ARCADIS Design & Consultancy for natural and built assets

Mr. Todd Caffoe
Regional Hazardous Waste Remediation Engineer
New York State Department of Environmental Conservation
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Subject:
Semiannual Groundwater Monitoring and Reporting
Crosman Site
East Bloomfield, New York

Date:
December 27, 2016

Contact:
William B. Popham

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Email:
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Our ref:
B0041501.0001

Dear Mr. Caffoe:

On behalf of Crosman Corporation and New Coleman Holdings, Inc. (collectively, Crosman), Arcadis of New York, Inc. (Arcadis) has prepared this letter report to update the New York State Department of Environmental Conservation (NYSDEC) on the results of the semiannual groundwater sampling event conducted in October 2016 at the Crosman site, located in East Bloomfield, New York (site).

The groundwater monitoring program at the site has gone through several changes over time. Presently, as requested in the *Semiannual Groundwater Monitoring Report*, dated December 22, 2010, and approved by the NYSDEC, the groundwater program currently includes semiannual sampling of monitoring wells PW-1, MW-4, MW-5, MW-13, MW-14, and MW-15 (conducted in April and October) and annual sampling of monitoring wells MW-3A, MW-17, MW-18, MW-19, and MW-20 (conducted in April).

GROUNDWATER MONITORING

On October 26, 2016, Arcadis collected groundwater quality samples from monitoring wells PW-1, MW-4, MW-5, MW-13, MW-14, and MW-15. Site-wide water-level measurements were also obtained and are presented in Table 1. Figure 1 represents the groundwater elevation contour map for the October 2016 groundwater sampling event.

ALS Environmental laboratory in Rochester, New York, analyzed the groundwater quality samples for volatile organic compounds by United States Environmental Protection Agency Method 8260. Table 2 presents the laboratory analytical results for this event, as well as for previous sampling events (past 10 years to present). Attachment 1 provides the laboratory report documenting the practical quantitation limits and dilution factors.

Analytical data from October 2016 reflects little change in levels of trichloroethene (TCE); overall decreases observed at select wells are consistent with historical fluctuations. In addition, monitoring wells located at the perimeter of the contaminant plume continue to show that the plume is not migrating offsite. Below is a summary of the findings:

- A slight increase in concentration in production well PW-1 – from 79 parts per billion (ppb) in April 2016 to 92 ppb in October 2016.
- A continued non-detectable concentration in monitoring wells MW-4, MW-14, and MW-15.
- A slight increase in concentration in monitoring well MW-5 – from a non-detectable concentration in April 2016 to 6.1 ppb in October 2016 (consistent with concentrations detected at this location prior to April 2016).
- A decrease in concentration in monitoring well MW-13 – from 130 ppb in April 2016 to 96 ppb in October 2016.

Figure 2 provides a map depicting TCE concentrations in groundwater over time (past 10 years to present). For clarity purposes, only data for the groundwater monitoring wells included in the present monitoring program are shown on this figure.

The TCE concentration in the effluent from the cooling pond also remains below the State Pollutant Discharge Elimination System permitted level of 10 ppb.

PUMP WELL OPERATIONS

The groundwater elevation contours (Figure 1) for the groundwater monitoring event show that production well PW-1 continues to influence and capture groundwater flow, thereby maintaining hydraulic control of the site. Therefore, operation of PW-1 continues to maintain hydraulic control of the TCE plume contained in the groundwater system and to demonstrably abate the potential for direct human exposure.

In addition, these groundwater monitoring results continue to demonstrate that the state's water quality standard of 5 ppb for TCE is being achieved at the limits of the area of concern to the extent practicable. Therefore, the remedial goals of the NYSDEC's March 26, 1997 Record of Decision and the remedial action objectives set forth in the *Remedial Design/Remedial Action Work Plan* (Blasland, Bouck & Lee, Inc., May 1997) continue to be achieved.

The first semiannual groundwater sampling event for 2017 is tentatively scheduled for the week of April 17, 2017. As in the past, upon receipt and review of the analytical data, a report will be prepared and submitted to the NYSDEC.

If you should have any questions, feel free to contact me at 585.662.4022.

Sincerely,

Arcadis of New York, Inc.

William B. Popham
Senior Vice President

Copies:
Justin Deming, New York State Department of Health
Timothy S. Martin, Esq., New Coleman Holdings, Inc.
Benedict Moshier, New Coleman Holdings, Inc.
Thomas F. Walsh, Esq., Hiscock & Barclay, LLP
Gina Thomas, Crosman Corporation
Aaron D. Richardson, Arcadis of New York, Inc.

Enclosures:

Tables

1 Groundwater Elevation Data

2 Groundwater Analytical Results

Figures

1 Groundwater Elevation Contour Map – October 26, 2016

2 Map of Trichloroethylene Concentrations in Groundwater

Attachments

1 Laboratory Data

TABLES

Table 1
Groundwater Elevation Data
Semiannual Groundwater Monitoring and Reporting
Crosman Site
East Bloomfield, New York

Location I.D.	T.O.R. Reference Elevation	January 25, 2007		April 26, 2007		July 26, 2007		October 24, 2007		January 23, 2008	
		Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-1	1052.09	7.03	1045.06	5.57	1046.52	6.74	1045.35	18.72	1033.37	9.78	1042.31
MW-1A	1051.86	70.91	980.95	69.12	982.74	68.83	983.03	70.63	981.23	73.88	977.98
MW-2	1018.00	42.18	975.82	46.13	971.87	47.96	970.04	50.28	967.72	50.46	967.54
MW-3	1018.31	27.14	991.17	26.28	992.03	27.97	990.34	28.84	989.47	27.52	990.79
MW-3A	1017.81	47.76	970.05	45.93	971.88	47.25	970.56	49.4	968.41	49.94	967.87
MW-4	976.42	15.96	960.46	12.43	963.99	18.60	957.82	20.92	955.5	18.78	957.64
MW-5	978.93	13.99	964.94	10.91	968.02	15.41	963.52	17.68	961.25	16.89	962.04
MW-6	1015.95	45.6	970.35	43.56	972.39	45.42	970.53	47.9	968.05	48.17	967.78
MW-7	979.31	14.36	964.95	10.7	968.61	16.14	963.17	18.34	960.97	17.5	961.81
MW-8	1025.62	48.58	977.04	47.03	978.59	46.81	978.81	48.52	977.1	49.52	976.1
MW-9	1026.09	52.33	973.76	50.97	975.12	50.44	975.65	52.02	974.07	53.31	972.78
MW-10	1023.87	52.86	971.01	50.86	973.01	51.19	972.68	53.15	970.72	53.84	970.03
MW-11	1016.48	53.1	963.38	51.44	965.04	52.94	963.54	54.68	961.8	54.81	961.67
MW-12	981.84	21.74	960.1	18.35	963.49	24.23	957.61	26.6	955.24	24.29	957.55
MW-13	996.97	29.91	967.06	27.15	969.82	30.64	966.33	33.05	963.92	32.49	964.48
MW-14	1021.66	54.61	967.05	52.09	969.57	55.11	966.55	57.43	964.23	57.34	964.32
MW-15	971.90	11.41	960.49	7.42	964.48	14.30	957.60	16.29	955.61	14.83	957.07
MW-16	1026.88	54.25	972.63	52.67	974.21	52.84	974.04	54.94	971.94	55.88	971
MW-17	1024.17	52.48	971.69	48.95	975.22	48.00	976.17	49.2	974.97	50.34	973.83
MW-18	1002.64	33.5	969.14	31.18	971.46	33.90	968.74	36.01	966.63	35.29	967.35
MW-19	979.81	17.31	962.5	12.84	966.97	21.45	958.36	24.25	955.56	21.76	958.05
MW-20 (1)	1026.09	52.02	974.07	50.73	975.36	50.26	975.83	51.9	974.19	52.99	973.1
MW-21	--	53.02	--	47.31	---	50.74	--	52.45	--	52.5	--
PZ-1	1024.33	51.5	972.83	50.1	974.23	49.76	974.57	51.6	972.73	52.67	971.66
PZ-2	1024.89	54.07	970.82	52.4	972.49	53.24	971.65	55.24	969.65	55.89	969
PZ-3	979.23	--	--	15.36	963.87	21.26	957.97	23.19	956.04	21.28	957.95
PW-1	971.85	13.3	958.55	11.05	960.8	15.90	955.95	18.2	953.65	16.88	954.97

Notes on page 5.

Table 1
Groundwater Elevation Data
Semiannual Groundwater Monitoring and Reporting
Crosman Site
East Bloomfield, New York

