<0.01	86
	5/24/2005	ND<0.01	86
	12/14/2005	ND<0.01	86
	6/6/2006	0.00135	178
	11/7/2006	0.00135	179
	6/12/2007	ND<0.01	86
	10/25/2007	ND<0.01	86
	5/28/2008	ND<0.01	86
	11/11/2008	ND<0.01	86
	5/19/2009	ND<0.01	86

Rank Sum = 1131
Rank Mean = 102.818

MW-8	7/15/2004	ND<0.01	86
	12/15/2004	ND<0.01	86
	5/24/2005	ND<0.01	86
	12/14/2005	ND<0.01	86
	6/6/2006	0.00227	192
	11/7/2006	ND<0.01	86
	6/12/2007	ND<0.01	86
	10/25/2007	ND<0.01	86
	5/28/2008	ND<0.01	86
	11/11/2008	ND<0.01	86
	5/19/2009	ND<0.01	86

Rank Sum = 1052
Rank Mean = 95.6364

Calculation Results:
Kruskal-Wallis H Statistic = 0.801079
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 2.25119
95% Confidence comparison value is 15.5073 at 8 degrees of freedom
0.801079 < 15.5073 indicating no significant group difference at 5% significance level
2.25119 < 15.5073 indicating no significant group difference at 5% significance level when adjusted for ties

Kruskal-Wallis Non-Parametric Test
Parameter: Cobalt
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-2	12/2/1994	0.027	193
	1/23/1995	ND<0.01	87
	3/20/1995	ND<0.01	87
	7/7/1995	ND<0.01	87
	11/2/1995	0.012	180
	5/31/1996	ND<0.01	87
	11/20/1996	ND<0.002	87
	7/2/1997	ND<0.01	87
	11/21/1997	0.25	197
	6/22/1998	ND<0.01	87
	12/22/1998	ND<0.01	87
	7/23/1999	ND<0.01	87
	2/3/2000	ND<0.01	87
	7/27/2000	ND<0.01	87
	2/1/2001	ND<0.01	87
	10/3/2001	0.0136	183
	4/17/2002	ND<0.01	87
	11/20/2002	ND<0.01	87
	5/8/2003	ND<0.01	87
	11/20/2003	ND<0.01	87
	7/15/2004	ND<0.01	87
	12/15/2004	ND<0.01	87
	5/24/2005	ND<0.01	87
	12/14/2005	0.01	175
	6/6/2006	ND<0.01	87
	11/7/2006	ND<0.01	87
	6/12/2007	ND<0.01	87
	10/25/2007	0.405	198
	5/28/2008	ND<0.01	87
	11/11/2008	0.031	194
	5/19/2009	ND<0.01	87

Rank Sum = 3408
Rank Mean = 109.935

Background Rank Sum = 3408
Background Rank Mean = 109.935

Compliance Wells

Well ID	Date	Result	Rank
MW-4	12/2/1994	ND<0.01	87
	1/23/1995	ND<0.01	87
	3/20/1995	ND<0.01	87
	7/7/1995	ND<0.01	87
	11/2/1995	ND<0.01	87
	5/31/1996	ND<0.01	87
	11/20/1996	ND<0.002	87
	7/2/1997	ND<0.01	87
	11/21/1997	ND<0.01	87
	6/22/1998	ND<0.01	87
	12/22/1998	ND<0.01	87
	7/23/1999	ND<0.01	87
	2/3/2000	ND<0.01	87
	7/27/2000	ND<0.01	87
	2/1/2001	ND<0.01	87
	10/3/2001	ND<0.01	87
	4/17/2002	ND<0.01	87
	11/20/2002	ND<0.01	87
	5/8/2003	ND<0.01	87
	11/20/2003	ND<0.01	87
	7/15/2004	ND<0.01	87
	12/15/2004	ND<0.01	87
	5/24/2005	ND<0.01	87
	12/14/2005	ND<0.01	87
	6/6/2006	ND<0.01	87
	11/7/2006	ND<0.01	87
	6/12/2007	ND<0.01	87
	10/25/2007	ND<0.01	87
	5/28/2008	ND<0.01	87
	11/11/2008	ND<0.01	87
	5/19/2009	ND<0.01	87

Rank Sum = 2697
Rank Mean = 87

MW-5	12/2/1994	ND<0.01	87
	1/23/1995	ND<0.01	87
	3/20/1995	ND<0.01	87
	7/7/1995	ND<0.01	87
	11/2/1995	ND<0.01	87
	5/31/1996	ND<0.01	87
	11/20/1996	0.008	174
	7/2/1997	ND<0.01	87
	11/21/1997	ND<0.01	87
	6/22/1998	ND<0.01	87
	12/22/1998	0.0149	185

	7/23/1999	ND<0.01	87
	2/3/2000	ND<0.01	87
	7/27/2000	ND<0.01	87
	2/1/2001	ND<0.01	87
	10/3/2001	ND<0.01	87
	4/17/2002	0.014	184
	11/20/2002	ND<0.01	87
	5/8/2003	0.01	176
	11/20/2003	ND<0.01	87
	7/15/2004	ND<0.01	87
	12/15/2004	ND<0.01	87
	5/24/2005	ND<0.01	87
	12/14/2005	ND<0.01	87
	6/6/2006	ND<0.01	87
	11/7/2006	ND<0.01	87
	6/12/2007	ND<0.01	87
	10/25/2007	ND<0.01	87
	5/28/2008	ND<0.01	87
	11/11/2008	ND<0.01	87
	5/19/2009	ND<0.01	87

Rank Sum = 3068
Rank Mean = 98.9677

MW-3A	7/2/1997	ND<0.01	87
	11/21/1997	ND<0.01	87
	6/22/1998	ND<0.01	87
	12/22/1998	ND<0.01	87
	7/23/1999	ND<0.01	87
	2/3/2000	ND<0.01	87
	7/27/2000	ND<0.01	87
	2/1/2001	ND<0.01	87
	10/3/2001	ND<0.01	87
	4/17/2002	ND<0.01	87
	11/20/2002	ND<0.01	87
	5/8/2003	ND<0.01	87
	11/20/2003	ND<0.01	87
	7/15/2004	ND<0.01	87
	12/15/2004	ND<0.01	87
	5/24/2005	ND<0.01	87
	12/14/2005	ND<0.01	87
	6/6/2006	ND<0.01	87
	11/7/2006	ND<0.01	87
	6/12/2007	ND<0.01	87
	10/25/2007	ND<0.01	87
	5/28/2008	ND<0.01	87
	11/11/2008	ND<0.01	87
	5/19/2009	ND<0.01	87

Rank Sum = 2088
Rank Mean = 87

MW-6	7/2/1997	ND<0.01	87
	11/21/1997	ND<0.01	87

	6/22/1998	ND<0.01	87
	12/22/1998	ND<0.01	87
	7/23/1999	ND<0.01	87
	2/3/2000	0.0105	177
	7/27/2000	ND<0.01	87
	2/1/2001	0.0123	181
	10/3/2001	ND<0.01	87
	4/17/2002	ND<0.01	87
	11/20/2002	ND<0.01	87
	5/8/2003	0.0123	182
	11/20/2003	ND<0.01	87
	7/15/2004	0.0113	179
	12/15/2004	0.0105	178
	5/24/2005	0.0192	189
	12/14/2005	0.0159	186
	6/6/2006	0.0197	190
	11/7/2006	0.0191	188
	6/12/2007	0.0338	195
	10/25/2007	0.0181	187
	5/28/2008	0.0262	192
	11/11/2008	0.0216	191
	5/19/2009	0.0341	196

Rank Sum = 3481
Rank Mean = 145.042

MW-7	7/2/1997	ND<0.01	87
	11/21/1997	ND<0.01	87
	6/22/1998	ND<0.01	87
	12/22/1998	ND<0.01	87
	7/23/1999	ND<0.01	87
	2/3/2000	ND<0.01	87
	7/27/2000	ND<0.01	87
	2/1/2001	ND<0.01	87
	10/3/2001	ND<0.01	87
	4/17/2002	ND<0.01	87
	11/20/2002	ND<0.01	87
	5/8/2003	ND<0.01	87
	11/20/2003	ND<0.01	87
	7/15/2004	ND<0.01	87
	12/15/2004	ND<0.01	87
	5/24/2005	ND<0.01	87
	12/14/2005	ND<0.01	87
	6/6/2006	ND<0.01	87
	11/7/2006	ND<0.01	87
	6/12/2007	ND<0.01	87
	10/25/2007	ND<0.01	87
	5/28/2008	ND<0.01	87
	11/11/2008	ND<0.01	87
	5/19/2009	ND<0.01	87

