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MEMORANDUM

To: Darlene Stringer, MDEQ
Matt Gamble, MDEQ

FROM: Jeni Quigley/Earl Batenburg/ds/79/Pwl.

CC: David Favero, RACER

REF. No.: 017360-T08Y15

DATE: June 9, 2015

RE: **Spring 2015 Semi-Annual Groundwater Monitoring Report
Former Grand Rapids Metal Plant
Wyoming, Michigan**

Conestoga-Rovers & Associates (CRA), on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, conducted groundwater monitoring activities at the former Grand Rapids Metal Plant property located at 300 36th Street SW in Wyoming, Michigan (Site). The samples were collected during the field event conducted between April 3, 2015 and April 15, 2015. Sampling methodology was utilized in accordance with the 2005 Groundwater Monitoring Work Plan submitted on April 12, 2005 to the Michigan Department of Environmental Quality (MDEQ) and verbally approved on April 28, 2005. Modifications to the aforementioned Work Plan were proposed in a memorandum submitted to the MDEQ on June 3, 2014. The proposed changes included a reduction in the number of monitoring locations and sample analysis parameters. The MDEQ approved the proposed modifications on August 24, 2014. This memorandum (Memorandum) has been prepared to present the results of the Spring 2015 Semi-Annual Groundwater Monitoring activities.

Spring 2015 Monitoring Activities

The SOW for the semi-annual groundwater monitoring program conducted at the Site includes: the collection and analysis of groundwater/surface water samples for Target Compound List (TCL) volatile organic compounds (VOCs) from monitoring wells and culvert locations; the collection and analysis of groundwater samples for TCL semi-volatile organic compounds (SVOCs) from monitoring wells 85-6, MW44-12, MW45-12, MW46-12, MW50-12, MW51-12, and MW52-12; the collection and analysis of groundwater samples for Site-specific Target Analyte List (TAL) metals from monitoring wells MW27-11, MW59-14, and MW60-14; the measurement of static groundwater levels in all monitoring wells; and the monitoring for the potential presence and measurement of light non-aqueous phase liquid (LNAPL) levels, if present, in select Site monitoring wells 85-6, MW44-12, MW45-12, MW46-12, MW50-12, MW51-12, and MW52-12.

A total of 45 groundwater samples, including quality assurance/quality control (QA/QC) samples, were collected from 40 monitoring wells. A total of three surface water samples were collected from culvert locations C-1, C-2 and C-3. All samples were collected between April 6, 2015 and April 15, 2015 for analysis of TCL VOCs, TCL SVOCs, and/or TAL metals, for monitoring wells identified above. Table 1 presents a summary of the samples collected during the spring 2015 semi-annual sampling event.

Dedicated ¼-inch diameter polyethylene tubing is utilized in each of the wells to be sampled. The bottom intake of the tubing was set in the middle of the screened interval for each of the wells. All wells were purged with a peristaltic pump using low-flow purge (LFP) techniques. Wells were purged between 100 and 200 milliliters (mL) per minute with continuous monitoring to confirm less than 0.3 feet of drawdown of the water level. Groundwater quality measurements were recorded in consecutive timed intervals using an YSI® water quality meter and HACH® turbidity meter. Groundwater quality parameters included pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity. Upon stabilization of field measured water quality parameters, based on three consecutive similar readings, groundwater samples were collected. Groundwater quality measurements are presented in Table 2.

Water samples collected from the culvert locations C-1, C-2 and C-3 were collected using a new disposable polyethylene sampling bottle in each location.

Groundwater Elevations and LNAPL

Prior to groundwater sample collection, static water levels were measured and recorded for the monitoring wells. Well caps were unlocked and removed allowing the water levels in the wells to stabilize. Static water levels and LNAPL levels, if present, were measured relative to the top of each riser. CRA was not able to access to the Godwin Public Schools Property due to a change in the athletic field security locks at the time the static water levels were collected; therefore, monitoring wells MW9-04, MW10-04, MW11D-04 and MW11S-05 were not measured and also not included in the determination of groundwater flow. Access to sample these wells was gained at a later date for sampling purposes. Table 3 presents static water levels for April 3, 2015. Figure 1 presents the approximate groundwater flow direction for April 3, 2015.

No measurable thickness of LNAPL was detected in monitoring wells 85-6, MW44-12, MW45-12, MW46-12, MW50-12, MW51-12, or MW52-12. Sheen has historically been observed in monitoring wells in this area; however, no sheen was observed in any of the monitoring wells during this event.

Analytical Results

Analytical results for groundwater samples were evaluated against the Generic Residential and Non-Residential Cleanup Criteria and Screening Levels established in Part 7 of Administrative Rules, effective December 30, 2013, pursuant to Part 201, Environmental Remediation, 1994 PA 451, as amended. Analytical results for groundwater compared to the aforementioned criteria are presented in Table 4. Analytical results for surface water samples collected are presented in Table 5. Figure 2 presents a summary of groundwater samples analyzed for TAL metals from the last six monitoring events. Figure 3

presents a summary of groundwater samples analyzed for VOCs and SVOCs from the last six monitoring events.

A QA/QC data validation was conducted on the analytical data. Copies of analytical data and data validation memorandum summarizing the results of the data validation are presented in Attachment A and Attachment B, respectively. Estimated concentrations are identified in the tables of the memorandum which include qualifications due to contamination in the laboratory method blank, outlying matrix spike/matrix spike duplicate percent recovery and relative percent difference, and analyte concentrations in the trip blanks. Based on the review of the data validation memorandum, the data produced by ALS-MI were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted in the tables in the data validation memoranda. Data was qualified for manganese for the groundwater sample collected from MW27-11 due to detection of this analyte in the method blank. Data was also qualified for nickel for the groundwater samples collected from MW27-11 and MW60-14 for detections in the method blank. Data was qualified for 4-methyl-2-pentanone for the groundwater sample collected from MW34-12 due to outlying matrix spike/matrix spike duplicate results. Data was qualified for naphthalene for the groundwater sample collected from MW52-12 due to outlying matrix spike/matrix spike duplicate results. Data was qualified for acetone in the samples collected from MW52-12 and MW44-12 due to detection of these analytes in the trip blank.

Analytical results for groundwater samples are generally consistent with concentrations and constituents identified during previous monitoring events. Figures presenting analytical groundwater results from the previous five semi-annual monitoring events are presented in Attachment C.

Tetrachloroethene was detected in surface water samples collected at culverts C-1 and C-3 at concentrations consistent with historical monitoring events. As a screening tool, the results of the surface water samples were compared to the Rule 57 Water Quality Values. Surface water sample results do not exceed any of the Rule 57 values.

Conclusions and Recommendations

The analytical results for the groundwater and surface water samples were consistent with previously conducted monitoring events. The fall 2015 semi-annual monitoring event will be conducted consistent with the currently approved monitoring program. A No Further Action Report is currently being developed for the Site, including a Post-Closure Monitoring Plan. Any recommendations for changes to the currently approved monitoring program will be presented for MDEQ consideration in the Post-Closure Monitoring Plan.

Please contact David Favero at 734.879.9525 or Jeni Quigley at 269.685.5181 with any questions regarding this Memorandum or the enclosed information.

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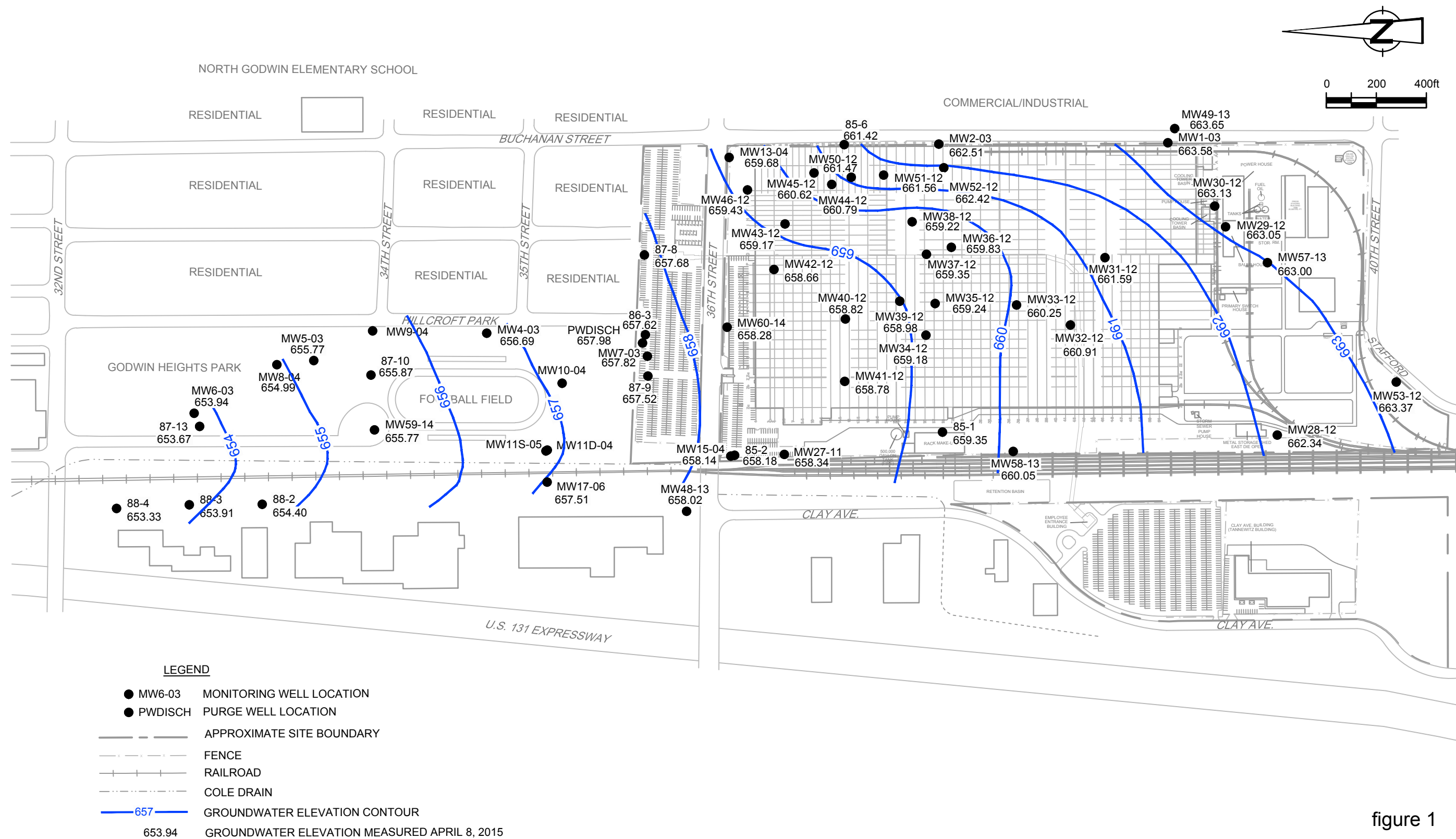
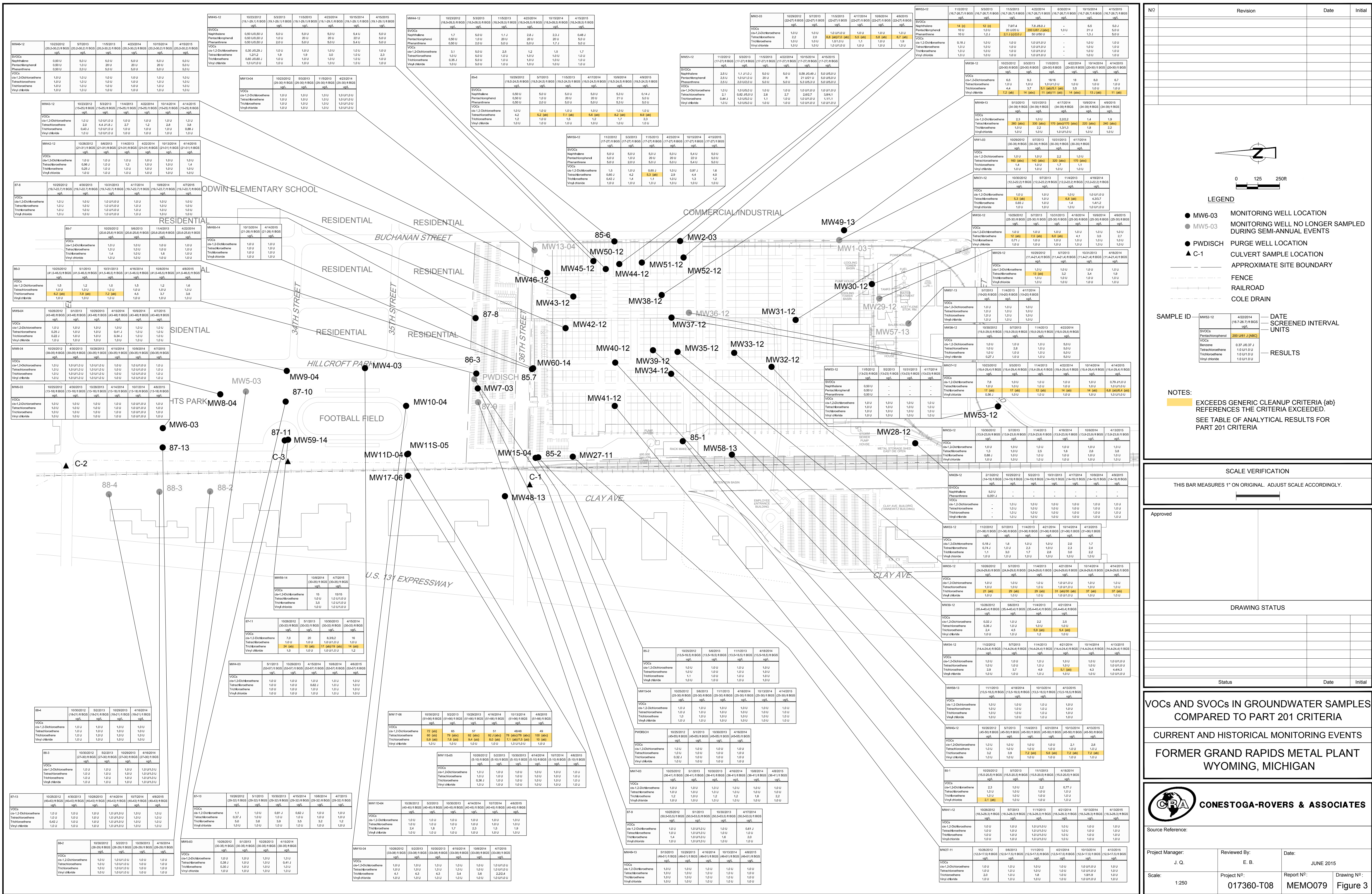


figure 1

GROUNDWATER CONTOURS - APRIL 2015
SEMI-ANNUAL GROUNDWATER MONITORING
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan





SAMPLE SUMMARY
SPRING 2015 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<u>Sample Date</u>	<u>Sample Identification</u>	<u>Sample Location</u>	<u>Matrix</u>	<u>Sample Depth (ft bgs)</u>		<u>QC Sample</u>	<u>Analysis</u>
4/6/2015	WG-017360-040615-MR-001	MW11D-04	Groundwater	40	to 45		VOCs
4/6/2015	WG-017360-040615-MR-002	MW11S-05	Groundwater	5	to 10		VOCs
4/6/2015	WG-017360-040615-MR-003	MW4-03	Groundwater	52	to 57		VOCs
4/6/2015	SW-017360-040615-MR-004	C-2	Surface Water	-	to -		VOCs
4/6/2015	SW-017360-040615-MR-005	C-3	Surface Water	-	to -		VOCs
4/6/2015	SW-017360-040615-MR-006	C-1	Surface Water	-	to -		VOCs
4/7/2015	WG-017360-040715-MR-007	MW10-04	Groundwater	33	to 38		VOCs
4/7/2015	WG-017360-040715-MR-008	MW10-04	Groundwater	33	to 38	Duplicate (-008)	VOCs
4/7/2015	WG-017360-040715-MR-009	MW9-04	Groundwater	43	to 48		VOCs
4/7/2015	WG-017360-040715-MR-010	MW8-04	Groundwater	30	to 35		VOCs
4/7/2015	WG-017360-040715-MR-011	87-10	Groundwater	29	to 32		VOCs
4/7/2015	WG-017360-040715-MR-012	MW59-14	Groundwater	30	to 35		VOCs, Metals
4/7/2015	WG-017360-040715-MR-013	MW59-14	Groundwater	30	to 35	Duplicate (-013)	VOCs, Metals
4/7/2015	WG-017360-040715-MR-014	87-8	Groundwater	19.7	to 22.7		VOCs
4/8/2015	WG-017360-040815-MR-015	MW6-03	Groundwater	13	to 18		VOCs
4/8/2015	WG-017360-040815-MR-016	87-13	Groundwater	40	to 43		VOCs
4/8/2015	WG-017360-040815-MR-017	MW7-03	Groundwater	36	to 41		VOCs
4/8/2015	WG-017360-040815-MR-018	86-3	Groundwater	41.5	to 46.5		VOCs
4/8/2015	WG-017360-040815-MR-019	MW48-13	Groundwater	46	to 51		VOCs
4/8/2015	WG-017360-040815-MR-020	MW17-06	Groundwater	51	to 56		VOCs
4/9/2015	WG-017360-040915-MR-021	MW49-13	Groundwater	34	to 39		VOCs
4/9/2015	WG-017360-040915-MR-022	MW2-03	Groundwater	22	to 27		VOCs
4/9/2015	WG-017360-040915-MR-023	85-6	Groundwater	19.5	to 24.5		VOCs, SVOCs
4/9/2015	WG-017360-040915-MR-024	MW28-12	Groundwater	14	to 19		VOCs
4/9/2015	WG-017360-040915-MR-025	MW30-12	Groundwater	25	to 30		VOCs
4/9/2015	TB-017360-040915-MR-026	Trip Blank	Groundwater	-	to -		VOCs
4/13/2015	WG-017360-041315-MR-027	MW58-13	Groundwater	13.5	to 18.5		VOCs
4/13/2015	WG-017360-041315-MR-028	MW27-11	Groundwater	12.5	to 17.5		VOCs, Metals
4/13/2015	WG-017360-041315-MR-029	MW41-12	Groundwater	18.3	to 28.3		VOCs
4/13/2015	WG-017360-041315-MR-030	MW34-12	Groundwater	14.4	to 24.4		VOCs
4/13/2015	WG-017360-041315-MR-031	MW34-12	Groundwater	14.4	to 24.4		VOCs
4/13/2015	WG-017360-041315-MR-032	MW40-12	Groundwater	45	to 50		VOCs
4/13/2015	WG-017360-041315-MR-033	MW32-12	Groundwater	13.9	to 23.9		VOCs
4/13/2015	WG-017360-041315-MR-034	MW33-12	Groundwater	31	to 36		VOCs
4/14/2015	WG-017360-041415-MR-035	MW35-12	Groundwater	24.6	to 29.6		VOCs
4/14/2015	WG-017360-041415-MR-036	MW37-12	Groundwater	19.4	to 29.4		VOCs
4/14/2015	WG-017360-041415-MR-037	MW37-12	Groundwater	19.4	to 29.4	Duplicate (-037)	VOCs
4/14/2015	WG-017360-041415-MR-038	MW38-12	Groundwater	20	to 30		VOCs
4/14/2015	WG-017360-041415-MR-039	MW43-12	Groundwater	15	to 25		VOCs
4/14/2015	WG-017360-041415-MR-040	MW42-12	Groundwater	21	to 31		VOCs
4/14/2015	WG-017360-041415-MR-041	MW60-14	Groundwater	21	to 26		VOCs, Metals
4/14/2015	WG-017360-041415-MR-042	MW15-04	Groundwater	25	to 30		VOCs
4/15/2015	WG-017360-041515-MR-043	MW52-12	Groundwater	16.7	to 26.7		VOCs, SVOCs
4/15/2015	WG-017360-041515-MR-044	MW51-12	Groundwater	17	to 27		VOCs, SVOCs
4/15/2015	WG-017360-041515-MR-045	MW51-12	Groundwater	17	to 27	Duplicate (-044)	VOCs, SVOCs
4/15/2015	WG-017360-041515-MR-046	MW50-12	Groundwater	17	to 27		VOCs, SVOCs
4/15/2015	WG-017360-041515-MR-047	MW44-12	Groundwater	18.5	to 28.5		VOCs, SVOCs
4/15/2015	WG-017360-041515-MR-048	MW45-12	Groundwater	19.1	to 29.1		VOCs, SVOCs
4/15/2015	WG-017360-041515-MR-049	MW46-12	Groundwater	20.2	to 30.2		VOCs, SVOCs
4/15/2015	TB-017360-041515-MR-050	Trip Blank	Groundwater	-	to -		VOCs

Notes:

VOCs - Target Compound List Volatile Organic Compounds

SVOCs - Target Compound List Semi-Volatile Organic Compounds

Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, total Chromium, Cobalt, Copper,
Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc

QC - Quality Control

MS/MSD - Matrix Spike /Matrix Spike Duplicate

TABLE 2

**GROUNDWATER QUALITY PARAMETERS
SPRING 2015 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<i>Monitoring Well Location</i>	<i>Date</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>Water Level (ft. BTOR)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>Turbidity (NTU)</i>	<i>DO (mg/L)</i>	<i>pH (Units)</i>	<i>ORP (mv)</i>
85-6	4/9/2015	14:19	120	18.05	10.28	0.971	3.32	2.56	7.28	240.1
		14:24	120	18.05	10.27	0.969	3.50	2.51	7.27	239.8
		14:29	120	18.05	10.27	0.968	3.02	2.47	7.26	239.7
86-3	4/8/2015	13:16	100	19.80	12.75	1.232	0.82	0.71	7.43	188.0
		13:21	100	19.80	12.94	1.233	0.80	0.75	7.43	186.1
		13:26	100	19.80	13.04	1.239	0.73	0.76	7.42	181.3
87-8	4/7/2015	16:26	100	19.12	11.15	1.297	1.80	0.61	7.36	171.6
		16:31	100	19.12	11.14	1.303	1.71	0.59	7.32	168.7
		16:36	100	19.12	11.14	1.303	1.53	0.58	7.29	165.9
87-10	4/7/2015	13:47	120	11.98	12.81	1.430	6.31	0.11	7.34	108.6
		13:52	120	11.98	12.87	1.428	6.55	0.12	7.33	103.5
		13:57	120	11.98	12.84	1.428	6.78	0.13	7.30	102.4
87-13	4/8/2015	10:51	100	9.74	8.69	1.306	1.24	1.55	7.14	296.9
		10:56	100	9.74	8.79	1.305	1.20	1.55	7.14	294.4
		11:01	100	9.74	8.72	1.306	1.17	1.51	7.15	292.0
MW2-03	4/9/2015	13:28	110	18.09	10.04	1.047	4.92	4.12	7.19	221.3
		13:33	110	18.09	10.06	1.052	5.10	4.14	7.20	223.7
		13:38	110	18.09	10.13	1.055	4.93	4.12	7.20	226.0
MW4-03	4/6/2015	15:28	140	22.40	14.02	1.137	1.25	0.84	7.31	117.9
		15:33	140	22.40	14.08	1.135	1.19	0.86	7.32	114.5
		15:38	140	22.40	14.17	1.136	1.02	0.90	7.31	111.2
MW6-03	4/8/2015	10:13	120	11.35	9.41	1.056	0.89	6.08	7.10	297.2
		10:18	120	11.35	9.51	1.046	0.80	6.09	7.11	297.1
		10:23	120	11.35	9.44	1.047	0.65	5.81	7.12	297.1
MW7-03	4/8/2015	12:00	100	16.90	12.16	1.743	0.81	0.30	7.23	275.2
		12:05	100	16.90	12.11	1.741	0.70	0.31	7.23	271.0
		12:10	100	16.90	12.20	1.747	0.73	0.30	7.23	267.5
MW8-04	4/7/2015	12:25	120	19.32	11.67	1.216	0.59	5.12	7.16	249.2
		12:30	120	19.32	11.67	1.214	0.50	5.06	7.16	248.4
		12:35	120	19.32	11.60	1.214	0.48	5.03	7.16	248.0
MW9-04	4/7/2015	11:32	110	21.85	11.79	1.134	1.90	2.33	7.10	242.4
		11:37	110	21.85	11.86	1.135	1.73	2.36	7.10	240.9
		11:42	110	21.85	11.88	1.136	1.63	2.34	7.09	239.5
MW10-04	4/7/2015	10:29	130	9.28	9.99	1.488	0.40	0.74	7.13	234.9
		10:34	130	9.28	9.93	1.496	0.41	0.74	7.14	231.3
		10:39	130	9.28	10.12	1.491	0.36	0.72	7.15	229.1

**GROUNDWATER QUALITY PARAMETERS
SPRING 2015 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<i>Monitoring Well Location</i>	<i>Date</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>Water Level (ft. BTOR)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>Turbidity (NTU)</i>	<i>DO (mg/L)</i>	<i>pH (Units)</i>	<i>ORP (mv)</i>
MW11S-05	4/6/2015	13:10	180	6.70	13.49	1.383	1.04	0.73	6.77	120.7
		13:15	180	6.70	13.60	1.382	0.95	0.70	6.82	115.8
		13:20	180	6.70	13.58	1.380	0.93	0.67	6.85	112.2
MW11D-04	4/6/2015	13:51	180	6.30	13.95	1.837	0.49	0.49	7.05	104.1
		13:56	180	6.30	13.91	1.840	0.50	0.47	7.06	106.2
		14:01	180	6.30	13.80	1.839	0.47	0.46	7.06	100.9
MW15-04	4/14/2015	16:22	120	13.27	14.33	1.368	2.56	0.44	7.28	-22.5
		16:27	120	13.27	14.27	1.367	2.41	0.43	7.28	-25.8
		16:32	120	13.27	14.12	1.366	2.29	0.42	7.28	-28.7
MW17-06	4/8/2015	15:55	105	7.16	11.31	2.291	0.97	0.68	7.14	55.0
		16:00	105	7.16	11.23	2.294	0.80	0.74	7.13	50.7
		16:05	105	7.16	11.29	2.287	0.71	0.71	7.13	45.7
MW27-11	4/13/2015	11:58	100	12.69	11.30	0.719	1.01	4.07	6.75	212.1
		12:03	100	12.69	11.26	0.722	0.97	3.92	6.74	212.3
		12:08	100	12.69	11.19	0.724	0.89	3.88	6.74	212.4
MW28-12	4/10/2015	15:24	120	14.00	10.11	0.875	0.47	6.40	7.37	253.4
		15:29	120	14.00	10.12	0.873	0.35	6.08	7.37	253.7
		15:34	120	14.00	10.11	0.871	0.31	6.03	7.38	252.7
MW30-12	4/10/2015	16:11	110	13.25	11.01	1.561	1.25	3.51	7.21	246.5
		16:16	110	13.25	11.07	1.561	1.13	3.36	7.22	242.6
		16:21	110	13.25	11.06	1.564	1.08	3.30	7.21	238.5
MW32-12	4/13/2015	15:28	100	14.58	12.28	0.458	0.63	2.33	7.86	129.4
		15:33	100	14.58	12.28	0.457	0.71	2.32	7.86	126.8
		15:38	100	14.58	12.15	0.457	0.59	2.34	7.86	124.5
MW33-12	4/13/2015	16:09	120	18.20	14.31	0.928	1.04	0.07	8.90	93.0
		16:14	120	18.20	14.30	0.927	1.11	0.06	8.90	90.1
		16:19	120	18.20	14.23	0.925	1.10	0.05	8.90	87.5
MW34-12	4/13/2015	13:59	110	15.14	12.41	0.496	2.99	6.91	7.64	167.1
		14:04	110	15.14	12.57	0.496	2.88	6.69	7.60	169.9
		14:09	110	15.14	12.45	0.495	2.69	6.85	7.60	170.3
MW35-12	4/14/2015	10:50	100	17.56	12.81	0.724	4.26	3.85	7.44	213.5
		10:55	100	17.56	13.00	0.725	4.01	3.67	7.45	210.9
		11:00	100	17.56	13.00	0.727	3.90	3.69	7.45	208.4
MW37-12	4/14/2015	11:27	130	20.70	13.91	1.153	1.71	1.08	7.42	196.2
		11:32	130	20.70	13.97	1.155	1.52	1.05	7.42	192.1
		11:37	130	20.70	13.99	1.157	1.50	1.05	7.42	188.3

