



Miller Springs Remediation Management, Inc.

An affiliate of Glenn Springs Holdings, Inc.

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April 13, 2007

Mr. Paul Olivo
Western New York Remediation Section
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
290 Broadway, 20th Floor
New York, NY 10007-1866

Dear Mr. Olivo:

Re: Quarterly Report - First Quarter 2007 (January through March)
Administrative Orders
Hooker Chemical/Ruco Polymer Corporation Site
Index Nos. II-CERCLA-80216, II-CERCLA-94-0210, and II-CERCLA-02-2001-2018

Consistent with Sections 42, 91, and 55 of the above-referenced orders and the USEPA approved 100% Biosparge System Design Report, this letter and attached Table 1 provide the Quarterly Progress Report covering January through March 2007. This report covers OU-1, OU-2 and OU-3. Please note that the next Quarterly Progress Report will be submitted by July 15, 2007 and will cover April through June 2007.

The following activities were performed in January through March 2007.

Operable Unit-1

- i) A meeting was held with Bayer on January 11, 2007 regarding Bayer actions to complete the investigations and necessary remedies.

Operable Unit-2

No activities performed this quarter.

Operable Unit-3

- i) Operation and monitoring of the GP-1/GP-3 supplemental treatment system. The carbon bed was changed out on February 6, 2007.
- ii) Pre-start sampling for the Biosparge System was performed on October 24, 25, and 26, 2006. Wells MW-58 and MW-59 were also sampled during this event. Well MW-62 was not

sampled as access permission from the landowner has not been received. The groundwater analytical results and QA/QC review for these samples are attached.

- iii) The Final Inspection of the Biosparge System was held at the Site on October 27, 2006. One minor item (i.e., the amendment pump) was not operational during the Final Inspection as permission for use of treated Northrop water had not been received. Approval for use of the treated Northrop water was received on November 13, 2006. The USEPA has been informed that the pump is operational.
- iv) The groundwater analytical results and QA/QC reviews for the November and December 2006 monthly performance monitoring and the November 2006 soil/gas analytical results and QA/QC review are attached.

Also attached is a summary of the results of the field parameters monitored during the groundwater sampling events (see Table 2). These results show that dissolved oxygen (DO) is increasing in the monitoring wells. The increases are occurring at different rates in the wells.

The biosparge system was shut down on November 18, 2006 due to the observed release of pressurized groundwater and air from monitoring well MW-61D2 during the injection of air into well IW-16D1A. The USEPA was verbally informed of this release on November 20, 2006. Based on the estimated volume of groundwater discharged and the most recent groundwater concentrations for Well MW-61D2, the calculated mass discharged was not a reportable quantity. A soil sample collected on November 29, 2006 confirmed that there has been no impact to the soil in the area around well MW-61D2. The analytical results from this sample (see Table 2C of QA/QC review for October, November, and December 2006 results) were all non-detect. The biosparge system was restarted the week of January 19, 2007 after completion of the system modifications.

The O&M Plan and HASP were modified to incorporate procedures to be followed in the event of this type of release. These were included in the documents submitted to the USEPA on February 1, 2007.

Injection of treated water from Northrop's Tower 96 (GP-1/GP-3) system started on January 22, 2007 at a flow rate of 10 gpm and has been ongoing since that time.

A Certificate of Occupancy was received from the Town of Oyster Bay Department of Planning and Development was received on January 11, 2007.

A reminder regarding the annual testing and maintenance of the backflow prevention device was received from the Hicksville Water District on January 6, 2007. The report on the testing, which showed the device was functioning property, was submitted to the District on January 16, 2007.

In accordance with the HASP, a preliminary noise survey was performed on January 18, 2007. The survey showed that all readings inside the biosparge control building were less than 85 dB, the level at which hearing protection is required.

A request to abandon well nest MW-52 was received from Steel Equities on February 23, 2007. A notification letter regarding this closure was submitted to the USEPA on February 28, 2007. The three wells in this well nest were closed on March 16 and 19, 2007.

The first quarterly performance monitoring of the biosparge system was performed on January 23 to 30, 2007. The analytical results and QA/QC review are attached.

The following documents were submitted to USEPA on February 1, 2007:

- a. "As-Recorded" Construction Drawings;
- b. Well Stratigraphic and Instrumentation Logs; and
- c. Draft Operation, Maintenance and Monitoring Manual, including an updated Health and Safety Plan which incorporates O,M&M activities.

The following activities are planned for the second quarter of 2007:

- i) Perform quarterly sampling of the biosparge system starting the week of April 16, 2007;
- ii) Continue operation and monitoring of the GP-1/GP-3 supplemental system; and
- iii) Sumps 1 and 2 on the former Hooker/Ruco Site are to be back-filled by the new property owner once the property transfer is completed.

The following activities are pending an approval or review by an outside party or Agency. The follow-up schedule is based on receipt of the review or approval.

- i) Awaiting USEPA comments on the results of the final sampling for OU-1, which were submitted on March 16, 2006. The submittal included a recommendation that no further remedial actions need be implemented in the MW-E area and Sump 1.
- ii) Awaiting USEPA response regarding the requirements for completion certification of OU-1.
- iii) Awaiting USEPA comments on the draft Declaration of Covenants and Restrictions for the Site, which was submitted on April 20, 2006 by Bayer.

Should you have any questions on the above, please do not hesitate to contact me at (859) 543-2152 or e-mail at rick_passmore@oxy.com.

Sincerely yours,



Rick Passmore
Director, Operations

KDS/cb/006883/21

Encl.

- c.c.:
- K. Lynch (USEPA)
 - M. E. Wieder (USEPA)
 - S. Scharf (NYSDEC)
 - M. Popper (CDM)
 - T. Kelly (Nassau County)
 - J. Robinson (Bayer)
 - J. Kay (CRA)

MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER/RUCO SITE
HICKSVILLE, NEW YORK

Groundwater Investigations Beyond the Ruco Property (OU-3)

January through March 2007

<i>Task and Activity</i>	<i>Percentage of Activity Completed</i>	<i>Start Date</i>	<i>Scheduled Completion Date</i>	<i>Completion Date</i>
• Work Plan	100	July 1993		September 23, 1993
• Borehole/Well Installation (MW-50, MW-53, MW-54 and MW-55)	100	September 30, 1994		June 19, 1995
• Well Development, Sampling and Analysis	100	July 10, 1995		August 9, 1995
• Water Level Measurements	100	August 15, 1995		April, 1996
• Interim Report	100	May 23, 1995		June 15, 1995
• Interim Report - Addendum No. 1	100	July 28, 1995		August 2, 1995
• Grumman Production Wells Sample Collection and Analysis	100	August 1, 1995		October 4, 1995
• Well Installation (MW-51, MW-52, MW-56 and MW-57)	100	August 30, 1995		January 26, 1996
• Regional Groundwater Level Monitoring Event	100	October 3, 1995		October 3, 1995
• Well Development, Sampling and Analysis	100	January 22, 1996		July 5, 1996
• Grumman Groundwater Model	100	July 27, 1995		November 20, 1997
• Phase I Report	100	February 21, 1996		April 26, 1996
• Supporting Documentation Regarding the Effectiveness of In Situ Remediation	100	June 10, 1996		August 9, 1996
• Phase II Report	100	February 21, 1996		August 12, 1996
• Comments on DEC Draft Supplemental Feasibility Study	100	September 23, 1996		October 17, 1996
• Responses to Northrop Comments on the Phase I Report	100	April 17, 1997		June 6, 1997
• Comments on DEC Supplemental Feasibility Study	100	June 1, 1997		June 20, 1997
• Comments on Navy Regional Groundwater Feasibility Study	100	July 28, 1997		October 8, 1997
• Revised Pages for Navy Regional Groundwater Feasibility Study	100	July 28, 1997		November 3, 1997
• Comments on Groundwater Flow Model Report	100	November 20, 1997		December 5, 1997
• Comments on Draft Final Regional Groundwater Feasibility Study	100	March 27, 1998		May 1, 1998
• Comments on Northrop Letter Report	100	May 20, 1998		June 4, 1998
• Evaluation of MW-52 Area Groundwater Extraction System	100	July 1, 1998		July 29, 1998
• Remedial Investigation Report	100	December 1, 1998		January 21, 1999
• Feasibility Study Report	100	December 1, 1998		March 16, 1999
• Groundwater Treatability Study (GTS)	100	December 16, 1998		July 19, 1999
• Responses to EPA Comments on RI Report	100	May 25, 1999		June 11, 1999
• Responses to EPA Comments on FS Report	100	June 21, 1999		July 7, 1999
• Scope of Predesign Investigative Activities				
- Initial	100	June 1, 1999		June 11, 1999
- Revised	100	February 16, 2001		May 28, 2001

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January through March 2007

<i>Task and Activity</i>	<i>Percentage of Activity Completed</i>	<i>Start Date</i>	<i>Scheduled Completion Date</i>	<i>Completion Date</i>
• Revised RI Report	100	May 25, 1999		November 16, 1999
• Revised FS Report	100	July 7, 1999		December 22, 1999
• Responses to EPA Comments on GTS	100	October 14, 1999		November 3, 1999
• Responses to EPA Comments on FS Report Responses	100	October 14, 1999		November 3, 1999
• Obtain access agreements	100	June 1999		December 2001
• Final RI Report	100	March 15, 2000		July 21, 2000
• Final FS Report	100	April 10, 2000		July 25, 2000
• PRAP	100			July 28, 2000
• ROD	100			September 29, 2000
• Unilateral Administrative Order	100			April 26, 2001
• Evaluate VCM presence in GP-3	100			August 15, 2001
• Design Supplemental System for VCM in GP-3	100	August 15, 2001		December 2001
• EPA Conditional Approval for Predesign Activities	100			September 28, 2001
• Issued Request for Bid for Well Installation	100			October 26, 2001
• Contractor Arrangements	100			January 15, 2002
• Arrangements for Biosparge Testing of Existing Wells	100			April 12, 2002
• Biosparge Testing of Existing Wells	100	April 15, 2002		August 13, 2002
• Phase 1 Well Installation	100	February 4, 2002		June 28, 2002
• Upgrade of GP-1/GP-3 Treatment System	100	April 8, 2002		July 9, 2003
• Sample Wells	100	June 17, 2002		July 12, 2002
• Evaluate Pre-Design Information /Develop Scope of Biosparge Remedy	100			November 22, 2002
• Install 2 Additional Wells (MW-67/68)	100	December 18, 2002		February 14, 2003
• Sample Wells MW-67 & MW-68				March 25/26, 2003
• Responses to EPA comments on Predesign Information Report	100	March 6, 2003		March 27, 2003
• EPA Meeting				April 17, 2003
• Closed Well T-1	100			May 12, 2003
• MW-67/68 Installation Report	100			May 23, 2003
• Responses to EPA comments on March 27, 2003 Responses	100	June 25, 2003		July 29, 2003
• Pre-Final (95%) RD Report	100	July 7, 2003		October 31, 2003
• Responses to EPA comments on 95% RD Report	100	April 12, 2004		May 27, 2004
• Submitted Due Diligence Request to Northrop	100			May 10, 2004

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<i>Task and Activity</i>	<i>Percentage of Activity Completed</i>	<i>Start Date</i>	<i>Scheduled Completion Date</i>	<i>Completion Date</i>
• Follow up Due Diligence Clarification to Northrop 6/11 Data Package	100			June 25, 2004
• Offer to Northrop for Property Purchase	100			October 1, 2004
• Sample 13 Wells and Submit Results	100	August 23, 2004		October 14, 2004
• Responses to EPA Comments on 95% RD Report	100	November 17, 2004		December 6, 2004
• Revised Property Purchase offer submitted to Northrop	100	December 22, 2004		December 22, 2004
• Prepare 100% RD Report	100	January 12, 2005		May 27, 2005
• Property Purchased	100			June 2005
• 100% Design Approved	100			July 7, 2005
• Obtain Building Permits	100	July 11, 2005		November 10, 2005
• Arrange Contractors	100	January 2005		July 22, 2005
• Well Installation	100	September 13, 2005		April 28, 2006
• Biosparge System Installation	100	November 2005		May 2006
• Closure of On-Site and Off-Site Wells	100	November 2005		May 10, 2006
• OU-1 Soil Borings	100	November 2005		January 11, 2006
• Background Groundwater Sampling	100	March 27, 2006		June 14, 2006
• Pre-Start Sampling	100			October 24, 25, and 26, 2006
• Final Inspection	100			October 27, 2006
• Biosparge System Start-Up	100			October 27, 2006
• First Monthly Sampling	100			November 28 to 30, 2006
• Second Monthly Sampling	100			December 20 and 21, 2006
• Noise Survey	100			January 18, 2007
• First Quarterly Sampling	100			January 23 to 30, 2007
• Submission of Phase I Construction Documents	100			February 1, 2007

TABLE 2

SUMMARY OF PURGING FINAL STABILIZATION PARAMETER VALUES
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	Date Sampled	Drawdown from Initial Water Level ⁽¹⁾ (feet)	Well Screen Volumes Purged	pH (S.U.)	Temperature (Celsius)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Fe ⁺² (mg/L)
MW-52 S	4/7/2006	0.03	4.3	5.62	14.3	0.199	-7	0.00	0.0	1.60
MW-52 I	4/13/2006	0.04	4.5	4.56	15.0	0.121	303	9.77	12.4	0.05
MW-58 D	10/26/2006	0.01	3.4	5.69	16.8	0.192	21	2.42	58.1	4.30
MW-58 D1	10/26/2006	0.14	3.2	6.34	16.9	0.222	-101	2.58	68.6	8.80
MW-58 D2	10/25/2006	0.11	2.8	6.95	17.3	0.266	-198	0.00	15.1	5.16
MW-59 D1	10/25/2006	0.00	2.0	6.07	17.4	0.432	-20	0.58	261	3.24
MW-59 D2	10/25/2006	0.02	5.5	6.50	17.5	0.452	-99	0.47	240	2.00
MW-59 D	10/26/2006	0.07	4.5	10.29	17.1	0.364	-108	0.00	9.6	2.65
MW-61 I	4/28/2006	0.00	4.6	5.68	14.3	0.221	139	0.00	121	1.76
	5/8/2006	0.08	1.9	4.86	14.9	0.182	136	0.00	64.7	1.49
	5/18/2006	0.20	2.9	4.90	16.1	0.155	123	0.00	571	2.16
	5/30/2006	0.20	5.7	5.10	15.7	0.167	118	0.00	110	2.61
	10/24/2006	0.14	4.3	5.53	15.1	0.999	102	0.00	166	2.76
	10/25/2006	0.00	4.1	5.32	15.1	0.202	112	0.41	370	3.04
	10/26/2006	0.02	3.9	5.33	14.6	0.251	133	0.00	900	2.49
	11/29/2006	0.10	5.1	5.58	14.8	0.242	60	0.00	397	1.96
	11/29/2006	0.10	5.1	5.58	14.8	0.242	60	0.00	397	1.96
	12/21/2006	0.08	5.2	5.20	14.4	0.185	118	0.00	18.2	2.17
	1/24/2007	-0.05	4.5	5.54	14.9	0.275	101	1.93	46.4	1.84
MW-61 D1	4/28/2006	0.00	4.7	6.07	14.5	0.210	122	0.00	356	1.78
	5/8/2006	0.05	5.7	5.07	15.0	0.210	101	0.00	172	2.77
	5/18/2006	0.16	2.9	5.18	16.2	0.170	91	0.00	>999	>3.30
	5/30/2006	0.25	4.5	5.27	15.9	0.196	93	0.00	138	4.66
	10/24/2006	0.01	4.4	5.49	15.2	0.999	110	0.00	72.4	2.30
	10/25/2006	0.08	4.1	5.33	15.1	0.201	107	0.65	129	3.74
	10/26/2006	0.03	3.9	5.41	14.9	0.273	109	0.00	86	2.99
	11/29/2006	0.00	3.6	5.72	14.9	0.246	54	0.00	310	1.92
	12/21/2006	0.08	5.8	5.29	14.6	0.192	90	0.00	80.7	2.59
	1/23/2007	0.00	8.1	5.73	14.3	0.389	54	1.21	137	1.84
MW-61 D2	4/28/2006	0.05	6.4	7.03	15.2	0.230	-186	0.00	413	2.00
	5/5/2006	0.00	10.5	6.65	15.1	0.370	-160	0.00	>999	10.08
	5/18/2006	0.30	4.9	6.63	16.1	0.294	-127	0.00	999	>3.30
	5/30/2006	0.00	4.4	6.32	15.8	0.249	-100	0.00	84.6	2.99
	10/24/2006	0.10	6.4	6.22	14.9	0.904	37	0.00	>999	0.15
	10/25/2006	0.20	4.4	5.77	15.1	0.236	27	1.42	316	5.46
	10/26/2006	0.25	4.2	5.63	14.9	0.233	62	1.94	550	4.04
	11/29/2006	0.00	4.4	6.25	14.8	0.253	110	11.12	>999	1.91
	12/21/2006	0.19	5.1	5.58	14.2	0.216	120	9.28	89.4	2.36
	1/23/2007	0.10	5.1	6.62	14.0	0.273	131	>20	>999	0.89
MW-63 D1	5/23/2006	0.20	2.4	5.03	15.9	0.152	230	0.00	0.0	2.13
MW-63 D2	5/24/2006	-0.21	5.5	5.30	15.0	0.152	246	0.41	6.5	0.06
	6/14/2006	0.05	5.1	5.01	16.3	0.171	222	0.92	3.5	NM
MW-63 S	5/19/2006	0.12	2.4	5.20	14.8	0.150	238	0.16	411	0.18
MW-63 I	5/23/2006	0.20	4.6	5.09	15.4	0.154	241	0.00	0.0	0.03
MW-64 S	3/23/2006	0.10	2.9	5.83	14.3	0.188	-18	0.00	13.8	4.71
MW-64 I	3/24/2006	-0.01	3.6	5.87	14.1	0.203	-38	0.00	0.0	3.21
MW-66 D2	4/3/2006	0.03	5.2	5.23	15.2	0.197	-16	0.00	24.3	4.50
MW-67 S	3/28/2006	0.35	5.2	5.88	15.7	0.206	-117	0.00	271	13.08
MW-67 D	3/29/2006	0.47	4.3	5.64	17.1	0.223	86	0.50	>999	16.88
MW-68 S	4/6/2006	-0.10	5.1	8.87	17.4	0.144	-281	0.00	27.8	0.60
MW-68 D	3/31/2006	0.10	5.1	5.67	17.6	0.165	-150	0.00	440	9.72
MW-81 D1	4/12/2006	0.16	2.9	6.44	14.5	0.228	-65	0.00	132	1.47
	5/2/2006	0.05	2.9	5.44	15.1	0.303	-31	0.00	0.9	3.20
	5/17/2006	0.00	3.9	6.04	16.8	0.263	-75	0.00	86.4	2.81
	5/25/2006	0.07	2.5	5.62	15.6	0.268	-32	0.00	31.1	>3.3
	10/24/2006	0.08	4.0	5.72	14.5	0.420	15	2.26	14	3.23
	10/25/2006	0.21	0.7	5.77	15.3	0.349	-55	3.01	0.0	9.76
	10/26/2006	-0.08	1.3	6.02	14.7	0.321	-25	0.00	0.0	10.12
	1/29/2007	-0.07	6.1	6.19	13.1	0.429	-55	2.26	704	2.36