Rank Sum = 2088
Rank Mean = 87

MW-1A	7/15/2004	ND<0.01	87
	12/15/2004	ND<0.01	87
	5/24/2005	ND<0.01	87
	12/14/2005	ND<0.01	87
	6/6/2006	ND<0.01	87
	11/7/2006	ND<0.01	87
	6/12/2007	ND<0.01	87
	10/25/2007	ND<0.01	87
	5/28/2008	ND<0.01	87
	11/11/2008	ND<0.01	87
	5/19/2009	ND<0.01	87

Rank Sum = 957
Rank Mean = 87

MW-3	7/15/2004	ND<0.01	87
	12/15/2004	ND<0.01	87
	5/24/2005	ND<0.01	87
	12/14/2005	ND<0.01	87
	6/6/2006	ND<0.01	87
	11/7/2006	ND<0.01	87
	6/12/2007	ND<0.01	87
	10/25/2007	ND<0.01	87
	5/28/2008	ND<0.01	87
	11/11/2008	ND<0.01	87
	5/19/2009	ND<0.01	87

Rank Sum = 957
Rank Mean = 87

MW-8	7/15/2004	ND<0.01	87
	12/15/2004	ND<0.01	87
	5/24/2005	ND<0.01	87
	12/14/2005	ND<0.01	87
	6/6/2006	ND<0.01	87
	11/7/2006	ND<0.01	87
	6/12/2007	ND<0.01	87
	10/25/2007	ND<0.01	87
	5/28/2008	ND<0.01	87
	11/11/2008	ND<0.01	87
	5/19/2009	ND<0.01	87

Rank Sum = 957
Rank Mean = 87

Calculation Results:
Kruskal-Wallis H Statistic = 21.5202
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 64.6294
95% Confidence comparison value is 15.5073 at 8 degrees of freedom
21.5202 > 15.5073 indicating a significant group difference at 5% significance level
64.6294 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 109.935

Well	Mean Rank	Dif from Bk	Critical Value
MW-4	87	-22.9355	33.8592
MW-5	98.9677	-10.9677	33.8592
MW-3A	87	-22.9355	36.2441
MW-6	145.042	35.1062	36.2441
MW-7	87	-22.9355	36.2441
MW-1A	87	-22.9355	46.7832
MW-3	87	-22.9355	46.7832
MW-8	87	-22.9355	46.7832

Individual Well Comparisons at Groupwise 5% Significance Level
(0.625% Significance Level per comparison)
0.625% Z score is 2.51213
Mean background rank is 109.935

Well	Mean Rank	Dif from Bk	Critical Value
MW-4	87	-22.9355	36.5633
MW-5	98.9677	-10.9677	36.5633
MW-3A	87	-22.9355	39.1387
MW-6	145.042	35.1062	39.1387
MW-7	87	-22.9355	39.1387
MW-1A	87	-22.9355	50.5195
MW-3	87	-22.9355	50.5195
MW-8	87	-22.9355	50.5195

Poisson Prediction Limit
Parameter: Nickel
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Recent Dates = 1
Poisson Count of 31 background Samples = 1.813
99% t-test = 2.45726
95% t-test = 1.69726

Well: MW-4
Number of comparisons = 1
Future Samples (k) = 1
c = 0.0322581
99% Prediction Limit (Tk) = 0.767437
95% Prediction Limit (Tk) = 0.524551

Samples	Sum	95 %tile	99 %tile
1	0.04	FALSE	FALSE

Well: MW-5
Number of comparisons = 1
Future Samples (k) = 1

c = 0.0322581
99% Prediction Limit (Tk) = 0.767437
95% Prediction Limit (Tk) = 0.524551

Samples	Sum	95 %tile	99 %tile
1	0.04	FALSE	FALSE

Well: MW-3A
Number of comparisons = 1
Future Samples (k) = 1
c = 0.0322581
99% Prediction Limit (Tk) = 0.767437
95% Prediction Limit (Tk) = 0.524551

Samples	Sum	95 %tile	99 %tile
1	0.04	FALSE	FALSE

Well: MW-6
Number of comparisons = 1
Future Samples (k) = 1
c = 0.0322581
99% Prediction Limit (Tk) = 0.767437
95% Prediction Limit (Tk) = 0.524551

Samples	Sum	95 %tile	99 %tile
1	0.0529	FALSE	FALSE

Well: MW-7
Number of comparisons = 1
Future Samples (k) = 1
c = 0.0322581
99% Prediction Limit (Tk) = 0.767437
95% Prediction Limit (Tk) = 0.524551

Samples	Sum	95 %tile	99 %tile
1	0.04	FALSE	FALSE

Well: MW-1A
Number of comparisons = 1
Future Samples (k) = 1
c = 0.0322581
99% Prediction Limit (Tk) = 0.767437
95% Prediction Limit (Tk) = 0.524551

Samples	Sum	95 %tile	99 %tile
1	0.04	FALSE	FALSE

Well: MW-3
Number of comparisons = 1
Future Samples (k) = 1
c = 0.0322581
99% Prediction Limit (Tk) = 0.767437
95% Prediction Limit (Tk) = 0.524551

Samples	Sum	95 %tile	99 %tile
1	0.04	FALSE	FALSE

Well: MW-8
Number of comparisons = 1
Future Samples (k) = 1
c = 0.0322581
99% Prediction Limit (Tk) = 0.767437
95% Prediction Limit (Tk) = 0.524551

Samples	Sum	95 %tile	99 %tile
1	0.04	FALSE	FALSE

Kruskal-Wallis Non-Parametric Test
Parameter: Zinc
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-2	12/2/1994	ND<0.05	85
	1/23/1995	ND<0.05	85
	3/20/1995	ND<0.05	85
	7/7/1995	ND<0.05	85
	11/2/1995	0.127	195
	5/31/1996	ND<0.05	85
	11/20/1996	ND<0.01	85
	7/2/1997	ND<0.05	85
	11/21/1997	0.121	194
	6/22/1998	ND<0.05	85
	12/22/1998	ND<0.05	85
	7/23/1999	ND<0.05	85
	2/3/2000	ND<0.05	85
	7/27/2000	ND<0.05	85
	2/1/2001	ND<0.05	85
	10/3/2001	ND<0.05	85
	4/17/2002	ND<0.02	85
	11/20/2002	ND<0.02	85

	5/8/2003	ND<0.02	85
	11/20/2003	ND<0.02	85
	7/15/2004	ND<0.02	85
	12/15/2004	ND<0.02	85
	5/24/2005	ND<0.02	85
	12/14/2005	ND<0.02	85
	6/6/2006	ND<0.02	85
	11/7/2006	ND<0.02	85
	6/12/2007	ND<0.02	85
	10/25/2007	0.142	196
	5/28/2008	ND<0.02	85
	11/11/2008	0.0251	180
	5/19/2009	ND<0.02	85

Rank Sum = 3060
Rank Mean = 98.7097

Background Rank Sum = 3060
Background Rank Mean = 98.7097

Compliance Wells

Well ID	Date	Result	Rank
MW-4	12/2/1994	ND<0.05	85
	1/23/1995	ND<0.05	85
	3/20/1995	ND<0.05	85
	7/7/1995	ND<0.05	85
	11/2/1995	0.06	189
	5/31/1996	ND<0.05	85
	11/20/1996	ND<0.01	85
	7/2/1997	ND<0.05	85
	11/21/1997	ND<0.05	85
	6/22/1998	ND<0.05	85
	12/22/1998	ND<0.05	85
	7/23/1999	ND<0.05	85
	2/3/2000	ND<0.05	85
	7/27/2000	ND<0.05	85
	2/1/2001	ND<0.05	85
	10/3/2001	ND<0.05	85
	4/17/2002	ND<0.02	85
	11/20/2002	ND<0.02	85
	5/8/2003	ND<0.02	85
	11/20/2003	ND<0.02	85
	7/15/2004	ND<0.02	85
	12/15/2004	ND<0.02	85
	5/24/2005	ND<0.02	85
	12/14/2005	ND<0.02	85
	6/6/2006	ND<0.02	85
	11/7/2006	ND<0.02	85
	6/12/2007	ND<0.02	85
	10/25/2007	ND<0.02	85
	5/28/2008	ND<0.02	85
	11/11/2008	ND<0.02	85