TABLE 2

**GROUNDWATER QUALITY PARAMETERS
SPRING 2015 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<i>Monitoring Well Location</i>	<i>Date</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>Water Level (ft. BTOR)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>Turbidity (NTU)</i>	<i>DO (mg/L)</i>	<i>pH (Units)</i>	<i>ORP (mv)</i>
MW38-12	4/14/2015	12:22	100	21.00	14.80	1.661	2.00	0.05	7.30	-117.5
		12:27	100	21.00	14.73	1.660	1.84	0.04	7.32	-120.6
		12:32	100	21.00	14.72	1.662	1.98	0.02	7.32	-123.6
MW40-12	4/13/2015	14:43	120	22.18	14.51	1.125	1.55	0.13	7.44	147.5
		14:48	120	22.18	14.67	1.125	1.40	0.12	7.44	144.6
		14:53	120	22.18	14.72	1.125	1.46	0.12	7.43	141.7
MW41-12	4/13/2015	13:15	120	18.79	11.46	1.389	2.32	0.75	6.76	177.7
		13:20	120	18.79	11.52	1.386	2.30	0.78	6.76	172.8
		13:25	120	18.79	11.65	1.385	2.14	0.80	6.76	168.0
MW42-12	4/14/2015	14:04	100	22.02	18.33	0.974	1.70	4.76	7.34	34.3
		14:09	100	22.02	18.35	0.971	1.65	4.63	7.35	36.7
		14:14	100	22.02	18.33	0.969	1.59	4.55	7.35	38.9
MW43-12	4/14/2015	13:17	100	16.25	13.62	1.119	0.68	0.64	7.18	-25.8
		13:22	100	16.25	13.66	1.123	0.55	0.67	7.20	-23.0
		13:27	100	16.25	13.59	1.122	0.52	0.69	7.21	-20.5
MW44-12	4/15/2015	13:22	120	18.75	14.37	0.729	5.13	0.49	7.97	178.2
		13:27	120	18.75	14.50	0.728	4.92	0.50	7.98	181.6
		13:32	120	18.75	14.65	0.730	4.83	0.47	7.97	186.4
MW45-12	4/15/2015	13:59	130	17.92	15.96	1.174	5.07	0.48	7.24	62.1
		14:04	130	17.92	15.81	1.171	4.92	0.49	7.23	59.0
		14:09	130	17.92	15.65	1.166	4.83	0.50	7.22	56.7
MW46-12	4/15/2015	14:34	100	20.50	14.03	1.190	2.02	7.59	7.22	2.5
		14:39	100	20.50	13.99	1.190	1.92	7.51	7.24	7.9
		14:44	100	20.50	14.06	1.189	1.97	7.47	7.27	11.0
MW48-13	4/8/2015	14:33	100	13.05	11.10	3.005	0.55	0.09	7.09	219.4
		14:38	100	13.05	11.21	3.012	0.48	0.09	7.09	216.5
		14:43	100	13.05	11.34	3.007	0.46	0.11	7.10	213.0
MW49-13	4/9/2015	11:17	100	15.13	11.07	0.974	0.490	1.73	7.11	200.7
		11:22	100	15.13	11.03	0.971	0.540	1.69	7.12	196.6
		11:27	100	15.13	11.03	0.969	0.430	1.83	7.12	192.8
MW50-12	4/15/2015	12:18	110	18.36	13.57	1.178	0.94	0.63	7.25	-14.8
		12:23	110	18.36	13.51	1.180	1.00	0.62	7.24	-14.4
		12:28	110	18.36	13.57	1.177	0.97	0.63	7.23	-14.0
MW51-12	4/15/2015	11:21	100	18.68	13.30	1.187	1.28	0.69	7.33	-50.0
		11:26	100	18.68	13.50	1.183	1.23	0.72	7.32	-47.6
		11:31	100	18.68	13.55	1.181	1.21	0.74	7.32	-45.4

TABLE 2

**GROUNDWATER QUALITY PARAMETERS
SPRING 2015 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<i>Monitoring Well Location</i>	<i>Date</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>Water Level (ft. BTOR)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>Turbidity (NTU)</i>	<i>DO (mg/L)</i>	<i>pH (Units)</i>	<i>ORP (mv)</i>
MW52-12	4/15/2015	10:22	100	16.98	11.72	1.082	3.48	0.49	7.42	-168.6
		10:27	100	16.98	11.69	1.087	2.94	0.48	7.42	-171.2
		10:32	100	16.98	11.74	1.088	2.61	0.47	7.41	-176.1
MW58-13	4/13/2015	11:24	120	14.88	11.08	0.646	0.84	5.35	6.92	196.0
		11:29	120	14.88	11.07	0.644	0.78	5.57	6.92	197.5
		11:34	120	14.88	11.06	0.644	0.75	5.28	6.92	199.3
MW59-14	4/7/2015	14:32	105	10.85	11.93	1.427	4.61	0.04	7.15	97.2
		14:37	105	10.85	11.95	1.427	4.91	0.03	7.15	94.6
		14:42	105	10.85	12.03	1.426	4.72	0.04	7.15	89.4
MW60-14	4/14/2015	15:07	110	19.06	16.15	1.166	2.90	4.09	7.59	60.1
		15:12	110	19.06	16.08	1.168	2.85	4.15	7.59	61.0
		15:17	110	19.06	16.21	1.162	2.78	4.03	7.59	62.4

Notes:

ft. BTOR - feet below top of riser

DO - dissolved oxygen

ORP - oxidation-reduction potential

**GROUNDWATER ELEVATION DATA
 SPRING 2015 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN**

<u>Location</u>	<u>LNAPL Thickness (ft.)</u>	<u>Groundwater Elevation</u> ⁽²⁾	<u>Depth Below Top of Riser</u>
85-1		659.35	15.68
85-2		658.18	13.45
85-6	(1)	661.42	18.17
86-3		657.62	18.18
87-8		657.68	19.10
87-9		657.52	15.61
88-2		654.40	11.40
88-3		653.91	10.45
88-4		653.33	7.87
87-10		655.87	11.89
87-13		653.67	9.90
MW1-03		663.58	15.10
MW2-03		662.51	18.09
MW4-03		656.69	22.43
MW5-03		655.77	20.05
MW6-03		653.94	11.45
MW7-03		657.82	16.97
MW8-04		654.99	19.33
MW9-04		(3)	(3)
MW10-04		(3)	(3)
MW11D-04		(3)	(3)
MW11S-05		(3)	(3)
MW13-04		659.68	18.58
MW15-04		658.14	13.55
MW17-06		657.51	7.20
MW27-11		658.34	12.97
MW28-12		662.34	14.20
MW29-12		663.05	12.64
MW30-12		663.13	13.53
MW31-12		661.59	13.83
MW32-12		660.91	14.86
MW33-12		660.25	18.46
MW34-12		659.18	15.40
MW35-12		659.24	17.82
MW36-12		659.83	20.16
MW37-12		659.35	20.95
MW38-12		659.22	21.29
MW39-12		658.98	20.20
MW40-12		658.82	22.44
MW41-12		658.78	19.09
MW42-12		658.66	22.28
MW43-12		659.17	16.55
MW44-12	(1)	660.79	18.70
MW45-12	(1)	660.62	18.21
MW46-12	(1)	659.43	20.82
MW48-13		658.02	13.08
MW49-13		663.65	15.13
MW50-12	(1)	661.47	18.64
MW51-12	(1)	661.56	18.88
MW52-12	(1)	662.42	17.27
MW53-12		663.37	13.87
MW57-13		663.00	14.48
MW58-13		660.05	15.18
MW59-14		655.77	10.78
MW60-14		658.28	19.35
PWDISCH		657.67	20.12

Notes:

⁽¹⁾ No measurable LNAPL or sheen was identified in the wells.

⁽²⁾ Groundwater elevations measured in feet above mean sea level.

⁽³⁾ Access to the Godwin Public Schools Property was not available on April 3, 2015 and water levels could not be measured in this monitoring well.

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

	Units	Residential	Non-Residential	<i>MDEQ Generic Groundwater Cleanup Criteria: Residential and Nonresidential</i> ⁽¹⁾			Water	Flammability and
		Drinking Water	Drinking Water	Groundwater	Residential Groundwater	Non-Residential Groundwater	Solubility	Explosivity
		a	b	Surface Water	Volatilization to	Volatilization to	f	Screening Levels
				Interface	Indoor Air Inhalation	Indoor Air Inhalation		g
				c	d	e		
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	ug/L	200	200	89	660000	1300000	1330000	ID
1,1,2,2-Tetrachloroethane	ug/L	8.5	35	78	12000	77000	2970000	ID
1,1,2-Trichloroethane	ug/L	5	5	330	17000	110000	4420000	NA
1,1-Dichloroethane	ug/L	880	2500	740	1000000	2300000	5060000	380000
1,1-Dichloroethene	ug/L	7	7	130	200	1300	2250000	97000
1,2,4-Trichlorobenzene	ug/L	70	70	99	300000	300000	300000	NA
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	0.2	NA	220	1200	1230	NA
1,2-Dibromoethane ⁽³⁾	ug/L	0.05	0.05	5.7	2400	15000	4200000	ID
1,2-Dichlorobenzene	ug/L	600	600	13	160000	160000	156000	NA
1,2-Dichloroethane	ug/L	5	5	360	9600	59000	8520000	2500000
1,2-Dichloropropane	ug/L	5	5	230	16000	36000	2800000	550000
1,3-Dichlorobenzene	ug/L	6.6	19	28	18000	41000	111000	ID
1,4-Dichlorobenzene	ug/L	75	75	17	16000	74000	73800	NA
2-Butanone ⁽⁴⁾	ug/L	13000	38000	2200	240000000	240000000	240000000	ID
2-Hexanone	ug/L	1000	2900	ID	4200000	8700000	16000000	NA
4-Methyl-2-pentanone ⁽⁵⁾	ug/L	1800	5200	ID	20000000	20000000	20000000	ID
Acetone	ug/L	730	2100	1700	1000000000	1000000000	1000000000	15000000
Benzene	ug/L	5	5	200	5600	35000	1750000	68000
Bromodichloromethane	ug/L	80	80	ID	4800	37000	6740000	ID
Bromoform	ug/L	80	80	ID	470000	3100000	3100000	ID
Bromomethane (Methyl bromide)	ug/L	10	29	35	4000	9000	14500000	ID
Carbon disulfide	ug/L	800	2300	ID	250000	550000	1190000	13000
Carbon tetrachloride	ug/L	5	5	45	370	2400	793000	ID
Chlorobenzene	ug/L	100	100	25	210000	470000	472000	160000
Chloroethane	ug/L	430	1700	1100	5700000	5700000	5740000	110000
Chloroform (Trichloromethane)	ug/L	80	80	350	28000	180000	7920000	ID
Chloromethane (Methyl chloride)	ug/L	260	1100	ID	8600	45000	6340000	36000
cis-1,2-Dichloroethene	ug/L	70	70	620	93000	210000	3500000	530000
cis-1,3-Dichloropropene	ug/L	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	ug/L	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/L	80	80	ID	14000	110000	2600000	ID
Dichlorodifluoromethane (CFC-12)	ug/L	1700	4800	ID	220000	300000	300000	ID
Ethylbenzene	ug/L	74	74	18	110000	170000	169000	43000
Isopropyl benzene	ug/L	800	2300	28	56000	56000	56000	29000
Methyl acetate	ug/L	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	ug/L	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	ug/L	40	40	7100	4700000	4700000	4680000	ID
Methylene chloride	ug/L	5	5	1500	220000	1400000	17000000	ID
Styrene	ug/L	100	100	80	170000	310000	310000	140000
Tetrachloroethene	ug/L	5	5	60	25000	170000	200000	ID
Toluene	ug/L	790	790	270	530000	530000	526000	61000
trans-1,2-Dichloroethene	ug/L	100	100	1500	85000	200000	6300000	230000
trans-1,3-Dichloropropene	ug/L	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	5	5	200	2200	4900	1100000	ID
Trichlorofluoromethane (CFC-11)	ug/L	2600	7300	NA	1100000	1100000	1100000	ID
Trifluorotrichloroethane (Freon 113)	ug/L	170000	170000	32	170000	170000	170000	ID
Vinyl chloride	ug/L	2	2	13	1100	13000	2760000	33000
Xylenes (total)	ug/L	280	280	41	190000	190000	186000	70000

TABLE 4

**GROUNDWATER SAMPLE ANALYTICAL RESULTS
SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

	Units	Residential	Non-Residential	MDEQ Generic Groundwater Cleanup Criteria: Residential and Nonresidential ⁽¹⁾			Water	Flammability and
		Drinking Water	Drinking Water	Groundwater	Residential Groundwater	Non-Residential Groundwater	Solubility	Explosivity
		a	b	Surface Water Interface	Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Inhalation	f	Screening Levels
				c	d	e		g
Semi-Volatile Organic Compounds (SVOCs)								
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	730	2100	NA	NLV	NLV	1200000	ID
2,4,6-Trichlorophenol	ug/L	120	470	5	NLV	NLV	800000	ID
2,4-Dichlorophenol	ug/L	73	210	11	NLV	NLV	4500000	ID
2,4-Dimethylphenol	ug/L	370	1000	380	NLV	NLV	7870000	ID
2,4-Dinitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	7.7	32	NA	NLV	NLV	270000	ID
2,6-Dinitrotoluene	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	1800	5200	NA	ID	ID	6740	ID
2-Chlorophenol	ug/L	45	130	18	ID	ID	22000000	ID
2-Methylnaphthalene	ug/L	260	750	19	25000	25000	24600	ID
2-Methylphenol	ug/L	370	1000	30	NLV	NLV	28000000	NA
2-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	20	58	ID	NLV	NLV	2500000	ID
3&4-Methylphenol	ug/L	370	1000	30	NLV	NLV	28000000	NA
3,3'-Dichlorobenzidine	ug/L	1.1	4.3	0.3	NLV	NLV	3110	ID
3-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	20	20	NA	NLV	NLV	200000	ID
4-Bromophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	150	420	7.4	NLV	NLV	3900000	ID
4-Chloroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	ug/L	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	ug/L	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	1300	3800	38	4200	4200	4240	ID
Acenaphthylene	ug/L	52	150	ID	3900	3900	3930	ID
Acetophenone	ug/L	1500	4400	NA	6100000	6100000	6100000	ID
Anthracene	ug/L	43	43	ID	43	43	43.4	ID
Atrazine	ug/L	3	3	7.3	NLV	NLV	70000	ID
Benzaldehyde	ug/L	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	2.1	8.5	ID	NLV	NLV	9.4	ID
Benzo(a)pyrene	ug/L	5	5	ID	NLV	NLV	1.62	ID
Benzo(b)fluoranthene	ug/L	1.5	1.5	ID	ID	ID	1.5	ID
Benzo(g,h,i)perylene	ug/L	1	1	NA	NLV	NLV	0.26	ID
Benzo(k)fluoranthene	ug/L	1	1	NA	NLV	NLV	0.8	ID
Biphenyl (1,1-Biphenyl)	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	ug/L	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	ug/L	2	8.3	1	38000	210000	17200000	17000000
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6	6	25	NLV	NLV	340	NA
Butyl benzylphthalate (BBP)	ug/L	1200	2700	67	NLV	NLV	2690	ID
Caprolactam	ug/L	5800	17000	NA	NLV	NLV	5250000000	NA
Carbazole	ug/L	85	350	10	NLV	NLV	7480	ID
Chrysene	ug/L	1.6	1.6	ID	ID	ID	1.6	ID
Dibenz(a,h)anthracene	ug/L	2	2	ID	NLV	NLV	2.49	ID
Dibenzofuran	ug/L	ID	ID	4	10000	10000	10000	ID
Diethyl phthalate	ug/L	5500	16000	110	NLV	NLV	1080000	NA
Dimethyl phthalate	ug/L	73000	210000	NA	NLV	NLV	4190000	NA
Di-n-butylphthalate (DBP)	ug/L	880	2500	9.7	NLV	NLV	11200	NA
Di-n-octyl phthalate (DnOP)	ug/L	130	380	ID	NLV	NLV	3000	ID
Fluoranthene	ug/L	210	210	1.6	210	210	206	ID
Fluorene	ug/L	880	2000	12	2000	2000	1980	ID

TABLE 4

**GROUNDWATER SAMPLE ANALYTICAL RESULTS
SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

	Units	Residential	Non-Residential	MDEQ Generic Groundwater Cleanup Criteria: Residential and Nonresidential ⁽¹⁾			Water	Flammability and
		Drinking Water	Drinking Water	Groundwater	Residential Groundwater	Non-Residential Groundwater	Solubility	Explosivity
		a	b	Surface Water Interface c	Volatilization to Indoor Air Inhalation d	Volatilization to Indoor Air Inhalation e	f	Screening Levels g
SVOCs (continued)								
Hexachlorobenzene	ug/L	1	1	0.2	440	3000	6200	ID
Hexachlorobutadiene	ug/L	15	42	0.053	1600	3200	3230	ID
Hexachlorocyclopentadiene	ug/L	50	50	ID	130	420	1800	ID
Hexachloroethane	ug/L	7.3	21	6.7	27000	50000	50000	ID
Indeno(1,2,3-cd)pyrene	ug/L	2	2	ID	NLV	NLV	0.022	ID
Isophorone	ug/L	770	3100	1300	NLV	NLV	12000000	NA
Naphthalene	ug/L	520	1500	11	31000	31000	31000	NA
Nitrobenzene	ug/L	3.4	9.6	180	280000	550000	2090000	NA
N-Nitrosodi-n-propylamine	ug/L	5	5	NA	NLV	NLV	9890000	ID
N-Nitrosodiphenylamine	ug/L	270	1100	NA	NLV	NLV	35100	ID
Pentachlorophenol	ug/L	1	1	2.8	NLV	NLV	1850000	ID
Phenanthrene	ug/L	52	150	2	1000	1000	1000	ID
Phenol	ug/L	4400	13000	450	NLV	NLV	82800000	NA
Pyrene	ug/L	140	140	ID	140	140	135	ID
Metals								
Antimony	ug/L	6	6	130	NLV	NLV	NA	ID
Arsenic	ug/L	10	10	10	NLV	NLV	NA	ID
Barium	ug/L	2000	2000	1600	NLV	NLV	NA	ID
Beryllium	ug/L	4	4	54	NLV	NLV	NA	ID
Cadmium	ug/L	5	5	5.6	NLV	NLV	NA	ID
Chromium	ug/L	100	100	11	NLV	NLV	NA	ID
Cobalt	ug/L	40	100	100	NLV	NLV	NA	ID
Copper	ug/L	1000	1000	26	NLV	NLV	NA	ID
Lead	ug/L	4	4	54	NLV	NLV	NA	ID
Iron	ug/L	300	300	NA	NLV	NLV	NA	ID
Manganese	ug/L	50	50	5800	NLV	NLV	NA	ID
Mercury	ug/L	2	2	0.0013	56	56	56	ID
Molybdenum	ug/L	73	210	3200	NLV	NLV	NA	ID
Nickel	ug/L	100	100	150	NLV	NLV	NA	ID
Selenium	ug/L	50	50	5	NLV	NLV	NA	ID
Silver	ug/L	34	98	0.2	NLV	NLV	NA	ID
Thallium	ug/L	2	2	3.7	NLV	NLV	NA	ID
Vanadium	ug/L	4.5	62	27	NLV	NLV	NA	ID
Zinc	ug/L	2400	5000	340	NLV	NLV	NA	ID

DRAFT Unvalidated Data

Notes:

⁽¹⁾ Cleanup Criteria Requirements for Response Activity, Administrative Rules R299.1 to R299.50 effective December 30, 2013, pursuant to Part 201 of 1994 PA 451 as amended.

⁽²⁾ Carbonate Hardness of 344 mg/L was used to calculate Groundwater Surface Water Interface Criteria.

⁽³⁾ 1,2-Dibromoethane also known as ethylene dibromide

⁽⁴⁾ 2-butanone also known as methyl ethyl ketone (MEK)

⁽⁵⁾ 4-methyl-2-pentanone also known as methyl isobutyl ketone (MIBK)

⁽⁶⁾ 2,2'-oxybis(1-chloropropane) also known as bis(2-chloroisopropyl) ether

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

R - Rejected.

-- Parameter was not analyzed.

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

	<i>MDEQ Generic Groundwater Cleanup Criteria: Residential and Nonresidential</i> ⁽¹⁾						
	Residential Drinking Water	Non-Residential Drinking Water	Groundwater Surface Water Interface	Residential Groundwater Volatilization to Indoor Air Inhalation	Non-Residential Groundwater Volatilization to Indoor Air Inhalation	Water Solubility	Flammability and Explosivity Screening Levels
<i>Units</i>	a	b	c	d	e	f	g

ID - Insufficient data to develop criterion.

NA - A criterion or value is not available or, in the case of background and CAS numbers, not applicable.

NLL - Hazardous substance is not likely to leach under most soil conditions.

NLV - Hazardous substance is not likely to volatilize under most conditions.

 - Exceeds Generic Cleanup Criteria. Superscript letter notes the criterion exceeded.