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HICKSVILLE, NEW YORK

Well	Date Sampled	Drawdown from Initial Water Level ⁽¹⁾ (feet)	Well Screen Volumes Purged	pH (S.U.)	Temperature (Celsius)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Fe ⁺² (mg/L)	
MW-81 D2	4/12/2006	0.05	2.4	5.79	15.2	0.357	-51	0.00	4.1	5.04	
	5/4/2006	0.00	5.8	6.12	16.8	0.204	-6	1.10	119	1.37	
	5/18/2006	0.12	3.4	8.18	15.1	0.220	-58	0.00	906	>3.30	
	5/26/2006	0.21	3.2	8.58	15.8	0.225	-129	0.00	>999	>3.3	
	10/24/2006	0.09	3.2	6.33	14.5	0.263	78	16.87	396	2.37	
	10/25/2006	-0.04	1.9	6.49	15.7	0.251	73	17.96	170	0.40	
	10/26/2006	0.21	1.9	7.64	15.1	0.229	93	15.00	>999	0.74	
MW-82 D1	1/24/2007	-0.05	5.9	7.21	13.1	0.234	-39	2.90	>999	0.98	
	4/17/2006	0.00	2.8	6.88	16.4	0.391	-126	0.00	10.8	1.28	
	4/25/2006	0.12	4.9	6.23	17.2	0.351	-170	0.00	281	1.89	
	5/11/2006	0.10	2.4	6.39	16.5	0.356	-190	0.00	150	4.32	
	5/25/2006	0.00	6.6	6.27	17.8	0.341	-200	0.00	226	5.22	
	5/31/2006	0.00	5.0	6.98	20.8	0.374	-214	0.00	297	5.28	
	10/24/2006	0.23	0.9	6.44	14.5	0.411	-119	1.93	202	6.14	
	10/25/2006	0.00	1.6	7.37	14.5	0.491	-154	0.00	9	9.36	
	10/26/2006	0.02	1.0	6.63	16.0	0.317	-142	2.77	116	6.32	
	11/30/2006	-0.30	2.6	7.39	15.8	0.463	-158	0.00	252	1.86	
	12/20/2006	0.05	2.3	6.89	12.9	0.327	-149	0.00	146	1.98	
	1/25/2007	0.05	5.7	7.25	12.9	0.440	-145	1.21	48.8	1.94	
	MW-82 D2	4/17/2006	0.08	3.6	6.14	16.2	0.256	-152	0.00	636	5.12
4/24/2006		0.00	4.3	7.34	15.7	0.295	-367	0.00	315	1.64	
5/25/2006		0.00	2.9	6.06	17.2	0.239	-140	0.00	95	3.02	
6/5/2006		0.05	3.0	6.52	17.7	0.251	-139	0.00	65.1	6.40	
5/31/2006		0.00	3.9	6.54	16.7	0.239	-125	0.00	27.9	6.58	
10/24/2006		0.07	4.1	6.91	16.3	0.231	-166	0.38	234	10.44	
10/25/2006		-0.08	1.0	6.07	15.4	0.282	-95	1.98	6.8	11.64	
10/26/2006		0.14	1.3	6.23	17.5	0.260	-110	3.37	59	8.60	
11/30/2006		0.00	2.7	7.48	16.6	0.313	-179	0.00	37.9	2.31	
12/20/2006		0.00	3.4	7.11	14.1	0.226	-178	0.00	14.1	0.34	
1/25/2007		0.00	3.2	7.23	13.5	0.284	-147	1.70	66.1	2.01	
MW-83 D1		4/11/2006	0.08	4.3	10.04	15.3	0.472	-195	0.00	648	0.20
		5/1/2006	0.07	4.5	10.35	17.1	0.518	-125	0.00	178	0.44
	5/16/2006	0.01	5.7	11.56	13.5	0.978	-235	0.00	>999	1.20	
	5/24/2006	0.05	6.3	10.89	16.0	0.375	-211	0.00	350	1.36	
	10/24/2006	0.20	1.0	11.70	13.1	1.190	70	0.00	108	1.94	
	10/25/2006	0.11	2.0	12.80	14.4	0.990	-146	0.00	102	0.23	
	10/26/2006	0.24	3.1	10.30	14.1	0.561	-64	2.06	9.9	0.06	
MW-83 D2	1/30/2007	0.03	5.3	11.07	13.4	0.342	6	1.74	79.4	0.01	
	5/2/2006	-0.25	3.6	6.00	15.0	0.235	50	1.70	0.0	0.49	
	5/16/2006	0.08	4.5	6.88	15.0	0.224	42	2.02	0.0	0.02	
	5/25/2006	0.13	2.4	6.61	15.5	0.216	73	2.91	0.0	0.00	
	10/24/2006	0.09	4.9	6.56	13.7	0.226	241	>19.99	17.5	9.88	
	10/25/2006	0.10	1.2	6.18	14.3	0.297	179	>20	92	0.00	
	10/26/2006	0.10	1.5	6.46	13.1	0.216	171	>20	0.0	0.06	
MW-84 D1	1/29/2007	0.00	2.9	6.55	10.3	0.197	249	13.20	69.3	0.00	
	5/23/2006	0.09	1.7	6.25	16.1	0.301	-71	0.00	18.5	3.19	
	5/26/2006	0.00	3.4	6.45	16.8	0.305	-118	0.00	91.9	4.50	
	6/6/2006	0.15	4.1	6.55	16.6	0.280	-139	0.00	10.3	5.50	
	6/8/2006	0.00	5.1	6.58	16.3	0.263	-163	0.00	10.4	2.35	
	10/24/2006	0.00	4.7	5.46	15.7	0.197	50	7.89	54.7	1.44	
	10/25/2006	0.06	1.3	6.32	15.4	0.296	86	8.03	0.0	1.37	
	10/26/2006	0.04	2.9	6.19	15.8	0.300	78	6.51	77	1.19	
MW-84 D2	1/30/2007	0.00	3.6	6.16	13.1	0.254	160	7.53	188	1.24	
	5/23/2006	0.15	3.9	6.74	17.4	0.246	-131	0.00	780	12.68	
	5/30/2006	0.20	2.4	6.59	18.8	0.241	-152	2.70	595	3.18	
	6/6/2006	0.00	5.7	7.17	16.8	0.219	-221	0.00	228	2.70	
	6/8/2006	0.00	3.0	6.78	16.5	0.220	-162	0.00	230	3.78	
	10/24/2006	0.00	6.8	8.47	14.9	0.295	-90	4.69	131	1.53	
	10/25/2006	-0.02	1.0	8.68	15.1	0.395	-47	2.84	127	0.27	
	10/26/2006	-0.01	5.0	8.00	15.5	0.393	-77	2.67	>999	0.64	
1/29/2007	0.00	1.9	9.97	12.2	0.322	7	3.91	199	0.18		

SUMMARY OF PURGING FINAL STABILIZATION PARAMETER VALUES
HOOKER RUCO SITE
HICKSVILLE, NEW YORK

Well	Date Sampled	Drawdown from Initial Water Level ⁽¹⁾ (feet)	Well Screen Volumes Purged	pH (S.U.)	Temperature (Celsius)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Fe ⁺² (mg/L)
MW-87 D1	4/5/2006	-0.04	2.9	5.04	12.8	0.197	142	0.00	64	0.99
	4/20/2006	0.02	3.9	4.94	17.5	0.184	218	0.00	43.8	0.30
	5/4/2006	0.02	2.6	5.03	16.2	0.187	231	0.00	0.0	0.34
	5/15/2006	0.02	2.0	5.28	15.1	0.165	207	0.00	66.2	0.27
	10/24/2006	0.25	4.5	5.45	14.9	0.229	234	0.70	5.4	0.17
	10/25/2006	-0.01	2.8	5.23	15.9	0.224	221	0.00	0.0	0.35
	10/26/2006	0.03	2.1	5.26	15.0	0.192	226	2.63	22.2	0.05
	1/24/2007	0.10	2.1	5.31	14.7	0.200	248	0.78	11.0	0.10
MW-87 D2	4/5/2006	0.00	2.8	5.21	14.1	0.172	121	1.81	129	1.14
	4/25/2006	-0.05	5.1	5.40	15.5	0.163	149	2.62	42.8	0.20
	5/15/2006	0.32	4.3	5.80	15.4	0.152	104	1.59	54.8	NM
	5/24/2006	0.10	4.9	5.45	16.2	0.155	163	1.62	0.0	1.36
	10/24/2006	0.13	3.9	5.69	15.5	0.183	212	4.00	131	0.08
	10/25/2006	0.06	1.5	5.34	15.5	0.173	137	6.68	25.5	0.09
	10/26/2006	-0.03	2.1	5.37	15.2	0.160	226	4.53	0.0	0.02
	1/24/2007	0.00	4.7	5.61	13.3	0.186	131	3.64	160	0.25
MW-88 D1	4/19/2006	0.08	2.9	6.09	17.9	0.273	-90	0.00	>999	9.64
	4/26/2006	0.32	6.7	5.99	16.7	0.204	-53	0.00	589	4.96
	5/10/2006	0.25	4.2	5.68	15.4	0.200	-2	0.00	393	2.75
	5/30/2006	0.00	3.6	5.90	17.1	0.188	-65	3.13	408	3.62
	6/1/2006	0.10	5.0	6.13	19.9	0.188	-73	0.00	367	5.12
	10/24/2006	0.06	1.8	6.06	15.6	0.252	-43	0.00	88.6	11.04
	10/25/2006	0.09	1.4	5.86	15.3	0.233	-13	0.00	4.7	10.20
	10/26/2006	0.00	3.4	5.59	15.6	0.317	33	3.36	415	6.56
1/30/2007	0.10	2.9	6.12	11.8	0.193	-45	1.16	257	2.01	
MW-88 D2	4/20/2006	0.00	3.7	6.25	17.4	0.244	-152	0.00	951	6.16
	5/10/2006	0.03	3.5	8.05	16.6	0.330	-331	0.00	>999	9.44
	6/1/2006	0.00	4.9	7.24	18.5	0.287	-210	0.00	>999	12.95
	6/7/2006	0.10	4.3	8.44	15.9	0.320	-380	0.00	>999	12.52
	10/24/2006	0.00	5.8	9.10	15.8	0.387	-282	1.44	>999	18.96
	10/25/2006	0.17	1.0	9.44	15.0	0.426	-253	1.97	>999	11.40
	10/26/2006	0.00	1.5	7.33	17.7	0.286	-212	0.00	>999	NM
	1/25/2007	0.00	8.5	9.17	11.3	0.323	-315	0.82	993	0.16
MW-90 D1	6/13/2006	0.10	7.8	6.25	17.0	0.230	-112	0.00	76.8	4.10
MW-90 D2	6/13/2006	0.05	7.8	5.91	18.4	0.191	-9	0.20	95.3	3.06

Notes:

(1) Negative indicates groundwater level during purging higher than initial water level
NM Not measured



**CONESTOGA-ROVERS
& ASSOCIATES**

E-Mail Date: February 7, 2007
Revised: February 8, 2007
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PREVIOUSLY TRANSMITTED
BY E-MAIL

ANALYTICAL DATA ASSESSMENT AND VALIDATION
HOOKER-RUCO PRE-START GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HICKSVILLE, NEW YORK
OCTOBER, NOVEMBER, AND DECEMBER 2006

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1.0 INTRODUCTION

Groundwater samples were collected at the former Hooker Ruco Site in Hicksville, New York (Site), in support of the biosparge system. Sampling events presented herein are the October pre-start groundwater sampling program and the November and December quarterly performance sampling events. Also, a soil sample was collected from the vicinity of MW-61D2 to evaluate the effect of the November 18, 2006 groundwater release from this well. Analytical services were performed by H2M Labs, Inc., in Melville, New York (H2M). A summary of the sampling and analysis scheme is presented in Table 1.

A summary of the analytical data is presented in Tables 2A through 2E. The samples were analyzed for the volatile organic compounds (VOCs), total organic carbon (TOC), ammonia, nitrite, nitrate, and total phosphorus.

The quality assurance/quality control (QA/QC) criteria by which these data have been assessed are outlined in the analytical methods. Additional validation guidelines were referenced from the following documents:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-94-012, February 1994;
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994; and

Full raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting QA/QC provided.

2.0 SAMPLE HOLDING TIMES

The method-specific holding time criteria are summarized in Table 5.1 of the Quality Assurance Project Plan (QAPP). All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled to 4°C ($\pm 2^\circ\text{C}$) after collection. All samples were received by the laboratory in good condition.

3.0 GAS CHROMATOGRAPH/MASS SPECTROMETER (GC/MS) TUNING AND MASS CALIBRATION - VOCs

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the VOC method requires the analysis of the specific tuning compound bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the VOC analysis period. All tuning criteria were met for the analyses, indicating proper optimization of the instrumentation.

4.0 INSTRUMENT CALIBRATION

4.1 GC/MS CALIBRATION - VOCs

4.1.1 TUNING AND MASS CALIBRATION

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the VOC method requires the analysis of the specific tuning compounds BFB. The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the VOC analysis period. All tuning criteria were met for the analyses, indicating proper optimization of the instrumentation.

4.1.2 INITIAL CALIBRATION

To quantify compounds of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

- i) all relative response factors (RRFs) must be greater than or equal to 0.05; and
- ii) for average response factors are employed, percent relative standard deviation (%RSD) values must not exceed 30 percent.

The initial calibration data for VOCs were reviewed and met the above criteria for linearity and sensitivity for all compounds of interest.

4.1.3 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

- i) all RRF values must be greater than or equal to 0.05; and
- ii) percent difference (%D) values must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity with the exception of %D values for some VOC compounds which exceeded the 25 percent criterion during the analysis period. All associated sample results were qualified as estimated to reflect variability in instrument response (see Table 3 for a summary of sample data qualifications).

4.3 INSTRUMENTAL CALIBRATION - GENERAL CHEMISTRY

4.3.1 INITIAL CALIBRATION

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For general chemistry, calibration is performed based on the analysis of at least three standards and a blank. Resulting correlation coefficients for curves must be at least 0.995.

After calibration, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within control limits of 85 to 115 percent.

Upon review of the data, it was determined that all inorganic calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that instrumentation used for these analyses was properly calibrated prior to sample analyses.

4.3.2 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

5.0 SURROGATE COMPOUND ANALYSES - VOCs

In accordance with the methods employed, all samples, blanks, and standards analyzed for VOCs are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits.

Surrogates were added to all samples, blanks, and QC samples prior to analysis. Surrogate recoveries met the acceptance criteria for all samples demonstrating acceptable analytical accuracy in this sample matrix.

6.0 INTERNAL STANDARD (IS) RECOVERIES - VOCs

To ensure that changes in GC/MS response and sensitivity do not affect sample analysis results, IS compounds are added to all samples, blanks, and spike samples prior to VOC analysis. All results are calculated as a ratio of the IS response. The criteria by which the IS results are assessed are as follows:

- i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard; and
- ii) the retention time of the IS must not vary more than ± 30 seconds from the associated calibration standard.