	5/19/2009	ND<0.02	85

Rank Sum = 2739
Rank Mean = 88.3548

MW-5	12/2/1994	ND<0.05	85
	1/23/1995	ND<0.05	85
	3/20/1995	ND<0.05	85
	7/7/1995	0.092	193
	11/2/1995	0.2	197
	5/31/1996	0.068	192
	11/20/1996	0.052	186
	7/2/1997	ND<0.05	85
	11/21/1997	ND<0.05	85
	6/22/1998	ND<0.05	85
	12/22/1998	ND<0.05	85
	7/23/1999	ND<0.05	85
	2/3/2000	ND<0.05	85
	7/27/2000	ND<0.05	85
	2/1/2001	ND<0.05	85
	10/3/2001	ND<0.05	85
	4/17/2002	ND<0.02	85
	11/20/2002	ND<0.02	85
	5/8/2003	ND<0.02	85
	11/20/2003	ND<0.02	85
	7/15/2004	ND<0.02	85
	12/15/2004	ND<0.02	85
	5/24/2005	ND<0.02	85
	12/14/2005	ND<0.02	85
	6/6/2006	ND<0.02	85
	11/7/2006	ND<0.02	85
	6/12/2007	ND<0.02	85
	10/25/2007	0.0228	177
	5/28/2008	ND<0.02	85
	11/11/2008	ND<0.02	85
	5/19/2009	ND<0.02	85

Rank Sum = 3155
Rank Mean = 101.774

MW-3A	7/2/1997	ND<0.05	85
	11/21/1997	ND<0.05	85
	6/22/1998	ND<0.05	85
	12/22/1998	ND<0.05	85
	7/23/1999	ND<0.05	85
	2/3/2000	ND<0.05	85
	7/27/2000	ND<0.05	85
	2/1/2001	ND<0.05	85
	10/3/2001	ND<0.05	85
	4/17/2002	ND<0.02	85
	11/20/2002	ND<0.02	85
	5/8/2003	ND<0.02	85
	11/20/2003	ND<0.02	85
	7/15/2004	ND<0.02	85

	12/15/2004	ND<0.02	85
	5/24/2005	ND<0.02	85
	12/14/2005	ND<0.02	85
	6/6/2006	ND<0.02	85
	11/7/2006	0.0232	178
	6/12/2007	0.0101	170
	10/25/2007	ND<0.02	85
	5/28/2008	ND<0.02	85
	11/11/2008	ND<0.02	85
	5/19/2009	ND<0.02	85

Rank Sum = 2218
Rank Mean = 92.4167

MW-6	7/2/1997	0.286	198
	11/21/1997	ND<0.05	85
	6/22/1998	ND<0.05	85
	12/22/1998	ND<0.05	85
	7/23/1999	ND<0.05	85
	2/3/2000	0.0593	188
	7/27/2000	ND<0.05	85
	2/1/2001	0.0286	181
	10/3/2001	ND<0.05	85
	4/17/2002	ND<0.02	85
	11/20/2002	ND<0.02	85
	5/8/2003	ND<0.02	85
	11/20/2003	ND<0.02	85
	7/15/2004	0.0234	179
	12/15/2004	ND<0.02	85
	5/24/2005	ND<0.02	85
	12/14/2005	ND<0.02	85
	6/6/2006	ND<0.02	85
	11/7/2006	0.0501	185
	6/12/2007	0.0653	191
	10/25/2007	0.0389	182
	5/28/2008	0.053	187
	11/11/2008	0.0471	183
	5/19/2009	0.064	190

Rank Sum = 3054
Rank Mean = 127.25

MW-7	7/2/1997	ND<0.05	85
	11/21/1997	ND<0.05	85
	6/22/1998	ND<0.05	85
	12/22/1998	ND<0.05	85
	7/23/1999	ND<0.05	85
	2/3/2000	ND<0.05	85
	7/27/2000	ND<0.05	85
	2/1/2001	ND<0.05	85
	10/3/2001	ND<0.05	85
	4/17/2002	ND<0.02	85
	11/20/2002	ND<0.02	85
	5/8/2003	ND<0.02	85

	11/20/2003	ND<0.02	85
	7/15/2004	ND<0.02	85
	12/15/2004	ND<0.02	85
	5/24/2005	ND<0.02	85
	12/14/2005	ND<0.02	85
	6/6/2006	ND<0.02	85
	11/7/2006	ND<0.02	85
	6/12/2007	ND<0.02	85
	10/25/2007	ND<0.02	85
	5/28/2008	ND<0.02	85
	11/11/2008	ND<0.02	85
	5/19/2009	ND<0.02	85

Rank Sum = 2040
Rank Mean = 85

MW-1A	7/15/2004	ND<0.02	85
	12/15/2004	ND<0.02	85
	5/24/2005	ND<0.02	85
	12/14/2005	ND<0.02	85
	6/6/2006	ND<0.02	85
	11/7/2006	0.0478	184
	6/12/2007	0.0135	174
	10/25/2007	ND<0.02	85
	5/28/2008	ND<0.02	85
	11/11/2008	ND<0.02	85
	5/19/2009	ND<0.02	85

Rank Sum = 1123
Rank Mean = 102.091

MW-3	7/15/2004	ND<0.02	85
	12/15/2004	ND<0.02	85
	5/24/2005	ND<0.02	85
	12/14/2005	ND<0.02	85
	6/6/2006	ND<0.02	85
	11/7/2006	ND<0.02	85
	6/12/2007	ND<0.02	85
	10/25/2007	ND<0.02	85
	5/28/2008	ND<0.02	85
	11/11/2008	ND<0.02	85
	5/19/2009	0.0133	173

Rank Sum = 1023
Rank Mean = 93

MW-8	7/15/2004	ND<0.02	85
	12/15/2004	ND<0.02	85
	5/24/2005	ND<0.02	85
	12/14/2005	ND<0.02	85
	6/6/2006	ND<0.02	85
	11/7/2006	0.0203	176
	6/12/2007	0.0174	175
	10/25/2007	ND<0.02	85
	5/28/2008	0.013	172

11/11/2008	ND<0.02	85
5/19/2009	0.0111	171

Rank Sum = 1289
Rank Mean = 117.182

Calculation Results:
Kruskal-Wallis H Statistic = 9.97098
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 26.3653
95% Confidence comparison value is 15.5073 at 8 degrees of freedom
9.97098 < 15.5073 indicating no significant group difference at 5% significance level
26.3653 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison
1% Z score is 2.32634
Mean background rank is 98.7097

Well	Mean Rank	Dif from Bk	Critical Value
MW-4	88.3548	-10.3548	33.8592
MW-5	101.774	3.06452	33.8592
MW-3A	92.4167	-6.29301	36.2441
MW-6	127.25	28.5403	36.2441
MW-7	85	-13.7097	36.2441
MW-1A	102.091	3.38123	46.7832
MW-3	93	-5.70968	46.7832
MW-8	117.182	18.4721	46.7832

Individual Well Comparisons at Groupwise 5% Significance Level
(0.625% Significance Level per comparison)
0.625% Z score is 2.51213
Mean background rank is 98.7097

Well	Mean Rank	Dif from Bk	Critical Value
MW-4	88.3548	-10.3548	36.5633
MW-5	101.774	3.06452	36.5633
MW-3A	92.4167	-6.29301	39.1387
MW-6	127.25	28.5403	39.1387
MW-7	85	-13.7097	39.1387
MW-1A	102.091	3.38123	50.5195
MW-3	93	-5.70968	50.5195
MW-8	117.182	18.4721	50.5195

SGS

Gary Babb
Babb & Associate
P.O. Box 37697
Raleigh, NC 27627

Report Number: G121-421

Client Project: WC

Dear Gary Babb,

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Lori Lockamy at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS Environmental Services, Inc.