Location I.D.	T.O.R. Reference Elevation	April 21, 2008		July 24, 2008		October 29, 2008		April 22, 2009		October 27, 2009	
		Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-1	1052.09	13.95	1038.14	14.3	1037.79	13.09	1039	7.30	1044.79	16.03	1036.06
MW-1A	1051.86	71.48	980.38	70.83	981.03	72.15	979.71	71.47	980.39	71.27	980.59
MW-2	1018.00	48.18	969.82	49.76	968.24	50.91	967.09	47.25	970.75	50.11	967.89
MW-3	1018.31	27	991.31	27.42	990.89	27.25	991.06	27.50	990.81	28.42	989.89
MW-3A	1017.81	48.21	969.6	50.1	967.71	49.73	968.08	47.18	970.63	50.35	967.46
MW-4	976.42	15.19	961.23	19.54	956.88	NR	---	14.98	961.44	19.79	956.63
MW-5	978.93	13.7	965.23	16.69	962.24	18.13	960.8	13.19	965.74	17.01	961.92
MW-6	1015.95	45.88	970.07	47.24	968.71	48.38	967.57	44.68	971.27	47.70	968.25
MW-7	979.31	13.97	965.34	17.35	961.96	18.32	960.99	13.54	965.77	17.71	961.60
MW-8	1025.62	49.29	976.33	48.69	976.93	NR	---	NR	---	48.88	976.74
MW-9	1026.09	52.82	973.27	52.4	973.69	53.29	972.8	51.92	974.17	52.51	973.58
MW-10	1023.87	52.68	971.19	53.07	970.8	54.94	968.93	51.75	972.12	53.58	970.29
MW-11	1016.48	53.04	963.44	54.15	962.33	54.82	961.66	52.31	964.17	57.31	959.17
MW-12	981.84	21.15	960.69	25.24	956.6	26.16	955.68	20.79	961.05	24.96	956.88
MW-13	996.97	29.61	967.36	32.22	964.75	33.35	963.62	28.96	968.01	32.57	964.40
MW-14	1021.66	54.5	967.16	56.59	965.07	57.8	963.86	53.72	967.94	57.12	964.54
MW-15	971.90	9.71	962.19	14.94	956.96	15.59	956.31	10.54	961.36	19.82	952.08
MW-16	1026.88	60.35	966.53	54.81	972.07	57.63	969.25	55.49	971.39	55.35	971.53
MW-17	1024.17	50.11	974.06	49.81	974.36	50.3	973.87	49.36	974.81	52.38	971.79
MW-18	1002.64	33.38	969.26	35.12	967.52	36.03	966.61	32.62	970.02	35.49	967.15
MW-19	979.81	18.45	961..36	22.28	957.53	23.42	956.39	16.80	963.01	22.95	956.86
MW-20 (1)	1026.09	52.52	973.57	52.14	973.95	53.06	973.03	51.63	974.46	52.25	973.84
MW-21	--	53.6	--	53.5	---	53.94	---	51.95	---	54.15	---
PZ-1	1024.33	51.98	972.35	51.72	972.61	53.72	970.61	51.09	973.24	51.88	972.45
PZ-2	1024.89	54.25	970.64	55.04	969.85	55.95	968.94	53.32	971.57	55.30	969.59
PZ-3	979.23	18.17	961.06	22.75	956.48	23.1	956.13	17.16	962.07	21.70	957.53
PW-1	971.85	13.9	957.95	17.99	953.86	19	952.85	13.55	958.30	16.81	955.04

Notes on page 5.

Table 1
Groundwater Elevation Data
Semiannual Groundwater Monitoring and Reporting
Crosman Site
East Bloomfield, New York

Location I.D.	T.O.R. Reference Elevation	April 16, 2010		October 22, 2010		April 21, 2011		October 20, 2011		April 16, 2012	
		Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-1	1052.09	7.88	1044.21	13.65	1038.44	6.02	1046.07	15.31	1036.78	8.59	1043.50
MW-1A	1051.86	71.86	980.00	72.08	979.78	72.12	979.74	71.15	980.71	71.60	980.26
MW-2	1018.00	48.96	969.04	51.12	966.88	48.64	969.36	50.57	967.43	51.18	966.82
MW-3	1018.31	27.57	990.74	27.53	990.78	26.40	991.91	27.01	991.3	28.72	989.59
MW-3A	1017.81	48.84	968.97	50.22	967.59	48.51	969.3	49.43	968.38	48.79	969.02
MW-4	976.42	15.92	960.50	21.44	954.98	14.34	962.08	21.80	954.62	18.24	958.18
MW-5	978.93	19.85	959.08	18.14	960.79	19.23	959.7	17.87	961.06	15.76	963.17
MW-6	1015.95	46.54	969.41	48.80	967.15	46.27	969.68	48.08	967.87	46.54	969.41
MW-7	979.31	15.26	964.05	18.70	960.61	13.60	965.71	18.59	960.72	16.52	962.79
MW-8	1025.62	49.44	976.18	50.39	975.23	49.84	975.78	NR	---	49.05	976.57
MW-9	1026.09	53.11	972.98	53.69	972.40	53.59	972.5	52.50	973.59	52.76	973.33
MW-10	1023.87	53.25	970.62	54.56	969.31	53.08	970.79	53.29	970.58	52.79	971.08
MW-11	1016.48	56.36	960.12	55.40	961.08	53.48	963	54.72	961.76	54.05	962.43
MW-12	981.84	21.80	960.04	27.27	954.57	20.12	961.72	27.54	954.3	23.87	957.97
MW-13	996.97	30.58	966.39	33.52	963.45	29.85	967.12	33.34	963.63	31.41	965.56
MW-14	1021.66	55.28	966.38	58.35	963.31	54.70	966.96	57.75	963.91	56.02	965.64
MW-15	971.90	15.43	956.47	19.36	952.54	10.13	961.77	19.39	952.51	14.09	957.81
MW-16	1026.88	55.55	971.33	56.52	970.36	55.42	971.46	55.22	971.66	55.81	971.07
MW-17	1024.17	53.25	970.92	50.61	973.56	53.83	970.34	49.59	974.58	53.09	971.08
MW-18	1002.64	36.65	965.99	39.20	963.44	37.42	965.22	36.15	966.49	37.95	964.69
MW-19	979.81	19.44	960.37	23.59	956.22	16.13	963.68	24.35	955.46	20.60	959.21
MW-20 (1)	1026.09	52.84	973.25	53.84	972.25	53.29	972.8	52.34	973.75	52.44	973.65
MW-21	--	52.92	---	53.93	---	53.52	---	48.85	---	-	---
PZ-1	1024.33	52.23	972.10	53.24	971.09	52.78	971.55	51.98	972.35	51.92	972.41
PZ-2	1024.89	54.72	970.17	56.53	968.36	54.87	970.02	55.62	969.27	54.68	970.21
PZ-3	979.23	18.43	960.80	24.24	954.99	16.54	962.69	24.40	954.83	21.03	958.20
PW-1	971.85	16.10	957.35	20.01	951.84	12.09	959.76	20.22	951.63	16.43	955.42

Notes on page 5.

Table 1
Groundwater Elevation Data
Semiannual Groundwater Monitoring and Reporting
Crosman Site
East Bloomfield, New York

Location I.D.	T.O.R. Reference Elevation	October 10, 2012		April 8, 2013		October 16, 2013		April 9, 2014		October 29, 2014	
		Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-1	1052.09	18.25	1033.84	8.97	1043.12	15.55	1036.54	6.67	1045.42	13.33	1038.76
MW-1A	1051.86	72.08	979.78	24.39	1027.47	24.37	1027.49	24.35	1027.51	24.55	1027.31
MW-2	1018.00	51.70	966.30	51.15	966.85	50.80	967.20	50.45	967.55	50.14	967.86
MW-3	1018.31	27.98	990.33	27.81	990.50	27.95	990.36	25.57	992.74	27.77	990.54
MW-3A	1017.81	50.49	967.32	50.98	966.83	50.13	967.68	50.49	967.32	49.53	968.28
MW-4	976.42	22.80	953.62	18.37	958.05	18.60	957.82	14.79	961.63	20.45	955.97
MW-5	978.93	19.10	959.83	20.05	958.88	15.35	963.58	14.74	964.19	17.19	961.74
MW-6	1015.95	49.22	966.73	48.80	967.15	48.34	967.61	48.20	967.75	47.69	968.26
MW-7	979.31	19.76	959.55	17.57	961.74	17.75	961.56	14.72	964.59	17.71	961.60
MW-8	1025.62	49.85	975.77	24.31	1001.31	50.15	975.47	51.23	974.39	49.26	976.36
MW-9	1026.09	53.57	972.52	34.89	991.20	53.67	972.42	54.82	971.27	52.75	973.34
MW-10	1023.87	54.51	969.36	55.09	968.78	54.23	969.64	54.74	969.13	53.33	970.54
MW-11	1016.48	55.88	960.60	55.05	961.43	55.22	961.26	54.55	961.93	54.63	961.85
MW-12	981.84	29.14	952.70	24.01	957.83	24.73	957.11	20.69	961.15	26.11	955.73
MW-13	996.97	34.49	962.48	38.94	958.03	32.68	964.29	31.33	965.64	32.63	964.34
MW-14	1021.66	58.88	962.78	57.72	963.94	57.34	964.32	56.54	965.12	57.14	964.52
MW-15	971.90	16.71	955.19	18.12	953.78	13.96	957.94	12.30	959.60	15.32	956.58
MW-16	1026.88	56.31	970.57	57.12	969.76	56.11	970.77	56.81	970.07	55.14	971.74
MW-17	1024.17	50.59	973.58	52.09	972.08	50.84	973.33	51.92	972.25	50.00	974.17
MW-18	1002.64	36.92	965.72	38.35	964.29	35.59	967.05	13.77	988.87	35.34	967.30
MW-19	979.81	25.50	954.31	21.80	958.01	22.33	957.48	15.45	964.36	22.59	957.22
MW-20 (1)	1026.09	53.39	972.70	54.81	971.28	53.49	972.60	54.44	971.65	52.55	973.54
MW-21	--	53.59	---	54.95	---	53.59	---	--	---	60.87	---
PZ-1	1024.33	52.96	971.37	54.23	970.10	53.03	971.30	53.93	970.40	51.95	972.38
PZ-2	1024.89	56.66	968.23	56.87	968.02	56.18	968.71	56.45	968.44	55.34	969.55
PZ-3	979.23	26.07	953.16	20.94	958.29	21.82	957.41	17.51	961.72	23.19	956.04
PW-1	971.85	21.19	950.66	16.81	955.04	17.55	954.30	12.57	959.28	18.35	953.50

Notes on page 5.