The sample IS recoveries met the above criteria and were used to calculate all positive sample results.

7.0 MATRIX SPIKE (MS) AND DUPLICATE ANALYSES- GENERAL CHEMISTRY

To evaluate the effects of sample matrices on the measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The established control limits for inorganic matrix spike recoveries are 75 to 125 percent. Spike recoveries are not assessed for samples having original concentrations significantly greater than the spike concentration (>four times).

Analytical precision is evaluated based on the analysis of duplicate samples. Laboratory duplicate results are assessed against a maximum relative percent difference (RPD) of 20 percent.

Matrix spikes and duplicate analyses were performed at the required frequency for all general chemistry analyses. The results showed acceptable accuracy and precision on this sample matrix .

8.0 LABORATORY CONTROL SAMPLE (LCS) ANALYSES

The LCS serves as a monitor of the overall performance of all steps in the analysis, including the sample preparation. LCSs are analyzed using the same sample preparation, analytical methods, and QA/QC procedures employed for the investigative samples.

LCSs were prepared and analyzed for all general chemistry and VOC parameters. The LCS results showed good overall analytical accuracy with the exception some slightly low recoveries in one water and one soil VOC LCS. Associated sample results were qualified as estimated to reflect the potential low bias (see Table 4).

9.0 METHOD BLANK ANALYSES

Method blanks are prepared from deionized water and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures. Additionally, continuing calibration blanks (CCBs) are routinely analyzed after each CCV for the inorganic parameters.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch and CCBs were analyzed for inorganic parameters after each CCV. The data were non-detect for the analytes of interest with the exception of a low concentration of methylene chloride present in one VOC method blank. Associated sample results with concentrations similar to that found in the blank were qualified as non-detect (see Table 5). Associated results that were either non-detect or significantly greater than the concentration found in the blank would not have been impacted.

10.0 TENTATIVELY IDENTIFIED COMPOUNDS (TICs) - VOCs

Chromatographic peaks for VOC analyses, which are not target compounds, surrogates, or internal standards, are potential TICs. The 10 largest TICs for the VOC analysis with areas greater than 10 percent of the area of the nearest internal standard are tentatively identified and quantitated.

A summary of the TICs reported is presented in Table 2E. TICs, which were present in laboratory blanks or were identified as aldol condensation products, were disregarded and are not included in the tables.

11.0 CONCLUSION

Based on the preceding assessment, the data summarized in Tables 2A through 2E are acceptable with the specific qualifications noted herein.

TABLES

TABLE 1
SAMPLING AND ANALYSIS SUMMARY
PRE-START AND FIRST AND SECOND QUARTER PERFORMANCE GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER-RUCO SITE
HICKSVILLE, NEW YORK
OCTOBER, NOVEMBER, AND DECEMBER 2006

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	Analysis/Parameters				Comments
				VOCs and TICs	TOC, NH ₃ , NO ₂ ⁻ , NO ₃ ⁻ , Total Phosphate	VOCs	VOCs	
WG-6883-1022406-KL-001	MW-87 D1	10/24/06	9:10		x			
WG-6883-1022406-KL-002	MW-83 D2	10/24/06	9:40		x			
WG-6883-1022406-KL-003	MW-61 D2	10/24/06	9:50		x			
WG-6883-1022406-KL-004	MW-81 D1	10/24/06	9:50		x			
WG-6883-1022406-KL-005	MW-84 D2	10/24/06	11:00		x			
WG-6883-1022406-KL-006	MW-87 D2	10/24/06	11:25		x			
WG-6883-1022406-KL-007	MW-61 D1	10/24/06	12:30		x			MS/MSD
WG-6883-1022406-KL-008	MW-83 D1	10/24/06	13:15		x			
WG-6883-1022406-KL-009	MW-81 D2	10/24/06	13:20		x			
WG-6883-1022406-KL-010	MW-84 D1	10/24/06	13:45		x			
WG-6883-1022406-KL-011	MW-61 I	10/24/06	14:30		x			
WG-6883-1022406-KL-012	MW-82 D2	10/24/06	14:45		x			
WG-6883-1022406-KL-013	MW-88 D1	10/24/06	15:50		x			
WG-6883-1022406-KL-014	MW-88 D2	10/24/06	16:15		x			
WG-6883-1022406-KL-015	MW-82 D1	10/24/06	16:15		x			
WG-6883-1022406-KL-016	MW-61 I	10/24/06	-		x			Duplicate of WG-6883-1022406-KL-011
WG-6883-1022506-KL-001	MW-61 I	10/25/06	9:30		x			
WG-6883-1022506-KL-002	MW-82 D2	10/25/06	9:20		x			
WG-6883-1022506-KL-003	MW-88 D1	10/25/06	9:30		x			
WG-6883-1022506-KL-004	MW-88 D2	10/25/06	9:40		x			
WG-6883-1022506-KL-005	MW-82 D1	10/25/06	9:30		x			
WG-6883-1022506-KL-006	MW-61 D1	10/25/06	10:50		x			
WG-6883-1022506-KL-007	MW-87 D1	10/25/06	11:35		x			
WG-6883-1022506-KL-008	MW-87 D2	10/25/06	11:30		x			
WG-6883-1022506-KL-009	MW-84 D1	10/25/06	11:55		x			
WG-6883-1022506-KL-010	MW-84 D2	10/25/06	11:45		x			
WG-6883-1022506-KL-011	MW-61 D2	10/25/06	12:40		x			
WG-6883-1022506-KL-012	MW-81 D1	10/25/06	12:50		x			
WG-6883-1022506-KL-013	MW-81 D2	10/25/06	14:08		x			
WG-6883-1022506-KL-014	MW-83 D1	10/25/06	14:20		x			
WG-6883-1022506-KL-015	MW-83 D2	10/25/06	14:25		x			
WG-6883-1022506-KL-016	MW-61 D2	10/25/06	-		x			Duplicate of WG-6883-1022506-KL-011
WG-6883-1022506-KL-017	MW-59 D2	10/25/06	15:40	x	x			
WG-6883-1022506-KL-018	MW-59 D1	10/25/06	16:50	x	x			
WG-6883-1022506-KL-019	MW-58 D2	10/25/06	16:15	x	x			
TB-6883-102506-01	Trip blank	10/25/06	-	x				
WG-6883-1022606-KL-001	MW-83 D2	10/26/06	8:00		x	x		
WG-6883-1022606-KL-002	MW-83 D1	10/26/06	8:25		x	x		
WG-6883-1022606-KL-003	MW-87 D2	10/26/06	8:20		x	x		
WG-6883-1022606-KL-004	MW-61 D2	10/26/06	8:45		x	x		
WG-6883-1022606-KL-005	MW-61 D1	10/26/06	8:55		x	x		
WG-6883-1022606-KL-006	MW-87 D1	10/26/06	9:55		x	x		
WG-6883-1022606-KL-007	MW-61 I	10/26/06	10:25		x	x		
WG-6883-1022606-KL-008	MW-81 D1	10/26/06	10:33		x	x		
WG-6883-1022606-KL-009	MW-81 D2	10/26/06	10:40		x	x		

TABLE 1

SAMPLING AND ANALYSIS SUMMARY
 PRE-START AND FIRST AND SECOND QUARTER PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER, NOVEMBER, AND DECEMBER 2006

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	Analysis/Parameters				Comments
				VOCs and TICs	TOC, NH ₃ , NO ₂ ⁻ , NO ₃ ⁻ , Total Phosphate	VOCs	VOCs	
WG-6883-1022606-KL-010	MW-88 D1	10/26/06	13:40		x	x		
WG-6883-1022606-KL-011	MW-88 D2	10/26/06	13:45		x	x		
WG-6883-1022606-KL-012	MW-84 D1	10/26/06	14:30		x	x		
WG-6883-1022606-KL-013	MW-82 D1	10/26/06	14:40		x	x		
WG-6883-1022606-KL-014	MW-82 D2	10/26/06	15:35		x	x		
WG-6883-1022606-KL-015	MW-84 D2	10/26/06	16:30		x	x		
WG-6883-1022606-KL-016	MW-83 D1	10/26/06	-		x	x		
WG-6883-1022606-KL-017	MW-58 I	10/26/06	16:30	x	x		Duplicate of WG-6883-1022606-KL-002	
WG-6883-1022606-KL-018	MW-59 S	10/26/06	17:10	x	x			
WG-6883-1022606-KL-019	MW-58 S	10/26/06	17:45	x	x			
RB-6883-102606-KL-001	Rinse blank	10/26/06	9:10:00	x	x		Rinse blank	
TB-6883-102606-KL-001	Trip blank	10/26/06	-	x			Trip blank	
G-112906-SD-001	MW-61 I	11/29/06	10:50		x	x		
G-112906-SD-002	MW-61 I	11/29/06	11:00		x	x		
G-112906-SD-003	MW-61 D1	11/29/06	12:50		x	x		
G-112906-SD-004	MW-61 D2	11/29/06	15:30		x	x		
S-112906-SD-005	Depth 0.0 - 0.5	11/29/06	12:00			x	Soil	
FB-113006-SD-001	Field blank	11/30/06	8:50		x	x	Field blank	
G-113006-SD-006	MW-82 D1	11/30/06	11:05		x	x		
G-113006-SD-007	MW-82 D2	11/30/06	12:50		x	x		
Trip Blank	Trip blank	11/30/06	-			x	Trip blank	
G-122006-SD-001	MW-82 D2	12/20/06	12:00		x	x		
G-122006-SD-002	MW-82 D1	12/20/06	15:35		x	x		
Trip Blank	Trip blank	12/20/06	-			x	Trip blank	
G-122106-SW-003	MW-61 I	12/21/06	10:10			x		
G-122106-SW-004	MW-61 I	12/21/06	10:15			x		
G-122106-SW-005	MW-61 D1	12/21/06	12:10			x		
G-122106-SW-006	MW-61 D2	12/21/06	16:10			x		

Notes:

- Not applicable.
- MS Matrix Spike.
- MSD Matrix Spike Duplicate.
- NH₃ Total Ammonia.
- NO₂ Nitrate.
- NO₃ Nitrite.
- TICs Tentatively Identified Compounds.
- TOC Total Organic Carbon.
- VOCs Volatile Organic Compounds.

TABLE 2A

ANALYTICAL RESULTS SUMMARY
 PRE-START GROUNDWATER
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER 2006

Parameters	Units	Sample Location:	MW-84D1	MW-84D1	MW-84D1	MW-84D2	MW-84D2	MW-84D2	MW-84D2	MW-58D2
		WG-6883-102406-KL-010	WG-6883-102506-KL-009	WG-6883-102606-KL-012	WG-6883-102406-KL-005	WG-6883-102506-KL-010	WG-6883-102606-KL-015	WG-6883-102606-KL-019		
		Sample ID:	Sample Date:	Sample ID:	Sample Date:	Sample ID:	Sample Date:	Sample ID:	Sample Date:	Sample ID:
Volatile Organic Compounds										
1,1,1-Trichloroethane	µg/L	-	-	2 J	-	2 J	-	2 J	-	3 J
1,1,2,2-Tetrachloroethane	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
1,1,2-Trichloroethane	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
1,1-Dichloroethane	µg/L	-	-	4 J	-	4 J	-	6	-	1 J
1,1-Dichloroethene	µg/L	-	-	3 J	-	3 J	-	3 J	-	17
1,2-Dichloroethane	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
1,2-Dichloroethene (total)	µg/L	-	-	110	-	110	-	56	-	3 J
1,2-Dichloropropane	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
2-Hexanone	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	-	5 U	-	5 U	-	6	-	5 U
Acetone	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Benzene	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Bromodichloromethane	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Bromoform	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Bromomethane (Methyl Bromide)	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Carbon disulfide	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Carbon tetrachloride	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Chlorobenzene	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Chloroethane	µg/L	-	-	10	-	10	-	5 U	-	5 U
Chloroform (Trichloromethane)	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Chloromethane (Methyl Chloride)	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
cis-1,3-Dichloropropene	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Dibromochloromethane	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Ethylbenzene	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Methylene chloride	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Styrene	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Tetrachloroethene	µg/L	-	-	47	-	47	-	19	-	19
Toluene	µg/L	-	-	5 U	-	5 U	-	3 J	-	5 U
trans-1,3-Dichloropropene	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
Trichloroethene	µg/L	-	-	350 D	-	350 D	-	92	-	120
Vinyl chloride	µg/L	-	-	430 D	-	430 D	-	140	-	5 U
Xylene (total)	µg/L	-	-	5 U	-	5 U	-	5 U	-	5 U
General Chemistry										
Ammonia	mg/L	0.22	0.22	0.19	0.48	0.58	0.47	0.32		0.32
Nitrate (as N)	mg/L	2.08	2.64	2.15	0.64	0.53	1.31	0.1 U		0.1 U
Nitrite (as N)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U
Phosphorus	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		0.05 U
Total Organic Carbon (TOC)	mg/L	1 U	1 U	1.4	7.3	4.9	2.4	1 U		1 U

ANALYTICAL RESULTS SUMMARY
 PRE-START GROUNDWATER
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER 2006

Sample Location: MW-581 MW-585 MW-59D2 MW-59D1 MW-59S MW-61D1 MW-61D1 MW-61D1
 Sample ID: WG-6883-102506-KL-017 WG-6883-102506-KL-019 WG-6883-102506-KL-017 WG-6883-102506-KL-018 WG-6883-102406-KL-007 WG-6883-102506-KL-006
 Sample Date: 10/26/2006 10/26/2006 10/25/2006 10/25/2006 10/24/2006 10/25/2006 10/25/2006

Parameters	Units	MW-581	MW-585	MW-59D2	MW-59D1	MW-59S	MW-61D1	MW-61D1	MW-61D1
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	4 J	4 J	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	1 J	1 J	7.3	7.5	6	6	6	6
1,1-Dichloroethene	µg/L	19	16	5 U	5 U	1 J	1 J	1 J	1 J
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	µg/L	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane (Methyl Bromide)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform (Trichloromethane)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane (Methyl Chloride)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	20	20	11	10	10	10	10	10
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	µg/L	150	120	40	32	58	58	58	58
Vinyl chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
General Chemistry									
Ammonia	mg/L	0.44	0.33	2.10	1.86	1.95	0.84	0.84	0.84
Nitrate (as N)	mg/L	1.48	4.36	7.48	8.42	6.97	0.1 U	0.1 U	0.1 U
Nitrite (as N)	mg/L	0.60	0.19	0.1 U	0.1 U	0.10	0.1 U	0.1 U	0.1 U
Phosphorus	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Total Organic Carbon (TOC)	mg/L	1 U	1 U	1 U	1 U	1 U	19.8	19.8	23.8

TABLE 2A

ANALYTICAL RESULTS SUMMARY
 PRE-START GROUNDWATER
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER 2006

Parameters	Sample Location:	MW-61I	MW-61I	MW-61I	MW-61I	MW-61I	MW-81DI	MW-81DI
	Sample ID:	WG-6883-102406-KL-005	WG-6883-102406-KL-011	WG-6883-102406-KL-016	WG-6883-102506-KL-001	WG-6883-102606-KL-007	WG-6883-102406-KL-004	WG-6883-102506-KL-012
	Sample Date:	10/26/2006	10/24/2006	10/24/2006	10/25/2006	10/26/2006	10/24/2006	10/25/2006
	Units		Duplicate					
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	5 U	-	-	-	5 U	-	-
1,1,2,2-Tetrachloroethane	µg/L	5 U	-	-	-	5 U	-	-
1,1,2-Trichloroethane	µg/L	5 U	-	-	-	5 U	-	-
1,1-Dichloroethane	µg/L	5 U	-	-	-	5 U	-	-
1,1-Dichloroethene	µg/L	5 U	-	-	-	5 U	-	-
1,2-Dichloroethane	µg/L	5 U	-	-	-	5 U	-	-
1,2-Dichloroethene (total)	µg/L	2 J	-	-	-	2 J	-	-
1,2-Dichloropropane	µg/L	5 U	-	-	-	5 U	-	-
2-Butanone (Methyl Ethyl Ketone)	µg/L	5 U	-	-	-	5 U	-	-
2-Hexanone	µg/L	5 U	-	-	-	5 U	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5 U	-	-	-	5 U	-	-
Acetone	µg/L	5 U	-	-	-	5 U	-	-
Benzene	µg/L	5 U	-	-	-	5 U	-	-
Bromodichloromethane	µg/L	5 U	-	-	-	5 U	-	-
Bromoform	µg/L	5 U	-	-	-	5 U	-	-
Bromomethane (Methyl Bromide)	µg/L	5 U	-	-	-	5 U	-	-
Carbon disulfide	µg/L	5 U	-	-	-	5 U	-	-
Carbon tetrachloride	µg/L	5 U	-	-	-	5 U	-	-
Chlorobenzene	µg/L	4 J	-	-	-	4 J	-	-
Chloroethane	µg/L	5 U	-	-	-	5 U	-	-
Chloroform (Trichloromethane)	µg/L	5 U	-	-	-	5 U	-	-
Chloromethane (Methyl Chloride)	µg/L	5 U	-	-	-	5 U	-	-
cis-1,3-Dichloropropene	µg/L	5 U	-	-	-	5 U	-	-
Dibromochloromethane	µg/L	5 U	-	-	-	5 U	-	-
Ethylbenzene	µg/L	5 U	-	-	-	5 U	-	-
Methylene chloride	µg/L	5 U	-	-	-	5 U	-	-
Styrene	µg/L	5 U	-	-	-	5 U	-	-
Tetrachloroethene	µg/L	5 U	-	-	-	5 U	-	-
Toluene	µg/L	5 U	-	-	-	5 U	-	-
trans-1,3-Dichloropropene	µg/L	5 U	-	-	-	5 U	-	-
Trichloroethene	µg/L	5 U	-	-	-	5 U	-	-
Vinyl chloride	µg/L	3 J	-	-	-	2 J	-	-
Xylene (total)	µg/L	5 U	-	-	-	5 U	-	-
General Chemistry								
Ammonia	mg/L	0.78	0.80	0.80	0.58	0.55	1.16	1.23
Nitrate (as N)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrite (as N)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phosphorus	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Total Organic Carbon (TOC)	mg/L	23.3	21.4	22.5	23.3	21.0	2.5	2.5