6/8/09

Project Manager
Lori Lockamy

Date

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List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:
1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.021808.4

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-1A
Client Project ID: WC
Lab Sample ID: G121-421-1B
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 13:20
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	5/30/2009	
Acetonitrile	BQL	55.0	2.58	1	5/30/2009	
Acrylonitrile	BQL	200	2.93	1	5/30/2009	
Benzene	BQL	1.00	0.0650	1	5/30/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/30/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/30/2009	
Bromoform	BQL	3.00	0.120	1	5/30/2009	
Bromomethane	BQL	10.0	0.133	1	5/30/2009	
2-butanone	BQL	100	0.544	1	5/30/2009	
Carbon disulfide	BQL	100	0.0690	1	5/30/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/30/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/30/2009	
Chloroethane	BQL	10.0	0.106	1	5/30/2009	
Chloroform	BQL	5.00	0.0790	1	5/30/2009	
Chloromethane	BQL	1.00	0.146	1	5/30/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/30/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/30/2009	
Dibromomethane	BQL	10.0	0.113	1	5/30/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/30/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/30/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/30/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/30/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/30/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/30/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/30/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/30/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/30/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/30/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/30/2009	
2-hexanone	BQL	50.0	0.720	1	5/30/2009	
Iodomethane	BQL	10.0	0.0420	1	5/30/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/30/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/30/2009	
Styrene	BQL	1.00	0.0850	1	5/30/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/30/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/30/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/30/2009	
Toluene	BQL	1.00	0.0760	1	5/30/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/30/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/30/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/30/2009	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-1A
Client Project ID: WC
Lab Sample ID: G121-421-1B
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 13:20
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/30/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/30/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/30/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/30/2009	
Total Xylene	BQL	5.00	0.0650	1	5/30/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.53	95
Toluene-d8	10	9.89	99
4-Bromofluorobenzene	10	9.73	97

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: DVO

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-2
Client Project ID: WC
Lab Sample ID: G121-421-2B
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 15:08
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	5/30/2009	
Acetonitrile	BQL	55.0	2.58	1	5/30/2009	
Acrylonitrile	BQL	200	2.93	1	5/30/2009	
Benzene	BQL	1.00	0.0650	1	5/30/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/30/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/30/2009	
Bromoform	BQL	3.00	0.120	1	5/30/2009	
Bromomethane	BQL	10.0	0.133	1	5/30/2009	
2-butanone	BQL	100	0.544	1	5/30/2009	
Carbon disulfide	BQL	100	0.0690	1	5/30/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/30/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/30/2009	
Chloroethane	BQL	10.0	0.106	1	5/30/2009	
Chloroform	BQL	5.00	0.0790	1	5/30/2009	
Chloromethane	BQL	1.00	0.146	1	5/30/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/30/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/30/2009	
Dibromomethane	BQL	10.0	0.113	1	5/30/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/30/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/30/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/30/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/30/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/30/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/30/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/30/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/30/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/30/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/30/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/30/2009	
2-hexanone	BQL	50.0	0.720	1	5/30/2009	
Iodomethane	BQL	10.0	0.0420	1	5/30/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/30/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/30/2009	
Styrene	BQL	1.00	0.0850	1	5/30/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/30/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/30/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/30/2009	
Toluene	BQL	1.00	0.0760	1	5/30/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/30/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/30/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/30/2009	

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-2
Client Project ID: WC
Lab Sample ID: G121-421-2B
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 15:08
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/30/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/30/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/30/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/30/2009	
Total Xylene	BQL	5.00	0.0650	1	5/30/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.59	96
Toluene-d8	10	9.95	99
4-Bromofluorobenzene	10	9.75	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: DVO

Reviewed By: CBA

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-3
Client Project ID: WC
Lab Sample ID: G121-421-3B
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 14:21
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	5/30/2009	
Acetonitrile	BQL	55.0	2.58	1	5/30/2009	
Acrylonitrile	BQL	200	2.93	1	5/30/2009	
Benzene	BQL	1.00	0.0650	1	5/30/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/30/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/30/2009	
Bromoform	BQL	3.00	0.120	1	5/30/2009	
Bromomethane	BQL	10.0	0.133	1	5/30/2009	
2-butanone	BQL	100	0.544	1	5/30/2009	
Carbon disulfide	BQL	100	0.0690	1	5/30/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/30/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/30/2009	
Chloroethane	BQL	10.0	0.106	1	5/30/2009	
Chloroform	BQL	5.00	0.0790	1	5/30/2009	
Chloromethane	BQL	1.00	0.146	1	5/30/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/30/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/30/2009	
Dibromomethane	BQL	10.0	0.113	1	5/30/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/30/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/30/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/30/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/30/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/30/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/30/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/30/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/30/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/30/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/30/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/30/2009	
2-hexanone	BQL	50.0	0.720	1	5/30/2009	
Iodomethane	BQL	10.0	0.0420	1	5/30/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/30/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/30/2009	
Styrene	BQL	1.00	0.0850	1	5/30/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/30/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/30/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/30/2009	
Toluene	BQL	1.00	0.0760	1	5/30/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/30/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/30/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/30/2009	

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-3
Client Project ID: WC
Lab Sample ID: G121-421-3B
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 14:21
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/30/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/30/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/30/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/30/2009	
Total Xylene	BQL	5.00	0.0650	1	5/30/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.77	98
Toluene-d8	10	9.9	99
4-Bromofluorobenzene	10	9.55	96

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: OVO

Reviewed By: CH

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-3A
Client Project ID: WC
Lab Sample ID: G121-421-4A
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 14:09
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	5/30/2009	
Acetonitrile	BQL	55.0	2.58	1	5/30/2009	
Acrylonitrile	BQL	200	2.93	1	5/30/2009	
Benzene	BQL	1.00	0.0650	1	5/30/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/30/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/30/2009	
Bromoform	BQL	3.00	0.120	1	5/30/2009	
Bromomethane	BQL	10.0	0.133	1	5/30/2009	
2-butanone	BQL	100	0.544	1	5/30/2009	
Carbon disulfide	BQL	100	0.0690	1	5/30/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/30/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/30/2009	
Chloroethane	BQL	10.0	0.106	1	5/30/2009	
Chloroform	BQL	5.00	0.0790	1	5/30/2009	
Chloromethane	BQL	1.00	0.146	1	5/30/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/30/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/30/2009	
Dibromomethane	BQL	10.0	0.113	1	5/30/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/30/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/30/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/30/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/30/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/30/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/30/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/30/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/30/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/30/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/30/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/30/2009	
2-hexanone	BQL	50.0	0.720	1	5/30/2009	
Iodomethane	BQL	10.0	0.0420	1	5/30/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/30/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/30/2009	
Styrene	BQL	1.00	0.0850	1	5/30/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/30/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/30/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/30/2009	
Toluene	BQL	1.00	0.0760	1	5/30/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/30/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/30/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/30/2009	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-3A
Client Project ID: WC
Lab Sample ID: G121-421-4A
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 14:09
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/30/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/30/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/30/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/30/2009	
Total Xylene	BQL	5.00	0.0650	1	5/30/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.68	97
Toluene-d8	10	9.93	99
4-Bromofluorobenzene	10	9.62	96

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: DVO

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-4
Client Project ID: WC
Lab Sample ID: G121-421-5A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:38
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	**4.07**	100	2.18	1	5/31/2009	J
Acetonitrile	BQL	55.0	2.58	1	5/31/2009	
Acrylonitrile	BQL	200	2.93	1	5/31/2009	
Benzene	**0.270**	1.00	0.0650	1	5/31/2009	J
Bromochloromethane	BQL	3.00	0.101	1	5/31/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/31/2009	
Bromoform	BQL	3.00	0.120	1	5/31/2009	
Bromomethane	BQL	10.0	0.133	1	5/31/2009	
2-butanone	BQL	100	0.544	1	5/31/2009	
Carbon disulfide	BQL	100	0.0690	1	5/31/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/31/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/31/2009	
Chloroethane	BQL	10.0	0.106	1	5/31/2009	
Chloroform	BQL	5.00	0.0790	1	5/31/2009	
Chloromethane	BQL	1.00	0.146	1	5/31/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/31/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/31/2009	
Dibromomethane	BQL	10.0	0.113	1	5/31/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/31/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/31/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/31/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/31/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/31/2009	
1,1-Dichloroethane	**0.370**	5.00	0.0740	1	5/31/2009	J
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/31/2009	
cis-1,2-Dichloroethene	**0.230**	5.00	0.0650	1	5/31/2009	J
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/31/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/31/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/31/2009	
2-hexanone	BQL	50.0	0.720	1	5/31/2009	
Iodomethane	BQL	10.0	0.0420	1	5/31/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/31/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/31/2009	
Styrene	BQL	1.00	0.0850	1	5/31/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/31/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/31/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/31/2009	
Toluene	BQL	1.00	0.0760	1	5/31/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/31/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/31/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/31/2009	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-4
Client Project ID: WC
Lab Sample ID: G121-421-5A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:38
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/31/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/31/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/31/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/31/2009	
Total Xylene	BQL	5.00	0.0650	1	5/31/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.4	104
Toluene-d8	10	10.4	104
4-Bromofluorobenzene	10	10.6	106