Table 1
Groundwater Elevation Data
Semiannual Groundwater Monitoring and Reporting
Crosman Site
East Bloomfield, New York

Location I.D.	T.O.R. Reference Elevation	April 22, 2015		October 21, 2015		April 18, 2016		October 26, 2016	
		Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-1	1052.09	6.30	1045.79	12.89	1039.20	8.41	1043.68	19.50	1032.59
MW-1A	1051.86	24.75	1027.11	71.11	980.75	NR	---	NR	---
MW-2	1018.00	48.75	969.25	49.75	968.25	49.25	968.75	52.78	965.22
MW-3	1018.31	26.63	991.68	27.74	990.57	28.29	990.02	26.39	991.92
MW-3A	1017.81	48.71	969.10	49.40	968.41	49.12	968.69	52.07	965.74
MW-4	976.42	15.70	960.72	21.55	954.87	17.94	958.48	23.47	952.95
MW-5	978.93	14.29	964.64	16.80	962.13	15.70	963.23	20.03	958.90
MW-6	1015.95	46.09	969.86	47.16	968.79	46.59	969.36	50.28	965.67
MW-7	979.31	14.59	964.72	18.18	961.13	14.15	965.16	20.51	958.80
MW-8	1025.62	49.05	976.57	48.61	977.01	49.18	976.44	51.02	974.60
MW-9	1026.09	52.59	973.50	51.95	974.14	52.75	973.34	55.78	970.31
MW-10	1023.87	52.60	971.27	52.75	971.12	52.93	970.94	55.60	968.27
MW-11	1016.48	53.31	963.17	54.43	962.05	54.09	962.39	56.73	959.75
MW-12	981.84	21.52	960.32	27.70	954.14	23.82	958.02	29.69	952.15
MW-13	996.97	21.33	975.64	28.11	968.86	31.35	965.62	35.45	961.52
MW-14	1021.66	55.11	966.55	57.08	964.58	56.00	965.66	59.86	961.80
MW-15	971.90	10.59	961.31	15.60	956.30	13.54	958.36	17.60	954.30
MW-16	1026.88	54.56	972.32	54.45	972.43	54.80	972.08	57.42	969.46
MW-17	1024.17	50.21	973.96	49.55	974.62	50.27	973.90	51.44	972.73
MW-18	1002.64	NR	---	34.58	968.06	34.62	968.02	38.28	964.36
MW-19	979.81	16.73	963.08	23.29	956.52	20.16	959.65	26.32	953.49
MW-20 (1)	1026.09	52.24	973.85	51.71	974.38	52.48	973.61	54.28	971.81
MW-21	--	50.71	---	50.91	---	54.15	---	54.35	---
PZ-1	1024.33	NR	---	51.33	973.00	51.93	972.40	53.92	970.41
PZ-2	1024.89	54.45	970.44	54.93	969.96	54.84	970.05	55.50	969.39
PZ-3	979.23	18.05	961.18	24.60	954.63	20.70	958.53	26.83	952.40
PW-1	971.85	12.68	959.17	19.72	952.13	15.63	956.22	22.60	949.25

Notes:
All data are expressed in feet.
T.O.R. = top of polyvinyl chloride riser
PW reference elevation is taken from baseplate of well pump as provided in Labella's *Preliminary* Site Assessment Report (August 1993).
Wells MW-17, MW-18, MW-19, IRM-1, PZ-1, and PZ-2 were installed during October and November 1994.
Monitoring well MW-1A was installed on September 18 and 19, 1996.
(1) Monitoring well MW-20 was formerly IRM-1.
MW-21 was installed July 31, 2000 through August 3, 2000.
PZ-3 was installed on May 14, 2001.
Groundwater elevations for May and June 2001 were taken during the hydraulic control test for well PW-1.
Depth to water measurements for October 2004 were taken between October 27 to 29, 2004.
NR = not recorded

Table 2
Program Monitoring Wells
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Well I.D.	MW-3A							
Date Sampled	25-Jan-06	11-Apr-06	20-Jul-06	25-Jan-07	26-Jul-07	23-Jan-08	24-Jul-08	22-Apr-09
Volatiles								
Acetone	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-
Trichloroethene	120	100	130	110	120	65	53	91
Toluene	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-

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Program Monitoring Wells
Groundwater Analytical Results
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Well I.D.	MW-3A (cont.)						
Date Sampled	16-Apr-10	21-Apr-11	16-Apr-12	8-Apr-13	9-Apr-14	22-Apr-15	18-Apr-16
Volatiles							
Acetone	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-
Trichloroethene	230 D	240	210	190	280	250	350
Toluene	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-

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Program Monitoring Wells
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Well I.D.	MW-4											
Date Sampled	25-Jan-07	26-Apr-07	26-Jul-07	24-Oct-07	23-Jan-08	21-Apr-08	24-Jul-08	29-Oct-08	22-Apr-09	27-Oct-09	22-Oct-10	21-Apr-11
Volatiles												
Acetone	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-	-	-
1,1 - Dichloroethane	-	-	-	-	-	-	-	-	-	-	-	-
1,1 - Dichloroethene	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2 - Tetrachloroethane	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	5.6	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-	-	-

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Program Monitoring Wells
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Well I.D.	MW-4 (cont.)										
Date Sampled	**20-Oct-11**	**16-Apr-12**	**10-Oct-12**	**8-Apr-13**	**16-Oct-13**	**9-Apr-14**	**29-Oct-14**	**22-Apr-15**	**21-Oct-15**	**18-Apr-16**	**26-Oct-16**
Volatiles											
Acetone	-	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-	-
1,1 - Dichloroethane	-	-	-	-	-	-	-	-	-	-	-
1,1 - Dichloroethene	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2 - Tetrachloroethane	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	4.06	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-	-

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Program Monitoring Wells
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Well I.D.	MW-5									
Date Sampled	25-Jan-06	11-Apr-06	20-Jul-06	24-Oct-06	25-Jan-07	26-Apr-07	26-Jul-07	24-Oct-07	23-Jan-08	21-Apr-08
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	18	16	17	35	25	26	23	21
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Program Monitoring Wells
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Well I.D.	MW-5 (cont.)								
Date Sampled	24-Jul-08	29-Oct-08	22-Apr-09	27-Oct-09	16-Apr-10	22-Oct-10	21-Apr-11	20-Oct-11	16-Apr-12
Volatiles									
Acetone	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-
Trichloroethene	26	29	24	31	28	29	29	27	23
Toluene	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-

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Program Monitoring Wells
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Well I.D.	MW-5 (cont.)								
Date Sampled	**10-Oct-12**	**8-Apr-13**	**16-Oct-13**	**9-Apr-14**	**29-Oct-14**	**22-Apr-15**	**21-Oct-15**	**18-Apr-16**	**26-Oct-16**
Volatiles									
Acetone	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	6.28	9.6	-	8.8	17	15	14	9.4
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-
Trichloroethene	33	16.4	19	7.9	8.7	5.7	6.4	-	6.1
Toluene	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-

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Well I.D.	MW-13									
Date Sampled	25-Jan-06	11-Apr-06	20-Jul-06	25-Jan-07	26-Apr-07	26-Jul-07	24-Oct-07	23-Jan-08	21-Apr-08	24-Jul-08
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	58	-	-	6.4 J	51	-	-	-	50	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	1700	2100	2400	920	1600	2100	1900	580	1300 D	1800
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Well I.D.	MW-13 (cont.)								
Date Sampled	**29-Oct-08**	**22-Apr-09**	**27-Oct-09**	**16-Apr-10**	**22-Oct-10**	**21-Apr-11**	**20-Oct-11**	**16-Apr-12**	**10-Oct-12**
Volatiles									
Acetone	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	33	11	29	-	28	28
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-
Trichloroethene	1000 D	1600	850 D	640	630 D	590	610	460	640
Toluene	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-

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Program Monitoring Wells
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Well I.D.	MW-13 (cont.)							
Date Sampled	8-Apr-13	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16
Volatiles								
Acetone	-	-	-	-	-	-	-	-
Benzaldehyde	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	19.2	-	-	-	-	29	-	13
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-
Naphthalene	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-
Trichloroethene	381	480	310	190	180	400 D	130	96
Toluene	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-

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Well I.D.	MW-14									
Date Sampled	25-Jan-06	11-Apr-06	20-Jul-06	24-Oct-06	25-Jan-07	26-Apr-07	26-Jul-07	24-Oct-07	23-Jan-08	21-Apr-08
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride		-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5.9	14	46	20	17	19	47	32	-	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Program Monitoring Wells
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Well I.D.	MW-14 (cont.)								
Date Sampled	24-Jul-08	29-Oct-08	22-Apr-09	27-Oct-09	16-Apr-10	22-Oct-10	21-Apr-11	20-Oct-11	16-Apr-12
Volatiles									
Acetone	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-
Trichloroethene	15	-	-	10	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-

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Table 2
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-14 (cont.)								
Date Sampled	10-Oct-12	8-Apr-13	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16
Volatiles									
Acetone	-	-	-	-	-	-	-	-	-
Benzaldehyde	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-
Naphthalene	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-

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Program Monitoring Wells
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Well I.D.	MW-15										
Date Sampled	11-Apr-06	25-Jan-07	26-Jul-07	23-Jan-08	24-Jul-08	22-Apr-09	27-Oct-09	16-Apr-10	22-Oct-10	21-Apr-11	20-Oct-11
Volatiles											
Acetone	-	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-	-

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Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-15 (cont.)									
Date Sampled	16-Apr-12	10-Oct-12	8-Apr-13	16-Oct-13	9-Apr-14	29-Oct-14	22-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Program Monitoring Wells
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Well I.D.	MW-17							
Date Sampled	25-Jan-06	11-Apr-06	20-Jul-06	24-Oct-06	25-May-07	24-Oct-07	21-Apr-08	29-Oct-08
Volatiles								
Acetone	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-
Trichloroethene	350	370	380	470 D	590 D	660	670	710
Toluene	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-

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Table 2
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-17 (cont.)							
Date Sampled	22-Apr-09	16-Apr-10	21-Apr-11	16-Apr-12	8-Apr-13	9-Apr-14	22-Apr-15	18-Apr-16
Volatiles								
Acetone	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	6.48	-	-	-
trans-1,2-Dichloroethene	-	25	-	25	13.4	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-
Trichloroethene	500	480	510	370	324	440	400	340
Toluene	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-

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Program Monitoring Wells
Groundwater Analytical Results
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East Bloomfield, New York

Well I.D.	MW-18							
Date Sampled	11-Apr-06	25-Jan-07	26-Jul-07	23-Jan-08	24-Jul-08	22-Apr-09	27-Oct-09	16-Apr-10
Volatiles								
Acetone	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-