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW11D-04	MW11S-05	MW4-03	87-10	87-8
Sample Identification:	WG-017360-040615-MR-001	WG-017360-040615-MR-002	WG-017360-040615-MR-003	WG-017360-040715-MR-011	WG-017360-040715-MR-014
Sample Date:	4/6/2015	4/6/2015	4/6/2015	4/7/2015	4/7/2015
Sample Type:					
Segment Depth:	(40-45) ft BGS	(5-10) ft BGS	(52-57) ft BGS	(29-32) ft BGS	(19.7-22.7) ft BGS
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane ⁽³⁾	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone ⁽⁴⁾	ug/L 25 U	25 U	25 U	25 U	25 U
2-Hexanone	ug/L 50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone ⁽⁵⁾	ug/L 50 U	50 U	50 U	50 U	50 U
Acetone	ug/L 50 U	50 U	50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.9	1.0 U	1.0 U	1.2	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW11D-04	MW11S-05	MW4-03	87-10	87-8
Sample Identification:	WG-017360-040615-MR-001	WG-017360-040615-MR-002	WG-017360-040615-MR-003	WG-017360-040715-MR-011	WG-017360-040715-MR-014
Sample Date:	4/6/2015	4/6/2015	4/6/2015	4/7/2015	4/7/2015
Sample Type:					
Segment Depth:	(40-45) ft BGS	(5-10) ft BGS	(52-57) ft BGS	(29-32) ft BGS	(19.7-22.7) ft BGS
Units					
Semi-Volatile Organic Compounds (SVOCs)					
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	ug/L	--	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--	--
2-Chloronaphthalene	ug/L	--	--	--	--
2-Chlorophenol	ug/L	--	--	--	--
2-Methylnaphthalene	ug/L	--	--	--	--
2-Methylphenol	ug/L	--	--	--	--
2-Nitroaniline	ug/L	--	--	--	--
2-Nitrophenol	ug/L	--	--	--	--
3&4-Methylphenol	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--	--
3-Nitroaniline	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--	--
4-Chloroaniline	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--
4-Nitroaniline	ug/L	--	--	--	--
4-Nitrophenol	ug/L	--	--	--	--
Acenaphthene	ug/L	--	--	--	--
Acenaphthylene	ug/L	--	--	--	--
Acetophenone	ug/L	--	--	--	--
Anthracene	ug/L	--	--	--	--
Atrazine	ug/L	--	--	--	--
Benzaldehyde	ug/L	--	--	--	--
Benzo(a)anthracene	ug/L	--	--	--	--
Benzo(a)pyrene	ug/L	--	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--	--
Caprolactam	ug/L	--	--	--	--
Carbazole	ug/L	--	--	--	--
Chrysene	ug/L	--	--	--	--
Dibenzo(a,h)anthracene	ug/L	--	--	--	--
Dibenzofuran	ug/L	--	--	--	--
Diethyl phthalate	ug/L	--	--	--	--
Dimethyl phthalate	ug/L	--	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--	--
Fluoranthene	ug/L	--	--	--	--
Fluorene	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW11D-04	MW11S-05	MW4-03	87-10	87-8
Sample Identification:	WG-017360-040615-MR-001	WG-017360-040615-MR-002	WG-017360-040615-MR-003	WG-017360-040715-MR-011	WG-017360-040715-MR-014
Sample Date:	4/6/2015	4/6/2015	4/6/2015	4/7/2015	4/7/2015
Sample Type:					
Segment Depth:	(40-45) ft BGS	(5-10) ft BGS	(52-57) ft BGS	(29-32) ft BGS	(19.7-22.7) ft BGS
Units					
SVOCs (continued)					
Hexachlorobenzene	ug/L	--	--	--	--
Hexachlorobutadiene	ug/L	--	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--	--
Hexachloroethane	ug/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--	--
Isophorone	ug/L	--	--	--	--
Naphthalene	ug/L	--	--	--	--
Nitrobenzene	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--	--
Pentachlorophenol	ug/L	--	--	--	--
Phenanthrene	ug/L	--	--	--	--
Phenol	ug/L	--	--	--	--
Pyrene	ug/L	--	--	--	--
Metals					
Antimony	ug/L	--	--	--	--
Arsenic	ug/L	--	--	--	--
Barium	ug/L	--	--	--	--
Beryllium	ug/L	--	--	--	--
Cadmium	ug/L	--	--	--	--
Chromium	ug/L	--	--	--	--
Cobalt	ug/L	--	--	--	--
Copper	ug/L	--	--	--	--
Iron	ug/L	--	--	--	--
Lead	ug/L	--	--	--	--
Manganese	ug/L	--	--	--	--
Mercury	ug/L	--	--	--	--
Molybdenum	ug/L	--	--	--	--
Nickel	ug/L	--	--	--	--
Selenium	ug/L	--	--	--	--
Silver	ug/L	--	--	--	--
Thallium	ug/L	--	--	--	--
Vanadium	ug/L	--	--	--	--
Zinc	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW10-04	MW10-04	MW59-14	MW59-14	MW8-04
Sample Identification:	WG-017360-040715-MR-007	WG-017360-040715-MR-008	WG-017360-040715-MR-012	WG-017360-040715-MR-013	WG-017360-040715-MR-010
Sample Date:	4/7/2015	4/7/2015	4/7/2015	4/7/2015	4/7/2015
Sample Type:		Duplicate		Duplicate	
Segment Depth:	(33-38) ft BGS	(33-38) ft BGS	(30-35) ft BGS	(30-35) ft BGS	(30-35) ft BGS
	Units				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane ⁽³⁾	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone ⁽⁴⁾	ug/L	25 U	25 U	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone ⁽⁵⁾	ug/L	50 U	50 U	50 U	50 U
Acetone	ug/L	50 U	50 U	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	15	15	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	2.2	2.4	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW10-04	MW10-04	MW59-14	MW59-14	MW8-04
Sample Identification:	WG-017360-040715-MR-007	WG-017360-040715-MR-008	WG-017360-040715-MR-012	WG-017360-040715-MR-013	WG-017360-040715-MR-010
Sample Date:	4/7/2015	4/7/2015	4/7/2015	4/7/2015	4/7/2015
Sample Type:		Duplicate		Duplicate	
Segment Depth:	(33-38) ft BGS	(33-38) ft BGS	(30-35) ft BGS	(30-35) ft BGS	(30-35) ft BGS
	Units				
Semi-Volatile Organic Compounds (SVOCs)					
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	ug/L	--	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--	--
2-Chloronaphthalene	ug/L	--	--	--	--
2-Chlorophenol	ug/L	--	--	--	--
2-Methylnaphthalene	ug/L	--	--	--	--
2-Methylphenol	ug/L	--	--	--	--
2-Nitroaniline	ug/L	--	--	--	--
2-Nitrophenol	ug/L	--	--	--	--
3&4-Methylphenol	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--	--
3-Nitroaniline	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--	--
4-Chloroaniline	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--
4-Nitroaniline	ug/L	--	--	--	--
4-Nitrophenol	ug/L	--	--	--	--
Acenaphthene	ug/L	--	--	--	--
Acenaphthylene	ug/L	--	--	--	--
Acetophenone	ug/L	--	--	--	--
Anthracene	ug/L	--	--	--	--
Atrazine	ug/L	--	--	--	--
Benzaldehyde	ug/L	--	--	--	--
Benzo(a)anthracene	ug/L	--	--	--	--
Benzo(a)pyrene	ug/L	--	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--	--
Caprolactam	ug/L	--	--	--	--
Carbazole	ug/L	--	--	--	--
Chrysene	ug/L	--	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--	--
Dibenzofuran	ug/L	--	--	--	--
Diethyl phthalate	ug/L	--	--	--	--
Dimethyl phthalate	ug/L	--	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--	--
Fluoranthene	ug/L	--	--	--	--
Fluorene	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:		MW10-04	MW10-04	MW59-14	MW59-14	MW8-04
Sample Identification:		WG-017360-040715-MR-007	WG-017360-040715-MR-008	WG-017360-040715-MR-012	WG-017360-040715-MR-013	WG-017360-040715-MR-010
Sample Date:		4/7/2015	4/7/2015	4/7/2015	4/7/2015	4/7/2015
Sample Type:			Duplicate		Duplicate	
Segment Depth:		(33-38) ft BGS	(33-38) ft BGS	(30-35) ft BGS	(30-35) ft BGS	(30-35) ft BGS
	Units					
SVOs (continued)						
Hexachlorobenzene	ug/L	--	--	--	--	--
Hexachlorobutadiene	ug/L	--	--	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--	--	--
Hexachloroethane	ug/L	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--	--	--
Isophorone	ug/L	--	--	--	--	--
Naphthalene	ug/L	--	--	--	--	--
Nitrobenzene	ug/L	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--	--	--
Pentachlorophenol	ug/L	--	--	--	--	--
Phenanthrene	ug/L	--	--	--	--	--
Phenol	ug/L	--	--	--	--	--
Pyrene	ug/L	--	--	--	--	--
Metals						
Antimony	ug/L	--	--	2 U	2 U	--
Arsenic	ug/L	--	--	1.6 J	1.4 J	--
Barium	ug/L	--	--	93	91	--
Beryllium	ug/L	--	--	1 U	1 U	--
Cadmium	ug/L	--	--	1 U	1 U	--
Chromium	ug/L	--	--	5 U	5 U	--
Cobalt	ug/L	--	--	0.32 J	0.32 J	--
Copper	ug/L	--	--	0.87 J	0.71 J	--
Iron	ug/L	--	--	420 ^{ab}	410 ^{ab}	--
Lead	ug/L	--	--	1.1 J	1.1 J	--
Manganese	ug/L	--	--	35	35	--
Mercury	ug/L	--	--	0.2 U	0.2 U	--
Molybdenum	ug/L	--	--	0.61 J	0.59 J	--
Nickel	ug/L	--	--	4.5 J	4.5 J	--
Selenium	ug/L	--	--	5 U	5 U	--
Silver	ug/L	--	--	0.2 U	0.2 U	--
Thallium	ug/L	--	--	2 U	2 U	--
Vanadium	ug/L	--	--	4 U	4 U	--
Zinc	ug/L	--	--	5.6 J	5.3 J	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW9-04	86-3	87-13	MW17-06	MW48-13
Sample Identification:	WG-017360-040715-MR-009	WG-017360-040815-MR-018	WG-017360-040815-MR-016	WG-017360-040815-MR-020	WG-017360-040815-MR-019
Sample Date:	4/7/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015
Sample Type:					
Segment Depth:	(43-48) ft BGS	(41.5-46.5) ft BGS	(40-43) ft BGS	(51-56) ft BGS	(46-51) ft BGS
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane ⁽³⁾	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone ⁽⁴⁾	ug/L 25 U	25 U	25 U	25 U	25 U
2-Hexanone	ug/L 50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone ⁽⁵⁾	ug/L 50 U	50 U	50 U	50 U	50 U
Acetone	ug/L 50 U	50 U	50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	1.6	1.0 U	49	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	1.5 J
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	1.0 U	1.0 U	100 ^{abc}	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.7	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.0 U	3.8	1.0 U	10 ^{ab}	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW9-04	86-3	87-13	MW17-06	MW48-13
Sample Identification:	WG-017360-040715-MR-009	WG-017360-040815-MR-018	WG-017360-040815-MR-016	WG-017360-040815-MR-020	WG-017360-040815-MR-019
Sample Date:	4/7/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015
Sample Type:					
Segment Depth:	(43-48) ft BGS	(41.5-46.5) ft BGS	(40-43) ft BGS	(51-56) ft BGS	(46-51) ft BGS
	Units				
Semi-Volatile Organic Compounds (SVOCs)					
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	ug/L	--	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--	--
2-Chloronaphthalene	ug/L	--	--	--	--
2-Chlorophenol	ug/L	--	--	--	--
2-Methylnaphthalene	ug/L	--	--	--	--
2-Methylphenol	ug/L	--	--	--	--
2-Nitroaniline	ug/L	--	--	--	--
2-Nitrophenol	ug/L	--	--	--	--
3&4-Methylphenol	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--	--
3-Nitroaniline	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--	--
4-Chloroaniline	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--
4-Nitroaniline	ug/L	--	--	--	--
4-Nitrophenol	ug/L	--	--	--	--
Acenaphthene	ug/L	--	--	--	--
Acenaphthylene	ug/L	--	--	--	--
Acetophenone	ug/L	--	--	--	--
Anthracene	ug/L	--	--	--	--
Atrazine	ug/L	--	--	--	--
Benzaldehyde	ug/L	--	--	--	--
Benzo(a)anthracene	ug/L	--	--	--	--
Benzo(a)pyrene	ug/L	--	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--	--
Caprolactam	ug/L	--	--	--	--
Carbazole	ug/L	--	--	--	--
Chrysene	ug/L	--	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--	--
Dibenzofuran	ug/L	--	--	--	--
Diethyl phthalate	ug/L	--	--	--	--
Dimethyl phthalate	ug/L	--	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--	--
Fluoranthene	ug/L	--	--	--	--
Fluorene	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW9-04	86-3	87-13	MW17-06	MW48-13
Sample Identification:	WG-017360-040715-MR-009	WG-017360-040815-MR-018	WG-017360-040815-MR-016	WG-017360-040815-MR-020	WG-017360-040815-MR-019
Sample Date:	4/7/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015
Sample Type:					
Segment Depth:	(43-48) ft BGS	(41.5-46.5) ft BGS	(40-43) ft BGS	(51-56) ft BGS	(46-51) ft BGS
Units					
SVOCs (continued)					
Hexachlorobenzene	ug/L	--	--	--	--
Hexachlorobutadiene	ug/L	--	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--	--
Hexachloroethane	ug/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--	--
Isophorone	ug/L	--	--	--	--
Naphthalene	ug/L	--	--	--	--
Nitrobenzene	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--	--
Pentachlorophenol	ug/L	--	--	--	--
Phenanthrene	ug/L	--	--	--	--
Phenol	ug/L	--	--	--	--
Pyrene	ug/L	--	--	--	--
Metals					
Antimony	ug/L	--	--	--	--
Arsenic	ug/L	--	--	--	--
Barium	ug/L	--	--	--	--
Beryllium	ug/L	--	--	--	--
Cadmium	ug/L	--	--	--	--
Chromium	ug/L	--	--	--	--
Cobalt	ug/L	--	--	--	--
Copper	ug/L	--	--	--	--
Iron	ug/L	--	--	--	--
Lead	ug/L	--	--	--	--
Manganese	ug/L	--	--	--	--
Mercury	ug/L	--	--	--	--
Molybdenum	ug/L	--	--	--	--
Nickel	ug/L	--	--	--	--
Selenium	ug/L	--	--	--	--
Silver	ug/L	--	--	--	--
Thallium	ug/L	--	--	--	--
Vanadium	ug/L	--	--	--	--
Zinc	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW6-03	MW7-03	85-6	MW2-03	MW28-12
Sample Identification:	WG-017360-040815-MR-015	WG-017360-040815-MR-017	WG-017360-040915-MR-023	WG-017360-040915-MR-022	WG-017360-040915-MR-024
Sample Date:	4/8/2015	4/8/2015	4/9/2015	4/9/2015	4/9/2015
Sample Type:					
Segment Depth:	(13-18) ft BGS	(36-41) ft BGS	(19.5-24.5) ft BGS	(22-27) ft BGS	(14-19) ft BGS
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane ⁽³⁾	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone ⁽⁴⁾	ug/L 25 U	25 U	25 U	25 U	25 U
2-Hexanone	ug/L 50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone ⁽⁵⁾	ug/L 50 U	50 U	50 U	50 U	50 U
Acetone	ug/L 50 U	50 U	50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	5.9
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	1.0 U	8.9 ^{ab}	6.7 ^{ab}	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.0 U	2.2	2.3	1.9	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW6-03	MW7-03	85-6	MW2-03	MW28-12
Sample Identification:	WG-017360-040815-MR-015	WG-017360-040815-MR-017	WG-017360-040915-MR-023	WG-017360-040915-MR-022	WG-017360-040915-MR-024
Sample Date:	4/8/2015	4/8/2015	4/9/2015	4/9/2015	4/9/2015
Sample Type:					
Segment Depth:	(13-18) ft BGS	(36-41) ft BGS	(19.5-24.5) ft BGS	(22-27) ft BGS	(14-19) ft BGS
	Units				
Semi-Volatile Organic Compounds (SVOCs)					
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	ug/L	--	5.0 U	--	--
2,4,5-Trichlorophenol	ug/L	--	5.0 U	--	--
2,4,6-Trichlorophenol	ug/L	--	5.0 U	--	--
2,4-Dichlorophenol	ug/L	--	5.0 U	--	--
2,4-Dimethylphenol	ug/L	--	5.0 U	--	--
2,4-Dinitrophenol	ug/L	--	5.0 U	--	--
2,4-Dinitrotoluene	ug/L	--	5.0 U	--	--
2,6-Dinitrotoluene	ug/L	--	5.0 U	--	--
2-Chloronaphthalene	ug/L	--	5.0 U	--	--
2-Chlorophenol	ug/L	--	5.0 U	--	--
2-Methylnaphthalene	ug/L	--	5.0 U	--	--
2-Methylphenol	ug/L	--	5.0 U	--	--
2-Nitroaniline	ug/L	--	5.0 U	--	--
2-Nitrophenol	ug/L	--	5.0 U	--	--
3&4-Methylphenol	ug/L	--	5.0 U	--	--
3,3'-Dichlorobenzidine	ug/L	--	5.0 U	--	--
3-Nitroaniline	ug/L	--	5.0 U	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	5.0 U	--	--
4-Bromophenyl phenyl ether	ug/L	--	5.0 U	--	--
4-Chloro-3-methylphenol	ug/L	--	5.0 U	--	--
4-Chloroaniline	ug/L	--	5.0 U	--	--
4-Chlorophenyl phenyl ether	ug/L	--	5.0 U	--	--
4-Nitroaniline	ug/L	--	5.0 U	--	--
4-Nitrophenol	ug/L	--	5.0 U	--	--
Acenaphthene	ug/L	--	5.0 U	--	--
Acenaphthylene	ug/L	--	5.0 U	--	--
Acetophenone	ug/L	--	1.0 U	--	--
Anthracene	ug/L	--	5.0 U	--	--
Atrazine	ug/L	--	1.0 U	--	--
Benzaldehyde	ug/L	--	1.0 U	--	--
Benzo(a)anthracene	ug/L	--	5.0 U	--	--
Benzo(a)pyrene	ug/L	--	5.0 U	--	--
Benzo(b)fluoranthene	ug/L	--	5.0 U	--	--
Benzo(g,h,i)perylene	ug/L	--	5.0 U	--	--
Benzo(k)fluoranthene	ug/L	--	5.0 U	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	5.0 U	--	--
bis(2-Chloroethoxy)methane	ug/L	--	5.0 U	--	--
bis(2-Chloroethyl)ether	ug/L	--	5.0 U	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	5.0 U	--	--
Butyl benzylphthalate (BBP)	ug/L	--	5.0 U	--	--
Caprolactam	ug/L	--	10 U	--	--
Carbazole	ug/L	--	5.0 U	--	--
Chrysene	ug/L	--	5.0 U	--	--
Dibenzo(a,h)anthracene	ug/L	--	5.0 U	--	--
Dibenzofuran	ug/L	--	5.0 U	--	--
Diethyl phthalate	ug/L	--	5.0 U	--	--
Dimethyl phthalate	ug/L	--	5.0 U	--	--
Di-n-butylphthalate (DBP)	ug/L	--	5.0 U	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	5.0 U	--	--
Fluoranthene	ug/L	--	5.0 U	--	--
Fluorene	ug/L	--	5.0 U	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW6-03	MW7-03	85-6	MW2-03	MW28-12
Sample Identification:	WG-017360-040815-MR-015	WG-017360-040815-MR-017	WG-017360-040915-MR-023	WG-017360-040915-MR-022	WG-017360-040915-MR-024
Sample Date:	4/8/2015	4/8/2015	4/9/2015	4/9/2015	4/9/2015
Sample Type:					
Segment Depth:	(13-18) ft BGS	(36-41) ft BGS	(19.5-24.5) ft BGS	(22-27) ft BGS	(14-19) ft BGS
	Units				
SVOCs (continued)					
Hexachlorobenzene	ug/L	--	5.0 U	--	--
Hexachlorobutadiene	ug/L	--	5.0 U	--	--
Hexachlorocyclopentadiene	ug/L	--	5.0 U	--	--
Hexachloroethane	ug/L	--	5.0 U	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	5.0 U	--	--
Isophorone	ug/L	--	5.0 U	--	--
Naphthalene	ug/L	--	0.14 J	--	--
Nitrobenzene	ug/L	--	5.0 U	--	--
N-Nitrosodi-n-propylamine	ug/L	--	5.0 U	--	--
N-Nitrosodiphenylamine	ug/L	--	5.0 U	--	--
Pentachlorophenol	ug/L	--	5.0 U	--	--
Phenanthrene	ug/L	--	5.0 U	--	--
Phenol	ug/L	--	5.0 U	--	--
Pyrene	ug/L	--	5.0 U	--	--
Metals					
Antimony	ug/L	--	--	--	--
Arsenic	ug/L	--	--	--	--
Barium	ug/L	--	--	--	--
Beryllium	ug/L	--	--	--	--
Cadmium	ug/L	--	--	--	--
Chromium	ug/L	--	--	--	--
Cobalt	ug/L	--	--	--	--
Copper	ug/L	--	--	--	--
Iron	ug/L	--	--	--	--
Lead	ug/L	--	--	--	--
Manganese	ug/L	--	--	--	--
Mercury	ug/L	--	--	--	--
Molybdenum	ug/L	--	--	--	--
Nickel	ug/L	--	--	--	--
Selenium	ug/L	--	--	--	--
Silver	ug/L	--	--	--	--
Thallium	ug/L	--	--	--	--
Vanadium	ug/L	--	--	--	--
Zinc	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW30-12	MW49-13	MW27-11	MW32-12	MW33-12
Sample Identification:	WG-017360-040915-MR-025	WG-017360-040915-MR-021	WG-017360-041315-MR-028	WG-017360-041315-MR-033	WG-017360-041315-MR-034
Sample Date:	4/9/2015	4/9/2015	4/13/2015	4/13/2015	4/13/2015
Sample Type:					
Segment Depth:	(25-30) ft BGS	(34-39) ft BGS	(12.5-17.5) ft BGS	(13.9-23.9) ft BGS	(31-36) ft BGS
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane ⁽³⁾	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone ⁽⁴⁾	ug/L	25 U	25 U	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone ⁽⁵⁾	ug/L	50 U	50 U	50 U	50 U
Acetone	ug/L	50 U	50 U	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.9	1.0 U	1.7
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	2.7	240 ^{abc}	3.8	2.4
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	2.2	1.0 U	2.2
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	3.0 U	3.0 U	3.0 U	3.0 U

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW30-12	MW49-13	MW27-11	MW32-12	MW33-12
Sample Identification:	WG-017360-040915-MR-025	WG-017360-040915-MR-021	WG-017360-041315-MR-028	WG-017360-041315-MR-033	WG-017360-041315-MR-034
Sample Date:	4/9/2015	4/9/2015	4/13/2015	4/13/2015	4/13/2015
Sample Type:					
Segment Depth:	(25-30) ft BGS	(34-39) ft BGS	(12.5-17.5) ft BGS	(13.9-23.9) ft BGS	(31-36) ft BGS
Units					
Semi-Volatile Organic Compounds (SVOCs)					
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	ug/L	--	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--	--
2-Chloronaphthalene	ug/L	--	--	--	--
2-Chlorophenol	ug/L	--	--	--	--
2-Methylnaphthalene	ug/L	--	--	--	--
2-Methylphenol	ug/L	--	--	--	--
2-Nitroaniline	ug/L	--	--	--	--
2-Nitrophenol	ug/L	--	--	--	--
3&4-Methylphenol	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--	--
3-Nitroaniline	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--	--
4-Chloroaniline	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--
4-Nitroaniline	ug/L	--	--	--	--
4-Nitrophenol	ug/L	--	--	--	--
Acenaphthene	ug/L	--	--	--	--
Acenaphthylene	ug/L	--	--	--	--
Acetophenone	ug/L	--	--	--	--
Anthracene	ug/L	--	--	--	--
Atrazine	ug/L	--	--	--	--
Benzaldehyde	ug/L	--	--	--	--
Benzo(a)anthracene	ug/L	--	--	--	--
Benzo(a)pyrene	ug/L	--	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--	--
Caprolactam	ug/L	--	--	--	--
Carbazole	ug/L	--	--	--	--
Chrysene	ug/L	--	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--	--
Dibenzofuran	ug/L	--	--	--	--
Diethyl phthalate	ug/L	--	--	--	--
Dimethyl phthalate	ug/L	--	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--	--
Fluoranthene	ug/L	--	--	--	--
Fluorene	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW30-12	MW49-13	MW27-11	MW32-12	MW33-12
Sample Identification:	WG-017360-040915-MR-025	WG-017360-040915-MR-021	WG-017360-041315-MR-028	WG-017360-041315-MR-033	WG-017360-041315-MR-034
Sample Date:	4/9/2015	4/9/2015	4/13/2015	4/13/2015	4/13/2015
Sample Type:					
Segment Depth:	(25-30) ft BGS	(34-39) ft BGS	(12.5-17.5) ft BGS	(13.9-23.9) ft BGS	(31-36) ft BGS
Units					
SVOCs (continued)					
Hexachlorobenzene	ug/L	--	--	--	--
Hexachlorobutadiene	ug/L	--	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--	--
Hexachloroethane	ug/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--	--
Isophorone	ug/L	--	--	--	--
Naphthalene	ug/L	--	--	--	--
Nitrobenzene	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--	--
Pentachlorophenol	ug/L	--	--	--	--
Phenanthrene	ug/L	--	--	--	--
Phenol	ug/L	--	--	--	--
Pyrene	ug/L	--	--	--	--
Metals					
Antimony	ug/L	--	2.3 J	--	--
Arsenic	ug/L	--	5 U	--	--
Barium	ug/L	--	35	--	--
Beryllium	ug/L	--	1 U	--	--
Cadmium	ug/L	--	0.12 J	--	--
Chromium	ug/L	--	3.3 J	--	--
Cobalt	ug/L	--	0.25 J	--	--
Copper	ug/L	--	7.2	--	--
Iron	ug/L	--	13 J	--	--
Lead	ug/L	--	0.4 J	--	--
Manganese	ug/L	--	5 U	--	--
Mercury	ug/L	--	0.2 U	--	--
Molybdenum	ug/L	--	12	--	--
Nickel	ug/L	--	8.8 U	--	--
Selenium	ug/L	--	1.6 J	--	--
Silver	ug/L	--	0.2 U	--	--
Thallium	ug/L	--	2 U	--	--
Vanadium	ug/L	--	2.3 J	--	--
Zinc	ug/L	--	34	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW34-12	MW34-12	MW40-12	MW41-12	MW58-13
Sample Identification:	WG-017360-041315-MR-030	WG-017360-041315-MR-031	WG-017360-041315-MR-032	WG-017360-041315-MR-029	WG-017360-041315-MR-027
Sample Date:	4/13/2015	4/13/2015	4/13/2015	4/13/2015	4/13/2015
Sample Type:		Duplicate			
Segment Depth:	(14.4-24.4) ft BGS	(14.4-24.4) ft BGS	(45-50) ft BGS	(18.3-28.3) ft BGS	(13.5-18.5) ft BGS
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane ⁽³⁾	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone ⁽⁴⁾	ug/L	25 U	25 U	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone ⁽⁵⁾	ug/L	50 U	50 U	50 U	50 U
Acetone	ug/L	50 U	50 U	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	4.4	4.3	7.2 ^{ab}	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW34-12	MW34-12	MW40-12	MW41-12	MW58-13
Sample Identification:	WG-017360-041315-MR-030	WG-017360-041315-MR-031	WG-017360-041315-MR-032	WG-017360-041315-MR-029	WG-017360-041315-MR-027
Sample Date:	4/13/2015	4/13/2015	4/13/2015	4/13/2015	4/13/2015
Sample Type:		Duplicate			
Segment Depth:	(14.4-24.4) ft BGS	(14.4-24.4) ft BGS	(45-50) ft BGS	(18.3-28.3) ft BGS	(13.5-18.5) ft BGS
	Units				
Semi-Volatile Organic Compounds (SVOCs)					
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	ug/L	--	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--	--
2-Chloronaphthalene	ug/L	--	--	--	--
2-Chlorophenol	ug/L	--	--	--	--
2-Methylnaphthalene	ug/L	--	--	--	--
2-Methylphenol	ug/L	--	--	--	--
2-Nitroaniline	ug/L	--	--	--	--
2-Nitrophenol	ug/L	--	--	--	--
3&4-Methylphenol	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--	--
3-Nitroaniline	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--	--
4-Chloroaniline	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--
4-Nitroaniline	ug/L	--	--	--	--
4-Nitrophenol	ug/L	--	--	--	--
Acenaphthene	ug/L	--	--	--	--
Acenaphthylene	ug/L	--	--	--	--
Acetophenone	ug/L	--	--	--	--
Anthracene	ug/L	--	--	--	--
Atrazine	ug/L	--	--	--	--
Benzaldehyde	ug/L	--	--	--	--
Benzo(a)anthracene	ug/L	--	--	--	--
Benzo(a)pyrene	ug/L	--	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--	--
Caprolactam	ug/L	--	--	--	--
Carbazole	ug/L	--	--	--	--
Chrysene	ug/L	--	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--	--
Dibenzofuran	ug/L	--	--	--	--
Diethyl phthalate	ug/L	--	--	--	--
Dimethyl phthalate	ug/L	--	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--	--
Fluoranthene	ug/L	--	--	--	--
Fluorene	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW34-12	MW34-12	MW40-12	MW41-12	MW58-13
Sample Identification:	WG-017360-041315-MR-030	WG-017360-041315-MR-031	WG-017360-041315-MR-032	WG-017360-041315-MR-029	WG-017360-041315-MR-027
Sample Date:	4/13/2015	4/13/2015	4/13/2015	4/13/2015	4/13/2015
Sample Type:		Duplicate			
Segment Depth:	(14.4-24.4) ft BGS	(14.4-24.4) ft BGS	(45-50) ft BGS	(18.3-28.3) ft BGS	(13.5-18.5) ft BGS
	Units				
SVOCs (continued)					
Hexachlorobenzene	ug/L	--	--	--	--
Hexachlorobutadiene	ug/L	--	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--	--
Hexachloroethane	ug/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--	--
Isophorone	ug/L	--	--	--	--
Naphthalene	ug/L	--	--	--	--
Nitrobenzene	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--	--
Pentachlorophenol	ug/L	--	--	--	--
Phenanthrene	ug/L	--	--	--	--
Phenol	ug/L	--	--	--	--
Pyrene	ug/L	--	--	--	--
Metals					
Antimony	ug/L	--	--	--	--
Arsenic	ug/L	--	--	--	--
Barium	ug/L	--	--	--	--
Beryllium	ug/L	--	--	--	--
Cadmium	ug/L	--	--	--	--
Chromium	ug/L	--	--	--	--
Cobalt	ug/L	--	--	--	--
Copper	ug/L	--	--	--	--
Iron	ug/L	--	--	--	--
Lead	ug/L	--	--	--	--
Manganese	ug/L	--	--	--	--
Mercury	ug/L	--	--	--	--
Molybdenum	ug/L	--	--	--	--
Nickel	ug/L	--	--	--	--
Selenium	ug/L	--	--	--	--
Silver	ug/L	--	--	--	--
Thallium	ug/L	--	--	--	--
Vanadium	ug/L	--	--	--	--
Zinc	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW15-04	MW35-12	MW37-12	MW37-12	MW38-12
Sample Identification:	WG-017360-041415-MR-042	WG-017360-041415-MR-035	WG-017360-041415-MR-036	WG-017360-041415-MR-037	WG-017360-041415-MR-038
Sample Date:	4/14/2015	4/14/2015	4/14/2015	4/14/2015	4/14/2015
Sample Type:				Duplicate	
Segment Depth:	(25-30) ft BGS	(24.6-29.6) ft BGS	(19.4-29.4) ft BGS	(19.4-29.4) ft BGS	(20-30) ft BGS
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/L 2.0	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	0.94 J
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane ⁽³⁾	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone ⁽⁴⁾	ug/L 25 U	25 U	25 U	25 U	25 U
2-Hexanone	ug/L 50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone ⁽⁵⁾	ug/L 50 U	50 U	50 U	50 U	50 U
Acetone	ug/L 50 U	50 U	50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	0.43 J
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	0.79 J	6.7
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.0 U	37 ^{ab}	6.4 ^{ab}	6.8 ^{ab}	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	11 ^{ab}
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW15-04	MW35-12	MW37-12	MW37-12	MW38-12
Sample Identification:	WG-017360-041415-MR-042	WG-017360-041415-MR-035	WG-017360-041415-MR-036	WG-017360-041415-MR-037	WG-017360-041415-MR-038
Sample Date:	4/14/2015	4/14/2015	4/14/2015	4/14/2015	4/14/2015
Sample Type:				Duplicate	
Segment Depth:	(25-30) ft BGS	(24.6-29.6) ft BGS	(19.4-29.4) ft BGS	(19.4-29.4) ft BGS	(20-30) ft BGS
	Units				
Semi-Volatile Organic Compounds (SVOCs)					
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	ug/L	--	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--	--
2-Chloronaphthalene	ug/L	--	--	--	--
2-Chlorophenol	ug/L	--	--	--	--
2-Methylnaphthalene	ug/L	--	--	--	--
2-Methylphenol	ug/L	--	--	--	--
2-Nitroaniline	ug/L	--	--	--	--
2-Nitrophenol	ug/L	--	--	--	--
3&4-Methylphenol	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--	--
3-Nitroaniline	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--	--
4-Chloroaniline	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--
4-Nitroaniline	ug/L	--	--	--	--
4-Nitrophenol	ug/L	--	--	--	--
Acenaphthene	ug/L	--	--	--	--
Acenaphthylene	ug/L	--	--	--	--
Acetophenone	ug/L	--	--	--	--
Anthracene	ug/L	--	--	--	--
Atrazine	ug/L	--	--	--	--
Benzaldehyde	ug/L	--	--	--	--
Benzo(a)anthracene	ug/L	--	--	--	--
Benzo(a)pyrene	ug/L	--	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--	--
Caprolactam	ug/L	--	--	--	--
Carbazole	ug/L	--	--	--	--
Chrysene	ug/L	--	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--	--
Dibenzofuran	ug/L	--	--	--	--
Diethyl phthalate	ug/L	--	--	--	--
Dimethyl phthalate	ug/L	--	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--	--
Fluoranthene	ug/L	--	--	--	--
Fluorene	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW15-04	MW35-12	MW37-12	MW37-12	MW38-12
Sample Identification:	WG-017360-041415-MR-042	WG-017360-041415-MR-035	WG-017360-041415-MR-036	WG-017360-041415-MR-037	WG-017360-041415-MR-038
Sample Date:	4/14/2015	4/14/2015	4/14/2015	4/14/2015	4/14/2015
Sample Type:				Duplicate	
Segment Depth:	(25-30) ft BGS	(24.6-29.6) ft BGS	(19.4-29.4) ft BGS	(19.4-29.4) ft BGS	(20-30) ft BGS
	Units				
SVOs (continued)					
Hexachlorobenzene	ug/L	--	--	--	--
Hexachlorobutadiene	ug/L	--	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--	--
Hexachloroethane	ug/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--	--
Isophorone	ug/L	--	--	--	--
Naphthalene	ug/L	--	--	--	--
Nitrobenzene	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--	--
Pentachlorophenol	ug/L	--	--	--	--
Phenanthrene	ug/L	--	--	--	--
Phenol	ug/L	--	--	--	--
Pyrene	ug/L	--	--	--	--
Metals					
Antimony	ug/L	--	--	--	--
Arsenic	ug/L	--	--	--	--
Barium	ug/L	--	--	--	--
Beryllium	ug/L	--	--	--	--
Cadmium	ug/L	--	--	--	--
Chromium	ug/L	--	--	--	--
Cobalt	ug/L	--	--	--	--
Copper	ug/L	--	--	--	--
Iron	ug/L	--	--	--	--
Lead	ug/L	--	--	--	--
Manganese	ug/L	--	--	--	--
Mercury	ug/L	--	--	--	--
Molybdenum	ug/L	--	--	--	--
Nickel	ug/L	--	--	--	--
Selenium	ug/L	--	--	--	--
Silver	ug/L	--	--	--	--
Thallium	ug/L	--	--	--	--
Vanadium	ug/L	--	--	--	--
Zinc	ug/L	--	--	--	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW42-12	MW43-12	MW60-14	MW44-12	MW45-12
Sample Identification:	WG-017360-041415-MR-040	WG-017360-041415-MR-039	WG-017360-041415-MR-041	WG-017360-041515-MR-047	WG-017360-041515-MR-048
Sample Date:	4/14/2015	4/14/2015	4/14/2015	4/15/2015	4/15/2015
Sample Type:					
Segment Depth:	(21-31) ft BGS	(15-25) ft BGS	(21-26) ft BGS	(18.5-28.5) ft BGS	(19.1-29.1) ft BGS
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane ⁽³⁾	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.6	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone ⁽⁴⁾	ug/L 25 U	25 U	25 U	1.4 J	25 U
2-Hexanone	ug/L 50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone ⁽⁵⁾	ug/L 50 U	50 U	50 U	2.6 J	50 U
Acetone	ug/L 50 U	50 U	50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.7	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U	1.5	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U	2.0 J	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.4	3.8	1.0 U	1.0 U	2.3
Toluene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.0 U	0.88 J	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U	4.7	3.0 U