ANALYTICAL RESULTS SUMMARY
 PRE-START GROUNDWATER
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER 2006

Parameters	Units	MW-81D1 WG-6883-102606-KL-008 10/26/2006	MW-81D2 WG-6883-102406-KL-009 10/24/2006	MW-81D2 WG-6883-102506-KL-013 10/25/2006	MW-81D2 WG-6883-102606-KL-009 10/26/2006	MW-82D1 WG-6883-102406-KL-015 10/24/2006	MW-82D1 WG-6883-102506-KL-005 10/25/2006	MW-82D1 WG-6883-102606-KL-013 10/26/2006
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	5 U	-	-	5 U	-	-	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	-	-	5 U	-	-	5 U
1,1,2-Trichloroethane	µg/L	5 U	-	-	5 U	-	-	5 U
1,1-Dichloroethane	µg/L	5 U	-	-	3 J	-	-	4 J
1,1-Dichloroethane	µg/L	5 U	-	-	3 J	-	-	5 U
1,2-Dichloroethane (total)	µg/L	48	-	-	5 U	-	-	5 U
1,2-Dichloropropane	µg/L	5 U	-	-	2 J	-	-	38
2-Butanone (Methyl Ethyl Ketone)	µg/L	5 U	-	-	5 U	-	-	5 U
2-Hexanone	µg/L	5 U	-	-	5 U	-	-	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5 U	-	-	5 U	-	-	5 U
Acetone	µg/L	5 U	-	-	6	-	-	5 U
Benzene	µg/L	2 J	-	-	5 U	-	-	5 U
Bromodichloromethane	µg/L	5 U	-	-	5 U	-	-	3 J
Bromoform	µg/L	5 U	-	-	5 U	-	-	5 U
Bromomethane (Methyl Bromide)	µg/L	5 U	-	-	5 U	-	-	5 U
Carbon disulfide	µg/L	5 U	-	-	5 U	-	-	5 U
Carbon tetrachloride	µg/L	5 U	-	-	5 U	-	-	5 U
Chloroethane	µg/L	2 J	-	-	5 U	-	-	5 U
Chloroethane	µg/L	63	-	-	5 U	-	-	1 J
Chloroform (Trichloromethane)	µg/L	5 U	-	-	5 U	-	-	18
Chloromethane (Methyl Chloride)	µg/L	5 U	-	-	5 U	-	-	5 U
cis-1,3-Dichloropropene	µg/L	5 U	-	-	5 U	-	-	5 U
Dibromochloromethane	µg/L	5 U	-	-	5 U	-	-	5 U
Ethylbenzene	µg/L	5 U	-	-	5 U	-	-	5 U
Methylene chloride	µg/L	5 U	-	-	5 U	-	-	5 U
Styrene	µg/L	5 U	-	-	5 U	-	-	5 U
Tetrachloroethene	µg/L	15	-	-	5	-	-	8
Toluene	µg/L	5 U	-	-	5 U	-	-	2 J
trans-1,3-Dichloropropene	µg/L	5 U	-	-	5 U	-	-	5 U
Trichloroethene	µg/L	18	-	-	26	-	-	4 J
Vinyl chloride	µg/L	790 D	-	-	4 J	-	-	1100 D
Xylene (total)	µg/L	4 J	-	-	5 U	-	-	7
General Chemistry								
Ammonia	mg/L	1.17	0.27	0.25	0.78	0.1 U	0.1 U	0.1 U
Nitrate (as N)	mg/L	0.1 U	3.51	4.10	2.23	0.1 U	0.1 U	0.1 U
Nitrite (as N)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phosphorus	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Total Organic Carbon (TOC)	mg/L	3.0	1 U	1 U	2.7	6.6	6.2	6.4

TABLE 2A

ANALYTICAL RESULTS SUMMARY
 PRE-START GROUNDWATER
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER 2006

Parameters	Sample Location:	MW-82D2	MW-82D2	MW-82D2	MW-83D1	MW-83D1	MW-83D1	MW-83D1	Units
	Sample ID:	WG-6883-102406-KL-012	WG-6883-102506-KL-002	WG-6883-102506-KL-014	WG-6883-102406-KL-008	WG-6883-102506-KL-014	WG-6883-102606-KL-002	WG-6883-102606-KL-016	
	Sample Date:	10/24/2006	10/25/2006	10/26/2006	10/24/2006	10/25/2006	10/26/2006	10/26/2006	
Volatile Organic Compounds									
1,1,1-Trichloroethane		-	-	5 U	-	-	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		-	-	5 U	-	-	5 U	5 U	5 U
1,1,2-Trichloroethane		-	-	5 U	-	-	5 U	5 U	5 U
1,1-Dichloroethane		-	-	2 J	-	-	5 U	5 U	5 U
1,1-Dichloroethene		-	-	3 J	-	-	4 J	4 J	4 J
1,2-Dichloroethane		-	-	5 U	-	-	5 U	5 U	5 U
1,2-Dichloroethene (total)		-	-	370	-	-	43	43	43
1,2-Dichloropropane		-	-	5 U	-	-	5 U	5 U	5 U
2-Butanone (Methyl Ethyl Ketone)		-	-	5 U	-	-	5 U	5 U	5 U
2-Hexanone		-	-	5 U	-	-	5 U	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)		-	-	5 U	-	-	5 U	5 U	5 U
Acetone		-	-	6	-	-	3 J	4 J	4 J
Benzene		-	-	5 U	-	-	5 U	5 U	5 U
Bromodichloromethane		-	-	5 U	-	-	5 U	5 U	5 U
Bromoform		-	-	5 U	-	-	5 U	5 U	5 U
Bromomethane (Methyl Bromide)		-	-	5 U	-	-	5 U	5 U	5 U
Carbon disulfide		-	-	5 U	-	-	5 U	5 U	5 U
Carbon tetrachloride		-	-	5 U	-	-	5 U	5 U	5 U
Chlorobenzene		-	-	5 U	-	-	5 U	5 U	5 U
Chloroethane		-	-	5 U	-	-	5 U	5 U	5 U
Chloroform (Trichloromethane)		-	-	5 U	-	-	7	7	7
Chloromethane (Methyl Chloride)		-	-	5 U	-	-	5 U	5 U	5 U
cis-1,3-Dichloropropene		-	-	5 U	-	-	1 J	1 J	1 J
Dibromochloromethane		-	-	5 U	-	-	5 U	5 U	5 U
Ethylbenzene		-	-	5 U	-	-	5 U	5 U	5 U
Methylene chloride		-	-	5 U	-	-	5 U	5 U	5 U
Styrene		-	-	5 U	-	-	5 U	5 U	5 U
Tetrachloroethene		-	-	5 U	-	-	5 U	5 U	5 U
Toluene		-	-	61	-	-	31	31	31
trans-1,3-Dichloropropene		-	-	2 J	-	-	3 J	3 J	3 J
Trichloroethene		-	-	5 U	-	-	5 U	5 U	5 U
Vinyl chloride		-	-	48	-	-	290 D	300 D	300 D
Xylene (total)		-	-	1300 D	-	-	140	150	150
		-	-	2 J	-	-	5 U	5 U	5 U
General Chemistry									
Ammonia		0.23	0.22	0.25	1.26	0.87	0.87	0.83	0.83
Nitrate (as N)		1.18	1.04	0.48	0.5 U	1.46	1.77	1.76	1.76
Nitrite (as N)		0.1 U	0.1 U	0.1 U	1.07	0.57	0.25	0.24	0.24
Phosphorus		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Total Organic Carbon (TOC)		2.8	2.5	2.1	2.1	1 U	1.4	1.4	1.4

ANALYTICAL RESULTS SUMMARY
 PRE-START GROUNDWATER
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER 2006

Sample Location: MW-87D1 MW-87D1 MW-87D1 MW-87D2 MW-87D2 MW-87D2 MW-88D1
 Sample ID: WG-6883-102406-KL-001 WG-6883-102506-KL-007 WG-6883-102606-KL-006 WG-6883-102406-KL-006 WG-6883-102506-KL-008 WG-6883-102606-KL-003 WG-6883-102406-KL-013
 Sample Date: 10/24/2006 10/25/2006 10/24/2006 10/24/2006 10/25/2006 10/24/2006 10/24/2006

Parameters	Units	MW-87D1	MW-87D1	MW-87D1	MW-87D2	MW-87D2	MW-87D2	MW-88D1
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	-	5 U	-	-	2 J	-	-
1,1,2,2-Tetrachloroethane	µg/L	-	5 U	-	-	5 U	-	-
1,1,2-Trichloroethane	µg/L	-	5 U	-	-	5 U	-	-
1,1-Dichloroethane	µg/L	-	5 U	-	-	10	-	-
1,1-Dichloroethene	µg/L	-	2 J	-	-	5	-	-
1,2-Dichloroethane	µg/L	-	5 U	-	-	5 U	-	-
1,2-Dichloroethene (total)	µg/L	-	98	-	-	8	-	-
1,2-Dichloropropane	µg/L	-	5 U	-	-	5 U	-	-
2-Butanone (Methyl Ethyl Ketone)	µg/L	-	5 U	-	-	5 U	-	-
2-Hexanone	µg/L	-	5 U	-	-	5 U	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	5 U	-	-	5 U	-	-
Acetone	µg/L	-	5 U	-	-	5 U	-	-
Benzene	µg/L	-	5 U	-	-	5 U	-	-
Bromodichloromethane	µg/L	-	5 U	-	-	5 U	-	-
Bromoform	µg/L	-	5 U	-	-	5 U	-	-
Bromomethane (Methyl Bromide)	µg/L	-	5 U	-	-	5 U	-	-
Carbon disulfide	µg/L	-	5 U	-	-	5 U	-	-
Carbon tetrachloride	µg/L	-	5 U	-	-	5 U	-	-
Chlorobenzene	µg/L	-	5 U	-	-	5	-	-
Chloroethane	µg/L	-	5 U	-	-	5 U	-	-
Chloroform (Trichloromethane)	µg/L	-	5	-	-	5 U	-	-
Chloromethane (Methyl Chloride)	µg/L	-	5 U	-	-	5 U	-	-
cis-1,3-Dichloropropene	µg/L	-	5 U	-	-	1 J	-	-
Dibromochloromethane	µg/L	-	5 U	-	-	5 U	-	-
Ethylbenzene	µg/L	-	5 U	-	-	5 U	-	-
Methylene chloride	µg/L	-	5 U	-	-	5 U	-	-
Styrene	µg/L	-	5 U	-	-	5 U	-	-
Tetrachloroethene	µg/L	-	5 U	-	-	5 U	-	-
Toluene	µg/L	-	96	-	-	13	-	-
trans-1,3-Dichloropropene	µg/L	-	5 U	-	-	5 U	-	-
Trichloroethene	µg/L	-	5 U	-	-	5 U	-	-
Vinyl chloride	µg/L	-	320 D	-	-	77	-	-
Xylene (total)	µg/L	-	230 D	-	-	5 U	-	-
	µg/L	-	5 U	-	-	5 U	-	-
General Chemistry								
Ammonia	mg/L	1.26	1.15	0.1 U	0.1 U	0.1 U	0.33	
Nitrate (as N)	mg/L	4.90	5.17	3.92	4.78	4.06	0.1 U	
Nitrite (as N)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
Phosphorus	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	
Total Organic Carbon (TOC)	mg/L	1 U	1.0	1 U	1 U	1 U	2.2	

TABLE 2A

ANALYTICAL RESULTS SUMMARY
 PRE-START GROUNDWATER
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER 2006

Parameters	Units	Sample Location: Sample ID: Sample Date:	MW-88D1 WG-6883-102506-KL-003 10/25/2006	MW-88D1 WG-6883-102606-KL-010 10/26/2006	MW-88D2 WG-6883-102406-KL-014 10/24/2006	MW-88D2 WG-6883-102506-KL-004 10/25/2006	MW-88D2 WG-6883-102606-KL-011 10/26/2006
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	-	-	5 U	-	-	1 J
1,1,2,2-Tetrachloroethane	µg/L	-	-	5 U	-	-	5 U
1,1,2-Trichloroethane	µg/L	-	-	5 U	-	-	5 U
1,1-Dichloroethane	µg/L	-	-	5 U	-	-	3 J
1,1-Dichloroethene	µg/L	-	-	5 U	-	-	4 J
1,2-Dichloroethane	µg/L	-	-	5 U	-	-	5 U
1,2-Dichloroethene (total)	µg/L	-	-	26	-	-	35
1,2-Dichloropropane	µg/L	-	-	5 U	-	-	5 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	-	-	5 U	-	-	5 U
2-Hexanone	µg/L	-	-	5 U	-	-	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	-	5 U	-	-	5 U
Acetone	µg/L	-	-	5 U	-	-	5 U
Benzene	µg/L	-	-	5 U	-	-	5 U
Bromodichloromethane	µg/L	-	-	5 U	-	-	5 U
Bromoform	µg/L	-	-	5 U	-	-	5 U
Bromomethane (Methyl Bromide)	µg/L	-	-	5 U	-	-	5 U
Carbon disulfide	µg/L	-	-	5 U	-	-	5 U
Carbon tetrachloride	µg/L	-	-	5 U	-	-	5 U
Chlorobenzene	µg/L	-	-	5 U	-	-	5 U
Chloroethane	µg/L	-	-	3 J	-	-	5 U
Chloroform (Trichloromethane)	µg/L	-	-	3 J	-	-	5 U
Chloromethane (Methyl Chloride)	µg/L	-	-	5 U	-	-	5 U
cis-1,3-Dichloropropene	µg/L	-	-	5 U	-	-	5 U
Dibromochloromethane	µg/L	-	-	5 U	-	-	5 U
Ethylbenzene	µg/L	-	-	5 U	-	-	5 U
Methylene chloride	µg/L	-	-	5 U	-	-	5 U
Styrene	µg/L	-	-	5 U	-	-	5 U
Tetrachloroethene	µg/L	-	-	5 U	-	-	5 U
Toluene	µg/L	-	-	39	-	-	140
trans-1,3-Dichloropropene	µg/L	-	-	3 J	-	-	66
Trichloroethene	µg/L	-	-	5 U	-	-	5 U
Vinyl chloride	µg/L	-	-	9	-	-	180
Xylene (total)	µg/L	-	-	58	-	-	3200 D
	µg/L	-	-	5 U	-	-	2 J
General Chemistry							
Ammonia	mg/L	0.33	-	0.39	-	-	0.28
Nitrate (as N)	mg/L	0.1 U	-	0.1 U	-	0.15	0.1 U
Nitrite (as N)	mg/L	0.1 U	-	0.1 U	-	0.1 U	0.1 U
Phosphorus	mg/L	0.05 U	-	0.05 U	-	0.05 U	0.05 U
Total Organic Carbon (TOC)	mg/L	1.5	-	1.9	-	8.9	3.2

Notes:
 - Not analyzed.
 D Compounds at secondary dilution factor.
 J Estimated.
 J Non-detect at associated value.