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Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-18 (cont.)							
Date Sampled	22-Oct-10	21-Apr-11	20-Oct-11	16-Apr-12	8-Apr-13	9-Apr-14	22-Apr-15	18-Apr-16
Volatiles								
Acetone	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-

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Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-19								
Date Sampled	11-Apr-06	24-Oct-06	26-Apr-07	24-Oct-07	21-Apr-08	29-Oct-08	22-Apr-09	27-Oct-09	16-Apr-10
Volatiles									
Acetone	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-

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Table 2
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-19 (cont.)							
Date Sampled	22-Oct-10	21-Apr-11	20-Oct-11	16-Apr-12	8-Apr-13	9-Apr-14	22-Apr-15	18-Apr-16
Volatiles								
Acetone	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
2-Butanone	-			-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	-			-	-	-	-	-
2-Hexanone	-			-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	-			-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-
Trichloroethene	-	-	-	-	-	-	-	-
Toluene	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-

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Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	PW-1									
Date Sampled	25-Jan-06	11-Apr-06	20-Jul-06	24-Oct-06	25-Jan-07	26-Apr-07	26-Jul-07	24-Oct-07	23-Jan-08	21-Apr-08
Volatiles										
Acetone	-	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-	-
Trichloroethene	300	360	350	260	220	110	400 E	330 D	280 D	160
Toluene	-	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-	-

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Table 2
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	PW-1 (cont.)								
Date Sampled	24-Jul-08	29-Oct-08	22-Apr-09	27-Oct-09	11-Apr-10	22-Oct-10	21-Apr-11	20-Oct-11	16-Apr-12
Volatiles									
Acetone	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-			-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-
Trichloroethene	290	220	92	260	150	200 D	92	160	130
Toluene	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-

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Table 2
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	PW-1 (cont.)								
Date Sampled	10-Oct-12	8-Apr-13	16-Oct-13	9-Apr-14	29-Oct-14	27-Apr-15	21-Oct-15	18-Apr-16	26-Oct-16
Volatiles									
Acetone	-	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-	-
Trichloroethene	150	105	140	120	110	69	98	79	92
Toluene	-	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-	-

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Table 2
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-20 (formerly IRM-1)							
Date Sampled	25-Jan-06	11-Apr-06	20-Jul-06	24-Oct-06	26-Apr-07	24-Oct-07	21-Apr-08	29-Oct-08
Volatiles								
Acetone	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	22	19	17	16	13	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-
Methlyene Chloride	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-
Trichloroethene	270	280	260	230	210	220	180	180
Toluene	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-

Notes on page 27.

Table 2
Program Monitoring Wells
Groundwater Analytical Results
Crosman Site
East Bloomfield, New York

Well I.D.	MW-20 (formerly IRM-1 cont.)							
Date Sampled	22-Apr-09	16-Apr-10	21-Apr-11	16-Apr-12	8-Apr-13	9-Apr-14	22-Apr-15	18-Apr-16
Volatiles								
Acetone	-	-	-	-	-	-	-	-
Benzene	-	-	-	-	-	-	-	-
Bromodichloromethane	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
Carbon Disulfide	-	-	-	-	-	-	-	-
Carbon Tetrachloride	-	-	-	-	-	-	-	-
Chlorobenzene	-	-	-	-	-	-	-	-
Chloroform	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	-	-	-	-	-	-
Dibromochloromethane	-	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	-	-	-	-	-	-
1,1-Dichloroethene	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	-	-
Tetrachloroethene	-	-	-	-	-	-	-	-
Trichloroethene	160	130	150	130	138	170	110	120
Toluene	-	-	-	-	-	-	-	-
Xylenes (total)	-	-	-	-	-	-	-	-

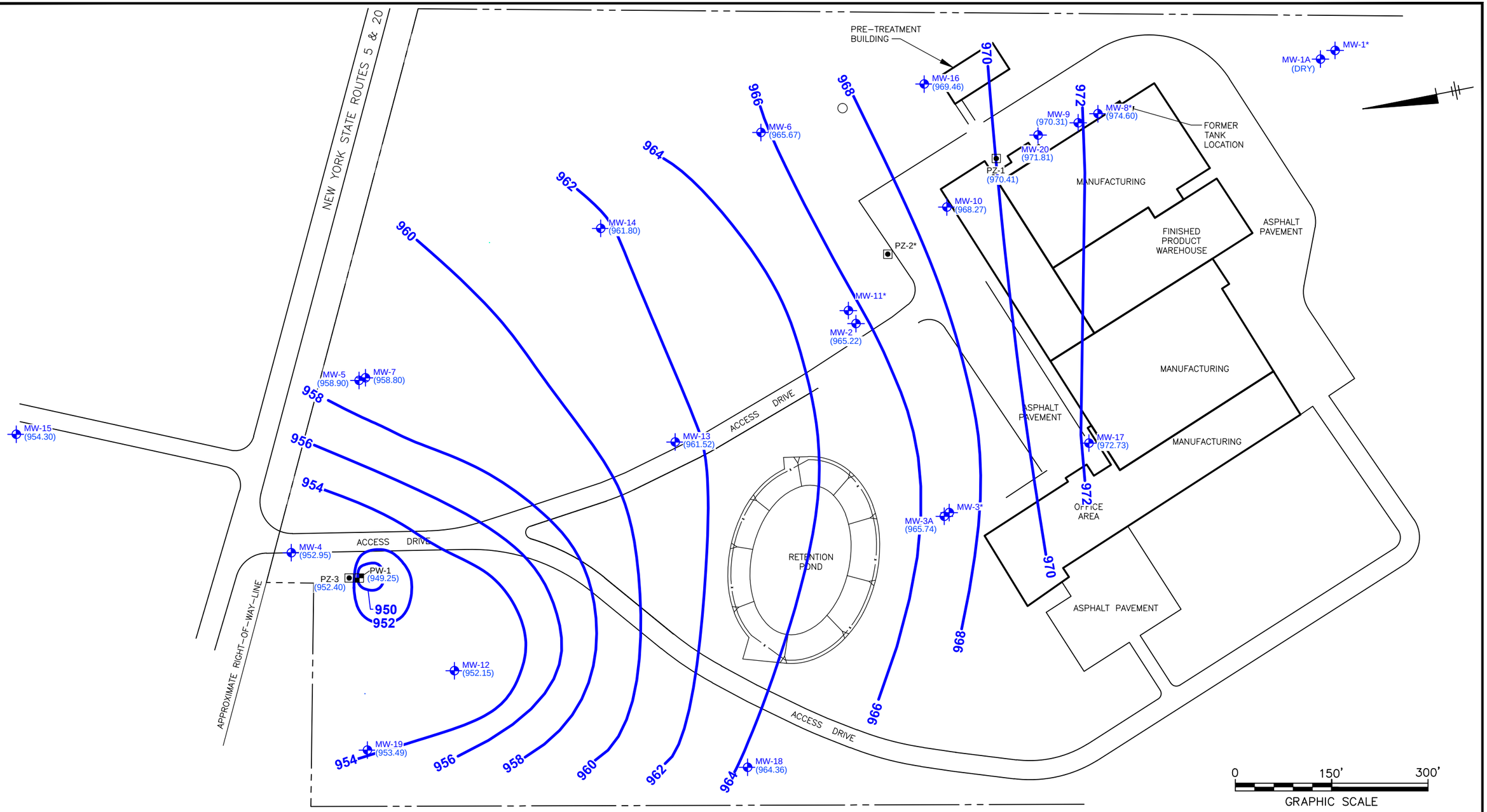
Notes on page 27.

Table 2
Program Monitoring Wells
Groundwater Analytical Results
Qualifiers and Notes
Crosman Site
East Bloomfield, New York

J :	The compound was positively identified; however, the associated numerical value is an estimated concentration.
N :	Spiked sample recovery was not within control limits.
S :	The reported value was determined by the method of standard additions (MSA).
D :	Denotes a secondary dilution.
E :	Exceeds calibration range.
NA :	Denotes not analyzed.
- :	Denotes a nondetectable concentration.

Water quality results are expressed in micrograms per liter (µg/L), equivalent to parts per billion.

FIGURES



NOTES:

1. THE PLANIMETRIC DETAIL AND BOUNDARY LINES SHOWN HERE WERE TAKEN FROM A PLAN ENTITLED "CROSMAN CORPORATION, REMEDIAL INVESTIGATION/INTERIM REMEDIAL MEASURES," PREPARED BY LABELLA, HAVING FILE NUMBER 9124301, AND BEING LAST DATED JUNE, 1993. PLANIMETRIC AND BOUNDARY INFORMATION WAS SHOWN ONLY FOR THE PURPOSE OF ORIENTATION TO MONITORING WELL LOCATIONS.
2. PROJECT BENCHMARK AT TOP OF CASING ON MW-7, ASSUMED LABELLA DATUM ELEV.= 979.71' ABOVE MEAN SEA LEVEL.
3. LOCATION OF WELLS ARE APPROXIMATE.
4. * MONITORING WELLS MW-1, MW-3, MW-8, MW-11, AND PZ-2 WERE NOT USED IN CONTOURING.
5. AMSL = ABOVE MEAN SEA LEVEL.