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	MW42-12	MW43-12	MW60-14	MW44-12	MW45-12
Sample Identification:	WG-017360-041415-MR-040	WG-017360-041415-MR-039	WG-017360-041415-MR-041	WG-017360-041515-MR-047	WG-017360-041515-MR-048
Sample Date:	4/14/2015	4/14/2015	4/14/2015	4/15/2015	4/15/2015
Sample Type:					
Segment Depth:	(21-31) ft BGS	(15-25) ft BGS	(21-26) ft BGS	(18.5-28.5) ft BGS	(19.1-29.1) ft BGS
Units					
Semi-Volatile Organic Compounds (SVOCs)					
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	ug/L	--	--	5.0 U	5.0 U
2,4,5-Trichlorophenol	ug/L	--	--	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	--	--	5.0 U	5.0 U
2,4-Dichlorophenol	ug/L	--	--	5.0 U	5.0 U
2,4-Dimethylphenol	ug/L	--	--	2.0 J	5.0 U
2,4-Dinitrophenol	ug/L	--	--	5.0 U	5.0 U
2,4-Dinitrotoluene	ug/L	--	--	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	--	--	5.0 U	5.0 U
2-Chloronaphthalene	ug/L	--	--	5.0 U	5.0 U
2-Chlorophenol	ug/L	--	--	5.0 U	5.0 U
2-Methylnaphthalene	ug/L	--	--	5.0 U	5.0 U
2-Methylphenol	ug/L	--	--	5.0 U	5.0 U
2-Nitroaniline	ug/L	--	--	5.0 U	5.0 U
2-Nitrophenol	ug/L	--	--	5.0 U	5.0 U
3&4-Methylphenol	ug/L	--	--	5.0 U	5.0 U
3,3'-Dichlorobenzidine	ug/L	--	--	5.0 U	5.0 U
3-Nitroaniline	ug/L	--	--	5.0 U	5.0 U
4,6-Dinitro-2-methylphenol	ug/L	--	--	5.0 U	5.0 U
4-Bromophenyl phenyl ether	ug/L	--	--	5.0 U	5.0 U
4-Chloro-3-methylphenol	ug/L	--	--	5.0 U	5.0 U
4-Chloroaniline	ug/L	--	--	5.0 U	5.0 U
4-Chlorophenyl phenyl ether	ug/L	--	--	5.0 U	5.0 U
4-Nitroaniline	ug/L	--	--	5.0 U	5.0 U
4-Nitrophenol	ug/L	--	--	5.0 U	5.0 U
Acenaphthene	ug/L	--	--	5.0 U	5.0 U
Acenaphthylene	ug/L	--	--	5.0 U	5.0 U
Acetophenone	ug/L	--	--	1.0 U	1.0 U
Anthracene	ug/L	--	--	5.0 U	5.0 U
Atrazine	ug/L	--	--	1.0 U	1.0 U
Benzaldehyde	ug/L	--	--	1.0 U	1.0 U
Benzo(a)anthracene	ug/L	--	--	5.0 U	5.0 U
Benzo(a)pyrene	ug/L	--	--	5.0 U	5.0 U
Benzo(b)fluoranthene	ug/L	--	--	5.0 U	5.0 U
Benzo(g,h,i)perylene	ug/L	--	--	5.0 U	5.0 U
Benzo(k)fluoranthene	ug/L	--	--	5.0 U	5.0 U
Biphenyl (1,1-Biphenyl)	ug/L	--	--	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	ug/L	--	--	5.0 U	5.0 U
bis(2-Chloroethyl)ether	ug/L	--	--	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	5.0 U	5.0 U
Butyl benzylphthalate (BBP)	ug/L	--	--	5.0 U	5.0 U
Caprolactam	ug/L	--	--	10 U	10 U
Carbazole	ug/L	--	--	5.0 U	5.0 U
Chrysene	ug/L	--	--	5.0 U	5.0 U
Dibenz(a,h)anthracene	ug/L	--	--	5.0 U	5.0 U
Dibenzofuran	ug/L	--	--	5.0 U	5.0 U
Diethyl phthalate	ug/L	--	--	5.0 U	5.0 U
Dimethyl phthalate	ug/L	--	--	5.0 U	5.0 U
Di-n-butylphthalate (DBP)	ug/L	--	--	5.0 U	5.0 U
Di-n-octyl phthalate (DnOP)	ug/L	--	--	5.0 U	5.0 U
Fluoranthene	ug/L	--	--	5.0 U	5.0 U
Fluorene	ug/L	--	--	5.0 U	5.0 U

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW42-12	MW43-12	MW60-14	MW44-12	MW45-12
Sample Identification:	WG-017360-041415-MR-040	WG-017360-041415-MR-039	WG-017360-041415-MR-041	WG-017360-041515-MR-047	WG-017360-041515-MR-048
Sample Date:	4/14/2015	4/14/2015	4/14/2015	4/15/2015	4/15/2015
Sample Type:					
Segment Depth:	(21-31) ft BGS	(15-25) ft BGS	(21-26) ft BGS	(18.5-28.5) ft BGS	(19.1-29.1) ft BGS
	Units				
SVOCs (continued)					
Hexachlorobenzene	ug/L	--	--	5.0 U	5.0 U
Hexachlorobutadiene	ug/L	--	--	5.0 U	5.0 U
Hexachlorocyclopentadiene	ug/L	--	--	5.0 U	5.0 U
Hexachloroethane	ug/L	--	--	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L	--	--	5.0 U	5.0 U
Isophorone	ug/L	--	--	5.0 U	5.0 U
Naphthalene	ug/L	--	--	0.48 J	5.0 U
Nitrobenzene	ug/L	--	--	5.0 U	5.0 U
N-Nitrosodi-n-propylamine	ug/L	--	--	5.0 U	5.0 U
N-Nitrosodiphenylamine	ug/L	--	--	5.0 U	5.0 U
Pentachlorophenol	ug/L	--	--	5.0 U	5.0 U
Phenanthrene	ug/L	--	--	5.0 U	5.0 U
Phenol	ug/L	--	--	5.0 U	5.0 U
Pyrene	ug/L	--	--	5.0 U	5.0 U
Metals					
Antimony	ug/L	--	--	0.1 U	--
Arsenic	ug/L	--	--	5 U	--
Barium	ug/L	--	--	21	--
Beryllium	ug/L	--	--	1 U	--
Cadmium	ug/L	--	--	1 U	--
Chromium	ug/L	--	--	4.1 J	--
Cobalt	ug/L	--	--	1.2 J	--
Copper	ug/L	--	--	4.7 J	--
Iron	ug/L	--	--	54 J	--
Lead	ug/L	--	--	0.61 J	--
Manganese	ug/L	--	--	5.4	--
Mercury	ug/L	--	--	0.2 U	--
Molybdenum	ug/L	--	--	4.8 J	--
Nickel	ug/L	--	--	5 U	--
Selenium	ug/L	--	--	2 J	--
Silver	ug/L	--	--	0.2 U	--
Thallium	ug/L	--	--	2 U	--
Vanadium	ug/L	--	--	0.65 J	--
Zinc	ug/L	--	--	4.5 J	--

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW46-12	MW50-12	MW51-12	MW51-12	MW52-12
Sample Identification:	WG-017360-041515-MR-049	WG-017360-041515-MR-046	WG-017360-041515-MR-044	WG-017360-041515-MR-045	WG-017360-041515-MR-043
Sample Date:	4/15/2015	4/15/2015	4/15/2015	4/15/2015	4/15/2015
Sample Type:				Duplicate	
Segment Depth:	(20.2-30.2) ft BGS	(17-27) ft BGS	(17-27) ft BGS	(17-27) ft BGS	(16.7-26.7) ft BGS
	Units				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane ⁽³⁾	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	25 U
2-Butanone ⁽⁴⁾	ug/L	25 U	25 U	25 U	50 U
2-Hexanone	ug/L	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone ⁽⁵⁾	ug/L	50 U	50 U	50 U	50 U
Acetone	ug/L	50 U	50 U	50 U	1.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	5.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	5.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.6	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	5.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	5.0 U	1.7
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	2.3 J
Isopropyl benzene	ug/L	5.0 U	5.0 U	5.0 U	10 U
Methyl acetate	ug/L	10 U	10 U	10 U	1.0 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	5.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U	1.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	4.0	3.8	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.2	1.1	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.8 J
Xylenes (total)	ug/L	3.0 U	0.68 J	3.0 U	

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW46-12	MW50-12	MW51-12	MW51-12	MW52-12
Sample Identification:	WG-017360-041515-MR-049	WG-017360-041515-MR-046	WG-017360-041515-MR-044	WG-017360-041515-MR-045	WG-017360-041515-MR-043
Sample Date:	4/15/2015	4/15/2015	4/15/2015	4/15/2015	4/15/2015
Sample Type:				Duplicate	
Segment Depth:	(20.2-30.2) ft BGS	(17-27) ft BGS	(17-27) ft BGS	(17-27) ft BGS	(16.7-26.7) ft BGS
	Units				
Semi-Volatile Organic Compounds (SVOCs)					
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	ug/L	5.0 U	5.0 U	5.0 U	1.3 J
2,4-Dinitrophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
3&4-Methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Bromophenyl phenyl ether	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl phenyl ether	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U	3.2 J
4-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetophenone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Anthracene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Atrazine	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Benzaldehyde	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)anthracene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Biphenyl (1,1-Biphenyl)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Butyl benzylphthalate (BBP)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Caprolactam	ug/L	10 U	10 U	10 U	10 U
Carbazole	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Diethyl phthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dimethyl phthalate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate (DBP)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-octyl phthalate (DnOP)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	ug/L	5.0 U	5.0 U	5.0 U	2.0 J

TABLE 4

GROUNDWATER SAMPLE ANALYTICAL RESULTS
 SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
 FORMER GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Sample Location:	MW46-12	MW50-12	MW51-12	MW51-12	MW52-12
Sample Identification:	WG-017360-041515-MR-049	WG-017360-041515-MR-046	WG-017360-041515-MR-044	WG-017360-041515-MR-045	WG-017360-041515-MR-043
Sample Date:	4/15/2015	4/15/2015	4/15/2015	4/15/2015	4/15/2015
Sample Type:				Duplicate	
Segment Depth:	(20.2-30.2) ft BGS	(17-27) ft BGS	(17-27) ft BGS	(17-27) ft BGS	(16.7-26.7) ft BGS
	Units				
SVOCs (continued)					
Hexachlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodi-n-propylamine	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodiphenylamine	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Pyrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Metals					
Antimony	ug/L	--	--	--	--
Arsenic	ug/L	--	--	--	--
Barium	ug/L	--	--	--	--
Beryllium	ug/L	--	--	--	--
Cadmium	ug/L	--	--	--	--
Chromium	ug/L	--	--	--	--
Cobalt	ug/L	--	--	--	--
Copper	ug/L	--	--	--	--
Iron	ug/L	--	--	--	--
Lead	ug/L	--	--	--	--
Manganese	ug/L	--	--	--	--
Mercury	ug/L	--	--	--	--
Molybdenum	ug/L	--	--	--	--
Nickel	ug/L	--	--	--	--
Selenium	ug/L	--	--	--	--
Silver	ug/L	--	--	--	--
Thallium	ug/L	--	--	--	--
Vanadium	ug/L	--	--	--	--
Zinc	ug/L	--	--	--	--

TABLE 5

DRAFT

**SURFACE WATER SAMPLE ANALYTICAL RESULTS
SPRING 2015 SEMI-ANNUAL GROUNDWATER EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location:		C-1	C-2	C-3
Sample Identification:		SW-017360-040615-MR-006	SW-017360-040615-MR-004	SW-017360-040615-MR-005
Sample Date:		4/6/2015	4/6/2015	4/6/2015
	Units			
Volatile Organic Compounds (VOCs)				
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane ⁽³⁾	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
2-Butanone ⁽⁴⁾	ug/L	25 U	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U
4-Methyl-2-pentanone ⁽⁵⁾	ug/L	50 U	50 U	50 U
Acetone	ug/L	50 U	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	0.47 J	1.0 U	0.86 J
Toluene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	3.0 U	3.0 U	3.0 U

DRAFT Unvalidated Data**Notes:**

⁽¹⁾ Cleanup Criteria Requirements for Response Activity, Administrative Rules R299.1 to R299.50 effective December 30, 2013, pursuant to Part 201 of 1994 PA 451 as amended.

⁽²⁾ Carbonate Hardness of 344 mg/L was used to calculate Groundwater Surface Water Interface Criteria.

⁽³⁾ 1,2-Dibromoethane also known as ethylene dibromide

⁽⁴⁾ 2-butanone also known as methyl ethyl ketone (MEK)

⁽⁵⁾ 4-methyl-2-pentanone also known as methyl isobutyl ketone (MIBK)

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

R - Rejected.

-- Parameter was not analyzed.

Attachment A

Analytical Laboratory Report



29-Apr-2015

Rawa Fleisher
Conestoga-Rovers & Associates
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360)**

Work Order: **1504937**

Dear Rawa,

ALS Environmental received 24 samples on 16-Apr-2015 09:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 121.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 1504937

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1504937-01	WG-017360-041315-MR-027	Groundwater		4/13/2015 11:34	4/16/2015 09:50	☐
1504937-02	WG-017360-041315-MR-028	Groundwater		4/13/2015 12:08	4/16/2015 09:50	☐
1504937-03	WG-017360-041315-MR-029	Groundwater		4/13/2015 13:25	4/16/2015 09:50	☐
1504937-04	WG-017360-041315-MR-030	Groundwater		4/13/2015 14:09	4/16/2015 09:50	☐
1504937-05	WG-017360-041315-MR-031	Groundwater		4/13/2015 14:20	4/16/2015 09:50	☐
1504937-06	WG-017360-041315-MR-032	Groundwater		4/13/2015 14:53	4/16/2015 09:50	☐
1504937-07	WG-017360-041315-MR-033	Groundwater		4/13/2015 15:38	4/16/2015 09:50	☐
1504937-08	WG-017360-041315-MR-034	Groundwater		4/13/2015 16:19	4/16/2015 09:50	☐
1504937-09	WG-017360-041415-MR-035	Groundwater		4/14/2015 11:00	4/16/2015 09:50	☐
1504937-10	WG-017360-041415-MR-036	Groundwater		4/14/2015 11:37	4/16/2015 09:50	☐
1504937-11	WG-017360-041415-MR-037	Groundwater		4/14/2015 11:55	4/16/2015 09:50	☐
1504937-12	WG-017360-041415-MR-038	Groundwater		4/14/2015 12:32	4/16/2015 09:50	☐
1504937-13	WG-017360-041415-MR-039	Groundwater		4/14/2015 13:27	4/16/2015 09:50	☐
1504937-14	WG-017360-041415-MR-040	Groundwater		4/14/2015 14:14	4/16/2015 09:50	☐
1504937-15	WG-017360-041415-MR-041	Groundwater		4/14/2015 15:17	4/16/2015 09:50	☐
1504937-16	WG-017360-041415-MR-042	Groundwater		4/14/2015 16:32	4/16/2015 09:50	☐
1504937-17	WG-017360-041515-MR-043	Groundwater		4/15/2015 10:32	4/16/2015 09:50	☐
1504937-18	WG-017360-041515-MR-044	Groundwater		4/15/2015 11:31	4/16/2015 09:50	☐
1504937-19	WG-017360-041515-MR-045	Groundwater		4/15/2015 11:55	4/16/2015 09:50	☐
1504937-20	WG-017360-041515-MR-046	Groundwater		4/15/2015 12:28	4/16/2015 09:50	☐
1504937-21	WG-017360-041515-MR-047	Groundwater		4/15/2015 13:32	4/16/2015 09:50	☐
1504937-22	WG-017360-041515-MR-048	Groundwater		4/15/2015 14:09	4/16/2015 09:50	☐
1504937-23	WG-017360-041515-MR-049	Groundwater		4/15/2015 14:44	4/16/2015 09:50	☐
1504937-24	TB-017360-041515-MR-050	Water		4/15/2015	4/16/2015 09:50	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 1504937

Case Narrative

Batch 70065, Method SVO_8270_W, Sample SLCSW1-70065: The LCS recovery was above the upper control limit for Benzaldehyde. All the sample results in the batch were non-detect. No qualification is required.

Batch 70065, Method SVO_8270_W, Sample 1504937-17B MS/MSD: The MS and MSD recovery was above the upper control limit for Pentachlorophenol. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Batch 70065, Method SVO_8270_W, Sample 1504937-17B MS/MSD: The MS and MSD recovery was below the lower control limit for Naphthalene. The corresponding result in the parent sample may be biased low.

Batch 70065, Method SVO_8270_W, Sample 1504937-17B MSD: The RPD between the MS and MSD was outside of the control limit for Bis(2-chloroethyl)ether. The corresponding result should be considered estimated.

Batch 70065, Method SVO_8270_W, Sample 1504937-17B MSD: The MSD recovery was below the lower control limit for 4-Nitroaniline. However, the MS recovery and the RPD between the MS and MSD were within control limits. No qualification is required.

Batch R162024, Method VOC_8260_W, Samples 1504937-03A, -04A and -05A: Samples ran at a dilution due to high concentration of target analytes.

Batch R162024, Method VOC_8260_W, Sample 1504937-05A MS/MSD: The MS and MSD recovery was below the lower control limit for 4-Methyl-2-pentanone. The corresponding result in the parent sample may be biased low.

Batch R162024, Method VOC_8260_W, Sample 1504937-05A MS/MSD: The MS and MSD recovery was above the upper control limit for Chloroethane. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Batch R162045, Method VOC_8260_W, Sample 1504937-13A MS/MSD: The MS and MSD recovery was above the upper control limit for Chloromethane. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Batch R162069A, Method VOC_8260_W, Sample VLCSW1-150426: The LCS recovery was above the upper control limit for 1,2-Dibromo-2-chloropropane. All the sample results in the batch were non-detect. No qualification is required.

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 1504937

Case Narrative

Batch R162069A, Method VOC_8260_W, Sample 1504937-17A MS/MSD: The MS and MSD recovery was above the upper control limit for Dichlorodifluoromethane. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Batch R162069A, Method VOC_8260_W, Sample 1504937-17A MS: The MS recovery was above the upper control limit for 1,2-Dibromo-2-chloropropane. However, the MSD recovery and the RPD between the MS and MSD were within control limits. No qualification is required.

Batch R162069A, Method VOC_8260_W, CCV: Acetone recovery was biased high in the CCV; hits may be biased high.

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
WorkOrder: 1504937

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-027
Collection Date: 4/13/2015 11:34 AM

Work Order: 1504937
Lab ID: 1504937-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
BatchID: R162024							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/24/2015 21:58
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/24/2015 21:58
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/24/2015 21:58
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/24/2015 21:58
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/24/2015 21:58
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/24/2015 21:58
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/24/2015 21:58
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/24/2015 21:58
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/24/2015 21:58
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/24/2015 21:58
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/24/2015 21:58
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/24/2015 21:58
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/24/2015 21:58
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/24/2015 21:58
2-Butanone	U		0.87	25	µg/L	1	4/24/2015 21:58
2-Hexanone	U		0.15	50	µg/L	1	4/24/2015 21:58
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/24/2015 21:58
Acetone	U		3.1	50	µg/L	1	4/24/2015 21:58
Benzene	U		0.25	1.0	µg/L	1	4/24/2015 21:58
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/24/2015 21:58
Bromoform	U		0.099	1.0	µg/L	1	4/24/2015 21:58
Bromomethane	U		1.0	5.0	µg/L	1	4/24/2015 21:58
Carbon disulfide	U		0.26	5.0	µg/L	1	4/24/2015 21:58
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/24/2015 21:58
Chlorobenzene	U		0.19	1.0	µg/L	1	4/24/2015 21:58
Chloroethane	U		0.21	5.0	µg/L	1	4/24/2015 21:58
Chloroform	U		0.25	1.0	µg/L	1	4/24/2015 21:58
Chloromethane	U		0.25	5.0	µg/L	1	4/24/2015 21:58
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/24/2015 21:58
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/24/2015 21:58
Cyclohexane	U		0.31	1.0	µg/L	1	4/24/2015 21:58
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/24/2015 21:58
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/24/2015 21:58
Ethylbenzene	U		0.22	1.0	µg/L	1	4/24/2015 21:58
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/24/2015 21:58
Methyl acetate	U		0.62	10	µg/L	1	4/24/2015 21:58
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/24/2015 21:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-027
Collection Date: 4/13/2015 11:34 AM

Work Order: 1504937
Lab ID: 1504937-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/24/2015 21:58
Methylene chloride	U		0.64	5.0	µg/L	1	4/24/2015 21:58
Styrene	U		0.18	1.0	µg/L	1	4/24/2015 21:58
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/24/2015 21:58
Toluene	U		0.20	1.0	µg/L	1	4/24/2015 21:58
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/24/2015 21:58
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/24/2015 21:58
Trichloroethene	U		0.34	1.0	µg/L	1	4/24/2015 21:58
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/24/2015 21:58
Vinyl chloride	U		0.19	1.0	µg/L	1	4/24/2015 21:58
Xylenes, Total	U		0.62	3.0	µg/L	1	4/24/2015 21:58
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	4/24/2015 21:58
Surr: 4-Bromofluorobenzene	94.8			80-110	%REC	1	4/24/2015 21:58
Surr: Dibromofluoromethane	100			85-115	%REC	1	4/24/2015 21:58
Surr: Toluene-d8	96.0			85-110	%REC	1	4/24/2015 21:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-028
Collection Date: 4/13/2015 12:08 PM

Work Order: 1504937
Lab ID: 1504937-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7470		Prep: SW7470 / 4/21/15		Analyst: LR
BatchID: <u>70095</u>							
Mercury	U		0.000018	0.00020	mg/L	1	4/21/2015 20:48
METALS BY ICP-MS			SW6020A		Prep: SW3005A / 4/21/15		Analyst: RH
BatchID: <u>70081</u>							
Antimony	0.0023	J	0.00011	0.0050	mg/L	1	4/22/2015 02:05
Arsenic	U		0.00056	0.0050	mg/L	1	4/22/2015 02:05
Barium	0.035		0.00030	0.0050	mg/L	1	4/22/2015 02:05
Beryllium	U		0.00017	0.0020	mg/L	1	4/22/2015 02:05
Cadmium	0.00012	J	0.000026	0.0020	mg/L	1	4/22/2015 02:05
Chromium	0.0033	J	0.00013	0.0050	mg/L	1	4/22/2015 02:05
Cobalt	0.00025	J	0.00010	0.0050	mg/L	1	4/22/2015 02:05
Copper	0.0072		0.00017	0.0050	mg/L	1	4/22/2015 02:05
Lead	0.00040	J	0.00030	0.0050	mg/L	1	4/22/2015 02:05
Manganese	0.00061	J	0.00016	0.0050	mg/L	1	4/22/2015 02:05
Molybdenum	0.012		0.00040	0.0050	mg/L	1	4/22/2015 02:05
Nickel	0.0088		0.00031	0.0050	mg/L	1	4/22/2015 02:05
Selenium	0.0016	J	0.00075	0.0050	mg/L	1	4/22/2015 02:05
Silver	U		0.000020	0.0050	mg/L	1	4/22/2015 02:05
Thallium	U		0.00048	0.0050	mg/L	1	4/22/2015 02:05
Vanadium	0.0023	J	0.00046	0.0050	mg/L	1	4/22/2015 02:05
Zinc	0.034		0.0029	0.010	mg/L	1	4/22/2015 02:05
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
BatchID: <u>R162024</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/24/2015 22:24
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/24/2015 22:24
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/24/2015 22:24
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/24/2015 22:24
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/24/2015 22:24
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/24/2015 22:24
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/24/2015 22:24
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/24/2015 22:24
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/24/2015 22:24
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/24/2015 22:24
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/24/2015 22:24
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/24/2015 22:24
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/24/2015 22:24
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/24/2015 22:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-028
Collection Date: 4/13/2015 12:08 PM