TABLE 2B

**ANALYTICAL RESULTS SUMMARY
FIRST QUARTER GROUNDWATER PERFORMANCE MONITORING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER-RUCO SITE
HICKSVILLE, NEW YORK
NOVEMBER 2006 (WATER)**

Parameters	Units	Sample Location: MW-61D1 MW-61D2 MW-61I MW-61I MW-82D1 MW-82D2					
		G-112906-SD-003 11/29/2006	G-112906-SD-004 11/29/2006	G-112906-SD-001 11/29/2006	G-112906-SD-002 11/29/2006	G-113006-SD-006 11/30/2006	G-113006-SD-007 11/30/2006
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	1 J	5 U	5 U	4 J	2 J
1,1-Dichloroethene	µg/L	5 U	1 J	5 U	5 U	5 U	2 J
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	µg/L	3 J	46	2 J	5 U	56	280
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	5 U	4 J	5 U	5 U	5 U	5 U
2-Hexanone	µg/L	5 U	4 J	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5 U	3 J	5 U	5 U	5 U	5 U
Acetone	µg/L	5 U	8.7	5 U	5 U	7.5	5 U
Benzene	µg/L	5 U	5 U	5 U	5 U	4 J	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane (Methyl Bromide)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	4 J	5 U	4 J	5 U	1 J	5 U
Chloroethane	µg/L	5 U	5 U	5 U	5 U	14	5 U
Chloroform (Trichloromethane)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane (Methyl Chloride)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	39	5 U	5 U	8.8	88
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	1 J	1 J
Trichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L	5.7	150	5 U	5 U	7.9	78
Xylene (total)	µg/L	5 U	1500	3 J	2 J	1900	1300
			5 U	5 U	5 U	7.2	5 U

Duplicate

TABLE 2B

ANALYTICAL RESULTS SUMMARY
 FIRST QUARTER GROUNDWATER PERFORMANCE MONITORING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 NOVEMBER 2006 (WATER)

<i>Sample Location:</i>	MW-61D1	MW-61D2	MW-61I	MW-61I	MW-61I	MW-82D1	MW-82D2
<i>Sample ID:</i>	G-112906-SD-003	G-112906-SD-004	G-112906-SD-001	G-112906-SD-002	G-112906-SD-002	G-113006-SD-006	G-113006-SD-007
<i>Sample Date:</i>	11/29/2006	11/29/2006	11/29/2006	11/29/2006	11/29/2006	11/30/2006	11/30/2006

Duplicate

Parameters	Units
<i>General Chemistry</i>	
Ammonia	mg/L
Nitrate (as N)	mg/L
Nitrite (as N)	mg/L
Phosphorus	mg/L
Total Organic Carbon (TOC)	mg/L

	0.90	0.86	0.92	0.85	0.1 U	0.1 U	0.26
	0.1 U	1.21	0.1 U	0.1 U	0.1 U	0.1 U	1.08
	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
	21.5	1.9	19.5	19.8	6.1	6.1	2.7

- Notes:
 J Estimated.
 U Non-detect at associated value.

TABLE 2C

ANALYTICAL RESULTS SUMMARY
 MW-61D2 RELEASE SOIL SAMPLE
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 NOVEMBER 2006 (SOIL)

Sample Location: 5 ft NE of MW-61D2
 Sample ID: S-112906-SD-005
 Sample Date: 11/29/2006

<i>Parameters</i>	<i>Units</i>	
<i>Volatile Organic Compounds</i>		
1,1,1-Trichloroethane	µg/kg	11 U
1,1,1,2-Tetrachloroethane	µg/kg	11 U
1,1,2-Trichloroethane	µg/kg	11 U
1,1-Dichloroethane	µg/kg	11 U
1,1-Dichloroethene	µg/kg	11 U
1,2-Dichloroethane	µg/kg	11 U
1,2-Dichloroethene (total)	µg/kg	11 U
1,2-Dichloropropane	µg/kg	11 UJ
2-Butanone (Methyl Ethyl Ketone)	µg/kg	11 U
2-Hexanone	µg/kg	11 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	11 U
Acetone	µg/kg	11 U
Benzene	µg/kg	11 U
Bromodichloromethane	µg/kg	11 U
Bromoform	µg/kg	11 U
Bromomethane (Methyl Bromide)	µg/kg	11 U
Carbon disulfide	µg/kg	11 U
Carbon tetrachloride	µg/kg	11 U
Chlorobenzene	µg/kg	11 U
Chloroethane	µg/kg	11 U
Chloroform (Trichloromethane)	µg/kg	11 U
Chloromethane (Methyl Chloride)	µg/kg	11 U
cis-1,3-Dichloropropene	µg/kg	11 U
Dibromochloromethane	µg/kg	11 U
Ethylbenzene	µg/kg	11 U
Methylene chloride	µg/kg	11 U
Styrene	µg/kg	11 U
Tetrachloroethene	µg/kg	11 U
Toluene	µg/kg	11 U
trans-1,3-Dichloropropene	µg/kg	11 U
Trichloroethene	µg/kg	11 U
Vinyl chloride	µg/kg	11 U
Xylene (total)	µg/kg	11 U
<i>General Chemistry</i>		
Percent Moisture	%	11.4

Notes:

- U Non-detect at associated value.
 UJ The analyte was not detected above the sample quantitation limit.
 The reported quantitation limit is an estimated quantity.

TABLE 2D

ANALYTICAL RESULTS SUMMARY
 SECOND QUARTER PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 DECEMBER 2006

Parameters	Units	MW-61D1 GW-122106-SW-005 12/21/2006	MW-61D2 GW-122106-SW-006 12/21/2006	MW-61I GW-122106-SW-003 12/21/2006	MW-61I GW-122106-SW-004 12/20/2006	MW-82D1 G-122006-SD-002 12/20/2006	MW-82D2 G-122006-SD-001 12/20/2006
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	5 U	1 J	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	3 J	5 U	4 J	5 U	1 J
1,1-Dichloroethene	µg/L	5 U	3 J	5 U	1 J	5 U	2 J
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	µg/L	3 J	87	3 J	80	5 U	160
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	µg/L	5 U	5 U	5 U	5 U	5 U	13
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	µg/L	5 U	5 U	5 U	5 U	5 U	8.7
Bromodichloromethane	µg/L	5 U	1 J	5 U	3 J	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane (Methyl Bromide)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	4 J	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	4 J	2 J	5 U	5 U
Chloroform (Trichloromethane)	µg/L	5 U	5 U	5 U	12	5 U	5 U
Chloromethane (Methyl Chloride)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 UJ	5 UJ	5 UJ	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	130	5 U	8.2	5 U	52
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	2 J	5 U	2 J
Trichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	µg/L	5 U	490	5 U	15	5 U	50
Xylene (total)	µg/L	3 J	3400	4 J	2500	600	600
	µg/L	5 U	1 J	5 U	8.6	3 J	3 J

Duplicate

TABLE 2D

ANALYTICAL RESULTS SUMMARY
 SECOND QUARTER PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 DECEMBER 2006

Sample Location: MW-61D1 MW-61D2 MW-61I MW-61I MW-82D1 MW-82D2
 Sample ID: GW-122106-SW-005 GW-122106-SW-006 GW-122106-SW-003 GW-122106-SW-004 G-122006-SD-002 G-122006-SD-001
 Sample Date: 12/21/2006 12/21/2006 12/21/2006 12/21/2006 12/20/2006 12/20/2006

Parameters	Units	Duplicate
General Chemistry		
Ammonia	mg/L	0.95
Nitrate (as N)	mg/L	0.11
Nitrite (as N)	mg/L	0.1 U
Phosphorus	mg/L	0.1 U
Total Organic Carbon (TOC)	mg/L	0.05 U
		20.5
		6.2
		5.9

Notes:

- J Non-detect at associated value.
- U The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 2E
TENTATIVELY IDENTIFIED COMPOUNDS
PRE-START GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER-RUCO SITE
HICKSVILLE, NEW YORK
OCTOBER, NOVEMBER, AND DECEMBER 2006

<i>Sample ID</i>	<i>Volatile Organics</i>	<i>Estimated Concentration (µg/L)</i>	<i>Semi-Volatile Organics</i>	<i>Estimated Concentration (µg/L)</i>
WG-6883-102506-KL-017	Ethane, 1,1,2-trichloro-1,2,2-trifluoro	6.6J	-	-
WG-6883-102506-KL-018	Ethane, 1,1,2-trichloro-1,2,2-trifluoro	7.6J	-	-
WG-6883-102506-KL-019	Ethane, 1,1,2-trichloro-1,2,2-trifluoro	24J	-	-

Notes:

- Not analyzed.
- J Estimated.

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
 PRE-START AND FIRST AND SECOND QUARTER PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER, NOVEMBER, AND DECEMBER 2006

<i>Parameter</i>	<i>Calibration Date</i>	<i>Compound</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
VOCs	11/03/06	Carbon tetrachloride	30	WG-6883-102506-KL-017	5 U	µg/L	UJ
				WG-6883-102506-KL-018	5 U	µg/L	UJ
				WG-6883-102506-KL-019	5 U	µg/L	UJ
				WG-6883-102606-KL-004	5 U	µg/L	UJ
				WG-6883-102606-KL-005	5 U	µg/L	UJ
				WG-6883-102606-KL-006	5 U	µg/L	UJ
				WG-6883-102606-KL-007	5 U	µg/L	UJ
				WG-6883-102606-KL-008	5 U	µg/L	UJ
				WG-6883-102606-KL-009	5 U	µg/L	UJ
				WG-6883-102606-KL-010	5 U	µg/L	UJ
				WG-6883-102606-KL-011	5 U	µg/L	UJ
				WG-6883-102606-KL-013	5 U	µg/L	UJ
				WG-6883-102606-KL-014	5 U	µg/L	UJ
				WG-6883-102606-KL-015	5 U	µg/L	UJ
				WG-6883-102606-KL-016	5 U	µg/L	UJ
				VOCs	11/03/06	Tetrachloroethene	27
WG-6883-102506-KL-018	10	µg/L	J				
WG-6883-102506-KL-019	19	µg/L	J				
WG-6883-102606-KL-004	150	µg/L	J				
WG-6883-102606-KL-005	5 U	µg/L	UJ				
WG-6883-102606-KL-006	96	µg/L	J				
WG-6883-102606-KL-007	5 U	µg/L	UJ				
WG-6883-102606-KL-008	15	µg/L	J				
WG-6883-102606-KL-009	5	µg/L	J				
WG-6883-102606-KL-010	39	µg/L	J				
WG-6883-102606-KL-011	140	µg/L	J				
WG-6883-102606-KL-013	8	µg/L	J				
WG-6883-102606-KL-014	61	µg/L	J				
WG-6883-102606-KL-015	19	µg/L	J				
WG-6883-102606-KL-016	31	µg/L	J				
VOCs	12/28/06	Chloromethane	34				
				GW-122106-SW-005	5 U	µg/L	UJ
				GW-122106-SW-006	5 U	µg/L	UJ
				GW-122106-SW-004	5 U	µg/L	UJ

Notes:

%D Percent Difference.

J Estimated.

U Non-detect at associated value.

UJ The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

VOCs Volatile Organic Compounds.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE RESULTS
 PRE-START AND FIRST AND SECOND QUARTER PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER, NOVEMBER, AND DECEMBER 2006

<i>Parameter</i>	<i>Compound</i>	<i>Percent Recovery</i>	<i>Control Limits (percent)</i>	<i>Associated Sample ID</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
VOCs	1,1-Dichloroethene	53	58 - 112	WG-6883-102506-KL-017	5 U	µg/L	UJ
				WG-6883-102506-KL-018	5 U	µg/L	UJ
				WG-6883-102506-KL-019	17	µg/L	J
				WG-6883-102606-KL-004	4 J	µg/L	*
				WG-6883-102606-KL-005	5 U	µg/L	UJ
				WG-6883-102606-KL-006	2 J	µg/L	*
				WG-6883-102606-KL-007	5 U	µg/L	UJ
				WG-6883-102606-KL-008	5 U	µg/L	UJ
				WG-6883-102606-KL-009	3 J	µg/L	*
				WG-6883-102606-KL-010	5 U	µg/L	UJ
				WG-6883-102606-KL-011	4 J	µg/L	*
				WG-6883-102606-KL-013	5 U	µg/L	UJ
				WG-6883-102606-KL-014	3 J	µg/L	*
				WG-6883-102606-KL-015	3 J	µg/L	*
				WG-6883-102606-KL-016	4 J	µg/L	*
				VOCs	Carbon disulfide	58	61 - 126
WG-6883-102506-KL-018	5 U	µg/L	UJ				
WG-6883-102506-KL-019	5 U	µg/L	UJ				
WG-6883-102606-KL-004	5 U	µg/L	UJ				
WG-6883-102606-KL-005	5 U	µg/L	UJ				
WG-6883-102606-KL-006	5 U	µg/L	UJ				
WG-6883-102606-KL-007	5 U	µg/L	UJ				
WG-6883-102606-KL-008	5 U	µg/L	UJ				
WG-6883-102606-KL-009	5 U	µg/L	UJ				
WG-6883-102606-KL-010	5 U	µg/L	UJ				
WG-6883-102606-KL-011	5 U	µg/L	UJ				
WG-6883-102606-KL-013	5 U	µg/L	UJ				
WG-6883-102606-KL-014	5 U	µg/L	UJ				
WG-6883-102606-KL-015	5 U	µg/L	UJ				
WG-6883-102606-KL-016	5 U	µg/L	UJ				
VOCs	1,1,1-Trichloroethane	52	66 - 126				
				WG-6883-102506-KL-018	5 U	µg/L	UJ
				WG-6883-102506-KL-019	3 J	µg/L	*
				WG-6883-102606-KL-004	5 U	µg/L	UJ
				WG-6883-102606-KL-005	5 U	µg/L	UJ
				WG-6883-102606-KL-006	5 U	µg/L	UJ
				WG-6883-102606-KL-007	5 U	µg/L	UJ
				WG-6883-102606-KL-008	5 U	µg/L	UJ
				WG-6883-102606-KL-009	5 U	µg/L	UJ
				WG-6883-102606-KL-010	5 U	µg/L	UJ
				WG-6883-102606-KL-011	1 J	µg/L	*
				WG-6883-102606-KL-013	5 U	µg/L	UJ
				WG-6883-102606-KL-014	5 U	µg/L	UJ
				WG-6883-102606-KL-015	2 J	µg/L	*
				WG-6883-102606-KL-016	5 U	µg/L	UJ

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE RESULTS
 PRE-START AND FIRST AND SECOND QUARTER PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER, NOVEMBER, AND DECEMBER 2006

<i>Parameter</i>	<i>Compound</i>	<i>Percent Recovery</i>	<i>Control Limits (percent)</i>	<i>Associated Sample ID</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
VOCs	Carbon tetrachloride	43	64 - 126	WG-6883-102506-KL-017	5 U	µg/L	UJ
				WG-6883-102506-KL-018	5 U	µg/L	UJ
				WG-6883-102506-KL-019	5 U	µg/L	UJ
				WG-6883-102606-KL-004	5 U	µg/L	UJ
				WG-6883-102606-KL-005	5 U	µg/L	UJ
				WG-6883-102606-KL-006	5 U	µg/L	UJ
				WG-6883-102606-KL-007	5 U	µg/L	UJ
				WG-6883-102606-KL-008	5 U	µg/L	UJ
				WG-6883-102606-KL-009	5 U	µg/L	UJ
				WG-6883-102606-KL-010	5 U	µg/L	UJ
				WG-6883-102606-KL-011	5 U	µg/L	UJ
				WG-6883-102606-KL-013	5 U	µg/L	UJ
				WG-6883-102606-KL-014	5 U	µg/L	UJ
				WG-6883-102606-KL-015	5 U	µg/L	UJ
				WG-6883-102606-KL-016	5 U	µg/L	UJ
				VOCs	4-Methyl-2-pentanone	76	79 - 121
WG-6883-102506-KL-018	5 U	µg/L	UJ				
WG-6883-102506-KL-019	5 U	µg/L	UJ				
WG-6883-102606-KL-004	5 U	µg/L	UJ				
WG-6883-102606-KL-005	5 U	µg/L	UJ				
WG-6883-102606-KL-006	5 U	µg/L	UJ				
WG-6883-102606-KL-007	5 U	µg/L	UJ				
WG-6883-102606-KL-008	5 U	µg/L	UJ				
WG-6883-102606-KL-009	5 U	µg/L	UJ				
WG-6883-102606-KL-010	5 U	µg/L	UJ				
WG-6883-102606-KL-011	5 U	µg/L	UJ				
WG-6883-102606-KL-013	5 U	µg/L	UJ				
WG-6883-102606-KL-014	5 U	µg/L	UJ				
WG-6883-102606-KL-015	5 U	µg/L	UJ				
WG-6883-102606-KL-016	5 U	µg/L	UJ				
VOCs	Tetrachloroethene	50	59 - 133				
				WG-6883-102506-KL-018	10	µg/L	J
				WG-6883-102506-KL-019	19	µg/L	J
				WG-6883-102606-KL-004	150	µg/L	J
				WG-6883-102606-KL-005	5 U	µg/L	UJ
				WG-6883-102606-KL-006	96	µg/L	J
				WG-6883-102606-KL-007	5 U	µg/L	UJ
				WG-6883-102606-KL-008	15	µg/L	J
				WG-6883-102606-KL-009	5	µg/L	J
				WG-6883-102606-KL-010	39	µg/L	J
				WG-6883-102606-KL-011	140	µg/L	J
				WG-6883-102606-KL-013	8	µg/L	J
				WG-6883-102606-KL-014	61	µg/L	J
				WG-6883-102606-KL-015	19	µg/L	J
				WG-6883-102606-KL-016	31	µg/L	J

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE RESULTS
 PRE-START AND FIRST AND SECOND QUARTER PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 OCTOBER, NOVEMBER, AND DECEMBER 2006

<i>Parameter</i>	<i>Compound</i>	<i>Percent Recovery</i>	<i>Control Limits (percent)</i>	<i>Associated Sample ID</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
VOCs	Dibromochloromethane	78	79 - 118	WG-6883-102506-KL-017	5 U	µg/L	UJ
				WG-6883-102506-KL-018	5 U	µg/L	UJ
				WG-6883-102506-KL-019	5 U	µg/L	UJ
				WG-6883-102606-KL-004	5 U	µg/L	UJ
				WG-6883-102606-KL-005	5 U	µg/L	UJ
				WG-6883-102606-KL-006	5 U	µg/L	UJ
				WG-6883-102606-KL-007	5 U	µg/L	UJ
				WG-6883-102606-KL-008	5 U	µg/L	UJ
				WG-6883-102606-KL-009	5 U	µg/L	UJ
				WG-6883-102606-KL-010	5 U	µg/L	UJ
				WG-6883-102606-KL-011	5 U	µg/L	UJ
				WG-6883-102606-KL-013	5 U	µg/L	UJ
				WG-6883-102606-KL-014	5 U	µg/L	UJ
				WG-6883-102606-KL-015	5 U	µg/L	UJ
				WG-6883-102606-KL-016	5 U	µg/L	UJ
				VOCs	Ethylbenzene	66	68 - 128
WG-6883-102506-KL-018	5 U	µg/L	UJ				
WG-6883-102506-KL-019	5 U	µg/L	UJ				
WG-6883-102606-KL-004	5 U	µg/L	UJ				
WG-6883-102606-KL-005	5 U	µg/L	UJ				
WG-6883-102606-KL-006	5 U	µg/L	UJ				
WG-6883-102606-KL-007	5 U	µg/L	UJ				
WG-6883-102606-KL-008	5 U	µg/L	UJ				
WG-6883-102606-KL-009	5 U	µg/L	UJ				
WG-6883-102606-KL-010	5 U	µg/L	UJ				
WG-6883-102606-KL-011	5 U	µg/L	UJ				
WG-6883-102606-KL-013	5 U	µg/L	UJ				
WG-6883-102606-KL-014	5 U	µg/L	UJ				
WG-6883-102606-KL-015	5 U	µg/L	UJ				
WG-6883-102606-KL-016	5 U	µg/L	UJ				
VOCs	1,2-Dichloropropane	78	81 - 132				

Notes

- * Value previously qualified as estimated by the laboratory.
- J Estimated.
- U Non-detect at associated value.
- UJ The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.
- VOCs Volatile Organic Compounds.