LEGEND:

- GROUNDWATER MONITORING WELL
- PRODUCTION WELL
- PIEZOMETER
- APPROXIMATE PROPERTY BOUNDARY
- NR — NOT RECORDED
- (964.36) — GROUNDWATER ELEVATION (FEET AMSL)
- 966 — GROUNDWATER ELEVATION CONTOUR (FEET AMSL) (DASHED WHERE INFERRED)

CROSMAN CORPORATION SITE
EAST BLOOMFIELD, NEW YORK

GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 26, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY: Syracuse DIV/GROUP: ENVCAD-141 DB/R:BASSETT LD:(Opt) PIC:(Opt) PM:AR TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B0041501\0001\00006\DWG\41501W07.DWG LAYOUT: 1 SAVED: 12/20/2016 1:37 PM ACADVER: 19.1S (LMS TECH)
PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 12/20/2016 1:37 PM BY: SCHILLING, ADAM
XREFS: IMAGES: PROJECTNAME: ----
41501X01

MW-5					
Jan-06	Apr-06	Jul-06	Oct-06	Jan-07	Apr-07
ND	ND	18	16	17	35
Jul-07	Oct-07	Jan-08	Apr-08	Jul-08	Oct-08
25	26	23	21	26	29
Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11
24	31	28	29	29	27
Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14
23	33	16.4	19	7.9	8.7
Apr-15	Oct-15	Apr-16	Oct-16		
5.7	6.4	ND	6.1		

MW-14					
Jan-06	Apr-06	Jul-06	Oct-06	Jan-07	Apr-07
5.9	14	46	20	17	19
Jul-07	Oct-07	Jan-08	Apr-08	Jul-08	Oct-08
47	32	ND	ND	15	ND
Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11
ND	10	ND	ND	ND	ND
Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14
ND	ND	ND	ND	ND	ND
Apr-15	Oct-15	Apr-16	Oct-16		
ND	ND	ND	ND		

MW-20					
Jan-06	Apr-06	Jul-06	Oct-06	Apr-07	Oct-07
270	280	260	230	210	220
Apr-08	Oct-08	Apr-09	Apr-10	Apr-11	Apr-12
180	180	160	130	150	130
Apr-13	Apr-14	Apr-15	Apr-16		
138	170	110	120		

MW-13					
Jan-06	Apr-06	Jul-06	Jan-07	Apr-07	Jul-07
1700	2100	2400	920	1600	2100
Oct-07	Jan-08	Apr-08	Jul-08	Oct-08	Apr-09
1900	580	1300 D	1800	1000 D	1600
Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12
850 D	640	630 D	590	610	460
Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15
640	381	480	310	190	180
Oct-15	Apr-16	Oct-16			
400 D	130	96			

MW-15					
Apr-06	Jan-07	Jul-07	Jan-08	Jul-08	Apr-09
ND	ND	ND	ND	ND	ND
Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12
ND	ND	ND	ND	ND	ND
Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15
ND	ND	ND	ND	ND	ND
Oct-15	Apr-16	Oct-16			
ND	ND	ND			

MW-4					
Jan-07	Apr-07	Jul-07	Oct-07	Jan-08	Apr-08
8.6	ND	ND	ND	5.6	ND
Jul-08	Oct-08	Apr-09	Oct-09	Oct-10	Apr-11
ND	ND	ND	ND	ND	ND
Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14
ND	ND	ND	4.06	ND	4.06
Oct-14	Apr-15	Oct-15	Apr-16	Oct-16	
ND	ND	ND	ND	ND	

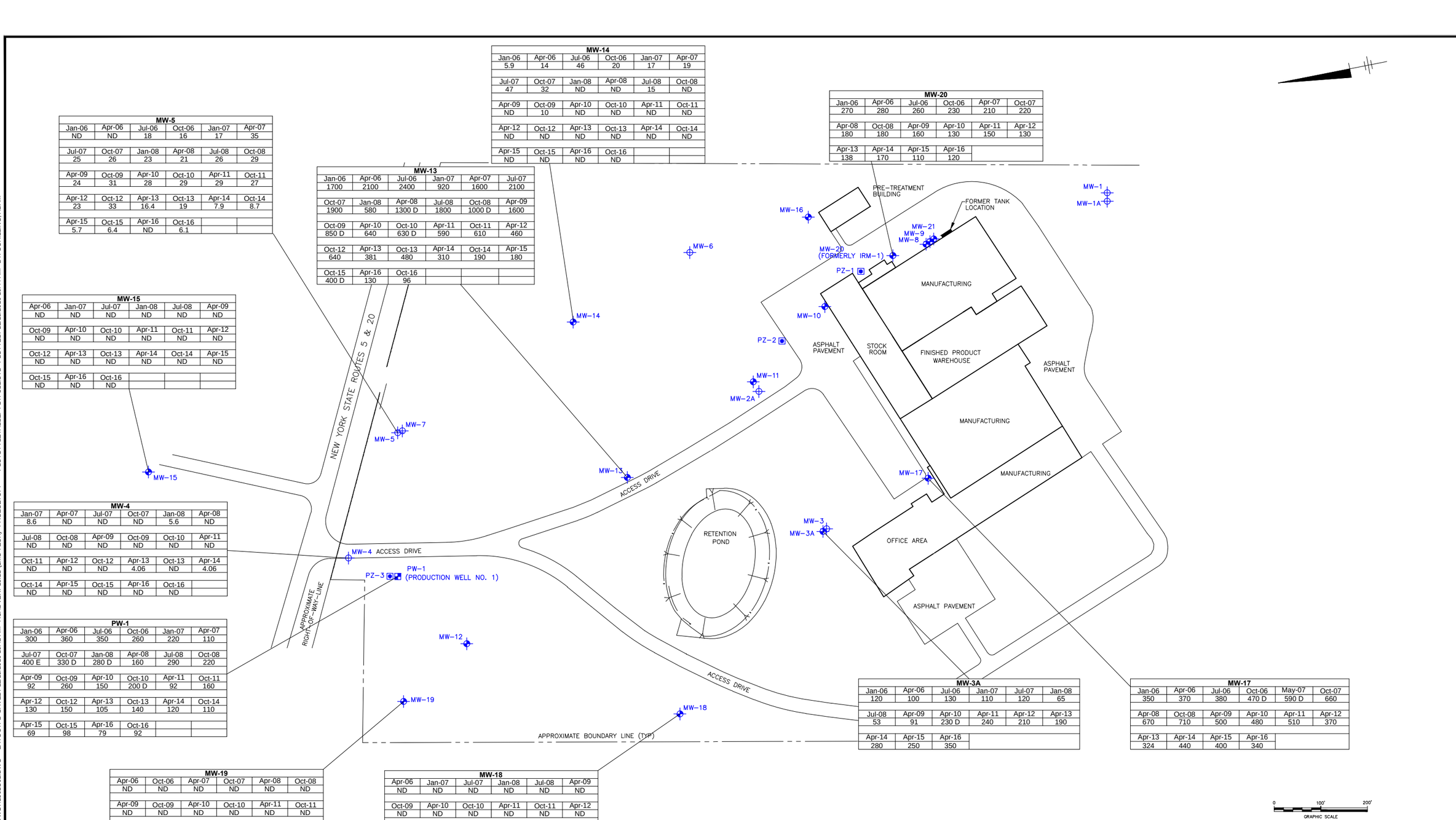
PW-1					
Jan-06	Apr-06	Jul-06	Oct-06	Jan-07	Apr-07
300	360	350	260	220	110
Jul-07	Oct-07	Jan-08	Apr-08	Jul-08	Oct-08
400 E	330 D	280 D	160	290	220
Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11
92	260	150	200 D	92	160
Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14
130	150	105	140	120	110
Apr-15	Oct-15	Apr-16	Oct-16		
69	98	79	92		

MW-19					
Apr-06	Oct-06	Apr-07	Oct-07	Apr-08	Oct-08
ND	ND	ND	ND	ND	ND
Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11
ND	ND	ND	ND	ND	ND
Apr-12	Apr-13	Apr-14	Apr-15	Apr-16	
ND	ND	ND	ND	ND	

MW-18					
Apr-06	Jan-07	Jul-07	Jan-08	Jul-08	Apr-09
ND	ND	ND	ND	ND	ND
Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12
ND	ND	ND	ND	ND	ND
Apr-13	Apr-14	Apr-15	Apr-16		
ND	ND	ND	ND		

MW-3A					
Jan-06	Apr-06	Jul-06	Jan-07	Jul-07	Jan-08
120	100	130	110	120	65
Jul-08	Apr-09	Apr-10	Apr-11	Apr-12	Apr-13
53	91	230 D	240	210	190
Apr-14	Apr-15	Apr-16			
280	250	350			

MW-17						
Jan-06	Apr-06	Jul-06	Oct-06	May-07	Oct-07	
350	370	380	470 D	590 D	660	
Apr-08	Oct-08	Apr-09	Apr-10	Apr-11	Apr-12	
670	710	500	480	510	370	
Apr-13	Apr-14	Apr-15	Apr-16			
324	440	400	340			



0 100' 200'
GRAPHIC SCALE

NOTES:

1. THE PLANIMETRIC DETAIL AND BOUNDARY LINES SHOWN HERE WERE TAKEN FROM A PLAN ENTITLED "CROSMAN CORPORATION, REMEDIAL INVESTIGATION/INTERIM REMEDIAL MEASURES," PREPARED BY LABELLA, HAVING FILE NUMBER 9124301, AND BEING LAST DATED JUNE, 1993. PLANIMETRIC AND BOUNDARY INFORMATION WAS SHOWN ONLY FOR THE PURPOSE OF ORIENTATION TO MONITORING WELL LOCATIONS. LOCATION OF IRM-1 AND ADJACENT BUILDING ARE APPROXIMATE.
2. PROJECT BENCHMARK AT TOP OF CASING ON MW-7, ASSUMED LABELLA DATUM ELEV.= 979.71' ABOVE MEAN SEA LEVEL.
3. ALL RESULTS ARE IN MICROGRAMS PER ELITER (ug/L).
4. LOCATION OF FEATURES SUCH AS MONITORING WELLS AND PIEZOMETERS ARE APPROXIMATE
5. ND = NOT DETECTED. COMPOUNDS DETECTED IN MS/MSD ARE NOT SHOWN.
   J = COMPOUND WAS POSITIVELY IDENTIFIED. HOWEVER, THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
   D = SECONDARY DILUTION
   E = EXCEEDS CALIBRATION RANGE

LEGEND:

- MONITORING WELL BY BBL
- MONITORING WELL BY LABELLA
- PRODUCTION WELL
- PIEZOMETER

CROSMAN CORPORATION SITE
EAST BLOOMFIELD, NEW YORK

MAP OF TRICHLOROETHYLENE CONCENTRATIONS IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

ATTACHMENT 1

Laboratory Data Report

November 03, 2016 Service Request No:R1611387

Mr. Aaron Richardson
ARCADIS of New York, Inc.
295 Woodcliff Drive
Third Floor, Suite 301
Fairport, NY 14450

Laboratory Results for: Crosman

Dear Mr.Richardson,

Enclosed are the results of the sample(s) submitted to our laboratory October 26, 2016
For your reference, these analyses have been assigned our service request number **R1611387.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: ARCADIS of New York, Inc.
Project: Crosman/B0041501.0001.00095
Sample Matrix: Water

Service Request:R1611387
Date Received:10/26/16

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt

7 / Water samples were received for analysis at ALS Environmental on 10/26/2016. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses:

Method 8260C, 10/28/16: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by _____ Date 11/3/2016

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-13	Lab ID: R1611387-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
cis-1,2-Dichloroethene	13		0.30	5.0	ug/L	8260C
Trichloroethene	96		0.22	5.0	ug/L	8260C

CLIENT ID: MW-5	Lab ID: R1611387-003					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
cis-1,2-Dichloroethene	9.4		0.30	5.0	ug/L	8260C
Trichloroethene	6.1		0.22	5.0	ug/L	8260C

CLIENT ID: DW-1	Lab ID: R1611387-004					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Trichloroethene	92		0.22	5.0	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS of New York, Inc. **Service Request:**R1611387
Project: Crosman/B0041501.0001.00095

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1611387-001	MW-13	10/26/2016	1045
R1611387-002	MW-14	10/26/2016	1115
R1611387-003	MW-5	10/26/2016	1015
R1611387-004	DW-1	10/26/2016	0945
R1611387-005	MW-4	10/26/2016	0930
R1611387-006	MW-15	10/26/2016	0900
R1611387-007	TRIP BLANK	10/26/2016	

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

41419

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: CROSMAN	Project Number: 30041501.0001.00095
Project Manager: AARON RICHARDSON	Report CC:
Company/Address: ARCADIS	
285 WOODCLIFF DR. SUITE 301	
FAIRPORT, NY 14450	
Phone #: 585 385 0910	Email:
Sampler's Signature:	Sampler's Printed Name: Geoff Gregentog

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
MW-13		10/26/16	1045	LIQ	3	X							
MW-14			1115		3	X							
MW-5			1015		3	X							
DW-1			0945		3	X							
MW-4			0930		3	X							
MW-15		X	0900	X	3	X							
TRIP													

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
REQUESTED REPORT DATE: STD

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
X III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____Yes ____No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	
Printed Name: Geoff Gregentog	Printed Name: Gregory O. Esmerian	Printed Name	Printed Name	Printed Name	
Firm: ARCADIS	Firm: ALS	Firm	Firm	Firm	
Date/Time: 1610 10/26/16	Date/Time: 10-26-16 16:10	Date/Time	Date/Time	Date/Time	

R1611387
ARCADIS of New York, Inc.
Crosman

5

Distribution: White - Lab Copy; Yellow - Return to Originator

R1611387 5
ARCADIS of New York, Inc.
Crosman

Cooler Receipt and Preservation Check Form

Project/Client Arcadis Folder Number R1611387

Cooler received on 10-26-16 by: KE COURIER: ALS UPS FEDEX VELOCITY (CLIENT)

1	Were Custody seals on outside of cooler?	Y (N)	5a	Perchlorate samples have required headspace?	Y N (NA)
2	Custody papers properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* bubbles?	Y (N) NA
3	Did all bottles arrive in good condition (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) Dry Ice Gel packs present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set (NA)	

8. Temperature Readings Date: 10-26-16 Time: 16:16 ID: (IR#7) IR#8 From: (Temp Blank) Sample Bottle

Observed Temp (°C)	8.0						
Correction Factor (°C)	0						
Corrected Temp (°C)	8.0						
Within 0-6°C?	Y (N)	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (Same Day Rule)

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by KE on 10-26-16 at 16:18
5035 samples placed in storage location. _____ by _____ on _____ at _____

Cooler Breakdown: Date: 10/26/16 Time: 2018 by: DM

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
5. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**	411502Z	10/17				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: _____
Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

PC Secondary Review: MM 10/27/16 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095		

Sample Name:	MW-13	**Date Collected:**	10/26/16
Lab Code:	R1611387-001	**Date Received:**	10/26/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		MCYMBAL

Sample Name:	MW-14	**Date Collected:**	10/26/16
Lab Code:	R1611387-002	**Date Received:**	10/26/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		MCYMBAL

Sample Name:	MW-5	**Date Collected:**	10/26/16
Lab Code:	R1611387-003	**Date Received:**	10/26/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		MCYMBAL

Sample Name:	DW-1	**Date Collected:**	10/26/16
Lab Code:	R1611387-004	**Date Received:**	10/26/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		MCYMBAL

Sample Name:	MW-4	**Date Collected:**	10/26/16
Lab Code:	R1611387-005	**Date Received:**	10/26/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		MCYMBAL

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095		

Sample Name:	MW-15	**Date Collected:**	10/26/16
Lab Code:	R1611387-006	**Date Received:**	10/26/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		MCYMBAL

Sample Name:	TRIP BLANK	**Date Collected:**	10/26/16
Lab Code:	R1611387-007	**Date Received:**	10/26/16
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		MCYMBAL

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 10:45
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R1611387-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	10/28/16 13:10	
Benzene	5.0 U	5.0	1	10/28/16 13:10	
Bromodichloromethane	5.0 U	5.0	1	10/28/16 13:10	
Bromoform	5.0 U	5.0	1	10/28/16 13:10	
Bromomethane	5.0 U	5.0	1	10/28/16 13:10	
2-Butanone (MEK)	10 U	10	1	10/28/16 13:10	
Carbon Disulfide	10 U	10	1	10/28/16 13:10	
Carbon Tetrachloride	5.0 U	5.0	1	10/28/16 13:10	
Chlorobenzene	5.0 U	5.0	1	10/28/16 13:10	
Chloroethane	5.0 U	5.0	1	10/28/16 13:10	
Chloroform	5.0 U	5.0	1	10/28/16 13:10	
Chloromethane	5.0 U	5.0	1	10/28/16 13:10	
Dibromochloromethane	5.0 U	5.0	1	10/28/16 13:10	
1,1-Dichloroethane	5.0 U	5.0	1	10/28/16 13:10	
1,2-Dichloroethane	5.0 U	5.0	1	10/28/16 13:10	
1,1-Dichloroethene	5.0 U	5.0	1	10/28/16 13:10	
cis-1,2-Dichloroethene	**13**	5.0	1	10/28/16 13:10	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 13:10	
1,2-Dichloropropane	5.0 U	5.0	1	10/28/16 13:10	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 13:10	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 13:10	
Ethylbenzene	5.0 U	5.0	1	10/28/16 13:10	
2-Hexanone	10 U	10	1	10/28/16 13:10	
Methylene Chloride	5.0 U	5.0	1	10/28/16 13:10	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	10/28/16 13:10	
Styrene	5.0 U	5.0	1	10/28/16 13:10	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/28/16 13:10	
Tetrachloroethene	5.0 U	5.0	1	10/28/16 13:10	
Toluene	5.0 U	5.0	1	10/28/16 13:10	
1,1,1-Trichloroethane	5.0 U	5.0	1	10/28/16 13:10	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/28/16 13:10	
Trichloroethene	**96**	5.0	1	10/28/16 13:10	
Vinyl Chloride	5.0 U	5.0	1	10/28/16 13:10	
o-Xylene	5.0 U	5.0	1	10/28/16 13:10	
m,p-Xylenes	5.0 U	5.0	1	10/28/16 13:10	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 10:45
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	MW-13	**Units:**	ug/L
Lab Code:	R1611387-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	85 - 122	10/28/16 13:10	
Toluene-d8	113	87 - 121	10/28/16 13:10	
Dibromofluoromethane	109	89 - 119	10/28/16 13:10	