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-5
Client Project ID: WC
Lab Sample ID: G121-421-6A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:23
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	**6.88**	100	2.18	1	5/31/2009	J
Acetonitrile	BQL	55.0	2.58	1	5/31/2009	
Acrylonitrile	BQL	200	2.93	1	5/31/2009	
Benzene	BQL	1.00	0.0650	1	5/31/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/31/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/31/2009	
Bromoform	BQL	3.00	0.120	1	5/31/2009	
Bromomethane	BQL	10.0	0.133	1	5/31/2009	
2-butanone	BQL	100	0.544	1	5/31/2009	
Carbon disulfide	BQL	100	0.0690	1	5/31/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/31/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/31/2009	
Chloroethane	BQL	10.0	0.106	1	5/31/2009	
Chloroform	BQL	5.00	0.0790	1	5/31/2009	
Chloromethane	BQL	1.00	0.146	1	5/31/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/31/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/31/2009	
Dibromomethane	BQL	10.0	0.113	1	5/31/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/31/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/31/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/31/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/31/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/31/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/31/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/31/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/31/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/31/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/31/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/31/2009	
2-hexanone	BQL	50.0	0.720	1	5/31/2009	
Iodomethane	BQL	10.0	0.0420	1	5/31/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/31/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/31/2009	
Styrene	BQL	1.00	0.0850	1	5/31/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/31/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/31/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/31/2009	
Toluene	BQL	1.00	0.0760	1	5/31/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/31/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/31/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/31/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	5/31/2009	

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-5
Client Project ID: WC
Lab Sample ID: G121-421-6A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:23
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/31/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/31/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/31/2009	
Total Xylene	**0.550**	5.00	0.0650	1	5/31/2009	J

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.7	97
Toluene-d8	10	9.92	99
4-Bromofluorobenzene	10	10.3	103

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-6
Client Project ID: WC
Lab Sample ID: G121-421-7A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:35
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	5/31/2009	
Acetonitrile	BQL	55.0	2.58	1	5/31/2009	
Acrylonitrile	BQL	200	2.93	1	5/31/2009	
Benzene	BQL	1.00	0.0650	1	5/31/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/31/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/31/2009	
Bromoform	BQL	3.00	0.120	1	5/31/2009	
Bromomethane	BQL	10.0	0.133	1	5/31/2009	
2-butanone	BQL	100	0.544	1	5/31/2009	
Carbon disulfide	BQL	100	0.0690	1	5/31/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/31/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/31/2009	
Chloroethane	BQL	10.0	0.106	1	5/31/2009	
Chloroform	BQL	5.00	0.0790	1	5/31/2009	
Chloromethane	BQL	1.00	0.146	1	5/31/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/31/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/31/2009	
Dibromomethane	BQL	10.0	0.113	1	5/31/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/31/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/31/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/31/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/31/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/31/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/31/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/31/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/31/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/31/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/31/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/31/2009	
2-hexanone	BQL	50.0	0.720	1	5/31/2009	
Iodomethane	BQL	10.0	0.0420	1	5/31/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/31/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/31/2009	
Styrene	BQL	1.00	0.0850	1	5/31/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/31/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/31/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/31/2009	
Toluene	BQL	1.00	0.0760	1	5/31/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/31/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/31/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/31/2009	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-6
Client Project ID: WC
Lab Sample ID: G121-421-7A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:35
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/31/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/31/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/31/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/31/2009	
Total Xylene	BQL	5.00	0.0650	1	5/31/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.2	102
Toluene-d8	10	10.5	105
4-Bromofluorobenzene	10	10.8	108

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: [signature]

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-7
Client Project ID: WC
Lab Sample ID: G121-421-8A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 15:00
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	5/31/2009	
Acetonitrile	BQL	55.0	2.58	1	5/31/2009	
Acrylonitrile	BQL	200	2.93	1	5/31/2009	
Benzene	BQL	1.00	0.0650	1	5/31/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/31/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/31/2009	
Bromoform	BQL	3.00	0.120	1	5/31/2009	
Bromomethane	BQL	10.0	0.133	1	5/31/2009	
2-butanone	BQL	100	0.544	1	5/31/2009	
Carbon disulfide	BQL	100	0.0690	1	5/31/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/31/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/31/2009	
Chloroethane	BQL	10.0	0.106	1	5/31/2009	
Chloroform	BQL	5.00	0.0790	1	5/31/2009	
Chloromethane	BQL	1.00	0.146	1	5/31/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/31/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/31/2009	
Dibromomethane	BQL	10.0	0.113	1	5/31/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/31/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/31/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/31/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/31/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/31/2009	
1,1-Dichloroethane	**0.230**	5.00	0.0740	1	5/31/2009	J
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/31/2009	
cis-1,2-Dichloroethene	**0.540**	5.00	0.0650	1	5/31/2009	J
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/31/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/31/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/31/2009	
2-hexanone	BQL	50.0	0.720	1	5/31/2009	
Iodomethane	BQL	10.0	0.0420	1	5/31/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/31/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/31/2009	
Styrene	BQL	1.00	0.0850	1	5/31/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/31/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/31/2009	
Tetrachloroethene	**0.210**	1.00	0.0690	1	5/31/2009	J
Toluene	BQL	1.00	0.0760	1	5/31/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/31/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/31/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/31/2009	

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-7
Client Project ID: WC
Lab Sample ID: G121-421-8A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 15:00
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/31/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/31/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/31/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/31/2009	
Total Xylene	BQL	5.00	0.0650	1	5/31/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	10.4	104
4-Bromofluorobenzene	10	10.9	109

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-8
Client Project ID: WC
Lab Sample ID: G121-421-9A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 13:41
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	5/31/2009	
Acetonitrile	BQL	55.0	2.58	1	5/31/2009	
Acrylonitrile	BQL	200	2.93	1	5/31/2009	
Benzene	BQL	1.00	0.0650	1	5/31/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/31/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/31/2009	
Bromoform	BQL	3.00	0.120	1	5/31/2009	
Bromomethane	BQL	10.0	0.133	1	5/31/2009	
2-butanone	BQL	100	0.544	1	5/31/2009	
Carbon disulfide	BQL	100	0.0690	1	5/31/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/31/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/31/2009	
Chloroethane	BQL	10.0	0.106	1	5/31/2009	
Chloroform	BQL	5.00	0.0790	1	5/31/2009	
Chloromethane	BQL	1.00	0.146	1	5/31/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/31/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/31/2009	
Dibromomethane	BQL	10.0	0.113	1	5/31/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/31/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/31/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/31/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/31/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/31/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/31/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/31/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/31/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/31/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/31/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/31/2009	
2-hexanone	BQL	50.0	0.720	1	5/31/2009	
Iodomethane	BQL	10.0	0.0420	1	5/31/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/31/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/31/2009	
Styrene	BQL	1.00	0.0850	1	5/31/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/31/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/31/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/31/2009	
Toluene	BQL	1.00	0.0760	1	5/31/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/31/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/31/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/31/2009	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: MW-8
Client Project ID: WC
Lab Sample ID: G121-421-9A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 13:41
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/31/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/31/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/31/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/31/2009	
Total Xylene	BQL	5.00	0.0650	1	5/31/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	10.3	103
4-Bromofluorobenzene	10	10.8	108