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANK
PRE-START AND FIRST AND SECOND QUARTER PERFORMANCE GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER-RUCO SITE
HICKSVILLE, NEW YORK
OCTOBER, NOVEMBER, AND DECEMBER 2006

<i>Parameter</i>	<i>Analysis Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Sample Result</i>	<i>Qualified Result</i>	<i>Units</i>
VOCs	12/05/06	Methylene chloride	3J	S-112906-SD-005	3 J	10U	µg/Kg

Notes:

- J Estimated.
U Non-detect at associated value.
VOCs Volatile Organic Compounds.



MEMORANDUM

TO: Klaus Schmidtke

REF. NO.: 006883

FROM: Susan C. Scrocchi/jbh/24-NF

DATE: January 25, 2007

E-Mail and Regular Mail

RE: **Data Quality Assessment and Validation
Soil Gas Sampling
Hooker-Ruco, Hicksville, New York
November 2006**

The following details a quality assessment and validation of the analytical results reported by Air Toxics, Ltd. in Folsom, CA, for soil gas samples collected in November 2006 at the former Hooker-Ruco Site (Site) located in Hicksville, New York. The samples were analyzed for volatile organic compounds (VOCs) by Method TO-15 (referenced from "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", United States Environmental Protection Agency [USEPA]/625/R-96/010b, Jan 1999).

The sample summary detailing sample identification, quality control (QC) samples, and analytical parameters is presented in Table 1. The analytical results are summarized in Table 2. The quality assurance/quality control (QA/QC) criteria used to assess the data were established by the method and the document entitled "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", USEPA 540/R-99/008, October 1999 was also used for guidance.

Full Contract Laboratory Program (CLP)-equivalent raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting QA/QC provided. This includes calibration data, blank data, duplicates, laboratory control samples, surrogate recoveries, and retention time/internal standard results.

Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times.

All samples were received in good condition.

Gas Chromatography/Mass Spectrometer (GC/MS) Mass Calibration – Organic Analyses

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the method requires the analysis of the specific tuning compound bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the method before analysis

is initiated. Analysis of the tuning compound must then be repeated every 24 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the analysis periods. All tuning criteria were met for the analyses, indicating proper optimization of the instrument.

Initial Calibration – Organic Analyses

To quantify compounds of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range.

Calibration data were reviewed for all samples. Linearity of the calibration curve and instrument sensitivity were evaluated against the following criteria:

- i) all relative response factors (RRFs) must be greater than or equal to 0.05; and
- ii) percent relative standard deviation (%RSD) values must not exceed 30.0 percent or if linear regression is used, the correlation coefficient (R^2) value must be at least 0.990.

Initial calibration standards were analyzed as required and the data showed acceptable sensitivity for all compounds of interest. Linearity was acceptable for all with the exception of hexachlorobutadiene and methyl-tert-butyl ether.

All associated sample data for these compounds were qualified as estimated (see Table 3).

Continuing Calibration – Organic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours. The following criteria were employed to evaluate the continuing calibration data:

- i) all RRF values must be greater than or equal to 0.05; and
- ii) the percent difference (%D) values must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response with the exception of methyl-tert-butyl ether exhibiting differences between responses of the initial and continuing standards. All associated sample results were previously qualified as estimated due to initial calibration exceedance (see Initial Calibration).

Method Blank Samples

Method blank samples are prepared and analyzed with the investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for the analytes of interest.

Surrogate Compounds – Organic Analyses

In accordance with the methods employed, all samples, blanks, and standards are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits.

All surrogate recoveries were within the laboratory control limits demonstrating acceptable analytical accuracy.

Laboratory Control Sample (LCS) Analysis

The LCS serves as a measure of the overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch.

LCSs were prepared and analyzed for all parameters. The LCS recoveries were within the laboratory control limits for all analytes of interest demonstrating acceptable overall analytical accuracy, with the exception of low recoveries for cis-1,3-dichloropropene and 1,2,4-trimethylbenzene. All associated sample results were qualified as estimated to reflect the implied low bias (see Table 4).

Internal Standard (IS) Summaries

To correct for changes in GC/MS response and sensitivity, IS compounds are added to all investigative samples and QC samples prior to VOC and SVOC analyses. All results are calculated as a ratio of the IS response. The criteria by which the IS results are assessed is as follows:

- i) IS standard area counts must not vary by more than $\pm 40\%$ from the associated continuing calibration standard IS area counts; and
- ii) the retention time (RT) of the IS must not vary by more than ± 30 seconds from the associated calibration standard.

All sample IS results met the above criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, MS/MSD percent recoveries and the relative percent difference (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory.

The laboratory did not analyze an MS/MSD sample. Method accuracy was determined to be acceptable based on the LCS recoveries.

The laboratory analyzed sample A-112806-SD-003 in duplicate. All results were similar indicating acceptable analytical precision.

Field QA/QC

The field QA/QC consisted of one field duplicate sample set.

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample set. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the report limit (RL), the evaluation criteria is one or two times the RL value for water and soil samples, respectively.

All field duplicate results were acceptable indicating adequate sampling and analytical precision with the exception of some variability between carbon disulfide results. The sample result and the duplicate result were qualified as estimated to reflect the implied variability (see Table 5).

Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. The samples identified in Table 1 were reviewed. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Tentatively Identified Compounds (TICs)

Chromatographic peaks for VOC analyses, which are not target compounds, surrogates, or internal standards, are potential TICs. The 10 largest TICs for the VOC analysis with areas greater than 10 percent of the area of the nearest internal standard are tentatively identified and quantitated.

A summary of the TICs reported are presented in Table 6. TICs which were present in laboratory blanks or were identified as aldol condensation products, were disregarded and are not included in the tables.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1
SAMPLE AND ANALYSIS SUMMARY
SOIL GAS SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HICKSVILLE, NEW YORK
NOVEMBER 2006

Sample I.D.	Location I.D.	Matrix	Collection		Analysis/Parameters		Comment
			Date (mm/dd/yy)	Time (hr:min)	VOCs		
A-112806-SD-001	VZ-14 (D)	Air	11/28/06	12:00	X		
A-112806-SD-002	VZ-14 (S)	Air	11/28/06	12:40	X		
A-112806-SD-003	VZ-10 (D)	Air	11/28/06	13:20	X		MS/MSD
A-112806-SD-004	VZ-10 (S)	Air	11/28/06	14:10	X		
A-112806-SD-005	VZ-15 (S)	Air	11/28/06	14:20	X		
A-112806-SD-006	VZ-15 (D)	Air	11/28/06	14:40	X		
A-112806-SD-007	VZ-11 (D)	Air	11/28/06	15:25	X		
A-112806-SD-008	VZ-11 (D)	Air	11/28/06	15:30	X		Field duplicate of A-112806-SD-007
A-112806-SD-009	VZ-11 (S)	Air	11/28/06	16:00	X		

Notes:
MS Matrix Spike.
MSD Matrix Spike Duplicate.
VOCs Volatile Organic Compounds.

TABLE 2
ANALYTICAL RESULTS SUMMARY
SOIL GAS SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HICKSVILLE, NEW YORK
NOVEMBER 2006

Parameters	Units	Sample Location: A-112806-SD-003 A-112806-SD-004 A-112806-SD-007 A-112806-SD-008 A-112806-SD-009 A-112806-SD-001 A-112806-SD-002 A-112806-SD-006 A-112806-SD-005										
		VZ-10 (D)	VZ-10 (S)	VZ-11 (D)	VZ-11 (D)	VZ-11 (S)	VZ-14 (D)	VZ-14 (S)	VZ-15 (D)	VZ-15 (S)	VZ-15 (S)	
		11/28/2006	11/28/2006	11/28/2006	11/28/2006	11/28/2006	11/28/2006	11/28/2006	11/28/2006	11/28/2006	11/28/2006	11/28/2006
Volatile Organic Compounds												
1,1,1-Trichloroethane	µg/m ³	3.6 U	4300 U	4.8	7.3 U	3.5 U	71 U	3.6 U	30	3.6 U	150 U	
1,1,2,2-Tetrachloroethane	µg/m ³	4.6 U	5400 U	4.6 U	9.2 U	4.5 U	89 U	4.5 U	7.1 U	4.5 U	180 U	
1,1,2-Trichloroethane	µg/m ³	3.6 U	4300 U	3.6 U	7.3 U	3.5 U	71 U	3.6 U	5.7 U	3.6 U	150 U	
1,1-Dichloroethane	µg/m ³	2.7 U	3200 U	2.7 U	5.4 U	2.6 U	53 U	2.7 U	4.2 U	2.7 U	110 U	
1,1-Dichloroethene	µg/m ³	2.6 U	3100 U	2.6 U	5.3 U	2.6 U	52 U	2.6 U	5.4	2.6 U	110 U	
1,2,4-Trichlorobenzene	µg/m ³	20 U	23000 U	20 U	40 U	19 U	380 U	20 U	31 U	20 U	800 U	
1,2,4-Trimethylbenzene	µg/m ³	3.3 UJ	3800 UJ	3.3 UJ	6.6 UJ	3.2 UJ	64 UJ	3.2 UJ	5.1 UJ	3.2 UJ	130 UJ	
1,2-Dibromoethane (Ethylene Dibromide)	µg/m ³	5.1 U	6000 U	5.1 U	10 U	5 U	100 U	5.1 U	8 U	5.1 U	200 U	
1,2-Dichlorobenzene	µg/m ³	4 U	4700 U	4 U	8 U	3.9 U	78 U	4 U	6.2 U	4 U	160 U	
1,2-Dichloroethane	µg/m ³	2.7 U	3200 U	2.7 U	5.4 U	2.6 U	53 U	2.7 U	4.2 U	2.7 U	110 U	
1,2-Dichloropropane	µg/m ³	3.1 U	3600 U	3.1 U	6.2 U	3 U	60 U	3 U	4.8 U	3 U	120 U	
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m ³	4.7 U	5500 U	4.7 U	9.4 U	4.5 U	91 U	4.6 U	7.3 U	4.6 U	190 U	
1,3,5-Trimethylbenzene	µg/m ³	3.3 U	3800 U	3.3 U	6.6 U	3.2 U	64 U	3.2 U	5.1 U	3.2 U	130 U	
1,3-Butadiene	µg/m ³	1.5 U	1700 U	1.5 U	3 U	1.4 U	29 U	1.5 U	2.3 U	1.5 U	59 U	
1,3-Dichlorobenzene	µg/m ³	4 U	4700 U	4 U	8 U	3.9 U	78 U	4 U	6.2 U	4 U	160 U	
1,4-Dichlorobenzene	µg/m ³	4 U	4700 U	4 U	8 U	3.9 U	78 U	4 U	6.2 U	4 U	160 U	
1,4-Dioxane	µg/m ³	9.6 U	11000 U	9.6 U	19 U	9.4 U	190 U	9.5 U	15 U	9.5 U	390 U	
2,2,4-Trimethylpentane	µg/m ³	3.1 U	3700 U	3.1 U	6.2 U	3 U	61 U	3.1 U	4.8 U	3.1 U	120 U	
2-Butanone (Methyl Ethyl Ketone)	µg/m ³	64	480000	2300 J	2100 J	290	12000	240	450	240	43000 J	
2-Hexanone	µg/m ³	11 U	13000 U	11 U	22 U	11 U	210 U	11 U	17 U	11 U	440 U	
4-Ethyl toluene	µg/m ³	3.3 U	3800 U	3.3 U	6.6 U	3.2 U	64 U	3.2 U	5.1 U	3.2 U	130 U	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/m ³	2.7 U	3200 U	2.7 U	5.5 U	2.7 U	53 U	2.7 U	4.3 U	2.7 U	110 U	
Acetone	µg/m ³	6.4 U	28000 U	28	29	13	370	8.3	37	8.3	250 U	
Allyl chloride	µg/m ³	8.4 U	9800 U	8.4 U	17 U	8.1 U	160 U	8.3 U	13 U	8.3 U	340 U	
Benzene	µg/m ³	2.1 U	2500 U	2.1 U	4.3 U	2.1 U	42 U	3	3.3 U	3	86 U	
Benzyl Chloride	µg/m ³	3.5 U	4100 U	3.5 U	6.9 U	3.4 U	67 U	3.4 U	5.4 U	3.4 U	140 U	
Bromodichloromethane	µg/m ³	4.5 U	5200 U	4.5 U	9 U	4.4 U	87 U	4.4 U	7 U	4.4 U	180 U	
Bromoform	µg/m ³	6.9 U	8100 U	6.9 U	14 U	6.7 U	130 U	6.8 U	11 U	6.8 U	280 U	
Bromomethane (Methyl Bromide)	µg/m ³	2.6 U	3000 U	2.6 U	5.2 U	2.5 U	50 U	2.6 U	4 U	2.6 U	100 U	
Carbon disulfide	µg/m ³	2.1 U	2400 U	7.7 J	29 J	2 U	40 U	2.5	9.1	2.5	83 U	
Carbon tetrachloride	µg/m ³	4.2 U	4900 U	4.2 U	8.4 U	4.1 U	82 U	4.2 U	8.3	4.2 U	170 U	
Chlorobenzene	µg/m ³	3.1 U	3600 U	3.1 U	6.2 U	3 U	60 U	3 U	4.8 U	3 U	120 U	
Chloroethane	µg/m ³	1.8 U	2100 U	1.8 U	3.5 U	1.7 U	34 U	1.7 U	2.7 U	1.7 U	71 U	
Chloroform (Trichloromethane)	µg/m ³	3.3 U	3800 U	4.6	6.5 U	3.2 U	63 U	3.2 U	5.1 U	3.2 U	130 U	

TABLE 2
ANALYTICAL RESULTS SUMMARY
SOIL GAS SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HICKSVILLE, NEW YORK
NOVEMBER 2006