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 11:15
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R1611387-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	10/28/16 13:36	
Benzene	5.0 U	5.0	1	10/28/16 13:36	
Bromodichloromethane	5.0 U	5.0	1	10/28/16 13:36	
Bromoform	5.0 U	5.0	1	10/28/16 13:36	
Bromomethane	5.0 U	5.0	1	10/28/16 13:36	
2-Butanone (MEK)	10 U	10	1	10/28/16 13:36	
Carbon Disulfide	10 U	10	1	10/28/16 13:36	
Carbon Tetrachloride	5.0 U	5.0	1	10/28/16 13:36	
Chlorobenzene	5.0 U	5.0	1	10/28/16 13:36	
Chloroethane	5.0 U	5.0	1	10/28/16 13:36	
Chloroform	5.0 U	5.0	1	10/28/16 13:36	
Chloromethane	5.0 U	5.0	1	10/28/16 13:36	
Dibromochloromethane	5.0 U	5.0	1	10/28/16 13:36	
1,1-Dichloroethane	5.0 U	5.0	1	10/28/16 13:36	
1,2-Dichloroethane	5.0 U	5.0	1	10/28/16 13:36	
1,1-Dichloroethene	5.0 U	5.0	1	10/28/16 13:36	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 13:36	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 13:36	
1,2-Dichloropropane	5.0 U	5.0	1	10/28/16 13:36	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 13:36	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 13:36	
Ethylbenzene	5.0 U	5.0	1	10/28/16 13:36	
2-Hexanone	10 U	10	1	10/28/16 13:36	
Methylene Chloride	5.0 U	5.0	1	10/28/16 13:36	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	10/28/16 13:36	
Styrene	5.0 U	5.0	1	10/28/16 13:36	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/28/16 13:36	
Tetrachloroethene	5.0 U	5.0	1	10/28/16 13:36	
Toluene	5.0 U	5.0	1	10/28/16 13:36	
1,1,1-Trichloroethane	5.0 U	5.0	1	10/28/16 13:36	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/28/16 13:36	
Trichloroethene	5.0 U	5.0	1	10/28/16 13:36	
Vinyl Chloride	5.0 U	5.0	1	10/28/16 13:36	
o-Xylene	5.0 U	5.0	1	10/28/16 13:36	
m,p-Xylenes	5.0 U	5.0	1	10/28/16 13:36	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 11:15
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	MW-14	**Units:**	ug/L
Lab Code:	R1611387-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	85 - 122	10/28/16 13:36	
Toluene-d8	109	87 - 121	10/28/16 13:36	
Dibromofluoromethane	112	89 - 119	10/28/16 13:36	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 10:15
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R1611387-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	10/28/16 14:01	
Benzene	5.0 U	5.0	1	10/28/16 14:01	
Bromodichloromethane	5.0 U	5.0	1	10/28/16 14:01	
Bromoform	5.0 U	5.0	1	10/28/16 14:01	
Bromomethane	5.0 U	5.0	1	10/28/16 14:01	
2-Butanone (MEK)	10 U	10	1	10/28/16 14:01	
Carbon Disulfide	10 U	10	1	10/28/16 14:01	
Carbon Tetrachloride	5.0 U	5.0	1	10/28/16 14:01	
Chlorobenzene	5.0 U	5.0	1	10/28/16 14:01	
Chloroethane	5.0 U	5.0	1	10/28/16 14:01	
Chloroform	5.0 U	5.0	1	10/28/16 14:01	
Chloromethane	5.0 U	5.0	1	10/28/16 14:01	
Dibromochloromethane	5.0 U	5.0	1	10/28/16 14:01	
1,1-Dichloroethane	5.0 U	5.0	1	10/28/16 14:01	
1,2-Dichloroethane	5.0 U	5.0	1	10/28/16 14:01	
1,1-Dichloroethene	5.0 U	5.0	1	10/28/16 14:01	
cis-1,2-Dichloroethene	**9.4**	5.0	1	10/28/16 14:01	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 14:01	
1,2-Dichloropropane	5.0 U	5.0	1	10/28/16 14:01	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 14:01	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 14:01	
Ethylbenzene	5.0 U	5.0	1	10/28/16 14:01	
2-Hexanone	10 U	10	1	10/28/16 14:01	
Methylene Chloride	5.0 U	5.0	1	10/28/16 14:01	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	10/28/16 14:01	
Styrene	5.0 U	5.0	1	10/28/16 14:01	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/28/16 14:01	
Tetrachloroethene	5.0 U	5.0	1	10/28/16 14:01	
Toluene	5.0 U	5.0	1	10/28/16 14:01	
1,1,1-Trichloroethane	5.0 U	5.0	1	10/28/16 14:01	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/28/16 14:01	
Trichloroethene	**6.1**	5.0	1	10/28/16 14:01	
Vinyl Chloride	5.0 U	5.0	1	10/28/16 14:01	
o-Xylene	5.0 U	5.0	1	10/28/16 14:01	
m,p-Xylenes	5.0 U	5.0	1	10/28/16 14:01	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 10:15
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R1611387-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	114	85 - 122	10/28/16 14:01	
Toluene-d8	111	87 - 121	10/28/16 14:01	
Dibromofluoromethane	111	89 - 119	10/28/16 14:01	

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 09:45
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	R1611387-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	10/28/16 14:26	
Benzene	5.0 U	5.0	1	10/28/16 14:26	
Bromodichloromethane	5.0 U	5.0	1	10/28/16 14:26	
Bromoform	5.0 U	5.0	1	10/28/16 14:26	
Bromomethane	5.0 U	5.0	1	10/28/16 14:26	
2-Butanone (MEK)	10 U	10	1	10/28/16 14:26	
Carbon Disulfide	10 U	10	1	10/28/16 14:26	
Carbon Tetrachloride	5.0 U	5.0	1	10/28/16 14:26	
Chlorobenzene	5.0 U	5.0	1	10/28/16 14:26	
Chloroethane	5.0 U	5.0	1	10/28/16 14:26	
Chloroform	5.0 U	5.0	1	10/28/16 14:26	
Chloromethane	5.0 U	5.0	1	10/28/16 14:26	
Dibromochloromethane	5.0 U	5.0	1	10/28/16 14:26	
1,1-Dichloroethane	5.0 U	5.0	1	10/28/16 14:26	
1,2-Dichloroethane	5.0 U	5.0	1	10/28/16 14:26	
1,1-Dichloroethene	5.0 U	5.0	1	10/28/16 14:26	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 14:26	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 14:26	
1,2-Dichloropropane	5.0 U	5.0	1	10/28/16 14:26	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 14:26	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 14:26	
Ethylbenzene	5.0 U	5.0	1	10/28/16 14:26	
2-Hexanone	10 U	10	1	10/28/16 14:26	
Methylene Chloride	5.0 U	5.0	1	10/28/16 14:26	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	10/28/16 14:26	
Styrene	5.0 U	5.0	1	10/28/16 14:26	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/28/16 14:26	
Tetrachloroethene	5.0 U	5.0	1	10/28/16 14:26	
Toluene	5.0 U	5.0	1	10/28/16 14:26	
1,1,1-Trichloroethane	5.0 U	5.0	1	10/28/16 14:26	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/28/16 14:26	
Trichloroethene	**92**	5.0	1	10/28/16 14:26	
Vinyl Chloride	5.0 U	5.0	1	10/28/16 14:26	
o-Xylene	5.0 U	5.0	1	10/28/16 14:26	
m,p-Xylenes	5.0 U	5.0	1	10/28/16 14:26	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 09:45
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	DW-1	**Units:**	ug/L
Lab Code:	R1611387-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	116	85 - 122	10/28/16 14:26	
Toluene-d8	110	87 - 121	10/28/16 14:26	
Dibromofluoromethane	113	89 - 119	10/28/16 14:26	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 09:30
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R1611387-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	10/28/16 14:51	
Benzene	5.0 U	5.0	1	10/28/16 14:51	
Bromodichloromethane	5.0 U	5.0	1	10/28/16 14:51	
Bromoform	5.0 U	5.0	1	10/28/16 14:51	
Bromomethane	5.0 U	5.0	1	10/28/16 14:51	
2-Butanone (MEK)	10 U	10	1	10/28/16 14:51	
Carbon Disulfide	10 U	10	1	10/28/16 14:51	
Carbon Tetrachloride	5.0 U	5.0	1	10/28/16 14:51	
Chlorobenzene	5.0 U	5.0	1	10/28/16 14:51	
Chloroethane	5.0 U	5.0	1	10/28/16 14:51	
Chloroform	5.0 U	5.0	1	10/28/16 14:51	
Chloromethane	5.0 U	5.0	1	10/28/16 14:51	
Dibromochloromethane	5.0 U	5.0	1	10/28/16 14:51	
1,1-Dichloroethane	5.0 U	5.0	1	10/28/16 14:51	
1,2-Dichloroethane	5.0 U	5.0	1	10/28/16 14:51	
1,1-Dichloroethene	5.0 U	5.0	1	10/28/16 14:51	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 14:51	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 14:51	
1,2-Dichloropropane	5.0 U	5.0	1	10/28/16 14:51	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 14:51	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 14:51	
Ethylbenzene	5.0 U	5.0	1	10/28/16 14:51	
2-Hexanone	10 U	10	1	10/28/16 14:51	
Methylene Chloride	5.0 U	5.0	1	10/28/16 14:51	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	10/28/16 14:51	
Styrene	5.0 U	5.0	1	10/28/16 14:51	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/28/16 14:51	
Tetrachloroethene	5.0 U	5.0	1	10/28/16 14:51	
Toluene	5.0 U	5.0	1	10/28/16 14:51	
1,1,1-Trichloroethane	5.0 U	5.0	1	10/28/16 14:51	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/28/16 14:51	
Trichloroethene	5.0 U	5.0	1	10/28/16 14:51	
Vinyl Chloride	5.0 U	5.0	1	10/28/16 14:51	
o-Xylene	5.0 U	5.0	1	10/28/16 14:51	
m,p-Xylenes	5.0 U	5.0	1	10/28/16 14:51	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 09:30
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R1611387-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	85 - 122	10/28/16 14:51	
Toluene-d8	111	87 - 121	10/28/16 14:51	
Dibromofluoromethane	109	89 - 119	10/28/16 14:51	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 09:00
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R1611387-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	10/28/16 15:17	
Benzene	5.0 U	5.0	1	10/28/16 15:17	
Bromodichloromethane	5.0 U	5.0	1	10/28/16 15:17	
Bromoform	5.0 U	5.0	1	10/28/16 15:17	
Bromomethane	5.0 U	5.0	1	10/28/16 15:17	
2-Butanone (MEK)	10 U	10	1	10/28/16 15:17	
Carbon Disulfide	10 U	10	1	10/28/16 15:17	
Carbon Tetrachloride	5.0 U	5.0	1	10/28/16 15:17	
Chlorobenzene	5.0 U	5.0	1	10/28/16 15:17	
Chloroethane	5.0 U	5.0	1	10/28/16 15:17	
Chloroform	5.0 U	5.0	1	10/28/16 15:17	
Chloromethane	5.0 U	5.0	1	10/28/16 15:17	
Dibromochloromethane	5.0 U	5.0	1	10/28/16 15:17	
1,1-Dichloroethane	5.0 U	5.0	1	10/28/16 15:17	
1,2-Dichloroethane	5.0 U	5.0	1	10/28/16 15:17	
1,1-Dichloroethene	5.0 U	5.0	1	10/28/16 15:17	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 15:17	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 15:17	
1,2-Dichloropropane	5.0 U	5.0	1	10/28/16 15:17	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 15:17	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 15:17	
Ethylbenzene	5.0 U	5.0	1	10/28/16 15:17	
2-Hexanone	10 U	10	1	10/28/16 15:17	
Methylene Chloride	5.0 U	5.0	1	10/28/16 15:17	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	10/28/16 15:17	
Styrene	5.0 U	5.0	1	10/28/16 15:17	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/28/16 15:17	
Tetrachloroethene	5.0 U	5.0	1	10/28/16 15:17	
Toluene	5.0 U	5.0	1	10/28/16 15:17	
1,1,1-Trichloroethane	5.0 U	5.0	1	10/28/16 15:17	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/28/16 15:17	
Trichloroethene	5.0 U	5.0	1	10/28/16 15:17	
Vinyl Chloride	5.0 U	5.0	1	10/28/16 15:17	
o-Xylene	5.0 U	5.0	1	10/28/16 15:17	
m,p-Xylenes	5.0 U	5.0	1	10/28/16 15:17	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16 09:00
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	MW-15	**Units:**	ug/L
Lab Code:	R1611387-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	85 - 122	10/28/16 15:17	
Toluene-d8	109	87 - 121	10/28/16 15:17	
Dibromofluoromethane	110	89 - 119	10/28/16 15:17	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	TRIP BLANK	**Units:**	ug/L
Lab Code:	R1611387-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	10/28/16 12:45	
Benzene	5.0 U	5.0	1	10/28/16 12:45	
Bromodichloromethane	5.0 U	5.0	1	10/28/16 12:45	
Bromoform	5.0 U	5.0	1	10/28/16 12:45	
Bromomethane	5.0 U	5.0	1	10/28/16 12:45	
2-Butanone (MEK)	10 U	10	1	10/28/16 12:45	
Carbon Disulfide	10 U	10	1	10/28/16 12:45	
Carbon Tetrachloride	5.0 U	5.0	1	10/28/16 12:45	
Chlorobenzene	5.0 U	5.0	1	10/28/16 12:45	
Chloroethane	5.0 U	5.0	1	10/28/16 12:45	
Chloroform	5.0 U	5.0	1	10/28/16 12:45	
Chloromethane	5.0 U	5.0	1	10/28/16 12:45	
Dibromochloromethane	5.0 U	5.0	1	10/28/16 12:45	
1,1-Dichloroethane	5.0 U	5.0	1	10/28/16 12:45	
1,2-Dichloroethane	5.0 U	5.0	1	10/28/16 12:45	
1,1-Dichloroethene	5.0 U	5.0	1	10/28/16 12:45	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 12:45	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 12:45	
1,2-Dichloropropane	5.0 U	5.0	1	10/28/16 12:45	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 12:45	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 12:45	
Ethylbenzene	5.0 U	5.0	1	10/28/16 12:45	
2-Hexanone	10 U	10	1	10/28/16 12:45	
Methylene Chloride	5.0 U	5.0	1	10/28/16 12:45	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	10/28/16 12:45	
Styrene	5.0 U	5.0	1	10/28/16 12:45	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/28/16 12:45	
Tetrachloroethene	5.0 U	5.0	1	10/28/16 12:45	
Toluene	5.0 U	5.0	1	10/28/16 12:45	
1,1,1-Trichloroethane	5.0 U	5.0	1	10/28/16 12:45	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/28/16 12:45	
Trichloroethene	5.0 U	5.0	1	10/28/16 12:45	
Vinyl Chloride	5.0 U	5.0	1	10/28/16 12:45	
o-Xylene	5.0 U	5.0	1	10/28/16 12:45	
m,p-Xylenes	5.0 U	5.0	1	10/28/16 12:45	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	10/26/16
Sample Matrix:	Water	**Date Received:**	10/26/16 16:10
Sample Name:	TRIP BLANK	**Units:**	ug/L
Lab Code:	R1611387-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	85 - 122	10/28/16 12:45	
Toluene-d8	106	87 - 121	10/28/16 12:45	
Dibromofluoromethane	108	89 - 119	10/28/16 12:45	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ARCADIS of New York, Inc. **Service Request:** R1611387
Project: Crosman/B0041501.0001.00095
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Toluene-d8 87 - 121	Dibromofluoromethane 89 - 119
MW-13	R1611387-001	115	113	109
MW-14	R1611387-002	111	109	112
MW-5	R1611387-003	114	111	111
DW-1	R1611387-004	116	110	113
MW-4	R1611387-005	113	111	109
MW-15	R1611387-006	115	109	110
TRIP BLANK	R1611387-007	113	106	108
Lab Control Sample	RQ1613143-03	114	111	112
Method Blank	RQ1613143-04	113	112	111