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: SW-1
Client Project ID: WC
Lab Sample ID: G121-421-10A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:15
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	**5.52**	100	2.18	1	5/31/2009	J
Acetonitrile	BQL	55.0	2.58	1	5/31/2009	
Acrylonitrile	BQL	200	2.93	1	5/31/2009	
Benzene	BQL	1.00	0.0650	1	5/31/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/31/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/31/2009	
Bromoform	BQL	3.00	0.120	1	5/31/2009	
Bromomethane	BQL	10.0	0.133	1	5/31/2009	
2-butanone	BQL	100	0.544	1	5/31/2009	
Carbon disulfide	BQL	100	0.0690	1	5/31/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/31/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/31/2009	
Chloroethane	BQL	10.0	0.106	1	5/31/2009	
Chloroform	BQL	5.00	0.0790	1	5/31/2009	
Chloromethane	BQL	1.00	0.146	1	5/31/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/31/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/31/2009	
Dibromomethane	BQL	10.0	0.113	1	5/31/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/31/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/31/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/31/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/31/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/31/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/31/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/31/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/31/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/31/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/31/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/31/2009	
2-hexanone	BQL	50.0	0.720	1	5/31/2009	
Iodomethane	BQL	10.0	0.0420	1	5/31/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/31/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/31/2009	
Styrene	BQL	1.00	0.0850	1	5/31/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/31/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/31/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/31/2009	
Toluene	BQL	1.00	0.0760	1	5/31/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/31/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/31/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/31/2009	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: SW-1
Client Project ID: WC
Lab Sample ID: G121-421-10A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:15
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/31/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/31/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/31/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/31/2009	
Total Xylene	BQL	5.00	0.0650	1	5/31/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	10.3	103
4-Bromofluorobenzene	10	10.5	105

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: [illegible]

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: SW-2
Client Project ID: WC
Lab Sample ID: G121-421-11A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:32
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	**3.13**	100	2.18	1	5/31/2009	J
Acetonitrile	BQL	55.0	2.58	1	5/31/2009	
Acrylonitrile	BQL	200	2.93	1	5/31/2009	
Benzene	BQL	1.00	0.0650	1	5/31/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/31/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/31/2009	
Bromoform	BQL	3.00	0.120	1	5/31/2009	
Bromomethane	BQL	10.0	0.133	1	5/31/2009	
2-butanone	BQL	100	0.544	1	5/31/2009	
Carbon disulfide	BQL	100	0.0690	1	5/31/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/31/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/31/2009	
Chloroethane	BQL	10.0	0.106	1	5/31/2009	
Chloroform	BQL	5.00	0.0790	1	5/31/2009	
Chloromethane	BQL	1.00	0.146	1	5/31/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/31/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/31/2009	
Dibromomethane	BQL	10.0	0.113	1	5/31/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/31/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/31/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/31/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/31/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/31/2009	
1,1-Dichloroethane	**0.200**	5.00	0.0740	1	5/31/2009	J
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/31/2009	
cis-1,2-Dichloroethene	**1.33**	5.00	0.0650	1	5/31/2009	J
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/31/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/31/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/31/2009	
2-hexanone	BQL	50.0	0.720	1	5/31/2009	
Iodomethane	BQL	10.0	0.0420	1	5/31/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/31/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/31/2009	
Styrene	BQL	1.00	0.0850	1	5/31/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/31/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/31/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/31/2009	
Toluene	**0.100**	1.00	0.0760	1	5/31/2009	J
Trichloroethene	BQL	1.00	0.0540	1	5/31/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/31/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/31/2009	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: SW-2
Client Project ID: WC
Lab Sample ID: G121-421-11A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:32
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/31/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/31/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/31/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/31/2009	
Total Xylene	BQL	5.00	0.0650	1	5/31/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.5	105
Toluene-d8	10	10.2	102
4-Bromofluorobenzene	10	10.2	102

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: [illegible]

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: SW-3
Client Project ID: WC
Lab Sample ID: G121-421-12B
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:43
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	**2.94**	100	2.18	1	5/31/2009	J
Acetonitrile	BQL	55.0	2.58	1	5/31/2009	
Acrylonitrile	BQL	200	2.93	1	5/31/2009	
Benzene	BQL	1.00	0.0650	1	5/31/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/31/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/31/2009	
Bromoform	BQL	3.00	0.120	1	5/31/2009	
Bromomethane	BQL	10.0	0.133	1	5/31/2009	
2-butanone	BQL	100	0.544	1	5/31/2009	
Carbon disulfide	BQL	100	0.0690	1	5/31/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/31/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/31/2009	
Chloroethane	BQL	10.0	0.106	1	5/31/2009	
Chloroform	BQL	5.00	0.0790	1	5/31/2009	
Chloromethane	BQL	1.00	0.146	1	5/31/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/31/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/31/2009	
Dibromomethane	BQL	10.0	0.113	1	5/31/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/31/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/31/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/31/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/31/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/31/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/31/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/31/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/31/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/31/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/31/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/31/2009	
2-hexanone	BQL	50.0	0.720	1	5/31/2009	
Iodomethane	BQL	10.0	0.0420	1	5/31/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/31/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/31/2009	
Styrene	BQL	1.00	0.0850	1	5/31/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/31/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/31/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/31/2009	
Toluene	**0.100**	1.00	0.0760	1	5/31/2009	J
Trichloroethene	BQL	1.00	0.0540	1	5/31/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/31/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/31/2009	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: SW-3
Client Project ID: WC
Lab Sample ID: G121-421-12B
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:43
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/31/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/31/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/31/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/31/2009	
Total Xylene	BQL	5.00	0.0650	1	5/31/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	10.4	104
4-Bromofluorobenzene	10	10.8	108

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: SW-4
Client Project ID: WC
Lab Sample ID: G121-421-13A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:47
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	**2.46**	100	2.18	1	5/31/2009	J
Acetonitrile	BQL	55.0	2.58	1	5/31/2009	
Acrylonitrile	BQL	200	2.93	1	5/31/2009	
Benzene	BQL	1.00	0.0650	1	5/31/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/31/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/31/2009	
Bromoform	BQL	3.00	0.120	1	5/31/2009	
Bromomethane	BQL	10.0	0.133	1	5/31/2009	
2-butanone	BQL	100	0.544	1	5/31/2009	
Carbon disulfide	BQL	100	0.0690	1	5/31/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/31/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/31/2009	
Chloroethane	BQL	10.0	0.106	1	5/31/2009	
Chloroform	BQL	5.00	0.0790	1	5/31/2009	
Chloromethane	BQL	1.00	0.146	1	5/31/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/31/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/31/2009	
Dibromomethane	BQL	10.0	0.113	1	5/31/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/31/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/31/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/31/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/31/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/31/2009	
1,1-Dichloroethane	**0.240**	5.00	0.0740	1	5/31/2009	J
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/31/2009	
cis-1,2-Dichloroethene	**1.77**	5.00	0.0650	1	5/31/2009	J
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/31/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/31/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/31/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/31/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/31/2009	
2-hexanone	BQL	50.0	0.720	1	5/31/2009	
Iodomethane	BQL	10.0	0.0420	1	5/31/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/31/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/31/2009	
Styrene	BQL	1.00	0.0850	1	5/31/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/31/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/31/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/31/2009	
Toluene	BQL	1.00	0.0760	1	5/31/2009	
Trichloroethene	**0.170**	1.00	0.0540	1	5/31/2009	J
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/31/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/31/2009	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: SW-4
Client Project ID: WC
Lab Sample ID: G121-421-13A
Lab Project ID: G121-421

Analyzed By: DVO
Date Collected: 5/19/2009 14:47
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/31/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/31/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/31/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/31/2009	
Total Xylene	BQL	5.00	0.0650	1	5/31/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	10.3	103
4-Bromofluorobenzene	10	10.7	107