Work Order: 1504937
Lab ID: 1504937-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.87	25	µg/L	1	4/24/2015 22:24
2-Hexanone	U		0.15	50	µg/L	1	4/24/2015 22:24
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/24/2015 22:24
Acetone	U		3.1	50	µg/L	1	4/24/2015 22:24
Benzene	U		0.25	1.0	µg/L	1	4/24/2015 22:24
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/24/2015 22:24
Bromoform	U		0.099	1.0	µg/L	1	4/24/2015 22:24
Bromomethane	U		1.0	5.0	µg/L	1	4/24/2015 22:24
Carbon disulfide	U		0.26	5.0	µg/L	1	4/24/2015 22:24
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/24/2015 22:24
Chlorobenzene	U		0.19	1.0	µg/L	1	4/24/2015 22:24
Chloroethane	U		0.21	5.0	µg/L	1	4/24/2015 22:24
Chloroform	U		0.25	1.0	µg/L	1	4/24/2015 22:24
Chloromethane	U		0.25	5.0	µg/L	1	4/24/2015 22:24
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/24/2015 22:24
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/24/2015 22:24
Cyclohexane	U		0.31	1.0	µg/L	1	4/24/2015 22:24
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/24/2015 22:24
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/24/2015 22:24
Ethylbenzene	U		0.22	1.0	µg/L	1	4/24/2015 22:24
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/24/2015 22:24
Methyl acetate	U		0.62	10	µg/L	1	4/24/2015 22:24
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/24/2015 22:24
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/24/2015 22:24
Methylene chloride	U		0.64	5.0	µg/L	1	4/24/2015 22:24
Styrene	U		0.18	1.0	µg/L	1	4/24/2015 22:24
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/24/2015 22:24
Toluene	U		0.20	1.0	µg/L	1	4/24/2015 22:24
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/24/2015 22:24
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/24/2015 22:24
Trichloroethene	U		0.34	1.0	µg/L	1	4/24/2015 22:24
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/24/2015 22:24
Vinyl chloride	U		0.19	1.0	µg/L	1	4/24/2015 22:24
Xylenes, Total	U		0.62	3.0	µg/L	1	4/24/2015 22:24
Surr: 1,2-Dichloroethane-d4	106			75-120	%REC	1	4/24/2015 22:24
Surr: 4-Bromofluorobenzene	93.6			80-110	%REC	1	4/24/2015 22:24
Surr: Dibromofluoromethane	104			85-115	%REC	1	4/24/2015 22:24
Surr: Toluene-d8	97.6			85-110	%REC	1	4/24/2015 22:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-029
Collection Date: 4/13/2015 01:25 PM

Work Order: 1504937
Lab ID: 1504937-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R162100</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/27/2015 15:40
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/27/2015 15:40
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/27/2015 15:40
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/27/2015 15:40
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/27/2015 15:40
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/27/2015 15:40
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/27/2015 15:40
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/27/2015 15:40
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/27/2015 15:40
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/27/2015 15:40
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/27/2015 15:40
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/27/2015 15:40
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/27/2015 15:40
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/27/2015 15:40
2-Butanone	U		0.87	25	µg/L	1	4/27/2015 15:40
2-Hexanone	U		0.15	50	µg/L	1	4/27/2015 15:40
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/27/2015 15:40
Acetone	U		3.1	50	µg/L	1	4/27/2015 15:40
Benzene	U		0.25	1.0	µg/L	1	4/27/2015 15:40
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/27/2015 15:40
Bromoform	U		0.099	1.0	µg/L	1	4/27/2015 15:40
Bromomethane	U		1.0	5.0	µg/L	1	4/27/2015 15:40
Carbon disulfide	U		0.26	5.0	µg/L	1	4/27/2015 15:40
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/27/2015 15:40
Chlorobenzene	U		0.19	1.0	µg/L	1	4/27/2015 15:40
Chloroethane	U		0.21	5.0	µg/L	1	4/27/2015 15:40
Chloroform	U		0.25	1.0	µg/L	1	4/27/2015 15:40
Chloromethane	U		0.25	5.0	µg/L	1	4/27/2015 15:40
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/27/2015 15:40
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/27/2015 15:40
Cyclohexane	U		0.31	1.0	µg/L	1	4/27/2015 15:40
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/27/2015 15:40
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/27/2015 15:40
Ethylbenzene	U		0.22	1.0	µg/L	1	4/27/2015 15:40
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/27/2015 15:40
Methyl acetate	U		0.62	10	µg/L	1	4/27/2015 15:40
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/27/2015 15:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-029
Collection Date: 4/13/2015 01:25 PM

Work Order: 1504937
Lab ID: 1504937-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/27/2015 15:40
Methylene chloride	U		0.64	5.0	µg/L	1	4/27/2015 15:40
Styrene	U		0.18	1.0	µg/L	1	4/27/2015 15:40
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/27/2015 15:40
Toluene	U		0.20	1.0	µg/L	1	4/27/2015 15:40
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/27/2015 15:40
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/27/2015 15:40
Trichloroethene	U		0.34	1.0	µg/L	1	4/27/2015 15:40
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/27/2015 15:40
Vinyl chloride	U		0.19	1.0	µg/L	1	4/27/2015 15:40
Xylenes, Total	U		0.62	3.0	µg/L	1	4/27/2015 15:40
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	4/27/2015 15:40
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	4/27/2015 15:40
Surr: Dibromofluoromethane	99.4			85-115	%REC	1	4/27/2015 15:40
Surr: Toluene-d8	97.3			85-110	%REC	1	4/27/2015 15:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-030
Collection Date: 4/13/2015 02:09 PM

Work Order: 1504937
Lab ID: 1504937-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R162128</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/27/2015 02:53
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/27/2015 02:53
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/27/2015 02:53
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/27/2015 02:53
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/27/2015 02:53
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/27/2015 02:53
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/27/2015 02:53
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/27/2015 02:53
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/27/2015 02:53
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/27/2015 02:53
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/27/2015 02:53
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/27/2015 02:53
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/27/2015 02:53
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/27/2015 02:53
2-Butanone	U		0.87	25	µg/L	1	4/27/2015 02:53
2-Hexanone	U		0.15	50	µg/L	1	4/27/2015 02:53
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/27/2015 02:53
Acetone	U		3.1	50	µg/L	1	4/27/2015 02:53
Benzene	U		0.25	1.0	µg/L	1	4/27/2015 02:53
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/27/2015 02:53
Bromoform	U		0.099	1.0	µg/L	1	4/27/2015 02:53
Bromomethane	U		1.0	5.0	µg/L	1	4/27/2015 02:53
Carbon disulfide	U		0.26	5.0	µg/L	1	4/27/2015 02:53
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/27/2015 02:53
Chlorobenzene	U		0.19	1.0	µg/L	1	4/27/2015 02:53
Chloroethane	U		0.21	5.0	µg/L	1	4/27/2015 02:53
Chloroform	U		0.25	1.0	µg/L	1	4/27/2015 02:53
Chloromethane	U		0.25	5.0	µg/L	1	4/27/2015 02:53
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/27/2015 02:53
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/27/2015 02:53
Cyclohexane	U		0.31	1.0	µg/L	1	4/27/2015 02:53
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/27/2015 02:53
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/27/2015 02:53
Ethylbenzene	U		0.22	1.0	µg/L	1	4/27/2015 02:53
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/27/2015 02:53
Methyl acetate	U		0.62	10	µg/L	1	4/27/2015 02:53
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/27/2015 02:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-030
Collection Date: 4/13/2015 02:09 PM

Work Order: 1504937
Lab ID: 1504937-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/27/2015 02:53
Methylene chloride	U		0.64	5.0	µg/L	1	4/27/2015 02:53
Styrene	U		0.18	1.0	µg/L	1	4/27/2015 02:53
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/27/2015 02:53
Toluene	U		0.20	1.0	µg/L	1	4/27/2015 02:53
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/27/2015 02:53
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/27/2015 02:53
Trichloroethene	4.4		0.34	1.0	µg/L	1	4/27/2015 02:53
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/27/2015 02:53
Vinyl chloride	U		0.19	1.0	µg/L	1	4/27/2015 02:53
Xylenes, Total	U		0.62	3.0	µg/L	1	4/27/2015 02:53
Surr: 1,2-Dichloroethane-d4	93.6			75-120	%REC	1	4/27/2015 02:53
Surr: 4-Bromofluorobenzene	94.3			80-110	%REC	1	4/27/2015 02:53
Surr: Dibromofluoromethane	102			85-115	%REC	1	4/27/2015 02:53
Surr: Toluene-d8	95.8			85-110	%REC	1	4/27/2015 02:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-031
Collection Date: 4/13/2015 02:20 PM

Work Order: 1504937
Lab ID: 1504937-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R162128</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/27/2015 03:19
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/27/2015 03:19
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/27/2015 03:19
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/27/2015 03:19
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/27/2015 03:19
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/27/2015 03:19
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/27/2015 03:19
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/27/2015 03:19
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/27/2015 03:19
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/27/2015 03:19
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/27/2015 03:19
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/27/2015 03:19
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/27/2015 03:19
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/27/2015 03:19
2-Butanone	U		0.87	25	µg/L	1	4/27/2015 03:19
2-Hexanone	U		0.15	50	µg/L	1	4/27/2015 03:19
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/27/2015 03:19
Acetone	U		3.1	50	µg/L	1	4/27/2015 03:19
Benzene	U		0.25	1.0	µg/L	1	4/27/2015 03:19
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/27/2015 03:19
Bromoform	U		0.099	1.0	µg/L	1	4/27/2015 03:19
Bromomethane	U		1.0	5.0	µg/L	1	4/27/2015 03:19
Carbon disulfide	U		0.26	5.0	µg/L	1	4/27/2015 03:19
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/27/2015 03:19
Chlorobenzene	U		0.19	1.0	µg/L	1	4/27/2015 03:19
Chloroethane	U		0.21	5.0	µg/L	1	4/27/2015 03:19
Chloroform	U		0.25	1.0	µg/L	1	4/27/2015 03:19
Chloromethane	U		0.25	5.0	µg/L	1	4/27/2015 03:19
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/27/2015 03:19
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/27/2015 03:19
Cyclohexane	U		0.31	1.0	µg/L	1	4/27/2015 03:19
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/27/2015 03:19
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/27/2015 03:19
Ethylbenzene	U		0.22	1.0	µg/L	1	4/27/2015 03:19
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/27/2015 03:19
Methyl acetate	U		0.62	10	µg/L	1	4/27/2015 03:19
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/27/2015 03:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-031
Collection Date: 4/13/2015 02:20 PM

Work Order: 1504937
Lab ID: 1504937-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/27/2015 03:19
Methylene chloride	U		0.64	5.0	µg/L	1	4/27/2015 03:19
Styrene	U		0.18	1.0	µg/L	1	4/27/2015 03:19
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/27/2015 03:19
Toluene	U		0.20	1.0	µg/L	1	4/27/2015 03:19
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/27/2015 03:19
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/27/2015 03:19
Trichloroethene	4.3		0.34	1.0	µg/L	1	4/27/2015 03:19
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/27/2015 03:19
Vinyl chloride	U		0.19	1.0	µg/L	1	4/27/2015 03:19
Xylenes, Total	U		0.62	3.0	µg/L	1	4/27/2015 03:19
Surr: 1,2-Dichloroethane-d4	99.4			75-120	%REC	1	4/27/2015 03:19
Surr: 4-Bromofluorobenzene	93.1			80-110	%REC	1	4/27/2015 03:19
Surr: Dibromofluoromethane	102			85-115	%REC	1	4/27/2015 03:19
Surr: Toluene-d8	95.2			85-110	%REC	1	4/27/2015 03:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-032
Collection Date: 4/13/2015 02:53 PM

Work Order: 1504937
Lab ID: 1504937-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R162024</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 12:05
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 12:05
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 12:05
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 12:05
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 12:05
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 12:05
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 12:05
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 12:05
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 12:05
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 12:05
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 12:05
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 12:05
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 12:05
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 12:05
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 12:05
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 12:05
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 12:05
Acetone	U		3.1	50	µg/L	1	4/25/2015 12:05
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 12:05
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 12:05
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 12:05
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 12:05
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 12:05
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 12:05
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 12:05
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 12:05
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 12:05
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 12:05
cis-1,2-Dichloroethene	2.6		0.25	1.0	µg/L	1	4/25/2015 12:05
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 12:05
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 12:05
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 12:05
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 12:05
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 12:05
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 12:05
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 12:05
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 12:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-032
Collection Date: 4/13/2015 02:53 PM

Work Order: 1504937
Lab ID: 1504937-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 12:05
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 12:05
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 12:05
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/25/2015 12:05
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 12:05
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 12:05
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 12:05
Trichloroethene	7.2		0.34	1.0	µg/L	1	4/25/2015 12:05
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 12:05
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 12:05
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 12:05
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/25/2015 12:05
Surr: 4-Bromofluorobenzene	92.0			80-110	%REC	1	4/25/2015 12:05
Surr: Dibromofluoromethane	101			85-115	%REC	1	4/25/2015 12:05
Surr: Toluene-d8	95.4			85-110	%REC	1	4/25/2015 12:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-033
Collection Date: 4/13/2015 03:38 PM

Work Order: 1504937
Lab ID: 1504937-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
BatchID: R162024							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 12:31
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 12:31
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 12:31
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 12:31
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 12:31
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 12:31
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 12:31
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 12:31
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 12:31
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 12:31
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 12:31
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 12:31
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 12:31
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 12:31
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 12:31
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 12:31
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 12:31
Acetone	U		3.1	50	µg/L	1	4/25/2015 12:31
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 12:31
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 12:31
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 12:31
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 12:31
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 12:31
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 12:31
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 12:31
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 12:31
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 12:31
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 12:31
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/25/2015 12:31
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 12:31
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 12:31
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 12:31
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 12:31
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 12:31
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 12:31
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 12:31
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 12:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-033
Collection Date: 4/13/2015 03:38 PM

Work Order: 1504937
Lab ID: 1504937-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 12:31
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 12:31
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 12:31
Tetrachloroethene	3.8		0.25	1.0	µg/L	1	4/25/2015 12:31
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 12:31
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 12:31
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 12:31
Trichloroethene	U		0.34	1.0	µg/L	1	4/25/2015 12:31
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 12:31
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 12:31
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 12:31
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	1	4/25/2015 12:31
Surr: 4-Bromofluorobenzene	93.8			80-110	%REC	1	4/25/2015 12:31
Surr: Dibromofluoromethane	102			85-115	%REC	1	4/25/2015 12:31
Surr: Toluene-d8	97.2			85-110	%REC	1	4/25/2015 12:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-034
Collection Date: 4/13/2015 04:19 PM

Work Order: 1504937
Lab ID: 1504937-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R162024</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 12:57
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 12:57
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 12:57
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 12:57
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 12:57
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 12:57
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 12:57
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 12:57
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 12:57
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 12:57
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 12:57
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 12:57
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 12:57
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 12:57
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 12:57
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 12:57
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 12:57
Acetone	U		3.1	50	µg/L	1	4/25/2015 12:57
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 12:57
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 12:57
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 12:57
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 12:57
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 12:57
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 12:57
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 12:57
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 12:57
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 12:57
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 12:57
cis-1,2-Dichloroethene	1.7		0.25	1.0	µg/L	1	4/25/2015 12:57
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 12:57
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 12:57
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 12:57
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 12:57
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 12:57
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 12:57
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 12:57
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 12:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041315-MR-034
Collection Date: 4/13/2015 04:19 PM

Work Order: 1504937
Lab ID: 1504937-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 12:57
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 12:57
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 12:57
Tetrachloroethene	2.4		0.25	1.0	µg/L	1	4/25/2015 12:57
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 12:57
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 12:57
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 12:57
Trichloroethene	2.2		0.34	1.0	µg/L	1	4/25/2015 12:57
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 12:57
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 12:57
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 12:57
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	4/25/2015 12:57
Surr: 4-Bromofluorobenzene	93.6			80-110	%REC	1	4/25/2015 12:57
Surr: Dibromofluoromethane	100			85-115	%REC	1	4/25/2015 12:57
Surr: Toluene-d8	97.0			85-110	%REC	1	4/25/2015 12:57

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-035
Collection Date: 4/14/2015 11:00 AM

Work Order: 1504937
Lab ID: 1504937-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R162128</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/27/2015 02:28
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/27/2015 02:28
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/27/2015 02:28
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/27/2015 02:28
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/27/2015 02:28
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/27/2015 02:28
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/27/2015 02:28
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/27/2015 02:28
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/27/2015 02:28
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/27/2015 02:28
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/27/2015 02:28
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/27/2015 02:28
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/27/2015 02:28
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/27/2015 02:28
2-Butanone	U		0.87	25	µg/L	1	4/27/2015 02:28
2-Hexanone	U		0.15	50	µg/L	1	4/27/2015 02:28
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/27/2015 02:28
Acetone	U		3.1	50	µg/L	1	4/27/2015 02:28
Benzene	U		0.25	1.0	µg/L	1	4/27/2015 02:28
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/27/2015 02:28
Bromoform	U		0.099	1.0	µg/L	1	4/27/2015 02:28
Bromomethane	U		1.0	5.0	µg/L	1	4/27/2015 02:28
Carbon disulfide	U		0.26	5.0	µg/L	1	4/27/2015 02:28
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/27/2015 02:28
Chlorobenzene	U		0.19	1.0	µg/L	1	4/27/2015 02:28
Chloroethane	U		0.21	5.0	µg/L	1	4/27/2015 02:28
Chloroform	U		0.25	1.0	µg/L	1	4/27/2015 02:28
Chloromethane	U		0.25	5.0	µg/L	1	4/27/2015 02:28
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/27/2015 02:28
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/27/2015 02:28
Cyclohexane	U		0.31	1.0	µg/L	1	4/27/2015 02:28
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/27/2015 02:28
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/27/2015 02:28
Ethylbenzene	U		0.22	1.0	µg/L	1	4/27/2015 02:28
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/27/2015 02:28
Methyl acetate	U		0.62	10	µg/L	1	4/27/2015 02:28
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/27/2015 02:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-035
Collection Date: 4/14/2015 11:00 AM

Work Order: 1504937
Lab ID: 1504937-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/27/2015 02:28
Methylene chloride	U		0.64	5.0	µg/L	1	4/27/2015 02:28
Styrene	U		0.18	1.0	µg/L	1	4/27/2015 02:28
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/27/2015 02:28
Toluene	U		0.20	1.0	µg/L	1	4/27/2015 02:28
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/27/2015 02:28
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/27/2015 02:28
Trichloroethene	37		0.34	1.0	µg/L	1	4/27/2015 02:28
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/27/2015 02:28
Vinyl chloride	U		0.19	1.0	µg/L	1	4/27/2015 02:28
Xylenes, Total	U		0.62	3.0	µg/L	1	4/27/2015 02:28
Surr: 1,2-Dichloroethane-d4	94.1			75-120	%REC	1	4/27/2015 02:28
Surr: 4-Bromofluorobenzene	97.0			80-110	%REC	1	4/27/2015 02:28
Surr: Dibromofluoromethane	107			85-115	%REC	1	4/27/2015 02:28
Surr: Toluene-d8	96.0			85-110	%REC	1	4/27/2015 02:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-036
Collection Date: 4/14/2015 11:37 AM

Work Order: 1504937
Lab ID: 1504937-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R162128</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/27/2015 02:02
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/27/2015 02:02
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/27/2015 02:02
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/27/2015 02:02
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/27/2015 02:02
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/27/2015 02:02
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/27/2015 02:02
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/27/2015 02:02
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/27/2015 02:02
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/27/2015 02:02
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/27/2015 02:02
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/27/2015 02:02
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/27/2015 02:02
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/27/2015 02:02
2-Butanone	U		0.87	25	µg/L	1	4/27/2015 02:02
2-Hexanone	U		0.15	50	µg/L	1	4/27/2015 02:02
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/27/2015 02:02
Acetone	U		3.1	50	µg/L	1	4/27/2015 02:02
Benzene	U		0.25	1.0	µg/L	1	4/27/2015 02:02
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/27/2015 02:02
Bromoform	U		0.099	1.0	µg/L	1	4/27/2015 02:02
Bromomethane	U		1.0	5.0	µg/L	1	4/27/2015 02:02
Carbon disulfide	U		0.26	5.0	µg/L	1	4/27/2015 02:02
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/27/2015 02:02
Chlorobenzene	U		0.19	1.0	µg/L	1	4/27/2015 02:02
Chloroethane	U		0.21	5.0	µg/L	1	4/27/2015 02:02
Chloroform	U		0.25	1.0	µg/L	1	4/27/2015 02:02
Chloromethane	U		0.25	5.0	µg/L	1	4/27/2015 02:02
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/27/2015 02:02
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/27/2015 02:02
Cyclohexane	U		0.31	1.0	µg/L	1	4/27/2015 02:02
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/27/2015 02:02
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/27/2015 02:02
Ethylbenzene	U		0.22	1.0	µg/L	1	4/27/2015 02:02
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/27/2015 02:02
Methyl acetate	U		0.62	10	µg/L	1	4/27/2015 02:02
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/27/2015 02:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-036
Collection Date: 4/14/2015 11:37 AM

Work Order: 1504937
Lab ID: 1504937-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/27/2015 02:02
Methylene chloride	U		0.64	5.0	µg/L	1	4/27/2015 02:02
Styrene	U		0.18	1.0	µg/L	1	4/27/2015 02:02
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/27/2015 02:02
Toluene	U		0.20	1.0	µg/L	1	4/27/2015 02:02
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/27/2015 02:02
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/27/2015 02:02
Trichloroethene	6.4		0.34	1.0	µg/L	1	4/27/2015 02:02
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/27/2015 02:02
Vinyl chloride	U		0.19	1.0	µg/L	1	4/27/2015 02:02
Xylenes, Total	U		0.62	3.0	µg/L	1	4/27/2015 02:02
Surr: 1,2-Dichloroethane-d4	97.2			75-120	%REC	1	4/27/2015 02:02
Surr: 4-Bromofluorobenzene	96.2			80-110	%REC	1	4/27/2015 02:02
Surr: Dibromofluoromethane	98.9			85-115	%REC	1	4/27/2015 02:02
Surr: Toluene-d8	97.6			85-110	%REC	1	4/27/2015 02:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-037
Collection Date: 4/14/2015 11:55 AM

Work Order: 1504937
Lab ID: 1504937-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R162045</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 02:24
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 02:24
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 02:24
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 02:24
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 02:24
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 02:24
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 02:24
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 02:24
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 02:24
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 02:24
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 02:24
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 02:24
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 02:24
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 02:24
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 02:24
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 02:24
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 02:24
Acetone	U		3.1	50	µg/L	1	4/25/2015 02:24
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 02:24
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 02:24
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 02:24
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 02:24
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 02:24
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 02:24
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 02:24
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 02:24
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 02:24
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 02:24
cis-1,2-Dichloroethene	0.79	J	0.25	1.0	µg/L	1	4/25/2015 02:24
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 02:24
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 02:24
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 02:24
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 02:24
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 02:24
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 02:24
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 02:24
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 02:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-037
Collection Date: 4/14/2015 11:55 AM

Work Order: 1504937
Lab ID: 1504937-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 02:24
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 02:24
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 02:24
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/25/2015 02:24
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 02:24
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 02:24
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 02:24
Trichloroethene	6.8		0.34	1.0	µg/L	1	4/25/2015 02:24
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 02:24
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 02:24
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 02:24
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	4/25/2015 02:24
Surr: 4-Bromofluorobenzene	98.6			80-110	%REC	1	4/25/2015 02:24
Surr: Dibromofluoromethane	98.8			85-115	%REC	1	4/25/2015 02:24
Surr: Toluene-d8	99.4			85-110	%REC	1	4/25/2015 02:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-038
Collection Date: 4/14/2015 12:32 PM

Work Order: 1504937
Lab ID: 1504937-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
BatchID: <u>R162045</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 02:50
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 02:50
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 02:50
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 02:50
1,1-Dichloroethane	0.94	J	0.21	1.0	µg/L	1	4/25/2015 02:50
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 02:50
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 02:50
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 02:50
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 02:50
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 02:50
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 02:50
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 02:50
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 02:50
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 02:50
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 02:50
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 02:50
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 02:50
Acetone	U		3.1	50	µg/L	1	4/25/2015 02:50
Benzene	0.43	J	0.25	1.0	µg/L	1	4/25/2015 02:50
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 02:50
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 02:50
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 02:50
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 02:50
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 02:50
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 02:50
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 02:50
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 02:50
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 02:50
cis-1,2-Dichloroethene	6.7		0.25	1.0	µg/L	1	4/25/2015 02:50
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 02:50
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 02:50
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 02:50
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 02:50
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 02:50
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 02:50
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 02:50
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 02:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-038
Collection Date: 4/14/2015 12:32 PM

Work Order: 1504937
Lab ID: 1504937-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 02:50
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 02:50
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 02:50
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/25/2015 02:50
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 02:50
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 02:50
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 02:50
Trichloroethene	U		0.34	1.0	µg/L	1	4/25/2015 02:50
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 02:50
Vinyl chloride	11		0.19	1.0	µg/L	1	4/25/2015 02:50
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 02:50
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	4/25/2015 02:50
Surr: 4-Bromofluorobenzene	98.8			80-110	%REC	1	4/25/2015 02:50
Surr: Dibromofluoromethane	100			85-115	%REC	1	4/25/2015 02:50
Surr: Toluene-d8	97.8			85-110	%REC	1	4/25/2015 02:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-039
Collection Date: 4/14/2015 01:27 PM

Work Order: 1504937
Lab ID: 1504937-13
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R162045</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 03:14
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 03:14
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 03:14
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 03:14
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 03:14
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 03:14
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 03:14
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 03:14
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 03:14
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 03:14
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 03:14
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 03:14
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 03:14
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 03:14
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 03:14
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 03:14
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 03:14
Acetone	U		3.1	50	µg/L	1	4/25/2015 03:14
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 03:14
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 03:14
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 03:14
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 03:14
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 03:14
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 03:14
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 03:14
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 03:14
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 03:14
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 03:14
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/25/2015 03:14
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 03:14
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 03:14
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 03:14
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 03:14
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 03:14
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 03:14
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 03:14
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 03:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-039
Collection Date: 4/14/2015 01:27 PM

Work Order: 1504937
Lab ID: 1504937-13
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 03:14
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 03:14
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 03:14
Tetrachloroethene	3.8		0.25	1.0	µg/L	1	4/25/2015 03:14
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 03:14
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 03:14
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 03:14
Trichloroethene	0.88	J	0.34	1.0	µg/L	1	4/25/2015 03:14
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 03:14
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 03:14
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 03:14
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	4/25/2015 03:14
Surr: 4-Bromofluorobenzene	98.6			80-110	%REC	1	4/25/2015 03:14
Surr: Dibromofluoromethane	97.2			85-115	%REC	1	4/25/2015 03:14
Surr: Toluene-d8	99.4			85-110	%REC	1	4/25/2015 03:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-040
Collection Date: 4/14/2015 02:14 PM

Work Order: 1504937
Lab ID: 1504937-14
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R162045</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 03:39
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 03:39
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 03:39
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 03:39
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 03:39
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 03:39
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 03:39
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 03:39
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 03:39
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 03:39
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 03:39
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 03:39
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 03:39
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 03:39
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 03:39
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 03:39
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 03:39
Acetone	U		3.1	50	µg/L	1	4/25/2015 03:39
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 03:39
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 03:39
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 03:39
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 03:39
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 03:39
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 03:39
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 03:39
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 03:39
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 03:39
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 03:39
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/25/2015 03:39
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 03:39
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 03:39
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 03:39
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 03:39
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 03:39
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 03:39
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 03:39
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 03:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-040
Collection Date: 4/14/2015 02:14 PM

Work Order: 1504937
Lab ID: 1504937-14
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 03:39
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 03:39
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 03:39
Tetrachloroethene	1.4		0.25	1.0	µg/L	1	4/25/2015 03:39
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 03:39
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 03:39
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 03:39
Trichloroethene	U		0.34	1.0	µg/L	1	4/25/2015 03:39
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 03:39
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 03:39
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 03:39
Surr: 1,2-Dichloroethane-d4	99.6			75-120	%REC	1	4/25/2015 03:39
Surr: 4-Bromofluorobenzene	97.6			80-110	%REC	1	4/25/2015 03:39
Surr: Dibromofluoromethane	98.6			85-115	%REC	1	4/25/2015 03:39
Surr: Toluene-d8	99.2			85-110	%REC	1	4/25/2015 03:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-041
Collection Date: 4/14/2015 03:17 PM