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1613143-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	10/28/16 11:42	
Benzene	5.0 U	5.0	1	10/28/16 11:42	
Bromodichloromethane	5.0 U	5.0	1	10/28/16 11:42	
Bromoform	5.0 U	5.0	1	10/28/16 11:42	
Bromomethane	5.0 U	5.0	1	10/28/16 11:42	
2-Butanone (MEK)	10 U	10	1	10/28/16 11:42	
Carbon Disulfide	10 U	10	1	10/28/16 11:42	
Carbon Tetrachloride	5.0 U	5.0	1	10/28/16 11:42	
Chlorobenzene	5.0 U	5.0	1	10/28/16 11:42	
Chloroethane	5.0 U	5.0	1	10/28/16 11:42	
Chloroform	5.0 U	5.0	1	10/28/16 11:42	
Chloromethane	5.0 U	5.0	1	10/28/16 11:42	
Dibromochloromethane	5.0 U	5.0	1	10/28/16 11:42	
1,1-Dichloroethane	5.0 U	5.0	1	10/28/16 11:42	
1,2-Dichloroethane	5.0 U	5.0	1	10/28/16 11:42	
1,1-Dichloroethene	5.0 U	5.0	1	10/28/16 11:42	
cis-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 11:42	
trans-1,2-Dichloroethene	5.0 U	5.0	1	10/28/16 11:42	
1,2-Dichloropropane	5.0 U	5.0	1	10/28/16 11:42	
cis-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 11:42	
trans-1,3-Dichloropropene	5.0 U	5.0	1	10/28/16 11:42	
Ethylbenzene	5.0 U	5.0	1	10/28/16 11:42	
2-Hexanone	10 U	10	1	10/28/16 11:42	
Methylene Chloride	5.0 U	5.0	1	10/28/16 11:42	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	10/28/16 11:42	
Styrene	5.0 U	5.0	1	10/28/16 11:42	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	10/28/16 11:42	
Tetrachloroethene	5.0 U	5.0	1	10/28/16 11:42	
Toluene	5.0 U	5.0	1	10/28/16 11:42	
1,1,1-Trichloroethane	5.0 U	5.0	1	10/28/16 11:42	
1,1,2-Trichloroethane	5.0 U	5.0	1	10/28/16 11:42	
Trichloroethene	5.0 U	5.0	1	10/28/16 11:42	
Vinyl Chloride	5.0 U	5.0	1	10/28/16 11:42	
o-Xylene	5.0 U	5.0	1	10/28/16 11:42	
m,p-Xylenes	5.0 U	5.0	1	10/28/16 11:42	

Analytical Report

Client:	ARCADIS of New York, Inc.	**Service Request:**	R1611387
Project:	Crosman/B0041501.0001.00095	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1613143-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	85 - 122	10/28/16 11:42	
Toluene-d8	112	87 - 121	10/28/16 11:42	
Dibromofluoromethane	111	89 - 119	10/28/16 11:42	

Client: ARCADIS of New York, Inc.
Project: Crosman/B0041501.0001.00095
Sample Matrix: Water

Service Request: R1611387
Date Analyzed: 10/28/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1613143-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	20.8	20.0	104	40-161
Benzene	8260C	20.8	20.0	104	76-118
Bromodichloromethane	8260C	21.0	20.0	105	78-126
Bromoform	8260C	18.4	20.0	92	71-136
Bromomethane	8260C	12.9	20.0	65	42-166
2-Butanone (MEK)	8260C	22.8	20.0	114	61-137
Carbon Disulfide	8260C	23.0	20.0	115	65-127
Carbon Tetrachloride	8260C	22.1	20.0	111	68-125
Chlorobenzene	8260C	21.6	20.0	108	80-121
Chloroethane	8260C	21.3	20.0	106	70-127
Chloroform	8260C	22.1	20.0	110	76-120
Chloromethane	8260C	22.1	20.0	110	69-145
Dibromochloromethane	8260C	19.0	20.0	95	77-128
1,1-Dichloroethane	8260C	22.7	20.0	114	78-117
1,2-Dichloroethane	8260C	23.1	20.0	115	71-127
1,1-Dichloroethene	8260C	21.7	20.0	109	74-135
cis-1,2-Dichloroethene	8260C	21.1	20.0	106	80-121
trans-1,2-Dichloroethene	8260C	21.0	20.0	105	80-120
1,2-Dichloropropane	8260C	21.3	20.0	107	80-119
cis-1,3-Dichloropropene	8260C	20.0	20.0	100	74-126
trans-1,3-Dichloropropene	8260C	20.9	20.0	105	67-135
Ethylbenzene	8260C	21.4	20.0	107	76-120
2-Hexanone	8260C	22.4	20.0	112	63-124
Methylene Chloride	8260C	20.2	20.0	101	73-122
4-Methyl-2-pentanone (MIBK)	8260C	22.6	20.0	113	66-124
Styrene	8260C	21.3	20.0	106	80-124
1,1,2,2-Tetrachloroethane	8260C	19.0	20.0	95	78-122
Tetrachloroethene	8260C	22.6	20.0	113	78-124
Toluene	8260C	22.2	20.0	111	77-120
1,1,1-Trichloroethane	8260C	25.4	20.0	127 *	74-120
1,1,2-Trichloroethane	8260C	20.1	20.0	100	82-118
Trichloroethene	8260C	21.9	20.0	109	78-123
Vinyl Chloride	8260C	24.9	20.0	125	69-133

Client: ARCADIS of New York, Inc.
Project: Crosman/B0041501.0001.00095
Sample Matrix: Water

Service Request: R1611387
Date Analyzed: 10/28/16

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1613143-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	20.8	20.0	104	80-120
m,p-Xylenes	8260C	44.6	40.0	112	78-123