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: SW-5
Client Project ID: WC
Lab Sample ID: G121-421-14A
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 14:10
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	**3.41**	100	2.18	1	5/30/2009	J
Acetonitrile	BQL	55.0	2.58	1	5/30/2009	
Acrylonitrile	BQL	200	2.93	1	5/30/2009	
Benzene	BQL	1.00	0.0650	1	5/30/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/30/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/30/2009	
Bromoform	BQL	3.00	0.120	1	5/30/2009	
Bromomethane	BQL	10.0	0.133	1	5/30/2009	
2-butanone	BQL	100	0.544	1	5/30/2009	
Carbon disulfide	BQL	100	0.0690	1	5/30/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/30/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/30/2009	
Chloroethane	BQL	10.0	0.106	1	5/30/2009	
Chloroform	BQL	5.00	0.0790	1	5/30/2009	
Chloromethane	BQL	1.00	0.146	1	5/30/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/30/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/30/2009	
Dibromomethane	BQL	10.0	0.113	1	5/30/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/30/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/30/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/30/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/30/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/30/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/30/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/30/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/30/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/30/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/30/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/30/2009	
2-hexanone	BQL	50.0	0.720	1	5/30/2009	
Iodomethane	BQL	10.0	0.0420	1	5/30/2009	
Methylene chloride	BQL	1.00	0.0980	1	5/30/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/30/2009	
Styrene	BQL	1.00	0.0850	1	5/30/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/30/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/30/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/30/2009	
Toluene	BQL	1.00	0.0760	1	5/30/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/30/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/30/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/30/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	5/30/2009	

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: SW-5
Client Project ID: WC
Lab Sample ID: G121-421-14A
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 14:10
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/30/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/30/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/30/2009	
Total Xylene	BQL	5.00	0.0650	1	5/30/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.5	105
Toluene-d8	10	10.4	104
4-Bromofluorobenzene	10	10.7	107

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: DVO

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: TB
Client Project ID: WC
Lab Sample ID: G121-421-15A
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 0:00
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	100	2.18	1	5/30/2009	
Acetonitrile	BQL	55.0	2.58	1	5/30/2009	
Acrylonitrile	BQL	200	2.93	1	5/30/2009	
Benzene	BQL	1.00	0.0650	1	5/30/2009	
Bromochloromethane	BQL	3.00	0.101	1	5/30/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	5/30/2009	
Bromoform	BQL	3.00	0.120	1	5/30/2009	
Bromomethane	BQL	10.0	0.133	1	5/30/2009	
2-butanone	BQL	100	0.544	1	5/30/2009	
Carbon disulfide	BQL	100	0.0690	1	5/30/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	5/30/2009	
Chlorobenzene	BQL	3.00	0.0820	1	5/30/2009	
Chloroethane	BQL	10.0	0.106	1	5/30/2009	
Chloroform	BQL	5.00	0.0790	1	5/30/2009	
Chloromethane	BQL	1.00	0.146	1	5/30/2009	
Dibromochloromethane	BQL	3.00	0.0900	1	5/30/2009	
1,2-Dibromo-3-chloropropane	BQL	13.0	1.21	1	5/30/2009	
Dibromomethane	BQL	10.0	0.113	1	5/30/2009	
1,2-Dibromoethane	BQL	1.00	0.124	1	5/30/2009	
1,2-Dichlorobenzene	BQL	5.00	0.127	1	5/30/2009	
1,3-Dichlorobenzene	BQL	5.00	0.0810	1	5/30/2009	
1,4-Dichlorobenzene	BQL	5.00	0.0790	1	5/30/2009	
t-1,4-Dichloro-2-butene	BQL	50.5	0.630	1	5/30/2009	
1,1-Dichloroethane	BQL	5.00	0.0740	1	5/30/2009	
1,1-Dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	5/30/2009	
cis-1,2-Dichloroethene	BQL	5.00	0.0650	1	5/30/2009	
t-1,2-dichloroethene	BQL	5.00	0.0890	1	5/30/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	5/30/2009	
1,1-Dichloropropene	BQL	5.00	0.0720	1	5/30/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
t-1,3-Dichloropropene	BQL	1.00	0.0760	1	5/30/2009	
Ethylbenzene	BQL	1.00	0.0770	1	5/30/2009	
2-hexanone	BQL	50.0	0.720	1	5/30/2009	
Iodomethane	BQL	10.0	0.0420	1	5/30/2009	
Methylene chloride	**4.40**	1.00	0.0980	1	5/30/2009	
4-methyl-2-pentanone	BQL	100	0.550	1	5/30/2009	
Styrene	BQL	1.00	0.0850	1	5/30/2009	
1,1,1,2-Tetrachloroethane	BQL	5.00	0.0900	1	5/30/2009	
1,1,2,2-Tetrachloroethane	BQL	3.00	0.115	1	5/30/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	5/30/2009	
Toluene	BQL	1.00	0.0760	1	5/30/2009	
Trichloroethene	BQL	1.00	0.0540	1	5/30/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	5/30/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	5/30/2009	

SGS North America, Inc.

Results for Volatiles
by GCMS 8260 Appendix I

Client Sample ID: TB
Client Project ID: WC
Lab Sample ID: G121-421-15A
Lab Project ID: G121-421

Analyzed By: MJC
Date Collected: 5/19/2009 0:00
Date Received: 5/20/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	SWSL Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Trichlorofluoromethane	BQL	1.00	0.111	1	5/30/2009	
1,2,3-Trichloropropane	BQL	1.00	0.120	1	5/30/2009	
Vinyl acetate	BQL	50.0	0.100	1	5/30/2009	
Vinyl chloride	BQL	1.00	0.149	1	5/30/2009	
Total Xylene	BQL	5.00	0.0650	1	5/30/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.54	95
Toluene-d8	10	9.9	99
4-Bromofluorobenzene	10	9.76	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Analyst: OVO

Reviewed By: [illegible]

Results for Metals

Client Sample ID:	MW-1A	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 13:20
Lab Sample ID:	G121-421-1	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.261**	0.100	0.00206	1	MG/L	6010B	5/22/2009	B
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00220**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00555**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00648**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	**0.00725**	0.0100	0.00679	1	MG/L	6010B	5/22/2009	J
Nickel	**0.00415**	0.0500	0.00236	1	MG/L	6010B	5/22/2009	J
Selenium	**0.00389**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	**0.00399**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.00748**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	MW-2	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 15:08
Lab Sample ID:	G121-421-2	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.0780**	0.100	0.00206	1	MG/L	6010B	5/22/2009	JB
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00311**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00428**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00605**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	BQL	0.0500	0.00236	1	MG/L	6010B	5/22/2009	
Selenium	**0.00459**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	**0.00384**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.00577**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By:
METALS.XLS

Results for Metals

Client Sample ID:	MW-3	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 14:21
Lab Sample ID:	G121-421-3	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.0780**	0.100	0.00206	1	MG/L	6010B	5/22/2009	JB
Beryllium	**0.00147**	0.0100	0.000442	10	MG/L	6020	5/26/2009	J
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00334**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00544**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00667**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	**0.00553**	0.0500	0.00236	1	MG/L	6010B	5/22/2009	J
Selenium	BQL	0.0100	0.00278	1	MG/L	6010B	5/22/2009	
Silver	**0.00405**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.0133**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	MW-3A			Analyzed By:	PSW
Client Project ID:	WC			Date Collected:	5/19/2009 14:09
Lab Sample ID:	G121-421-4			Date Received:	5/20/2009
Lab Project ID:	G121-421			Matrix:	WATER
ICP InitWt/Vol:	50 mL	Final Vol:	50 mL		
Hg InitWt/Vol:		Final Vol:			
Prep Batch:	14296				

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.290**	0.100	0.00206	1	MG/L	6010B	5/22/2009	B
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00265**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00251**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00658**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	BQL	0.0500	0.00236	1	MG/L	6010B	5/22/2009	
Selenium	**0.00331**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	**0.00382**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.00492**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	MW-4	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 14:38
Lab Sample ID:	G121-421-5	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.335**	0.100	0.00206	1	MG/L	6010B	5/22/2009	B
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00371**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00419**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00771**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	**0.00249**	0.0500	0.00236	1	MG/L	6010B	5/22/2009	J
Selenium	**0.00581**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	**0.00423**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.00861**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	MW-5	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 14:23
Lab Sample ID:	G121-421-6	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.650**	0.100	0.00206	1	MG/L	6010B	5/22/2009	B
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00674**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00601**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00851**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	**0.00724**	0.0100	0.00679	1	MG/L	6010B	5/22/2009	J
Nickel	**0.00692**	0.0500	0.00236	1	MG/L	6010B	5/22/2009	J
Selenium	**0.00736**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	**0.00440**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.00543**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	MW-6	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 14:35
Lab Sample ID:	G121-421-7	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.0851**	0.100	0.00206	1	MG/L	6010B	5/22/2009	JB
Beryllium	**0.00338**	0.0100	0.000442	10	MG/L	6020	5/26/2009	J
Cadmium	**0.00114**	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00379**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.0341**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	B
Copper	**0.00789**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	**0.0529**	0.0500	0.00236	1	MG/L	6010B	5/22/2009	
Selenium	**0.00349**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	BQL	0.0100	0.000656	1	MG/L	6010B	5/22/2009	B
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	**0.00901**	0.0250	0.000586	10	MG/L	6020	5/26/2009	J
Zinc	**0.0640**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By:
METALS.XLS