Work Order: 1504937
Lab ID: 1504937-15
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7470		Prep: SW7470 / 4/21/15		Analyst: LR
<u>BatchID: 70095</u>							
Mercury	U		0.000018	0.00020	mg/L	1	4/21/2015 20:55
METALS BY ICP-MS			SW6020A		Prep: SW3005A / 4/21/15		Analyst: RH
<u>BatchID: 70081</u>							
Antimony	U		0.00011	0.0050	mg/L	1	4/22/2015 02:11
Arsenic	U		0.00056	0.0050	mg/L	1	4/22/2015 02:11
Barium	0.021		0.00030	0.0050	mg/L	1	4/22/2015 02:11
Beryllium	U		0.00017	0.0020	mg/L	1	4/22/2015 02:11
Cadmium	U		0.000026	0.0020	mg/L	1	4/22/2015 02:11
Chromium	0.0041	J	0.00013	0.0050	mg/L	1	4/22/2015 02:11
Cobalt	0.0012	J	0.00010	0.0050	mg/L	1	4/22/2015 02:11
Copper	0.0047	J	0.00017	0.0050	mg/L	1	4/22/2015 02:11
Lead	0.00061	J	0.00030	0.0050	mg/L	1	4/22/2015 02:11
Manganese	0.0054		0.00016	0.0050	mg/L	1	4/22/2015 02:11
Molybdenum	0.0048	J	0.00040	0.0050	mg/L	1	4/22/2015 02:11
Nickel	0.0023	J	0.00031	0.0050	mg/L	1	4/22/2015 02:11
Selenium	0.0020	J	0.00075	0.0050	mg/L	1	4/22/2015 02:11
Silver	U		0.000020	0.0050	mg/L	1	4/22/2015 02:11
Thallium	U		0.00048	0.0050	mg/L	1	4/22/2015 02:11
Vanadium	0.00065	J	0.00046	0.0050	mg/L	1	4/22/2015 02:11
Zinc	0.0045	J	0.0029	0.010	mg/L	1	4/22/2015 02:11
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R162045</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 04:04
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 04:04
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 04:04
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 04:04
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 04:04
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 04:04
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 04:04
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 04:04
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 04:04
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 04:04
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 04:04
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 04:04
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 04:04
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 04:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-041
Collection Date: 4/14/2015 03:17 PM

Work Order: 1504937
Lab ID: 1504937-15
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 04:04
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 04:04
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 04:04
Acetone	U		3.1	50	µg/L	1	4/25/2015 04:04
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 04:04
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 04:04
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 04:04
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 04:04
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 04:04
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 04:04
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 04:04
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 04:04
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 04:04
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 04:04
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/25/2015 04:04
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 04:04
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 04:04
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 04:04
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 04:04
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 04:04
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 04:04
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 04:04
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 04:04
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 04:04
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 04:04
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 04:04
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/25/2015 04:04
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 04:04
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 04:04
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 04:04
Trichloroethene	U		0.34	1.0	µg/L	1	4/25/2015 04:04
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 04:04
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 04:04
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 04:04
Surr: 1,2-Dichloroethane-d4	99.4			75-120	%REC	1	4/25/2015 04:04
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	4/25/2015 04:04
Surr: Dibromofluoromethane	97.0			85-115	%REC	1	4/25/2015 04:04
Surr: Toluene-d8	99.0			85-110	%REC	1	4/25/2015 04:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-042
Collection Date: 4/14/2015 04:32 PM

Work Order: 1504937
Lab ID: 1504937-16
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
BatchID: <u>R162045</u>							
1,1,1-Trichloroethane	2.0		0.19	1.0	µg/L	1	4/25/2015 04:29
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 04:29
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 04:29
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 04:29
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 04:29
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 04:29
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 04:29
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 04:29
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 04:29
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 04:29
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 04:29
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 04:29
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 04:29
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 04:29
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 04:29
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 04:29
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 04:29
Acetone	U		3.1	50	µg/L	1	4/25/2015 04:29
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 04:29
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 04:29
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 04:29
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 04:29
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 04:29
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 04:29
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 04:29
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 04:29
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 04:29
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 04:29
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/25/2015 04:29
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 04:29
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 04:29
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 04:29
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 04:29
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 04:29
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 04:29
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 04:29
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 04:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041415-MR-042
Collection Date: 4/14/2015 04:32 PM

Work Order: 1504937
Lab ID: 1504937-16
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 04:29
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 04:29
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 04:29
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/25/2015 04:29
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 04:29
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 04:29
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 04:29
Trichloroethene	U		0.34	1.0	µg/L	1	4/25/2015 04:29
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 04:29
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 04:29
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 04:29
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	4/25/2015 04:29
Surr: 4-Bromofluorobenzene	98.7			80-110	%REC	1	4/25/2015 04:29
Surr: Dibromofluoromethane	98.8			85-115	%REC	1	4/25/2015 04:29
Surr: Toluene-d8	99.9			85-110	%REC	1	4/25/2015 04:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-043
Collection Date: 4/15/2015 10:32 AM

Work Order: 1504937
Lab ID: 1504937-17
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D	Prep: SW3510 / 4/21/15		Analyst: RS	
BatchID: 70065							
1,1`-Biphenyl	U		0.22	5.0	µg/L	1	4/21/2015 21:32
2,4,5-Trichlorophenol	U		0.29	5.0	µg/L	1	4/21/2015 21:32
2,4,6-Trichlorophenol	U		0.25	5.0	µg/L	1	4/21/2015 21:32
2,4-Dichlorophenol	U		0.17	5.0	µg/L	1	4/21/2015 21:32
2,4-Dimethylphenol	1.3	J	0.18	5.0	µg/L	1	4/21/2015 21:32
2,4-Dinitrophenol	U		1.5	5.0	µg/L	1	4/21/2015 21:32
2,4-Dinitrotoluene	U		0.14	5.0	µg/L	1	4/21/2015 21:32
2,6-Dinitrotoluene	U		0.20	5.0	µg/L	1	4/21/2015 21:32
2-Chloronaphthalene	U		0.030	5.0	µg/L	1	4/21/2015 21:32
2-Chlorophenol	U		0.29	5.0	µg/L	1	4/21/2015 21:32
2-Methylnaphthalene	U		0.099	5.0	µg/L	1	4/21/2015 21:32
2-Methylphenol	U		0.14	5.0	µg/L	1	4/21/2015 21:32
2-Nitroaniline	U		0.24	5.0	µg/L	1	4/21/2015 21:32
2-Nitrophenol	U		0.27	5.0	µg/L	1	4/21/2015 21:32
3&4-Methylphenol	U		0.24	5.0	µg/L	1	4/21/2015 21:32
3,3`-Dichlorobenzidine	U		0.70	5.0	µg/L	1	4/21/2015 21:32
3-Nitroaniline	U		0.24	5.0	µg/L	1	4/21/2015 21:32
4,6-Dinitro-2-methylphenol	U		0.12	5.0	µg/L	1	4/21/2015 21:32
4-Bromophenyl phenyl ether	U		0.29	5.0	µg/L	1	4/21/2015 21:32
4-Chloro-3-methylphenol	U		0.16	5.0	µg/L	1	4/21/2015 21:32
4-Chloroaniline	U		0.22	5.0	µg/L	1	4/21/2015 21:32
4-Chlorophenyl phenyl ether	U		0.20	5.0	µg/L	1	4/21/2015 21:32
4-Nitroaniline	3.2	J	0.13	5.0	µg/L	1	4/21/2015 21:32
4-Nitrophenol	U		0.62	5.0	µg/L	1	4/21/2015 21:32
Acenaphthene	U		0.041	5.0	µg/L	1	4/21/2015 21:32
Acenaphthylene	U		0.039	5.0	µg/L	1	4/21/2015 21:32
Acetophenone	U		0.37	1.0	µg/L	1	4/21/2015 21:32
Anthracene	U		0.028	5.0	µg/L	1	4/21/2015 21:32
Atrazine	U		0.16	1.0	µg/L	1	4/21/2015 21:32
Benzaldehyde	U		0.25	1.0	µg/L	1	4/21/2015 21:32
Benzo(a)anthracene	U		0.072	5.0	µg/L	1	4/21/2015 21:32
Benzo(a)pyrene	U		0.036	5.0	µg/L	1	4/21/2015 21:32
Benzo(b)fluoranthene	U		0.043	5.0	µg/L	1	4/21/2015 21:32
Benzo(g,h,i)perylene	U		0.070	5.0	µg/L	1	4/21/2015 21:32
Benzo(k)fluoranthene	U		0.062	5.0	µg/L	1	4/21/2015 21:32
Bis(2-chloroethoxy)methane	U		0.23	5.0	µg/L	1	4/21/2015 21:32
Bis(2-chloroethyl)ether	U		0.16	5.0	µg/L	1	4/21/2015 21:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-043
Collection Date: 4/15/2015 10:32 AM

Work Order: 1504937
Lab ID: 1504937-17
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.19	5.0	µg/L	1	4/21/2015 21:32
Bis(2-ethylhexyl)phthalate	U		0.18	5.0	µg/L	1	4/21/2015 21:32
Butyl benzyl phthalate	U		0.12	5.0	µg/L	1	4/21/2015 21:32
Caprolactam	U		0.96	10	µg/L	1	4/21/2015 21:32
Carbazole	U		0.12	5.0	µg/L	1	4/21/2015 21:32
Chrysene	U		0.042	5.0	µg/L	1	4/21/2015 21:32
Dibenzo(a,h)anthracene	U		0.074	5.0	µg/L	1	4/21/2015 21:32
Dibenzofuran	U		0.23	5.0	µg/L	1	4/21/2015 21:32
Diethyl phthalate	U		0.17	5.0	µg/L	1	4/21/2015 21:32
Dimethyl phthalate	U		0.15	5.0	µg/L	1	4/21/2015 21:32
Di-n-butyl phthalate	U		0.15	5.0	µg/L	1	4/21/2015 21:32
Di-n-octyl phthalate	U		0.15	5.0	µg/L	1	4/21/2015 21:32
Fluoranthene	U		0.047	5.0	µg/L	1	4/21/2015 21:32
Fluorene	2.0	J	0.036	5.0	µg/L	1	4/21/2015 21:32
Hexachlorobenzene	U		0.23	5.0	µg/L	1	4/21/2015 21:32
Hexachlorobutadiene	U		0.37	5.0	µg/L	1	4/21/2015 21:32
Hexachlorocyclopentadiene	U		0.18	5.0	µg/L	1	4/21/2015 21:32
Hexachloroethane	U		0.47	5.0	µg/L	1	4/21/2015 21:32
Indeno(1,2,3-cd)pyrene	U		0.064	5.0	µg/L	1	4/21/2015 21:32
Isophorone	U		0.25	5.0	µg/L	1	4/21/2015 21:32
Naphthalene	5.0	J	0.050	5.0	µg/L	1	4/21/2015 21:32
Nitrobenzene	U		0.23	5.0	µg/L	1	4/21/2015 21:32
N-Nitrosodi-n-propylamine	U		0.24	5.0	µg/L	1	4/21/2015 21:32
N-Nitrosodiphenylamine	U		0.24	5.0	µg/L	1	4/21/2015 21:32
Pentachlorophenol	U		0.52	5.0	µg/L	1	4/21/2015 21:32
Phenanthrene	U		0.054	5.0	µg/L	1	4/21/2015 21:32
Phenol	U		0.13	5.0	µg/L	1	4/21/2015 21:32
Pyrene	U		0.069	5.0	µg/L	1	4/21/2015 21:32
Surr: 2,4,6-Tribromophenol	75.6			38-115	%REC	1	4/21/2015 21:32
Surr: 2-Fluorobiphenyl	53.0			32-100	%REC	1	4/21/2015 21:32
Surr: 2-Fluorophenol	37.6			22-59	%REC	1	4/21/2015 21:32
Surr: 4-Terphenyl-d14	86.4			23-112	%REC	1	4/21/2015 21:32
Surr: Nitrobenzene-d5	66.3			31-93	%REC	1	4/21/2015 21:32
Surr: Phenol-d6	26.3			13-36	%REC	1	4/21/2015 21:32

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: BG

BatchID: R162069

1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/26/2015 21:22
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/26/2015 21:22
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/26/2015 21:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-043
Collection Date: 4/15/2015 10:32 AM

Work Order: 1504937
Lab ID: 1504937-17
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/26/2015 21:22
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/26/2015 21:22
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/26/2015 21:22
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/26/2015 21:22
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/26/2015 21:22
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/26/2015 21:22
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/26/2015 21:22
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/26/2015 21:22
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/26/2015 21:22
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/26/2015 21:22
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/26/2015 21:22
2-Butanone	U		0.87	25	µg/L	1	4/26/2015 21:22
2-Hexanone	U		0.15	50	µg/L	1	4/26/2015 21:22
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/26/2015 21:22
Acetone	9.8	J	3.1	50	µg/L	1	4/26/2015 21:22
Benzene	U		0.25	1.0	µg/L	1	4/26/2015 21:22
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/26/2015 21:22
Bromoform	U		0.099	1.0	µg/L	1	4/26/2015 21:22
Bromomethane	U		1.0	5.0	µg/L	1	4/26/2015 21:22
Carbon disulfide	U		0.26	5.0	µg/L	1	4/26/2015 21:22
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/26/2015 21:22
Chlorobenzene	U		0.19	1.0	µg/L	1	4/26/2015 21:22
Chloroethane	U		0.21	5.0	µg/L	1	4/26/2015 21:22
Chloroform	U		0.25	1.0	µg/L	1	4/26/2015 21:22
Chloromethane	U		0.25	5.0	µg/L	1	4/26/2015 21:22
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/26/2015 21:22
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/26/2015 21:22
Cyclohexane	U		0.31	1.0	µg/L	1	4/26/2015 21:22
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/26/2015 21:22
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/26/2015 21:22
Ethylbenzene	1.7		0.22	1.0	µg/L	1	4/26/2015 21:22
Isopropylbenzene	2.3	J	0.25	5.0	µg/L	1	4/26/2015 21:22
Methyl acetate	U		0.62	10	µg/L	1	4/26/2015 21:22
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/26/2015 21:22
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/26/2015 21:22
Methylene chloride	U		0.64	5.0	µg/L	1	4/26/2015 21:22
Styrene	U		0.18	1.0	µg/L	1	4/26/2015 21:22
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/26/2015 21:22
Toluene	U		0.20	1.0	µg/L	1	4/26/2015 21:22
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/26/2015 21:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-043
Collection Date: 4/15/2015 10:32 AM

Work Order: 1504937
Lab ID: 1504937-17
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/26/2015 21:22
Trichloroethene	U		0.34	1.0	µg/L	1	4/26/2015 21:22
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/26/2015 21:22
Vinyl chloride	U		0.19	1.0	µg/L	1	4/26/2015 21:22
Xylenes, Total	1.8	J	0.62	3.0	µg/L	1	4/26/2015 21:22
Surr: 1,2-Dichloroethane-d4	95.7			75-120	%REC	1	4/26/2015 21:22
Surr: 4-Bromofluorobenzene	97.7			80-110	%REC	1	4/26/2015 21:22
Surr: Dibromofluoromethane	103			85-115	%REC	1	4/26/2015 21:22
Surr: Toluene-d8	94.4			85-110	%REC	1	4/26/2015 21:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-044
Collection Date: 4/15/2015 11:31 AM

Work Order: 1504937
Lab ID: 1504937-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3510 / 4/21/15	Analyst: RS	
<u>BatchID: 70065</u>							
1,1'-Biphenyl	U		0.22	5.0	µg/L	1	4/22/2015 02:25
2,4,5-Trichlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 02:25
2,4,6-Trichlorophenol	U		0.25	5.0	µg/L	1	4/22/2015 02:25
2,4-Dichlorophenol	U		0.17	5.0	µg/L	1	4/22/2015 02:25
2,4-Dimethylphenol	U		0.18	5.0	µg/L	1	4/22/2015 02:25
2,4-Dinitrophenol	U		1.5	5.0	µg/L	1	4/22/2015 02:25
2,4-Dinitrotoluene	U		0.14	5.0	µg/L	1	4/22/2015 02:25
2,6-Dinitrotoluene	U		0.20	5.0	µg/L	1	4/22/2015 02:25
2-Chloronaphthalene	U		0.030	5.0	µg/L	1	4/22/2015 02:25
2-Chlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 02:25
2-Methylnaphthalene	U		0.099	5.0	µg/L	1	4/22/2015 02:25
2-Methylphenol	U		0.14	5.0	µg/L	1	4/22/2015 02:25
2-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 02:25
2-Nitrophenol	U		0.27	5.0	µg/L	1	4/22/2015 02:25
3&4-Methylphenol	U		0.24	5.0	µg/L	1	4/22/2015 02:25
3,3'-Dichlorobenzidine	U		0.70	5.0	µg/L	1	4/22/2015 02:25
3-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 02:25
4,6-Dinitro-2-methylphenol	U		0.12	5.0	µg/L	1	4/22/2015 02:25
4-Bromophenyl phenyl ether	U		0.29	5.0	µg/L	1	4/22/2015 02:25
4-Chloro-3-methylphenol	U		0.16	5.0	µg/L	1	4/22/2015 02:25
4-Chloroaniline	U		0.22	5.0	µg/L	1	4/22/2015 02:25
4-Chlorophenyl phenyl ether	U		0.20	5.0	µg/L	1	4/22/2015 02:25
4-Nitroaniline	U		0.13	5.0	µg/L	1	4/22/2015 02:25
4-Nitrophenol	U		0.62	5.0	µg/L	1	4/22/2015 02:25
Acenaphthene	U		0.041	5.0	µg/L	1	4/22/2015 02:25
Acenaphthylene	U		0.039	5.0	µg/L	1	4/22/2015 02:25
Acetophenone	U		0.37	1.0	µg/L	1	4/22/2015 02:25
Anthracene	U		0.028	5.0	µg/L	1	4/22/2015 02:25
Atrazine	U		0.16	1.0	µg/L	1	4/22/2015 02:25
Benzaldehyde	U		0.25	1.0	µg/L	1	4/22/2015 02:25
Benzo(a)anthracene	U		0.072	5.0	µg/L	1	4/22/2015 02:25
Benzo(a)pyrene	U		0.036	5.0	µg/L	1	4/22/2015 02:25
Benzo(b)fluoranthene	U		0.043	5.0	µg/L	1	4/22/2015 02:25
Benzo(g,h,i)perylene	U		0.070	5.0	µg/L	1	4/22/2015 02:25
Benzo(k)fluoranthene	U		0.062	5.0	µg/L	1	4/22/2015 02:25
Bis(2-chloroethoxy)methane	U		0.23	5.0	µg/L	1	4/22/2015 02:25
Bis(2-chloroethyl)ether	U		0.16	5.0	µg/L	1	4/22/2015 02:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-044
Collection Date: 4/15/2015 11:31 AM

Work Order: 1504937
Lab ID: 1504937-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.19	5.0	µg/L	1	4/22/2015 02:25
Bis(2-ethylhexyl)phthalate	U		0.18	5.0	µg/L	1	4/22/2015 02:25
Butyl benzyl phthalate	U		0.12	5.0	µg/L	1	4/22/2015 02:25
Caprolactam	U		0.96	10	µg/L	1	4/22/2015 02:25
Carbazole	U		0.12	5.0	µg/L	1	4/22/2015 02:25
Chrysene	U		0.042	5.0	µg/L	1	4/22/2015 02:25
Dibenzo(a,h)anthracene	U		0.074	5.0	µg/L	1	4/22/2015 02:25
Dibenzofuran	U		0.23	5.0	µg/L	1	4/22/2015 02:25
Diethyl phthalate	U		0.17	5.0	µg/L	1	4/22/2015 02:25
Dimethyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 02:25
Di-n-butyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 02:25
Di-n-octyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 02:25
Fluoranthene	U		0.047	5.0	µg/L	1	4/22/2015 02:25
Fluorene	U		0.036	5.0	µg/L	1	4/22/2015 02:25
Hexachlorobenzene	U		0.23	5.0	µg/L	1	4/22/2015 02:25
Hexachlorobutadiene	U		0.37	5.0	µg/L	1	4/22/2015 02:25
Hexachlorocyclopentadiene	U		0.18	5.0	µg/L	1	4/22/2015 02:25
Hexachloroethane	U		0.47	5.0	µg/L	1	4/22/2015 02:25
Indeno(1,2,3-cd)pyrene	U		0.064	5.0	µg/L	1	4/22/2015 02:25
Isophorone	U		0.25	5.0	µg/L	1	4/22/2015 02:25
Naphthalene	U		0.050	5.0	µg/L	1	4/22/2015 02:25
Nitrobenzene	U		0.23	5.0	µg/L	1	4/22/2015 02:25
N-Nitrosodi-n-propylamine	U		0.24	5.0	µg/L	1	4/22/2015 02:25
N-Nitrosodiphenylamine	U		0.24	5.0	µg/L	1	4/22/2015 02:25
Pentachlorophenol	U		0.52	5.0	µg/L	1	4/22/2015 02:25
Phenanthrene	U		0.054	5.0	µg/L	1	4/22/2015 02:25
Phenol	U		0.13	5.0	µg/L	1	4/22/2015 02:25
Pyrene	U		0.069	5.0	µg/L	1	4/22/2015 02:25
Surr: 2,4,6-Tribromophenol	72.7			38-115	%REC	1	4/22/2015 02:25
Surr: 2-Fluorobiphenyl	40.6			32-100	%REC	1	4/22/2015 02:25
Surr: 2-Fluorophenol	29.4			22-59	%REC	1	4/22/2015 02:25
Surr: 4-Terphenyl-d14	78.5			23-112	%REC	1	4/22/2015 02:25
Surr: Nitrobenzene-d5	47.2			31-93	%REC	1	4/22/2015 02:25
Surr: Phenol-d6	18.3			13-36	%REC	1	4/22/2015 02:25

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: AK

BatchID: R162045

1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 04:53
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 04:53
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 04:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-044
Collection Date: 4/15/2015 11:31 AM

Work Order: 1504937
Lab ID: 1504937-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 04:53
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 04:53
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 04:53
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 04:53
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 04:53
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 04:53
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 04:53
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 04:53
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 04:53
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 04:53
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 04:53
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 04:53
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 04:53
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 04:53
Acetone	U		3.1	50	µg/L	1	4/25/2015 04:53
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 04:53
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 04:53
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 04:53
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 04:53
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 04:53
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 04:53
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 04:53
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 04:53
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 04:53
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 04:53
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/25/2015 04:53
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 04:53
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 04:53
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 04:53
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 04:53
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 04:53
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 04:53
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 04:53
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 04:53
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 04:53
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 04:53
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 04:53
Tetrachloroethene	4.1		0.25	1.0	µg/L	1	4/25/2015 04:53
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 04:53
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 04:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-044
Collection Date: 4/15/2015 11:31 AM

Work Order: 1504937
Lab ID: 1504937-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 04:53
Trichloroethene	1.1		0.34	1.0	µg/L	1	4/25/2015 04:53
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 04:53
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 04:53
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 04:53
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	4/25/2015 04:53
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	4/25/2015 04:53
Surr: Dibromofluoromethane	99.0			85-115	%REC	1	4/25/2015 04:53
Surr: Toluene-d8	98.6			85-110	%REC	1	4/25/2015 04:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-045
Collection Date: 4/15/2015 11:55 AM

Work Order: 1504937
Lab ID: 1504937-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3510 / 4/21/15	Analyst: RS	
<u>BatchID: 70065</u>							
1,1'-Biphenyl	U		0.22	5.0	µg/L	1	4/22/2015 02:48
2,4,5-Trichlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 02:48
2,4,6-Trichlorophenol	U		0.25	5.0	µg/L	1	4/22/2015 02:48
2,4-Dichlorophenol	U		0.17	5.0	µg/L	1	4/22/2015 02:48
2,4-Dimethylphenol	U		0.18	5.0	µg/L	1	4/22/2015 02:48
2,4-Dinitrophenol	U		1.5	5.0	µg/L	1	4/22/2015 02:48
2,4-Dinitrotoluene	U		0.14	5.0	µg/L	1	4/22/2015 02:48
2,6-Dinitrotoluene	U		0.20	5.0	µg/L	1	4/22/2015 02:48
2-Chloronaphthalene	U		0.030	5.0	µg/L	1	4/22/2015 02:48
2-Chlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 02:48
2-Methylnaphthalene	U		0.099	5.0	µg/L	1	4/22/2015 02:48
2-Methylphenol	U		0.14	5.0	µg/L	1	4/22/2015 02:48
2-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 02:48
2-Nitrophenol	U		0.27	5.0	µg/L	1	4/22/2015 02:48
3&4-Methylphenol	U		0.24	5.0	µg/L	1	4/22/2015 02:48
3,3'-Dichlorobenzidine	U		0.70	5.0	µg/L	1	4/22/2015 02:48
3-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 02:48
4,6-Dinitro-2-methylphenol	U		0.12	5.0	µg/L	1	4/22/2015 02:48
4-Bromophenyl phenyl ether	U		0.29	5.0	µg/L	1	4/22/2015 02:48
4-Chloro-3-methylphenol	U		0.16	5.0	µg/L	1	4/22/2015 02:48
4-Chloroaniline	U		0.22	5.0	µg/L	1	4/22/2015 02:48
4-Chlorophenyl phenyl ether	U		0.20	5.0	µg/L	1	4/22/2015 02:48
4-Nitroaniline	U		0.13	5.0	µg/L	1	4/22/2015 02:48
4-Nitrophenol	U		0.62	5.0	µg/L	1	4/22/2015 02:48
Acenaphthene	U		0.041	5.0	µg/L	1	4/22/2015 02:48
Acenaphthylene	U		0.039	5.0	µg/L	1	4/22/2015 02:48
Acetophenone	U		0.37	1.0	µg/L	1	4/22/2015 02:48
Anthracene	U		0.028	5.0	µg/L	1	4/22/2015 02:48
Atrazine	U		0.16	1.0	µg/L	1	4/22/2015 02:48
Benzaldehyde	U		0.25	1.0	µg/L	1	4/22/2015 02:48
Benzo(a)anthracene	U		0.072	5.0	µg/L	1	4/22/2015 02:48
Benzo(a)pyrene	U		0.036	5.0	µg/L	1	4/22/2015 02:48
Benzo(b)fluoranthene	U		0.043	5.0	µg/L	1	4/22/2015 02:48
Benzo(g,h,i)perylene	U		0.070	5.0	µg/L	1	4/22/2015 02:48
Benzo(k)fluoranthene	U		0.062	5.0	µg/L	1	4/22/2015 02:48
Bis(2-chloroethoxy)methane	U		0.23	5.0	µg/L	1	4/22/2015 02:48
Bis(2-chloroethyl)ether	U		0.16	5.0	µg/L	1	4/22/2015 02:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-045
Collection Date: 4/15/2015 11:55 AM