Parameters	Units	VZ-10 (D) A-112806-SD-003 11/28/2006	VZ-10 (S) A-112806-SD-004 11/28/2006	VZ-11 (D) A-112806-SD-007 11/28/2006	VZ-11 (D) A-112806-SD-008 11/28/2006	VZ-11 (S) A-112806-SD-009 11/28/2006	VZ-14 (D) A-112806-SD-001 11/28/2006	VZ-14 (S) A-112806-SD-002 11/28/2006	VZ-15 (D) A-112806-SD-006 11/28/2006	VZ-15 (S) A-112806-SD-005 11/28/2006
<i>Volatile Organic Compounds</i>										
Chloromethane (Methyl Chloride)	µg/m ³	5.5 U	6500 U	5.5 U	11 U	5.4 U	110 U	5.4 U	8.6 U	220 U
cis-1,2-Dichloroethene	µg/m ³	2.6 U	3100 U	2.6 U	5.3 U	2.6 U	52 U	2.6 U	4.1 U	110 U
cis-1,3-Dichloropropene	µg/m ³	3 UJ	3600 UJ	3 UJ	6.1 UJ	3 UJ	59 UJ	3 UJ	4.7 UJ	120 UJ
Cyclohexane	µg/m ³	2.3 U	2700 U	2.3 U	4.6 U	2.2 U	45 U	2.3 U	3.6 U	92 U
Dibromochloromethane	µg/m ³	5.7 U	6700 U	5.7 U	11 U	5.5 U	110 U	5.6 U	8.8 U	230 U
Dichlorodifluoromethane (CFC-12)	µg/m ³	3.3 U	3900 U	3.3 U	6.6 U	6.5	64 U	3.3 U	5.1 U	130 U
Ethanol	µg/m ³	5 U	5900 U	7.8	10	12	98 U	5 U	17	200 U
Ethylbenzene	µg/m ³	2.9 U	3400 U	2.9 U	5.8 U	2.8 U	56 U	2.9 U	4.5 U	120 U
Hexachlorobutadiene	µg/m ³	28 UJ	33000 UJ	28 UJ	57 UJ	28 UJ	550 UJ	28 UJ	44 UJ	1100 UJ
Hexane	µg/m ³	2.4 U	2800 U	2.4 U	4.7 U	11	46 U	2.3 U	4.4	94 U
Isopropyl Alcohol	µg/m ³	6.6 U	7700 U	6.6 U	13 U	6.4 U	130 U	6.5 U	10 U	260 U
Isopropylbenzene	µg/m ³	3.3 U	3800 U	6.8	6.6 U	3.2 U	64 U	3.2 U	8.3	130 U
m&p-Xylene	µg/m ³	2.9 U	3400 U	2.9 U	5.8 U	7.3	56 U	3.4	4.5 U	120 U
Methyl Tert Butyl Ether	µg/m ³	2.4 UJ	2800 UJ	2.4 UJ	4.8 UJ	2.3 UJ	47 UJ	2.4 UJ	3.7 UJ	97 UJ
Methylene chloride	µg/m ³	2.3 U	2700 U	2.3 U	4.6 U	11	45 U	2.3 U	3.6 U	93 U
N-Heptane	µg/m ³	2.7 U	3200 U	2.7 U	5.5 U	2.7 U	53 U	2.7 U	4.3 U	110 U
n-Propylbenzene	µg/m ³	3.3 U	3800 U	3.3 U	6.6 U	3.2 U	64 U	3.2 U	5.1 U	130 U
o-Xylene	µg/m ³	2.9 U	3400 U	2.9 U	5.8 U	2.8 U	56 U	2.9 U	4.5 U	120 U
Styrene	µg/m ³	2.8 U	3300 U	2.8 U	5.7 U	2.8 U	55 U	2.8 U	4.4 U	110 U
Tetrachloroethene	µg/m ³	7.2	5300 U	33	31	16	88 U	10	130	180 U
Tetrahydrofuran	µg/m ³	39	310000	560	400	280	8300	120	1700 J	14000
Toluene	µg/m ³	2.5 U	3600	2.6	5 U	16	49 U	3.5	4.8	100 U
trans-1,2-Dichloroethene	µg/m ³	2.6 U	3100 U	2.6 U	5.3 U	2.6 U	52 U	2.6 U	4.1 U	110 U
trans-1,3-Dichloropropene	µg/m ³	3 U	3600 U	3 U	6.1 U	3 U	59 U	3 U	4.7 U	120 U
Trichloroethene	µg/m ³	3.6 U	4200 U	3.6 U	7.2 U	3.5 U	70 U	3.5 U	88	140 U
Trichlorofluoromethane (CFC-11)	µg/m ³	3.8 U	4400 U	8.3	8.7	3.6 U	73 U	8.3	6.5	150 U
Trifluorotrichloroethane (Freon 113)	µg/m ³	5.1 U	6000 U	5.9	10 U	5 U	100 U	6.5	19	200 U
Vinyl chloride	µg/m ³	1.7	2000 U	1.7 U	3.4 U	1.7 U	44	2.3	2.6 U	68 U

Notes:

J Estimated.

U Non-detect at associated value.

UJ The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INITIAL CALIBRATION RESULTS

SOIL GAS SAMPLING

MILLER SPRINGS REMEDIATION MANAGEMENT, INC.

HICKSVILLE, NEW YORK

NOVEMBER 2006

Parameter	Compound	Calibration Date	%RSD	Associated Sample ID	Sample Results	Units	Qualifier
VOCs	Hexachlorobutadiene	11/21/06	32	A-112806-SD-001	550 U	µg/m ³	UJ
				A-112806-SD-002	28 U	µg/m ³	UJ
				A-112806-SD-003	28 U	µg/m ³	UJ
				A-112806-SD-004	33000 U	µg/m ³	UJ
				A-112806-SD-005	1100 U	µg/m ³	UJ
				A-112806-SD-006	44 U	µg/m ³	UJ
				A-112806-SD-007	28 U	µg/m ³	UJ
				A-112806-SD-008	57 U	µg/m ³	UJ
				A-112806-SD-009	28 U	µg/m ³	UJ
VOCs	Methyl Tert Butyl Ether	11/21/06	40	A-112806-SD-001	47 U	µg/m ³	UJ
				A-112806-SD-002	2.4 U	µg/m ³	UJ
				A-112806-SD-003	2.4 U	µg/m ³	UJ
				A-112806-SD-004	2800 U	µg/m ³	UJ
				A-112806-SD-005	97 U	µg/m ³	UJ
				A-112806-SD-006	3.7 U	µg/m ³	UJ
				A-112806-SD-007	2.4 U	µg/m ³	UJ
				A-112806-SD-008	4.8 U	µg/m ³	UJ
				A-112806-SD-009	2.3 U	µg/m ³	UJ

Notes:

%RSD Percent Relative Standard Deviation.

U Non-detect at associated value.

UJ The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

VOCs Volatile Organic Compounds.

TABLE 4
QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE RESULTS
SOIL GAS SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HICKSVILLE, NEW YORK
NOVEMBER 2006

<i>Parameter</i>	<i>Compound</i>	<i>Percent Recovery</i>	<i>Control Limits (percent)</i>	<i>Associated Sample ID</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
VOCs	1,2,4-Trimethylbenzene	69	70 - 130	A-112806-SD-001	64 U	µg/m ³	UJ
				A-112806-SD-002	3.2 U	µg/m ³	UJ
				A-112806-SD-003	3.3 U	µg/m ³	UJ
				A-112806-SD-004	3800 U	µg/m ³	UJ
				A-112806-SD-005	130 U	µg/m ³	UJ
				A-112806-SD-006	5.1 U	µg/m ³	UJ
				A-112806-SD-007	3.3 U	µg/m ³	UJ
VOCs	1,2,4-Trimethylbenzene	63	70 - 130	A-112806-SD-008	6.6 U	µg/m ³	UJ
				A-112806-SD-009	3.2 U	µg/m ³	UJ
VOCs	cis-1,3-Dichloropropene	60	70 - 130	A-112806-SD-001	59 U	µg/m ³	UJ
				A-112806-SD-002	3 U	µg/m ³	UJ
				A-112806-SD-003	3 U	µg/m ³	UJ
				A-112806-SD-004	3600 U	µg/m ³	UJ
				A-112806-SD-005	120 U	µg/m ³	UJ
				A-112806-SD-006	4.7 U	µg/m ³	UJ
				A-112806-SD-007	3 U	µg/m ³	UJ
VOCs	cis-1,3-Dichloropropene	61	70 - 130	A-112806-SD-008	6.1 U	µg/m ³	UJ
				A-112806-SD-009	3 U	µg/m ³	UJ

Notes:
U Non-detect at associated value.
UJ The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.
VOCs Volatile Organic Compounds.

TABLE 5
QUALIFIED SAMPLE RESULTS DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
SOIL GAS SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HICKSVILLE, NEW YORK
NOVEMBER 2006

<i>Parameter</i>	<i>Analyte</i>	<i>Original Sample ID</i>	<i>Original Result</i>	<i>Duplicate Sample ID</i>	<i>Duplicate Result</i>	<i>RPD</i>	<i>Units</i>	<i>Qualifier ⁽¹⁾</i>
VOCs	Carbon disulfide	A-112806-SD-007	7.7	A-112806-SD-008	29	116	µg/m ³	J

Notes:

- (1) Qualifier is associated with both original and duplicate result.
- J Estimated.
- RPD Relative Percent Difference.
- VOCs Volatile Organic Compounds.

TABLE 6
TENTATIVELY IDENTIFIED COMPOUNDS
SOIL GAS SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HICKSVILLE, NEW YORK
NOVEMBER 2006

<i>Sample ID</i>	<i>Volatile Organic Compounds</i>	<i>Estimated Concentration (ppbv)</i>
A-112806-SD-001	1-Propene, 2-methyl- Cyclohexanone	80J 2900J
A-112806-SD-002	Ethane, 1-chloro-1,1-difluoro Cyclohexanol Cyclohexanone Unknown	60J 9.8J 380J 5.6J
A-112806-SD-003	Ethane, 1-chloro-1,1-difluoro Cyclohexanone Unknown	90J 80J 3.5J
A-112806-SD-004	-	-
A-112806-SD-005	Cyclohexanone	870J
A-112806-SD-006	3-Butenoic Acid Propane, 2-methyl Ethane, 1-chloro-1,1-difluoro 2-Butene, (Z)- Germacyclohexane, 1,1-difluoro- Pentane Cyclohexanone Unknown	25J 7.4J 7.5J 43J 15J 6.6J 19J 18J
A-112806-SD-007	Butane 2-Hexen-1-ol, (Z) Cyclohexanone Unknown	6.7J 66J 660J 6.4J
A-112806-SD-008	2-Butene 2-Hexen-1-ol, (Z) 2(5H)-Furanone, 5-methyl- 3-Ethoxy-1,1,1,5,5,5-Hexamethyl-3(Trime	6.8J 34J 320J 18J
A-112806-SD-009	Propane,2-methyl- Butane, 2-methyl Pentane Cyclohexanone Unknowns	29J 16J 16J 65J 48J

Notes:

- Not applicable.
- J Estimated.



**CONESTOGA-ROVERS
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Revised: March 23, 2007
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ANALYTICAL DATA ASSESSMENT AND VALIDATION
HOOKER-RUCO QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HICKSVILLE, NEW YORK
JANUARY 2007

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1.0 INTRODUCTION

Groundwater samples were collected at the former Hooker Ruco Site in Hicksville, New York (Site), in support of the biosparge system. The sampling event presented herein is the January 2007 quarterly performance groundwater sampling program. Analytical services were performed by H2M Labs, Inc., in Melville, New York (H2M). A summary of the sampling and analysis scheme is presented in Table 1.

A summary of the analytical data is presented in Table 2. The samples were analyzed for volatile organic compounds (VOCs), total organic carbon (TOC), ammonia, nitrite, nitrate, and total phosphorus.

The quality assurance/quality control (QA/QC) criteria by which these data have been assessed are outlined in the analytical methods. Additional validation guidelines were referenced from the following documents:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-94-012, February 1994; and
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994.

Full raw data deliverables were provided by the laboratory. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting QA/QC provided.

2.0 SAMPLE HOLDING TIMES

The method-specific holding time criteria are summarized in Table 5.1 of the Quality Assurance Project Plan (QAPP). All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled to 4°C (±2°C) after collection. All samples were received by the laboratory in good condition.

3.0 GAS CHROMATOGRAPH/MASS SPECTROMETER (GC/MS) TUNING AND MASS CALIBRATION - VOCs

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the VOC method requires the analysis of the specific tuning compound bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the VOC analysis period. All tuning criteria were met for the analyses, indicating proper optimization of the instrumentation.

4.0 INSTRUMENT CALIBRATION

4.1 CC/MS CALIBRATION - VOCs

4.1.1 TUNING AND MASS CALIBRATION

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the VOC method requires the analysis of the specific tuning compounds BFB. The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the VOC analysis period. All tuning criteria were met for the analyses, indicating proper optimization of the instrumentation.

4.1.2 INITIAL CALIBRATION

To quantify compounds of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

- i) all relative response factors (RRFs) must be greater than or equal to 0.05; and
- ii) for average response factors are employed, percent relative standard deviation (%RSD) values must not exceed 30 percent.

The initial calibration data for VOCs were reviewed and met the above criteria for linearity and sensitivity for all compounds of interest.

4.1.3 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

- i) all RRF values must be greater than or equal to 0.05; and
- ii) percent difference (%D) values must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity with the exception of %D values for some VOC compounds which exceeded the 25 percent criterion during the analysis period. All associated sample results were qualified as estimated to reflect variability in instrument response (see Table 3 for a summary of sample data qualifications).

4.3 INSTRUMENTAL CALIBRATION – GENERAL CHEMISTRY

4.3.1 INITIAL CALIBRATION

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For general chemistry, calibration is performed based on the analysis of at least three standards and a blank. Resulting correlation coefficients for curves must be at least 0.995.

After calibration, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within control limits of 85 to 115 percent.

Upon review of the data, it was determined that all inorganic calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that instrumentation used for these analyses was properly calibrated prior to sample analyses.

4.3.2 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

5.0 SURROGATE COMPOUND ANALYSES - VOCs

In accordance with the methods employed, all samples, blanks, and standards analyzed for VOCs are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits.

Surrogates were added to all samples, blanks, and QC samples prior to analysis. Surrogate recoveries met the acceptance criteria for all samples demonstrating acceptable analytical accuracy in this sample matrix.

6.0 INTERNAL STANDARD (IS) RECOVERIES - VOCs

To ensure that changes in GC/MS response and sensitivity do not affect sample analysis results, IS compounds are added to all samples, blanks, and spike samples prior to VOC analysis. All results are calculated as a ratio of the IS response. The criteria by which the IS results are assessed are as follows:

- i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard; and

- ii) the retention time of the IS must not vary more than ± 30 seconds from the associated calibration standard.

The sample IS recoveries met the above criteria and were used to calculate all positive sample results.

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES-VOCs

MS/MSD samples were prepared for VOC analysis. The recoveries of spike analyses are used to assess the analytical accuracy achieved on the individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and the MSD are used to assess analytical precision.

MS/MSD results were within the acceptable limits.

8.0 MATRIX SPIKE (MS) AND DUPLICATE ANALYSES-GENERAL CHEMISTRY

To evaluate the effects of sample matrices on the measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. The established control limits for inorganic matrix spike recoveries are 75 to 125 percent. Spike recoveries are not assessed for samples having original concentrations significantly greater than the spike concentration (>four times).

Analytical precision is evaluated based on the analysis of duplicate samples. Laboratory duplicate results are assessed against a maximum RPD of 20 percent.

Matrix spikes and duplicate analyses were performed at the required frequency for all general chemistry analyses. The results showed acceptable accuracy and precision on this sample matrix.

9.0 LABORATORY CONTROL SAMPLE (LCS) ANALYSES

The LCS serves as a monitor of the overall performance of all steps in the analysis, including the sample preparation. LCSs are analyzed using the same sample

preparation, analytical methods, and QA/QC procedures employed for the investigative samples.

LCSs were prepared and analyzed for all general chemistry and VOC parameters. The LCS results showed good overall analytical accuracy with the exception of a slightly low recovery in one VOC LCS. Associated sample results were qualified as estimated to reflect the potential low bias (see Table 4).

10.0 METHOD BLANK ANALYSES

Method blanks are prepared from deionized water and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures. Additionally, continuing calibration blanks (CCBs) are routinely analyzed after each CCV for the inorganic parameters.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch and CCBs were analyzed for inorganic parameters after each CCV. The data were non-detect for the analytes of interest with the exception of a low concentration of methylene chloride present in one VOC method blank. Associated sample results were either non-detect or significantly greater than the concentration found in the blank would not have been impacted.

11.0 RINSE BLANK ANALYSIS

One rinse blank was submitted with the investigative samples for analysis. The rinse blank was analyzed for all the parameters of interest.

The results of the rinse blank analyses were non-detect with the exception of nitrate and TOC. Associated nitrate and TOC results with concentrations similar to those found in the rinse blank were qualified non-detect (see Table 5).

12.0 TRIP BLANK ANALYSIS-VOCs

Trip blanks were submitted with the investigative samples as indicated in Table 1. All trip blank results were non-detect for the compounds of interest.