Results for Metals

Client Sample ID:	MW-7	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 15:00
Lab Sample ID:	G121-421-8	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.0972**	0.100	0.00206	1	MG/L	6010B	5/22/2009	JB
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00371**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00434**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00668**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	**0.00336**	0.0500	0.00236	1	MG/L	6010B	5/22/2009	J
Selenium	**0.00371**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	**0.00414**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.00547**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	MW-8	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 13:41
Lab Sample ID:	G121-421-9	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.0744**	0.100	0.00206	1	MG/L	6010B	5/22/2009	JB
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00280**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00787**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00728**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	**0.00409**	0.0500	0.00236	1	MG/L	6010B	5/22/2009	J
Selenium	BQL	0.0100	0.00278	1	MG/L	6010B	5/22/2009	
Silver	**0.00315**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.0111**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	SW-1	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 14:15
Lab Sample ID:	G121-421-10	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.0642**	0.100	0.00206	1	MG/L	6010B	5/22/2009	JB
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00500**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00713**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00774**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	**0.00265**	0.0500	0.00236	1	MG/L	6010B	5/22/2009	J
Selenium	**0.00431**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	**0.00398**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.0122**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	SW-2	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 14:32
Lab Sample ID:	G121-421-11	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.113**	0.100	0.00206	1	MG/L	6010B	5/22/2009	B
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00371**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00605**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00791**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	BQL	0.0500	0.00236	1	MG/L	6010B	5/22/2009	
Selenium	**0.00299**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	**0.00384**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.0116**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

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Results for Metals

Client Sample ID:	SW-3	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 14:43
Lab Sample ID:	G121-421-12	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.116**	0.100	0.00206	1	MG/L	6010B	5/22/2009	B
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00326**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00535**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00714**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	BQL	0.0500	0.00236	1	MG/L	6010B	5/22/2009	
Selenium	BQL	0.0100	0.00278	1	MG/L	6010B	5/22/2009	
Silver	**0.00370**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.00566**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

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METALS.XLS

Results for Metals

Client Sample ID:	SW-4			Analyzed By:	PSW
Client Project ID:	WC			Date Collected:	5/19/2009 14:47
Lab Sample ID:	G121-421-13			Date Received:	5/20/2009
Lab Project ID:	G121-421			Matrix:	WATER
ICP InitWt/Vol:	50 mL	Final Vol:	50 mL		
Hg InitWt/Vol:		Final Vol:			
Prep Batch:	14296				

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.111**	0.100	0.00206	1	MG/L	6010B	5/22/2009	B
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00273**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00613**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00750**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	**0.00687**	0.0100	0.00679	1	MG/L	6010B	5/22/2009	J
Nickel	BQL	0.0500	0.00236	1	MG/L	6010B	5/22/2009	
Selenium	**0.00481**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	**0.00364**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.00651**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

Results for Metals

Client Sample ID:	SW-5	Analyzed By:	PSW
Client Project ID:	WC	Date Collected:	5/19/2009 14:10
Lab Sample ID:	G121-421-14	Date Received:	5/20/2009
Lab Project ID:	G121-421	Matrix:	WATER
ICP InitWt/Vol:	50 mL Final Vol: 50 mL		
Hg InitWt/Vol:	Final Vol:		
Prep Batch:	14296		

Metals	Result	SWSL	MDL	DF	Units	Method	Date Analyzed	Flags
Antimony	BQL	0.00600	0.00295	1	MG/L	6010B	5/22/2009	
Arsenic	BQL	0.0100	0.00491	1	MG/L	6010B	5/22/2009	
Barium	**0.0608**	0.100	0.00206	1	MG/L	6010B	5/22/2009	JB
Beryllium	BQL	0.0100	0.000442	10	MG/L	6020	5/26/2009	
Cadmium	BQL	0.00100	0.000158	10	MG/L	6020	5/26/2009	
Chromium	**0.00394**	0.0100	0.00146	1	MG/L	6010B	5/22/2009	JB
Cobalt	**0.00975**	0.0100	0.00172	1	MG/L	6010B	5/22/2009	JB
Copper	**0.00769**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	JB
Lead	BQL	0.0100	0.00679	1	MG/L	6010B	5/22/2009	
Nickel	**0.00746**	0.0500	0.00236	1	MG/L	6010B	5/22/2009	J
Selenium	**0.00493**	0.0100	0.00278	1	MG/L	6010B	5/22/2009	J
Silver	**0.00377**	0.0100	0.000656	1	MG/L	6010B	5/22/2009	JB
Thallium	BQL	0.0550	0.000198	10	MG/L	6020	6/5/2009	
Vanadium	BQL	0.0250	0.000586	10	MG/L	6020	5/26/2009	
Zinc	**0.0288**	0.0100	0.00129	1	MG/L	6010B	5/22/2009	B

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL

Reviewed By: _____
METALS.XLS

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Ohio

www.us.sgs.com

(1)

CLIENT: Babb + Associates

CONTACT: Gary Babb PHONE NO: 919 325 0696

PROJECT: WC SITE/PWSID# :

REPORTS TO: Babb + Associates EMAIL: g.babb@nc.rr.com

INVOICE TO: Babb + Associates QUOTE #:

P.O. #:

SGS Reference #: G121-421

page 1 of 2

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	App I 8260 (HCL)	App I Metals (HNO3)								REMARKS/ LOC ID
1	MW-1A	5-19-09	1320	W	4	G	X	X								
2	MW-2		1508		4		X	X								
3	MW-3		1421		4		X	X								
4	MW-3A		1409		4		X	X								
5	MW-4		1438		4		X	X								
6	MW-5		1423		4		X	X								
7	MW-6		1435		4		X	X								
8	MW-7		1500		4		X	X								
9	MW-8		1341		4		X	X								
10	SW-1		1415		4		X	X								

(3) Analysis Required

(4)

DOD Project? YES NO

Cooler ID _____

Special Deliverable Requirements:

Requested Turnaround Time and-or Special Instructions:

Samples Received Cold? (YES) NO

Temperature°C: Cooler 5.9°C . TB _____

Chain of Custody Seal: (Circle) INTACT BROKEN (ABSENT)

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	5-19-09	1630	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:
	5/20/09	1020	[signature]

N.C. Certification #481

SGS North America, Inc.

❑ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
❑ 550 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms and conditions.htm

White - Retained by Lab
Pink - Retained by Client

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Ohio

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SGS Reference #: G121-421

page 2 of 2

(1)

CLIENT: Babb + Associates

CONTACT: Gary Babb PHONE NO: 919 325 0696

PROJECT: WC SITE/PWSID# :

REPORTS TO: Babb + Associates EMAIL: g.babb@nc.rr.com

INVOICE TO: Babb + Associate QUOTE #:

P.O. #:

(2)

LAB NO.	SAMPLE IDENTIFICATION	~~DATE~~ Time	~~TIME~~ DATE	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	App I 8260	App I metals	REMARKS/ LOC ID
						Preservatives Used	HCL	HNO3	
11	SW-2	1432	5-19-09	W	4	G	X	X	
12	SW-3	1443	↓	↓	4	↓	X	X	
13	SW-4	1447			4		X	X	
14	SW-5	1410			4		X	X	
15	TB				2		X		

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	5-19-09	1630	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

DOD Project? YES NO

Cooler ID _____

Special Deliverable Requirements:

Requested Turnaround Time and-or Special Instructions:

Samples Received Cold? YES NO

Cooler TB

Temperature°C: _____ . _____

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

N.C. Certification #481

SGS North America, Inc.

❑ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
❑ 550 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms and conditions.htm

White - Retained by Lab
Pink - Retained by Client