Work Order: 1504937
Lab ID: 1504937-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.19	5.0	µg/L	1	4/22/2015 02:48
Bis(2-ethylhexyl)phthalate	U		0.18	5.0	µg/L	1	4/22/2015 02:48
Butyl benzyl phthalate	U		0.12	5.0	µg/L	1	4/22/2015 02:48
Caprolactam	U		0.96	10	µg/L	1	4/22/2015 02:48
Carbazole	U		0.12	5.0	µg/L	1	4/22/2015 02:48
Chrysene	U		0.042	5.0	µg/L	1	4/22/2015 02:48
Dibenzo(a,h)anthracene	U		0.074	5.0	µg/L	1	4/22/2015 02:48
Dibenzofuran	U		0.23	5.0	µg/L	1	4/22/2015 02:48
Diethyl phthalate	U		0.17	5.0	µg/L	1	4/22/2015 02:48
Dimethyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 02:48
Di-n-butyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 02:48
Di-n-octyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 02:48
Fluoranthene	U		0.047	5.0	µg/L	1	4/22/2015 02:48
Fluorene	U		0.036	5.0	µg/L	1	4/22/2015 02:48
Hexachlorobenzene	U		0.23	5.0	µg/L	1	4/22/2015 02:48
Hexachlorobutadiene	U		0.37	5.0	µg/L	1	4/22/2015 02:48
Hexachlorocyclopentadiene	U		0.18	5.0	µg/L	1	4/22/2015 02:48
Hexachloroethane	U		0.47	5.0	µg/L	1	4/22/2015 02:48
Indeno(1,2,3-cd)pyrene	U		0.064	5.0	µg/L	1	4/22/2015 02:48
Isophorone	U		0.25	5.0	µg/L	1	4/22/2015 02:48
Naphthalene	U		0.050	5.0	µg/L	1	4/22/2015 02:48
Nitrobenzene	U		0.23	5.0	µg/L	1	4/22/2015 02:48
N-Nitrosodi-n-propylamine	U		0.24	5.0	µg/L	1	4/22/2015 02:48
N-Nitrosodiphenylamine	U		0.24	5.0	µg/L	1	4/22/2015 02:48
Pentachlorophenol	U		0.52	5.0	µg/L	1	4/22/2015 02:48
Phenanthrene	U		0.054	5.0	µg/L	1	4/22/2015 02:48
Phenol	U		0.13	5.0	µg/L	1	4/22/2015 02:48
Pyrene	U		0.069	5.0	µg/L	1	4/22/2015 02:48
Surr: 2,4,6-Tribromophenol	68.7			38-115	%REC	1	4/22/2015 02:48
Surr: 2-Fluorobiphenyl	44.9			32-100	%REC	1	4/22/2015 02:48
Surr: 2-Fluorophenol	28.4			22-59	%REC	1	4/22/2015 02:48
Surr: 4-Terphenyl-d14	78.5			23-112	%REC	1	4/22/2015 02:48
Surr: Nitrobenzene-d5	52.4			31-93	%REC	1	4/22/2015 02:48
Surr: Phenol-d6	17.7			13-36	%REC	1	4/22/2015 02:48

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: AK

BatchID: R162045

1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 05:18
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 05:18
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 05:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-045
Collection Date: 4/15/2015 11:55 AM

Work Order: 1504937
Lab ID: 1504937-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 05:18
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 05:18
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 05:18
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 05:18
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 05:18
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 05:18
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 05:18
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 05:18
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 05:18
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 05:18
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 05:18
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 05:18
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 05:18
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 05:18
Acetone	U		3.1	50	µg/L	1	4/25/2015 05:18
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 05:18
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 05:18
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 05:18
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 05:18
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 05:18
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 05:18
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 05:18
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 05:18
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 05:18
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 05:18
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/25/2015 05:18
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 05:18
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 05:18
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 05:18
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 05:18
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 05:18
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 05:18
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 05:18
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 05:18
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 05:18
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 05:18
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 05:18
Tetrachloroethene	3.8		0.25	1.0	µg/L	1	4/25/2015 05:18
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 05:18
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 05:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-045
Collection Date: 4/15/2015 11:55 AM

Work Order: 1504937
Lab ID: 1504937-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 05:18
Trichloroethene	1.1		0.34	1.0	µg/L	1	4/25/2015 05:18
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 05:18
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 05:18
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 05:18
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	4/25/2015 05:18
Surr: 4-Bromofluorobenzene	99.6			80-110	%REC	1	4/25/2015 05:18
Surr: Dibromofluoromethane	99.1			85-115	%REC	1	4/25/2015 05:18
Surr: Toluene-d8	98.6			85-110	%REC	1	4/25/2015 05:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-046
Collection Date: 4/15/2015 12:28 PM

Work Order: 1504937
Lab ID: 1504937-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3510 / 4/21/15	Analyst: RS	
<u>BatchID: 70065</u>							
1,1'-Biphenyl	U		0.22	5.0	µg/L	1	4/22/2015 03:11
2,4,5-Trichlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 03:11
2,4,6-Trichlorophenol	U		0.25	5.0	µg/L	1	4/22/2015 03:11
2,4-Dichlorophenol	U		0.17	5.0	µg/L	1	4/22/2015 03:11
2,4-Dimethylphenol	U		0.18	5.0	µg/L	1	4/22/2015 03:11
2,4-Dinitrophenol	U		1.5	5.0	µg/L	1	4/22/2015 03:11
2,4-Dinitrotoluene	U		0.14	5.0	µg/L	1	4/22/2015 03:11
2,6-Dinitrotoluene	U		0.20	5.0	µg/L	1	4/22/2015 03:11
2-Chloronaphthalene	U		0.030	5.0	µg/L	1	4/22/2015 03:11
2-Chlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 03:11
2-Methylnaphthalene	U		0.099	5.0	µg/L	1	4/22/2015 03:11
2-Methylphenol	U		0.14	5.0	µg/L	1	4/22/2015 03:11
2-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 03:11
2-Nitrophenol	U		0.27	5.0	µg/L	1	4/22/2015 03:11
3&4-Methylphenol	U		0.24	5.0	µg/L	1	4/22/2015 03:11
3,3'-Dichlorobenzidine	U		0.70	5.0	µg/L	1	4/22/2015 03:11
3-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 03:11
4,6-Dinitro-2-methylphenol	U		0.12	5.0	µg/L	1	4/22/2015 03:11
4-Bromophenyl phenyl ether	U		0.29	5.0	µg/L	1	4/22/2015 03:11
4-Chloro-3-methylphenol	U		0.16	5.0	µg/L	1	4/22/2015 03:11
4-Chloroaniline	U		0.22	5.0	µg/L	1	4/22/2015 03:11
4-Chlorophenyl phenyl ether	U		0.20	5.0	µg/L	1	4/22/2015 03:11
4-Nitroaniline	U		0.13	5.0	µg/L	1	4/22/2015 03:11
4-Nitrophenol	U		0.62	5.0	µg/L	1	4/22/2015 03:11
Acenaphthene	U		0.041	5.0	µg/L	1	4/22/2015 03:11
Acenaphthylene	U		0.039	5.0	µg/L	1	4/22/2015 03:11
Acetophenone	U		0.37	1.0	µg/L	1	4/22/2015 03:11
Anthracene	U		0.028	5.0	µg/L	1	4/22/2015 03:11
Atrazine	U		0.16	1.0	µg/L	1	4/22/2015 03:11
Benzaldehyde	U		0.25	1.0	µg/L	1	4/22/2015 03:11
Benzo(a)anthracene	U		0.072	5.0	µg/L	1	4/22/2015 03:11
Benzo(a)pyrene	U		0.036	5.0	µg/L	1	4/22/2015 03:11
Benzo(b)fluoranthene	U		0.043	5.0	µg/L	1	4/22/2015 03:11
Benzo(g,h,i)perylene	U		0.070	5.0	µg/L	1	4/22/2015 03:11
Benzo(k)fluoranthene	U		0.062	5.0	µg/L	1	4/22/2015 03:11
Bis(2-chloroethoxy)methane	U		0.23	5.0	µg/L	1	4/22/2015 03:11
Bis(2-chloroethyl)ether	U		0.16	5.0	µg/L	1	4/22/2015 03:11

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-046
Collection Date: 4/15/2015 12:28 PM

Work Order: 1504937
Lab ID: 1504937-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.19	5.0	µg/L	1	4/22/2015 03:11
Bis(2-ethylhexyl)phthalate	U		0.18	5.0	µg/L	1	4/22/2015 03:11
Butyl benzyl phthalate	U		0.12	5.0	µg/L	1	4/22/2015 03:11
Caprolactam	U		0.96	10	µg/L	1	4/22/2015 03:11
Carbazole	U		0.12	5.0	µg/L	1	4/22/2015 03:11
Chrysene	U		0.042	5.0	µg/L	1	4/22/2015 03:11
Dibenzo(a,h)anthracene	U		0.074	5.0	µg/L	1	4/22/2015 03:11
Dibenzofuran	U		0.23	5.0	µg/L	1	4/22/2015 03:11
Diethyl phthalate	U		0.17	5.0	µg/L	1	4/22/2015 03:11
Dimethyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 03:11
Di-n-butyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 03:11
Di-n-octyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 03:11
Fluoranthene	U		0.047	5.0	µg/L	1	4/22/2015 03:11
Fluorene	U		0.036	5.0	µg/L	1	4/22/2015 03:11
Hexachlorobenzene	U		0.23	5.0	µg/L	1	4/22/2015 03:11
Hexachlorobutadiene	U		0.37	5.0	µg/L	1	4/22/2015 03:11
Hexachlorocyclopentadiene	U		0.18	5.0	µg/L	1	4/22/2015 03:11
Hexachloroethane	U		0.47	5.0	µg/L	1	4/22/2015 03:11
Indeno(1,2,3-cd)pyrene	U		0.064	5.0	µg/L	1	4/22/2015 03:11
Isophorone	U		0.25	5.0	µg/L	1	4/22/2015 03:11
Naphthalene	U		0.050	5.0	µg/L	1	4/22/2015 03:11
Nitrobenzene	U		0.23	5.0	µg/L	1	4/22/2015 03:11
N-Nitrosodi-n-propylamine	U		0.24	5.0	µg/L	1	4/22/2015 03:11
N-Nitrosodiphenylamine	U		0.24	5.0	µg/L	1	4/22/2015 03:11
Pentachlorophenol	U		0.52	5.0	µg/L	1	4/22/2015 03:11
Phenanthrene	U		0.054	5.0	µg/L	1	4/22/2015 03:11
Phenol	U		0.13	5.0	µg/L	1	4/22/2015 03:11
Pyrene	U		0.069	5.0	µg/L	1	4/22/2015 03:11
Surr: 2,4,6-Tribromophenol	72.3			38-115	%REC	1	4/22/2015 03:11
Surr: 2-Fluorobiphenyl	46.9			32-100	%REC	1	4/22/2015 03:11
Surr: 2-Fluorophenol	31.4			22-59	%REC	1	4/22/2015 03:11
Surr: 4-Terphenyl-d14	83.7			23-112	%REC	1	4/22/2015 03:11
Surr: Nitrobenzene-d5	52.6			31-93	%REC	1	4/22/2015 03:11
Surr: Phenol-d6	20.6			13-36	%REC	1	4/22/2015 03:11

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: AK

BatchID: R162045

1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 05:43
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 05:43
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 05:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-046
Collection Date: 4/15/2015 12:28 PM

Work Order: 1504937
Lab ID: 1504937-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 05:43
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 05:43
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 05:43
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 05:43
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 05:43
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 05:43
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 05:43
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 05:43
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 05:43
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 05:43
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 05:43
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 05:43
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 05:43
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 05:43
Acetone	U		3.1	50	µg/L	1	4/25/2015 05:43
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 05:43
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 05:43
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 05:43
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 05:43
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 05:43
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 05:43
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 05:43
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 05:43
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 05:43
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 05:43
cis-1,2-Dichloroethene	1.6		0.25	1.0	µg/L	1	4/25/2015 05:43
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 05:43
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 05:43
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 05:43
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 05:43
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 05:43
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 05:43
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 05:43
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 05:43
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 05:43
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 05:43
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 05:43
Tetrachloroethene	4.0		0.25	1.0	µg/L	1	4/25/2015 05:43
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 05:43
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 05:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-046
Collection Date: 4/15/2015 12:28 PM

Work Order: 1504937
Lab ID: 1504937-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 05:43
Trichloroethene	1.2		0.34	1.0	µg/L	1	4/25/2015 05:43
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 05:43
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 05:43
Xylenes, Total	0.68	J	0.62	3.0	µg/L	1	4/25/2015 05:43
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	4/25/2015 05:43
Surr: 4-Bromofluorobenzene	102			80-110	%REC	1	4/25/2015 05:43
Surr: Dibromofluoromethane	100			85-115	%REC	1	4/25/2015 05:43
Surr: Toluene-d8	97.8			85-110	%REC	1	4/25/2015 05:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-047
Collection Date: 4/15/2015 01:32 PM

Work Order: 1504937
Lab ID: 1504937-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3510 / 4/21/15		Analyst: RS
BatchID: 70065							
1,1`-Biphenyl	U		0.22	5.0	µg/L	1	4/22/2015 03:33
2,4,5-Trichlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 03:33
2,4,6-Trichlorophenol	U		0.25	5.0	µg/L	1	4/22/2015 03:33
2,4-Dichlorophenol	U		0.17	5.0	µg/L	1	4/22/2015 03:33
2,4-Dimethylphenol	2.0	J	0.18	5.0	µg/L	1	4/22/2015 03:33
2,4-Dinitrophenol	U		1.5	5.0	µg/L	1	4/22/2015 03:33
2,4-Dinitrotoluene	U		0.14	5.0	µg/L	1	4/22/2015 03:33
2,6-Dinitrotoluene	U		0.20	5.0	µg/L	1	4/22/2015 03:33
2-Chloronaphthalene	U		0.030	5.0	µg/L	1	4/22/2015 03:33
2-Chlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 03:33
2-Methylnaphthalene	U		0.099	5.0	µg/L	1	4/22/2015 03:33
2-Methylphenol	U		0.14	5.0	µg/L	1	4/22/2015 03:33
2-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 03:33
2-Nitrophenol	U		0.27	5.0	µg/L	1	4/22/2015 03:33
3&4-Methylphenol	U		0.24	5.0	µg/L	1	4/22/2015 03:33
3,3`-Dichlorobenzidine	U		0.70	5.0	µg/L	1	4/22/2015 03:33
3-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 03:33
4,6-Dinitro-2-methylphenol	U		0.12	5.0	µg/L	1	4/22/2015 03:33
4-Bromophenyl phenyl ether	U		0.29	5.0	µg/L	1	4/22/2015 03:33
4-Chloro-3-methylphenol	U		0.16	5.0	µg/L	1	4/22/2015 03:33
4-Chloroaniline	U		0.22	5.0	µg/L	1	4/22/2015 03:33
4-Chlorophenyl phenyl ether	U		0.20	5.0	µg/L	1	4/22/2015 03:33
4-Nitroaniline	U		0.13	5.0	µg/L	1	4/22/2015 03:33
4-Nitrophenol	U		0.62	5.0	µg/L	1	4/22/2015 03:33
Acenaphthene	U		0.041	5.0	µg/L	1	4/22/2015 03:33
Acenaphthylene	U		0.039	5.0	µg/L	1	4/22/2015 03:33
Acetophenone	U		0.37	1.0	µg/L	1	4/22/2015 03:33
Anthracene	U		0.028	5.0	µg/L	1	4/22/2015 03:33
Atrazine	U		0.16	1.0	µg/L	1	4/22/2015 03:33
Benzaldehyde	U		0.25	1.0	µg/L	1	4/22/2015 03:33
Benzo(a)anthracene	U		0.072	5.0	µg/L	1	4/22/2015 03:33
Benzo(a)pyrene	U		0.036	5.0	µg/L	1	4/22/2015 03:33
Benzo(b)fluoranthene	U		0.043	5.0	µg/L	1	4/22/2015 03:33
Benzo(g,h,i)perylene	U		0.070	5.0	µg/L	1	4/22/2015 03:33
Benzo(k)fluoranthene	U		0.062	5.0	µg/L	1	4/22/2015 03:33
Bis(2-chloroethoxy)methane	U		0.23	5.0	µg/L	1	4/22/2015 03:33
Bis(2-chloroethyl)ether	U		0.16	5.0	µg/L	1	4/22/2015 03:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-047
Collection Date: 4/15/2015 01:32 PM

Work Order: 1504937
Lab ID: 1504937-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.19	5.0	µg/L	1	4/22/2015 03:33
Bis(2-ethylhexyl)phthalate	U		0.18	5.0	µg/L	1	4/22/2015 03:33
Butyl benzyl phthalate	U		0.12	5.0	µg/L	1	4/22/2015 03:33
Caprolactam	U		0.96	10	µg/L	1	4/22/2015 03:33
Carbazole	U		0.12	5.0	µg/L	1	4/22/2015 03:33
Chrysene	U		0.042	5.0	µg/L	1	4/22/2015 03:33
Dibenzo(a,h)anthracene	U		0.074	5.0	µg/L	1	4/22/2015 03:33
Dibenzofuran	U		0.23	5.0	µg/L	1	4/22/2015 03:33
Diethyl phthalate	U		0.17	5.0	µg/L	1	4/22/2015 03:33
Dimethyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 03:33
Di-n-butyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 03:33
Di-n-octyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 03:33
Fluoranthene	U		0.047	5.0	µg/L	1	4/22/2015 03:33
Fluorene	U		0.036	5.0	µg/L	1	4/22/2015 03:33
Hexachlorobenzene	U		0.23	5.0	µg/L	1	4/22/2015 03:33
Hexachlorobutadiene	U		0.37	5.0	µg/L	1	4/22/2015 03:33
Hexachlorocyclopentadiene	U		0.18	5.0	µg/L	1	4/22/2015 03:33
Hexachloroethane	U		0.47	5.0	µg/L	1	4/22/2015 03:33
Indeno(1,2,3-cd)pyrene	U		0.064	5.0	µg/L	1	4/22/2015 03:33
Isophorone	U		0.25	5.0	µg/L	1	4/22/2015 03:33
Naphthalene	0.48	J	0.050	5.0	µg/L	1	4/22/2015 03:33
Nitrobenzene	U		0.23	5.0	µg/L	1	4/22/2015 03:33
N-Nitrosodi-n-propylamine	U		0.24	5.0	µg/L	1	4/22/2015 03:33
N-Nitrosodiphenylamine	U		0.24	5.0	µg/L	1	4/22/2015 03:33
Pentachlorophenol	U		0.52	5.0	µg/L	1	4/22/2015 03:33
Phenanthrene	U		0.054	5.0	µg/L	1	4/22/2015 03:33
Phenol	U		0.13	5.0	µg/L	1	4/22/2015 03:33
Pyrene	U		0.069	5.0	µg/L	1	4/22/2015 03:33
Surr: 2,4,6-Tribromophenol	65.1			38-115	%REC	1	4/22/2015 03:33
Surr: 2-Fluorobiphenyl	45.1			32-100	%REC	1	4/22/2015 03:33
Surr: 2-Fluorophenol	28.9			22-59	%REC	1	4/22/2015 03:33
Surr: 4-Terphenyl-d14	65.0			23-112	%REC	1	4/22/2015 03:33
Surr: Nitrobenzene-d5	51.6			31-93	%REC	1	4/22/2015 03:33
Surr: Phenol-d6	22.0			13-36	%REC	1	4/22/2015 03:33
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK	
BatchID: R162045							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 06:07
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 06:07
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 06:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-047
Collection Date: 4/15/2015 01:32 PM

Work Order: 1504937
Lab ID: 1504937-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 06:07
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 06:07
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 06:07
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 06:07
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 06:07
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 06:07
1,2-Dichlorobenzene	1.6		0.22	1.0	µg/L	1	4/25/2015 06:07
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 06:07
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 06:07
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 06:07
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 06:07
2-Butanone	1.4	J	0.87	25	µg/L	1	4/25/2015 06:07
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 06:07
4-Methyl-2-pentanone	2.6	J	0.15	50	µg/L	1	4/25/2015 06:07
Acetone	5.1	J	3.1	50	µg/L	1	4/25/2015 06:07
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 06:07
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 06:07
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 06:07
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 06:07
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 06:07
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 06:07
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 06:07
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 06:07
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 06:07
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 06:07
cis-1,2-Dichloroethene	1.7		0.25	1.0	µg/L	1	4/25/2015 06:07
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 06:07
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 06:07
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 06:07
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 06:07
Ethylbenzene	1.5		0.22	1.0	µg/L	1	4/25/2015 06:07
Isopropylbenzene	2.0	J	0.25	5.0	µg/L	1	4/25/2015 06:07
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 06:07
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 06:07
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 06:07
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 06:07
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 06:07
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/25/2015 06:07
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 06:07
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 06:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-047
Collection Date: 4/15/2015 01:32 PM

Work Order: 1504937
Lab ID: 1504937-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 06:07
Trichloroethene	U		0.34	1.0	µg/L	1	4/25/2015 06:07
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 06:07
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 06:07
Xylenes, Total	4.7		0.62	3.0	µg/L	1	4/25/2015 06:07
Surr: 1,2-Dichloroethane-d4	101			75-120	%REC	1	4/25/2015 06:07
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	4/25/2015 06:07
Surr: Dibromofluoromethane	99.4			85-115	%REC	1	4/25/2015 06:07
Surr: Toluene-d8	99.0			85-110	%REC	1	4/25/2015 06:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-048
Collection Date: 4/15/2015 02:09 PM

Work Order: 1504937
Lab ID: 1504937-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3510 / 4/21/15	Analyst: RS	
<u>BatchID: 70065</u>							
1,1'-Biphenyl	U		0.22	5.0	µg/L	1	4/22/2015 03:56
2,4,5-Trichlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 03:56
2,4,6-Trichlorophenol	U		0.25	5.0	µg/L	1	4/22/2015 03:56
2,4-Dichlorophenol	U		0.17	5.0	µg/L	1	4/22/2015 03:56
2,4-Dimethylphenol	U		0.18	5.0	µg/L	1	4/22/2015 03:56
2,4-Dinitrophenol	U		1.5	5.0	µg/L	1	4/22/2015 03:56
2,4-Dinitrotoluene	U		0.14	5.0	µg/L	1	4/22/2015 03:56
2,6-Dinitrotoluene	U		0.20	5.0	µg/L	1	4/22/2015 03:56
2-Chloronaphthalene	U		0.030	5.0	µg/L	1	4/22/2015 03:56
2-Chlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 03:56
2-Methylnaphthalene	U		0.099	5.0	µg/L	1	4/22/2015 03:56
2-Methylphenol	U		0.14	5.0	µg/L	1	4/22/2015 03:56
2-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 03:56
2-Nitrophenol	U		0.27	5.0	µg/L	1	4/22/2015 03:56
3&4-Methylphenol	U		0.24	5.0	µg/L	1	4/22/2015 03:56
3,3'-Dichlorobenzidine	U		0.70	5.0	µg/L	1	4/22/2015 03:56
3-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 03:56
4,6-Dinitro-2-methylphenol	U		0.12	5.0	µg/L	1	4/22/2015 03:56
4-Bromophenyl phenyl ether	U		0.29	5.0	µg/L	1	4/22/2015 03:56
4-Chloro-3-methylphenol	U		0.16	5.0	µg/L	1	4/22/2015 03:56
4-Chloroaniline	U		0.22	5.0	µg/L	1	4/22/2015 03:56
4-Chlorophenyl phenyl ether	U		0.20	5.0	µg/L	1	4/22/2015 03:56
4-Nitroaniline	U		0.13	5.0	µg/L	1	4/22/2015 03:56
4-Nitrophenol	U		0.62	5.0	µg/L	1	4/22/2015 03:56
Acenaphthene	U		0.041	5.0	µg/L	1	4/22/2015 03:56
Acenaphthylene	U		0.039	5.0	µg/L	1	4/22/2015 03:56
Acetophenone	U		0.37	1.0	µg/L	1	4/22/2015 03:56
Anthracene	U		0.028	5.0	µg/L	1	4/22/2015 03:56
Atrazine	U		0.16	1.0	µg/L	1	4/22/2015 03:56
Benzaldehyde	U		0.25	1.0	µg/L	1	4/22/2015 03:56
Benzo(a)anthracene	U		0.072	5.0	µg/L	1	4/22/2015 03:56
Benzo(a)pyrene	U		0.036	5.0	µg/L	1	4/22/2015 03:56
Benzo(b)fluoranthene	U		0.043	5.0	µg/L	1	4/22/2015 03:56
Benzo(g,h,i)perylene	U		0.070	5.0	µg/L	1	4/22/2015 03:56
Benzo(k)fluoranthene	U		0.062	5.0	µg/L	1	4/22/2015 03:56
Bis(2-chloroethoxy)methane	U		0.23	5.0	µg/L	1	4/22/2015 03:56
Bis(2-chloroethyl)ether	U		0.16	5.0	µg/L	1	4/22/2015 03:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-048
Collection Date: 4/15/2015 02:09 PM

Work Order: 1504937
Lab ID: 1504937-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.19	5.0	µg/L	1	4/22/2015 03:56
Bis(2-ethylhexyl)phthalate	U		0.18	5.0	µg/L	1	4/22/2015 03:56
Butyl benzyl phthalate	U		0.12	5.0	µg/L	1	4/22/2015 03:56
Caprolactam	U		0.96	10	µg/L	1	4/22/2015 03:56
Carbazole	U		0.12	5.0	µg/L	1	4/22/2015 03:56
Chrysene	U		0.042	5.0	µg/L	1	4/22/2015 03:56
Dibenzo(a,h)anthracene	U		0.074	5.0	µg/L	1	4/22/2015 03:56
Dibenzofuran	U		0.23	5.0	µg/L	1	4/22/2015 03:56
Diethyl phthalate	U		0.17	5.0	µg/L	1	4/22/2015 03:56
Dimethyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 03:56
Di-n-butyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 03:56
Di-n-octyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 03:56
Fluoranthene	U		0.047	5.0	µg/L	1	4/22/2015 03:56
Fluorene	U		0.036	5.0	µg/L	1	4/22/2015 03:56
Hexachlorobenzene	U		0.23	5.0	µg/L	1	4/22/2015 03:56
Hexachlorobutadiene	U		0.37	5.0	µg/L	1	4/22/2015 03:56
Hexachlorocyclopentadiene	U		0.18	5.0	µg/L	1	4/22/2015 03:56
Hexachloroethane	U		0.47	5.0	µg/L	1	4/22/2015 03:56
Indeno(1,2,3-cd)pyrene	U		0.064	5.0	µg/L	1	4/22/2015 03:56
Isophorone	U		0.25	5.0	µg/L	1	4/22/2015 03:56
Naphthalene	U		0.050	5.0	µg/L	1	4/22/2015 03:56
Nitrobenzene	U		0.23	5.0	µg/L	1	4/22/2015 03:56
N-Nitrosodi-n-propylamine	U		0.24	5.0	µg/L	1	4/22/2015 03:56
N-Nitrosodiphenylamine	U		0.24	5.0	µg/L	1	4/22/2015 03:56
Pentachlorophenol	U		0.52	5.0	µg/L	1	4/22/2015 03:56
Phenanthrene	U		0.054	5.0	µg/L	1	4/22/2015 03:56
Phenol	U		0.13	5.0	µg/L	1	4/22/2015 03:56
Pyrene	U		0.069	5.0	µg/L	1	4/22/2015 03:56
Surr: 2,4,6-Tribromophenol	72.1			38-115	%REC	1	4/22/2015 03:56
Surr: 2-Fluorobiphenyl	50.6			32-100	%REC	1	4/22/2015 03:56
Surr: 2-Fluorophenol	29.3			22-59	%REC	1	4/22/2015 03:56
Surr: 4-Terphenyl-d14	78.8			23-112	%REC	1	4/22/2015 03:56
Surr: Nitrobenzene-d5	50.9			31-93	%REC	1	4/22/2015 03:56
Surr: Phenol-d6	22.2			13-36	%REC	1	4/22/2015 03:56

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: AK

BatchID: R162045

1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 06:34
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 06:34
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 06:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-048
Collection Date: 4/15/2015 02:09 PM

Work Order: 1504937
Lab ID: 1504937-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 06:34
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 06:34
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 06:34
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 06:34
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 06:34
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 06:34
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 06:34
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 06:34
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 06:34
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 06:34
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 06:34
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 06:34
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 06:34
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 06:34
Acetone	U		3.1	50	µg/L	1	4/25/2015 06:34
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 06:34
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 06:34
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 06:34
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 06:34
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 06:34
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 06:34
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 06:34
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 06:34
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 06:34
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 06:34
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/25/2015 06:34
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 06:34
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 06:34
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 06:34
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 06:34
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 06:34
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 06:34
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 06:34
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 06:34
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 06:34
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 06:34
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 06:34
Tetrachloroethene	2.3		0.25	1.0	µg/L	1	4/25/2015 06:34
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 06:34
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 06:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-048
Collection Date: 4/15/2015 02:09 PM