13.0 **CONCLUSION**

Based on the preceding assessment, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

TABLES

TABLE 1
SAMPLING AND ANALYSIS SUMMARY
QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER-RUCO SITE
HICKSVILLE, NEW YORK
JANUARY 2007

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>		Comments
				TOC, NH ₃ , NO ₂ , NO ₃ , Total Phosphate	VOCs	
G-012307-SD-001	MW-61 D2	01/23/07	11:30	x	x	
G-012307-SD-002	MW-61 D1	01/23/07	14:35	x	x	
Trip Blank	-	01/23/07	-		x	Trip Blank
G-012407-SD-003	MW-61 I	01/24/07	12:15	x	x	
G-012407-RR-004	MW-87 D1	01/24/07	11:55	x	x	
G-012407-SD-005	MW-81 D2	01/24/07	16:10	x	x	
G-012407-RR-006	MW-87 D2	01/24/07	15:45	x	x	
Trip Blank	-	01/24/07	-		x	Trip Blank
G-012507-SD-007	MW-82 D2	01/25/07	11:30	x	x	
G-012507-RR-008	MW-88D2	01/25/07	15:25	x	x	
G-012507-SD-009	MW-82 D1	01/25/07	15:10	x	x	
G-012507-RR-010	MW-88 D2	01/25/07	15:35	x	x	
Trip Blank	-	01/25/07	-		x	Trip Blank
G-012907-SD-011	MW-81 D1	01/29/07	12:10	x	x	
G-012907-RR-012	MW-84 D2	01/29/07	13:05	x	x	
G-013007-SD-013	MW-84 D1	01/30/07	12:40	x	x	
G-012907-RR-014	MW-83 D2	01/29/07	16:15	x	x	
G-013007-RR-016	MW-83 D1	01/30/07	11:25	x	x	
G-013007-RR-018	MW-88 D1	01/30/07	15:35	x	x	
FB-013007-SD-001	Field Blank	01/30/07	15:15	x	x	Field Blank
Trip Blank	-	01/30/07	-	x	x	Trip Blank

Notes:

- Not applicable.
- NH₃ Total Ammonia.
- NO₂ Nitrate.
- NO₃ Nitrite.
- TOC Total Organic Carbon.
- VOCs Volatile Organic Compounds.

TABLE 2

ANALYTICAL RESULTS SUMMARY
 QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 JANUARY 2007

Sample Location:	MW-61D2	MW-61D1	MW-61I	MW-81D1	MW-81D2	MW-82D1	MW-82D2	MW-83D1	MW-83D2
Sample ID:	G-012307-SD-001	G-012307-SD-002	G-012407-SD-003	G-012907-SD-011	G-012407-SD-005	G-012507-SD-009	G-012507-SD-007	G-013007-RR-016	G-012907-RR-014
Sample Date:	1/23/2007	1/23/2007	1/24/2007	1/29/2007	1/24/2007	1/25/2007	1/25/2007	1/30/2007	1/29/2007
Parameters	Units	Units	Units	Units	Units	Units	Units	Units	Units
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ
1,1-Dichloroethane	µg/L	4 J	5 U	5 U	3 J	4 J	2 J	5 U	3 J
1,1-Dichloroethene	µg/L	5	5 U	5 U	2 J	2 J	1 J	2 J	2 J
1,2-Dichloroethane	µg/L	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U
1,2-Dichloroethene (total)	µg/L	100	3 J	31	2 J	110	160	30	9
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	130 J	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
2-Hexanone	µg/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Acetone	µg/L	14	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	µg/L	1 J	5 U	1 J	5 U	3 J	5 U	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ
Bromoform	µg/L	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U
Bromomethane (Methyl Bromide)	µg/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ
Chlorobenzene	µg/L	5 U	4 J	1 J	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	41	5 U	13	5 U	6	5 U
Chloroform (Trichloromethane)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane (Methyl Chloride)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	160	5 U	8	6.2	50	150	44	13
Toluene	µg/L	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 U
Trichloroethene	µg/L	590	5 U	9	32	130	110	320	75
Vinyl chloride	µg/L	3100	3 J	690	5	5500	180	130	22
Xylene (total)	µg/L	2 J	5 U	2 J	5 U	7.4	5 U	5 U	5 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
 QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 JANUARY 2007

Sample Location:	MW-61D2	MW-61D1	MW-61I	MW-81D1	MW-81D2	MW-82D1	MW-82D2	MW-83D1	MW-83D2
Sample ID:	G-012307-SD-001	G-012307-SD-002	G-012407-SD-003	G-012907-SD-011	G-012407-SD-005	G-012507-SD-009	G-012507-SD-007	G-013007-RR-016	G-012907-RR-014
Sample Date:	1/23/2007	1/23/2007	1/24/2007	1/29/2007	1/24/2007	1/25/2007	1/25/2007	1/30/2007	1/29/2007

Parameters	Units	0.44	0.89	0.95	0.98	0.78	0.65	0.46	0.1 U
General Chemistry									
Ammonia	mg/L	2.35	0.1 U	0.1 U	0.1 U	2.20	1.74	1.68	3.95
Nitrate (as N)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25	0.1 U
Nitrite (as N)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Phosphorus	mg/L	1.5	18.7	16.8	2.1 U	1.4	1 U	1.6 U	1 U
Total Organic Carbon (TOC)									

Notes:
 J Estimated.
 U Non-detect at associated value.
 UJ The analyte was not detected above the sample quantification limit. The reported quantification limit is an estimated quantity.

TABLE 2

ANALYTICAL RESULTS SUMMARY
 QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 JANUARY 2007

Parameters	Units	MW-84D1 1/30/2007	MW-84D2 1/29/2007	MW-87D1 1/24/2007	MW-87D2 1/24/2007	MW-88D1 1/30/2007	MW-88D2 1/25/2007	MW-88D2 1/25/2007
Sample Location: MW-84D1 MW-84D2 MW-87D1 MW-87D2 MW-88D1 MW-88D2 MW-88D2								
Sample ID: G-013007-SD-013 G-012907-RR-012 G-012407-RR-004 G-012407-RR-006 G-013007-RR-018 G-012507-RR-008 G-012507-RR-010								
Sample Date: 1/30/2007 1/29/2007 1/24/2007 1/24/2007 1/30/2007 1/25/2007 1/25/2007								
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/L	2 J	5 UJ	5 U	2 J	5 UJ	1 J	1 J
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 UJ	5 UJ	5 U	5 U	5 UJ	5 U	5 U
1,1-Dichloroethane	µg/L	2 J	4 J	5 U	9.1	5 U	4 J	3 J
1,1-Dichloroethene	µg/L	2 J	2 J	5 U	4 J	5 U	3 J	3 J
1,2-Dichloroethane	µg/L	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	5 UJ
1,2-Dichloroethene (total)	µg/L	39	30	60	6.2	22	32	32
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
2-Hexanone	µg/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Acetone	µg/L	5 U	9	5 U	5 U	5 U	5 U	5 U
Benzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	µg/L	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Bromomethane (Methyl Bromide)	µg/L	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 UJ	5 UJ
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 UJ	5 UJ	5 U	5 U	5 UJ	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	3 J	5 U	3 J	5 U	5 U
Chloroform (Trichloromethane)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane (Methyl Chloride)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	µg/L	66	15	74	25	36	180	190
Toluene	µg/L	5 U	1 J	5 U	5 U	2 J	22	23
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Trichloroethene	µg/L	640	94	410	96	7	180	190
Vinyl chloride	µg/L	150	150	220	5 U	74	3400	2900
Xylene (total)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Duplicate

TABLE 2

ANALYTICAL RESULTS SUMMARY
 QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
 MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
 HOOKER-RUCO SITE
 HICKSVILLE, NEW YORK
 JANUARY 2007

Sample Location:	MW-84D1	MW-84D2	MW-87D1	MW-87D2	MW-88D1	MW-88D2	MW-88D2
Sample ID:	G-013007-SD-013	G-012907-RR-012	G-012407-RR-004	G-012407-RR-006	G-013007-RR-018	G-012507-RR-008	G-012507-RR-010
Sample Date:	1/30/2007	1/29/2007	1/24/2007	1/24/2007	1/30/2007	1/25/2007	1/25/2007
Ammonia	0.26	0.84	1.22	0.14	0.30	0.48	0.49
Nitrate (as N)	3.67	0.53 U	5.15	4.16	0.1 U	0.64	0.62
Nitrite (as N)	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Phosphorus	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Total Organic Carbon (TOC)	1 U	2.7 U	1.4	1 U	2.0 U	5.0	4.8

Units

Parameters

General Chemistry

Notes:

- J Estimated.
- U Non-detect at associated value.
- UJ The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 3
QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER-RUCO SITE
HICKSVILLE, NEW YORK
JANUARY 2007

<i>Parameter</i>	<i>Calibration Date</i>	<i>Compound</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
VOCs	02/01/07	2-Butanone	37	G-012507-RR-010	5 U	µg/L	UJ
				G-012507-SD-007	5 U	µg/L	UJ
				G-012507-SD-009	5 U	µg/L	UJ
VOCs	02/01/07	1,2-Dichloroethane	30	G-012507-RR-010	5 U	µg/L	UJ
				G-012507-SD-007	5 U	µg/L	UJ
				G-012507-SD-009	5 U	µg/L	UJ
VOCs	02/01/07	4-Methyl-2-pentanone	26	G-012507-RR-010	5 U	µg/L	UJ
				G-012507-SD-007	5 U	µg/L	UJ
				G-012507-SD-009	5 U	µg/L	UJ
VOCs	02/01/07	trans-1,3-dichloropropene	30	G-012507-RR-010	5 U	µg/L	UJ
				G-012507-SD-007	5 U	µg/L	UJ
				G-012507-SD-009	5 U	µg/L	UJ
VOCs	02/01/07	2-Hexanone	44	G-012507-RR-010	5 U	µg/L	UJ
				G-012507-SD-007	5 U	µg/L	UJ
				G-012507-SD-009	5 U	µg/L	UJ
VOCs	02/01/07	Bromoform	46	G-012507-RR-010	5 U	µg/L	UJ
				G-012507-SD-007	5 U	µg/L	UJ
				G-012507-SD-009	5 U	µg/L	UJ
VOCs	02/08/07	Bromomethane	30	G-012907-RR-012	5 U	µg/L	UJ
				G-012907-RR-014	5 U	µg/L	UJ
				G-012907-SD-011	5 U	µg/L	UJ
				G-013007-RR-016	5 U	µg/L	UJ
				G-013007-RR-018	5 U	µg/L	UJ
				G-013007-SD-013	5 U	µg/L	UJ
VOCs	02/08/07	2-Butanone	59	G-012907-RR-012	5 U	µg/L	UJ
				G-012907-RR-014	5 U	µg/L	UJ
				G-012907-SD-011	5 U	µg/L	UJ
				G-013007-RR-016	5 U	µg/L	UJ
				G-013007-RR-018	5 U	µg/L	UJ
				G-013007-SD-013	5 U	µg/L	UJ
VOCs	02/08/07	1,1,1-Tetrachloroethane	39	G-012907-RR-012	5 U	µg/L	UJ
				G-012907-RR-014	1 J	µg/L	*
				G-012907-SD-011	5 U	µg/L	UJ
				G-013007-RR-016	5 U	µg/L	UJ
				G-013007-RR-018	5 U	µg/L	UJ
				G-013007-SD-013	2 J	µg/L	*
VOCs	02/08/07	Carbon tetrachloride	29	G-012907-RR-012	5 U	µg/L	UJ
				G-012907-RR-014	5 U	µg/L	UJ
				G-012907-SD-011	5 U	µg/L	UJ
				G-013007-RR-016	5 U	µg/L	UJ
				G-013007-RR-018	5 U	µg/L	UJ
				G-013007-SD-013	5 U	µg/L	UJ

TABLE 3
QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER-RUCO SITE
HICKSVILLE, NEW YORK
JANUARY 2007

<i>Parameter</i>	<i>Calibration Date</i>	<i>Compound</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
VOCs	02/08/07	Bromodichloromethane	27	G-012907-RR-012	5 U	µg/L	UJ
				G-012907-RR-014	5 U	µg/L	UJ
				G-012907-SD-011	5 U	µg/L	UJ
				G-013007-RR-016	5 U	µg/L	UJ
				G-013007-RR-018	5 U	µg/L	UJ
				G-013007-SD-013	5 U	µg/L	UJ
VOCs	02/08/07	4-Methyl-2-pentanone	29	G-012907-RR-012	5 U	µg/L	UJ
				G-012907-RR-014	5 U	µg/L	UJ
				G-012907-SD-011	5 U	µg/L	UJ
				G-013007-RR-016	5 U	µg/L	UJ
				G-013007-RR-018	5 U	µg/L	UJ
				G-013007-SD-013	5 U	µg/L	UJ
VOCs	02/08/07	1,1,2,2-Tetrachloroethane	29	G-012907-RR-012	5 U	µg/L	UJ
				G-012907-RR-014	5 U	µg/L	UJ
				G-012907-SD-011	5 U	µg/L	UJ
				G-013007-RR-016	5 U	µg/L	UJ
				G-013007-RR-018	5 U	µg/L	UJ
				G-013007-SD-013	5 U	µg/L	UJ
VOCs	02/08/07	2-Hexanone	30	G-012907-RR-012	5 U	µg/L	UJ
				G-012907-RR-014	5 U	µg/L	UJ
				G-012907-SD-011	5 U	µg/L	UJ
				G-013007-RR-016	5 U	µg/L	UJ
				G-013007-RR-018	5 U	µg/L	UJ
				G-013007-SD-013	5 U	µg/L	UJ
VOCs	02/01/07	2-Butanone	34	G-012307-SD-001	130	µg/L	j
				G-012307-SD-002	5 U	µg/L	UJ
				G-012407-RR-004	5 U	µg/L	UJ
				G-012407-RR-006	5 U	µg/L	UJ
				G-012407-SD-003	5 U	µg/L	UJ
				G-012407-SD-005	5 U	µg/L	UJ
VOCs	02/01/07	1,2-Dichloroethane	27	G-012307-SD-001	5 U	µg/L	UJ
				G-012307-SD-002	5 U	µg/L	UJ
				G-012407-RR-004	5 U	µg/L	UJ
				G-012407-RR-006	5 U	µg/L	UJ
				G-012407-SD-003	5 U	µg/L	UJ
				G-012407-SD-005	5 U	µg/L	UJ
VOCs	02/01/07	1,2-Dichloroethane	27	G-012507-RR-008	5 U	µg/L	UJ
				G-012507-RR-008	5 U	µg/L	UJ
				G-012507-RR-008	5 U	µg/L	UJ
				G-012507-RR-008	5 U	µg/L	UJ
				G-012507-RR-008	5 U	µg/L	UJ
				G-012507-RR-008	5 U	µg/L	UJ

TABLE 3
QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER-RUCO SITE
HICKSVILLE, NEW YORK
JANUARY 2007

<i>Parameter</i>	<i>Calibration Date</i>	<i>Compound</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
VOCs	02/01/07	4-Methyl-2-pentanone	25	G-012307-SD-001	5 U	µg/L	UJ
				G-012307-SD-002	5 U	µg/L	UJ
				G-012407-RR-004	5 U	µg/L	UJ
				G-012407-RR-006	5 U	µg/L	UJ
				G-012407-SD-003	5 U	µg/L	UJ
				G-012407-SD-005	5 U	µg/L	UJ
				G-012507-RR-008	5 U	µg/L	UJ
VOCs	02/01/07	2-Hexanone	48	G-012307-SD-001	5 U	µg/L	UJ
				G-012307-SD-002	5 U	µg/L	UJ
				G-012407-RR-004	5 U	µg/L	UJ
				G-012407-RR-006	5 U	µg/L	UJ
				G-012407-SD-003	5 U	µg/L	UJ
				G-012407-SD-005	5 U	µg/L	UJ
				G-012507-RR-008	5 U	µg/L	UJ
VOCs	02/01/07	Bromoform	44	G-012307-SD-001	5 U	µg/L	UJ
				G-012307-SD-002	5 U	µg/L	UJ
				G-012407-RR-004	5 U	µg/L	UJ
				G-012407-RR-006	5 U	µg/L	UJ
				G-012407-SD-003	5 U	µg/L	UJ
				G-012407-SD-005	5 U	µg/L	UJ
G-012507-RR-008	5 U	µg/L	UJ				

Notes:

%D Percent Difference.

J Estimated.

U Non-detect at associated value.

UJ The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

VOCs Volatile Organic Compounds.

TABLE 4
QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE RESULTS
QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER-RUCO SITE
HICKSVILLE, NEW YORK
JANUARY 2007

<i>Parameter</i>	<i>Compound</i>	<i>Percent Recovery</i>	<i>Control Limits (percent)</i>	<i>Associated Sample ID</i>	<i>Sample Results</i>	<i>Units</i>	<i>Qualifier</i>
VOCs	4-Methyl-2-pentanone	70	79 - 121	G-012907-RR-012	5 U	µg/L	UJ
				G-012907-RR-014	5 U	µg/L	UJ
				G-013007-RR-018	5 U	µg/L	UJ

Notes:

U Non-detect at associated value.

UJ The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

VOCs Volatile Organic Compounds.

TABLE 5
QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE RINSE BLANKS
QUARTERLY PERFORMANCE GROUNDWATER SAMPLING
MILLER SPRINGS REMEDIATION MANAGEMENT, INC.
HOOKER-RUCO SITE
HICKSVILLE, NEW YORK
JANUARY 2007

<i>Parameter</i>	<i>Rinse Blank Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Sample Result</i>	<i>Qualified Sample Result</i>	<i>Units</i>
General Chemistry	01/30/07	Nitrate (as N)	0.31	G-012907-RR-012	0.53	0.53 U	mg/L
General Chemistry	01/30/07	Total Organic Carbon (TOC)	3.0	G-012907-RR-012	2.7	2.7 U	mg/L
				G-012907-SD-011	2.1	2.1 U	mg/L
				G-013007-RR-016	1.6	1.6 U	mg/L
				G-013007-RR-018	2.0	2.0 U	mg/L

Note:

U Non-detect at associated value.