Work Order: 1504937
Lab ID: 1504937-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 06:34
Trichloroethene	U		0.34	1.0	µg/L	1	4/25/2015 06:34
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 06:34
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 06:34
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 06:34
Surr: 1,2-Dichloroethane-d4	99.4			75-120	%REC	1	4/25/2015 06:34
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	4/25/2015 06:34
Surr: Dibromofluoromethane	98.6			85-115	%REC	1	4/25/2015 06:34
Surr: Toluene-d8	100			85-110	%REC	1	4/25/2015 06:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-049
Collection Date: 4/15/2015 02:44 PM

Work Order: 1504937
Lab ID: 1504937-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3510 / 4/21/15	Analyst: RS	
BatchID: 70065							
1,1'-Biphenyl	U		0.22	5.0	µg/L	1	4/22/2015 04:18
2,4,5-Trichlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 04:18
2,4,6-Trichlorophenol	U		0.25	5.0	µg/L	1	4/22/2015 04:18
2,4-Dichlorophenol	U		0.17	5.0	µg/L	1	4/22/2015 04:18
2,4-Dimethylphenol	U		0.18	5.0	µg/L	1	4/22/2015 04:18
2,4-Dinitrophenol	U		1.5	5.0	µg/L	1	4/22/2015 04:18
2,4-Dinitrotoluene	U		0.14	5.0	µg/L	1	4/22/2015 04:18
2,6-Dinitrotoluene	U		0.20	5.0	µg/L	1	4/22/2015 04:18
2-Chloronaphthalene	U		0.030	5.0	µg/L	1	4/22/2015 04:18
2-Chlorophenol	U		0.29	5.0	µg/L	1	4/22/2015 04:18
2-Methylnaphthalene	U		0.099	5.0	µg/L	1	4/22/2015 04:18
2-Methylphenol	U		0.14	5.0	µg/L	1	4/22/2015 04:18
2-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 04:18
2-Nitrophenol	U		0.27	5.0	µg/L	1	4/22/2015 04:18
3&4-Methylphenol	U		0.24	5.0	µg/L	1	4/22/2015 04:18
3,3'-Dichlorobenzidine	U		0.70	5.0	µg/L	1	4/22/2015 04:18
3-Nitroaniline	U		0.24	5.0	µg/L	1	4/22/2015 04:18
4,6-Dinitro-2-methylphenol	U		0.12	5.0	µg/L	1	4/22/2015 04:18
4-Bromophenyl phenyl ether	U		0.29	5.0	µg/L	1	4/22/2015 04:18
4-Chloro-3-methylphenol	U		0.16	5.0	µg/L	1	4/22/2015 04:18
4-Chloroaniline	U		0.22	5.0	µg/L	1	4/22/2015 04:18
4-Chlorophenyl phenyl ether	U		0.20	5.0	µg/L	1	4/22/2015 04:18
4-Nitroaniline	U		0.13	5.0	µg/L	1	4/22/2015 04:18
4-Nitrophenol	U		0.62	5.0	µg/L	1	4/22/2015 04:18
Acenaphthene	U		0.041	5.0	µg/L	1	4/22/2015 04:18
Acenaphthylene	U		0.039	5.0	µg/L	1	4/22/2015 04:18
Acetophenone	U		0.37	1.0	µg/L	1	4/22/2015 04:18
Anthracene	U		0.028	5.0	µg/L	1	4/22/2015 04:18
Atrazine	U		0.16	1.0	µg/L	1	4/22/2015 04:18
Benzaldehyde	U		0.25	1.0	µg/L	1	4/22/2015 04:18
Benzo(a)anthracene	U		0.072	5.0	µg/L	1	4/22/2015 04:18
Benzo(a)pyrene	U		0.036	5.0	µg/L	1	4/22/2015 04:18
Benzo(b)fluoranthene	U		0.043	5.0	µg/L	1	4/22/2015 04:18
Benzo(g,h,i)perylene	U		0.070	5.0	µg/L	1	4/22/2015 04:18
Benzo(k)fluoranthene	U		0.062	5.0	µg/L	1	4/22/2015 04:18
Bis(2-chloroethoxy)methane	U		0.23	5.0	µg/L	1	4/22/2015 04:18
Bis(2-chloroethyl)ether	U		0.16	5.0	µg/L	1	4/22/2015 04:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-049
Collection Date: 4/15/2015 02:44 PM

Work Order: 1504937
Lab ID: 1504937-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.19	5.0	µg/L	1	4/22/2015 04:18
Bis(2-ethylhexyl)phthalate	U		0.18	5.0	µg/L	1	4/22/2015 04:18
Butyl benzyl phthalate	U		0.12	5.0	µg/L	1	4/22/2015 04:18
Caprolactam	U		0.96	10	µg/L	1	4/22/2015 04:18
Carbazole	U		0.12	5.0	µg/L	1	4/22/2015 04:18
Chrysene	U		0.042	5.0	µg/L	1	4/22/2015 04:18
Dibenzo(a,h)anthracene	U		0.074	5.0	µg/L	1	4/22/2015 04:18
Dibenzofuran	U		0.23	5.0	µg/L	1	4/22/2015 04:18
Diethyl phthalate	U		0.17	5.0	µg/L	1	4/22/2015 04:18
Dimethyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 04:18
Di-n-butyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 04:18
Di-n-octyl phthalate	U		0.15	5.0	µg/L	1	4/22/2015 04:18
Fluoranthene	U		0.047	5.0	µg/L	1	4/22/2015 04:18
Fluorene	U		0.036	5.0	µg/L	1	4/22/2015 04:18
Hexachlorobenzene	U		0.23	5.0	µg/L	1	4/22/2015 04:18
Hexachlorobutadiene	U		0.37	5.0	µg/L	1	4/22/2015 04:18
Hexachlorocyclopentadiene	U		0.18	5.0	µg/L	1	4/22/2015 04:18
Hexachloroethane	U		0.47	5.0	µg/L	1	4/22/2015 04:18
Indeno(1,2,3-cd)pyrene	U		0.064	5.0	µg/L	1	4/22/2015 04:18
Isophorone	U		0.25	5.0	µg/L	1	4/22/2015 04:18
Naphthalene	U		0.050	5.0	µg/L	1	4/22/2015 04:18
Nitrobenzene	U		0.23	5.0	µg/L	1	4/22/2015 04:18
N-Nitrosodi-n-propylamine	U		0.24	5.0	µg/L	1	4/22/2015 04:18
N-Nitrosodiphenylamine	U		0.24	5.0	µg/L	1	4/22/2015 04:18
Pentachlorophenol	U		0.52	5.0	µg/L	1	4/22/2015 04:18
Phenanthrene	U		0.054	5.0	µg/L	1	4/22/2015 04:18
Phenol	U		0.13	5.0	µg/L	1	4/22/2015 04:18
Pyrene	U		0.069	5.0	µg/L	1	4/22/2015 04:18
Surr: 2,4,6-Tribromophenol	68.5			38-115	%REC	1	4/22/2015 04:18
Surr: 2-Fluorobiphenyl	42.3			32-100	%REC	1	4/22/2015 04:18
Surr: 2-Fluorophenol	27.1			22-59	%REC	1	4/22/2015 04:18
Surr: 4-Terphenyl-d14	79.5			23-112	%REC	1	4/22/2015 04:18
Surr: Nitrobenzene-d5	46.6			31-93	%REC	1	4/22/2015 04:18
Surr: Phenol-d6	18.4			13-36	%REC	1	4/22/2015 04:18

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: AK

BatchID: R162045

1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 06:59
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 06:59
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 06:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-049
Collection Date: 4/15/2015 02:44 PM

Work Order: 1504937
Lab ID: 1504937-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 06:59
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 06:59
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 06:59
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 06:59
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 06:59
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 06:59
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 06:59
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 06:59
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 06:59
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 06:59
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 06:59
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 06:59
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 06:59
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 06:59
Acetone	U		3.1	50	µg/L	1	4/25/2015 06:59
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 06:59
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 06:59
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 06:59
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 06:59
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 06:59
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 06:59
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 06:59
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 06:59
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 06:59
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 06:59
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/25/2015 06:59
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 06:59
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 06:59
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 06:59
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 06:59
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 06:59
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 06:59
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 06:59
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 06:59
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 06:59
Methylene chloride	U		0.64	5.0	µg/L	1	4/25/2015 06:59
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 06:59
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/25/2015 06:59
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 06:59
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 06:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-041515-MR-049
Collection Date: 4/15/2015 02:44 PM

Work Order: 1504937
Lab ID: 1504937-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 06:59
Trichloroethene	U		0.34	1.0	µg/L	1	4/25/2015 06:59
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 06:59
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 06:59
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 06:59
Surr: 1,2-Dichloroethane-d4	99.8			75-120	%REC	1	4/25/2015 06:59
Surr: 4-Bromofluorobenzene	98.8			80-110	%REC	1	4/25/2015 06:59
Surr: Dibromofluoromethane	97.2			85-115	%REC	1	4/25/2015 06:59
Surr: Toluene-d8	98.8			85-110	%REC	1	4/25/2015 06:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: TB-017360-041515-MR-050
Collection Date: 4/15/2015

Work Order: 1504937
Lab ID: 1504937-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R162045</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/25/2015 07:24
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/25/2015 07:24
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/25/2015 07:24
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/25/2015 07:24
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/25/2015 07:24
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/25/2015 07:24
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/25/2015 07:24
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/25/2015 07:24
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/25/2015 07:24
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/25/2015 07:24
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/25/2015 07:24
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/25/2015 07:24
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/25/2015 07:24
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/25/2015 07:24
2-Butanone	U		0.87	25	µg/L	1	4/25/2015 07:24
2-Hexanone	U		0.15	50	µg/L	1	4/25/2015 07:24
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/25/2015 07:24
Acetone	3.6	J	3.1	50	µg/L	1	4/25/2015 07:24
Benzene	U		0.25	1.0	µg/L	1	4/25/2015 07:24
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/25/2015 07:24
Bromoform	U		0.099	1.0	µg/L	1	4/25/2015 07:24
Bromomethane	U		1.0	5.0	µg/L	1	4/25/2015 07:24
Carbon disulfide	U		0.26	5.0	µg/L	1	4/25/2015 07:24
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/25/2015 07:24
Chlorobenzene	U		0.19	1.0	µg/L	1	4/25/2015 07:24
Chloroethane	U		0.21	5.0	µg/L	1	4/25/2015 07:24
Chloroform	U		0.25	1.0	µg/L	1	4/25/2015 07:24
Chloromethane	U		0.25	5.0	µg/L	1	4/25/2015 07:24
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/25/2015 07:24
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/25/2015 07:24
Cyclohexane	U		0.31	1.0	µg/L	1	4/25/2015 07:24
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/25/2015 07:24
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/25/2015 07:24
Ethylbenzene	U		0.22	1.0	µg/L	1	4/25/2015 07:24
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/25/2015 07:24
Methyl acetate	U		0.62	10	µg/L	1	4/25/2015 07:24
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/25/2015 07:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: TB-017360-041515-MR-050
Collection Date: 4/15/2015

Work Order: 1504937
Lab ID: 1504937-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/25/2015 07:24
Methylene chloride	4.0	J	0.64	5.0	µg/L	1	4/25/2015 07:24
Styrene	U		0.18	1.0	µg/L	1	4/25/2015 07:24
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/25/2015 07:24
Toluene	U		0.20	1.0	µg/L	1	4/25/2015 07:24
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/25/2015 07:24
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/25/2015 07:24
Trichloroethene	U		0.34	1.0	µg/L	1	4/25/2015 07:24
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/25/2015 07:24
Vinyl chloride	U		0.19	1.0	µg/L	1	4/25/2015 07:24
Xylenes, Total	U		0.62	3.0	µg/L	1	4/25/2015 07:24
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	4/25/2015 07:24
Surr: 4-Bromofluorobenzene	99.8			80-110	%REC	1	4/25/2015 07:24
Surr: Dibromofluoromethane	100			85-115	%REC	1	4/25/2015 07:24
Surr: Toluene-d8	98.6			85-110	%REC	1	4/25/2015 07:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **70095** Instrument ID **HG1** Method: **SW7470**

MBLK		Sample ID: MBLK-70095-70095				Units: mg/L		Analysis Date: 4/21/2015 07:51 PM		
Client ID:		Run ID: HG1_150421A				SeqNo: 3236503		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.00020

LCS		Sample ID: LCS-70095-70095				Units: mg/L		Analysis Date: 4/21/2015 07:53 PM		
Client ID:		Run ID: HG1_150421A				SeqNo: 3236504		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.00207 0.00020 0.002 0 104 80-120 0

MS		Sample ID: 1504937-02BMS				Units: mg/L		Analysis Date: 4/21/2015 08:50 PM		
Client ID: WG-017360-041315-MR-028		Run ID: HG1_150421A				SeqNo: 3236549		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001935 0.00020 0.002 -0.000008 97.2 75-125 0

MSD		Sample ID: 1504937-02BMSD				Units: mg/L		Analysis Date: 4/21/2015 08:53 PM		
Client ID: WG-017360-041315-MR-028		Run ID: HG1_150421A				SeqNo: 3236550		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001974 0.00020 0.002 -0.000008 99.1 75-125 0.001935 2 20

The following samples were analyzed in this batch:

1504937-02B 1504937-15B

Client: Conestoga-Rovers & Associates

Work Order: 1504937

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **70081**

Instrument ID **ICPMS2**

Method: **SW6020A**

MBLK		Sample ID: MBLK-70081-70081				Units: mg/L		Analysis Date: 4/22/2015 01:02 AM		
Client ID:		Run ID: ICPMS2_150421A				SeqNo: 3235884		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0050								
Arsenic	U	0.0050								
Barium	U	0.0050								
Beryllium	U	0.0020								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Cobalt	U	0.0050								
Copper	U	0.0050								
Lead	U	0.0050								
Manganese	0.0007948	0.0050								J
Molybdenum	U	0.0050								
Nickel	0.002289	0.0050								J
Selenium	U	0.0050								
Silver	U	0.0050								
Thallium	U	0.0050								
Vanadium	U	0.0050								
Zinc	U	0.010								

LCS		Sample ID: LCS-70081-70081				Units: mg/L		Analysis Date: 4/22/2015 01:07 AM		
Client ID:		Run ID: ICPMS2_150421A				SeqNo: 3235885		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09281	0.0050	0.1	0	92.8	80-120	0			
Arsenic	0.0909	0.0050	0.1	0	90.9	80-120	0			
Barium	0.09194	0.0050	0.1	0	91.9	80-120	0			
Beryllium	0.0894	0.0020	0.1	0	89.4	80-120	0			
Cadmium	0.09511	0.0020	0.1	0	95.1	80-120	0			
Chromium	0.09362	0.0050	0.1	0	93.6	80-120	0			
Cobalt	0.0874	0.0050	0.1	0	87.4	80-120	0			
Copper	0.09483	0.0050	0.1	0	94.8	80-120	0			
Lead	0.09353	0.0050	0.1	0	93.5	80-120	0			
Manganese	0.09198	0.0050	0.1	0	92	80-120	0			
Molybdenum	0.09216	0.0050	0.1	0	92.2	80-120	0			
Nickel	0.09522	0.0050	0.1	0	95.2	80-120	0			
Selenium	0.09286	0.0050	0.1	0	92.9	80-120	0			
Silver	0.09072	0.0050	0.1	0	90.7	80-120	0			
Thallium	0.09164	0.0050	0.1	0	91.6	80-120	0			
Vanadium	0.088	0.0050	0.1	0	88	80-120	0			
Zinc	0.0946	0.010	0.1	0	94.6	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **70081** Instrument ID **ICPMS2** Method: **SW6020A**

MS				Sample ID: 1504980-07BMS			Units: mg/L		Analysis Date: 4/22/2015 04:23 AM	
Client ID:				Run ID: ICPMS2_150421A			SeqNo: 3235921		Prep Date: 4/21/2015	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09471	0.0050	0.1	0.0001619	94.5	75-125	0			
Arsenic	0.09325	0.0050	0.1	0.0006904	92.6	75-125	0			
Barium	0.3732	0.0050	0.1	0.2962	77	75-125	0			
Beryllium	0.08546	0.0020	0.1	-9.623E-06	85.5	75-125	0			
Cadmium	0.09243	0.0020	0.1	0.00002757	92.4	75-125	0			
Chromium	0.09113	0.0050	0.1	0.0004287	90.7	75-125	0			
Cobalt	0.08568	0.0050	0.1	0.004637	81	75-125	0			
Copper	0.093	0.0050	0.1	0.004346	88.7	75-125	0			
Lead	0.09377	0.0050	0.1	0.0004674	93.3	75-125	0			
Manganese	0.3497	0.0050	0.1	0.2746	75.1	75-125	0			
Molybdenum	0.09648	0.0050	0.1	0.001117	95.4	75-125	0			
Nickel	0.104	0.0050	0.1	0.01765	86.4	75-125	0			
Selenium	0.09541	0.0050	0.1	0.002083	93.3	75-125	0			
Silver	0.086	0.0050	0.1	0.00002051	86	75-125	0			
Thallium	0.09157	0.0050	0.1	0.00002506	91.5	75-125	0			
Zinc	0.1086	0.010	0.1	0.02026	88.3	75-125	0			

MSD				Sample ID: 1504980-07BMSD			Units: mg/L		Analysis Date: 4/22/2015 04:28 AM	
Client ID:				Run ID: ICPMS2_150421A			SeqNo: 3235922		Prep Date: 4/21/2015	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09634	0.0050	0.1	0.0001619	96.2	75-125	0.09471	1.71	20	
Arsenic	0.09526	0.0050	0.1	0.0006904	94.6	75-125	0.09325	2.13	20	
Barium	0.3779	0.0050	0.1	0.2962	81.7	75-125	0.3732	1.25	20	
Beryllium	0.08742	0.0020	0.1	-9.623E-06	87.4	75-125	0.08546	2.27	20	
Cadmium	0.09396	0.0020	0.1	0.00002757	93.9	75-125	0.09243	1.64	20	
Chromium	0.09284	0.0050	0.1	0.0004287	92.4	75-125	0.09113	1.86	20	
Cobalt	0.08742	0.0050	0.1	0.004637	82.8	75-125	0.08568	2.01	20	
Copper	0.09462	0.0050	0.1	0.004346	90.3	75-125	0.093	1.73	20	
Lead	0.09615	0.0050	0.1	0.0004674	95.7	75-125	0.09377	2.51	20	
Manganese	0.3533	0.0050	0.1	0.2746	78.7	75-125	0.3497	1.02	20	
Molybdenum	0.09761	0.0050	0.1	0.001117	96.5	75-125	0.09648	1.16	20	
Nickel	0.1056	0.0050	0.1	0.01765	88	75-125	0.104	1.53	20	
Selenium	0.09612	0.0050	0.1	0.002083	94	75-125	0.09541	0.741	20	
Silver	0.08699	0.0050	0.1	0.00002051	87	75-125	0.086	1.14	20	
Thallium	0.09424	0.0050	0.1	0.00002506	94.2	75-125	0.09157	2.87	20	
Zinc	0.1106	0.010	0.1	0.02026	90.3	75-125	0.1086	1.82	20	

The following samples were analyzed in this batch:

1504937-02B 1504937-15B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **70065** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK		Sample ID: SBLKW1-70065-70065				Units: µg/L		Analysis Date: 4/21/2015 06:43 PM		
Client ID:		Run ID: SVMS5_150421A				SeqNo: 3237652		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	5.0								
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	5.0								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
2,6-Dinitrotoluene	U	5.0								
2-Chloronaphthalene	U	5.0								
2-Chlorophenol	U	5.0								
2-Methylnaphthalene	U	5.0								
2-Methylphenol	U	5.0								
2-Nitroaniline	U	5.0								
2-Nitrophenol	U	5.0								
3&4-Methylphenol	U	5.0								
3,3'-Dichlorobenzidine	U	5.0								
3-Nitroaniline	U	5.0								
4,6-Dinitro-2-methylphenol	U	5.0								
4-Bromophenyl phenyl ether	U	5.0								
4-Chloro-3-methylphenol	U	5.0								
4-Chloroaniline	U	5.0								
4-Chlorophenyl phenyl ether	U	5.0								
4-Nitroaniline	U	5.0								
4-Nitrophenol	U	5.0								
Acenaphthene	U	5.0								
Acenaphthylene	U	5.0								
Acetophenone	U	1.0								
Anthracene	U	5.0								
Atrazine	U	1.0								
Benzaldehyde	U	1.0								
Benzo(a)anthracene	U	5.0								
Benzo(a)pyrene	U	5.0								
Benzo(b)fluoranthene	U	5.0								
Benzo(g,h,i)perylene	U	5.0								
Benzo(k)fluoranthene	U	5.0								
Bis(2-chloroethoxy)methane	U	5.0								
Bis(2-chloroethyl)ether	U	5.0								
Bis(2-chloroisopropyl)ether	U	5.0								
Bis(2-ethylhexyl)phthalate	U	5.0								
Butyl benzyl phthalate	U	5.0								
Caprolactam	U	10								
Carbazole	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: 70065	Instrument ID SVMS5	Method: SW846 8270D						
Chrysene	U	5.0						
Dibenzo(a,h)anthracene	U	5.0						
Dibenzofuran	U	5.0						
Diethyl phthalate	U	5.0						
Dimethyl phthalate	U	5.0						
Di-n-butyl phthalate	U	5.0						
Di-n-octyl phthalate	U	5.0						
Fluoranthene	U	5.0						
Fluorene	U	5.0						
Hexachlorobenzene	U	5.0						
Hexachlorobutadiene	U	5.0						
Hexachlorocyclopentadiene	U	5.0						
Hexachloroethane	U	5.0						
Indeno(1,2,3-cd)pyrene	U	5.0						
Isophorone	U	5.0						
Naphthalene	U	5.0						
Nitrobenzene	U	5.0						
N-Nitrosodi-n-propylamine	U	5.0						
N-Nitrosodiphenylamine	U	5.0						
Pentachlorophenol	U	5.0						
Phenanthrene	U	5.0						
Phenol	U	5.0						
Pyrene	U	5.0						
<i>Surr: 2,4,6-Tribromophenol</i>	33.92	0	50	0	67.8	38-115	0	
<i>Surr: 2-Fluorobiphenyl</i>	28.1	0	50	0	56.2	32-100	0	
<i>Surr: 2-Fluorophenol</i>	20.99	0	50	0	42	22-59	0	
<i>Surr: 4-Terphenyl-d14</i>	43.35	0	50	0	86.7	23-112	0	
<i>Surr: Nitrobenzene-d5</i>	35.43	0	50	0	70.9	31-93	0	
<i>Surr: Phenol-d6</i>	13.7	0	50	0	27.4	13-36	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **70065** Instrument ID **SVMS5** Method: **SW846 8270D**

LCS		Sample ID: SLCSW1-70065-70065				Units: µg/L		Analysis Date: 4/21/2015 07:06 PM		
Client ID:		Run ID: SVMS5_150421A				SeqNo: 3237653		Prep Date: 4/21/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	16.02	5.0	20	0	80.1	30-120	0			
2,4,5-Trichlorophenol	17.07	5.0	20	0	85.4	50-110	0			
2,4,6-Trichlorophenol	17.32	5.0	20	0	86.6	50-115	0			
2,4-Dichlorophenol	17.37	5.0	20	0	86.8	50-105	0			
2,4-Dimethylphenol	16.91	5.0	20	0	84.6	30-110	0			
2,4-Dinitrophenol	16.7	5.0	20	0	83.5	15-140	0			
2,4-Dinitrotoluene	16.47	5.0	20	0	82.4	50-120	0			
2,6-Dinitrotoluene	17.09	5.0	20	0	85.4	50-115	0			
2-Chloronaphthalene	15.17	5.0	20	0	75.8	50-105	0			
2-Chlorophenol	15.46	5.0	20	0	77.3	35-105	0			
2-Methylnaphthalene	16.61	5.0	20	0	83	45-105	0			
2-Methylphenol	14.06	5.0	20	0	70.3	40-110	0			
2-Nitroaniline	18.4	5.0	20	0	92	50-115	0			
2-Nitrophenol	16.68	5.0	20	0	83.4	40-115	0			
3&4-Methylphenol	13.06	5.0	20	0	65.3	30-110	0			
3-Nitroaniline	15.31	5.0	20	0	76.6	20-125	0			
4,6-Dinitro-2-methylphenol	19.18	5.0	20	0	95.9	40-130	0			
4-Bromophenyl phenyl ether	16.24	5.0	20	0	81.2	50-115	0			
4-Chloro-3-methylphenol	18.27	5.0	20	0	91.4	45-110	0			
4-Chloroaniline	17.72	5.0	20	0	88.6	15-110	0			
4-Chlorophenyl phenyl ether	15.35	5.0	20	0	76.8	50-110	0			
4-Nitroaniline	18.76	5.0	20	0	93.8	35-150	0			
4-Nitrophenol	9.28	5.0	20	0	46.4	1-58	0			
Acenaphthene	15.31	5.0	20	0	76.6	45-110	0			
Acenaphthylene	15.36	5.0	20	0	76.8	50-105	0			
Acetophenone	17.23	1.0	20	0	86.2	30-120	0			
Anthracene	16.68	5.0	20	0	83.4	55-110	0			
Atrazine	18.87	1.0	20	0	94.4	30-120	0			
Benzaldehyde	30.86	1.0	20	0	154	30-120	0			S
Benzo(a)anthracene	17.67	5.0	20	0	88.4	55-110	0			
Benzo(a)pyrene	18.9	5.0	20	0	94.5	55-110	0			
Benzo(b)fluoranthene	18.06	5.0	20	0	90.3	45-120	0			
Benzo(g,h,i)perylene	17	5.0	20	0	85	40-125	0			
Benzo(k)fluoranthene	17.83	5.0	20	0	89.2	45-125	0			
Bis(2-chloroethoxy)methane	16.13	5.0	20	0	80.6	45-105	0			
Bis(2-chloroethyl)ether	16.08	5.0	20	0	80.4	35-110	0			
Bis(2-chloroisopropyl)ether	16.54	5.0	20	0	82.7	25-130	0			
Bis(2-ethylhexyl)phthalate	19.75	5.0	20	0	98.8	40-125	0			
Butyl benzyl phthalate	18.34	5.0	20	0	91.7	45-115	0			
Carbazole	18.5	5.0	20	0	92.5	50-150	0			
Chrysene	17.02	5.0	20	0	85.1	55-110	0			
Dibenzo(a,h)anthracene	17.8	5.0	20	0	89	40-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates

Work Order: 1504937

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: 70065		Instrument ID SVMS5		Method: SW846 8270D			
Dibenzofuran	16.54	5.0	20	0	82.7	55-105	0
Diethyl phthalate	16.53	5.0	20	0	82.6	40-120	0
Dimethyl phthalate	16.04	5.0	20	0	80.2	25-125	0
Di-n-butyl phthalate	18.25	5.0	20	0	91.2	55-115	0
Di-n-octyl phthalate	18.31	5.0	20	0	91.6	35-135	0
Fluoranthene	17.59	5.0	20	0	88	55-115	0
Fluorene	15.91	5.0	20	0	79.6	50-110	0
Hexachlorobenzene	15.59	5.0	20	0	78	50-110	0
Hexachlorobutadiene	14.26	5.0	20	0	71.3	25-105	0
Hexachlorocyclopentadiene	9.95	5.0	20	0	49.8	25-105	0
Hexachloroethane	14.12	5.0	20	0	70.6	30-95	0
Indeno(1,2,3-cd)pyrene	17.91	5.0	20	0	89.6	45-125	0
Isophorone	16.72	5.0	20	0	83.6	50-110	0
Naphthalene	10.94	5.0	20	0	54.7	40-100	0
Nitrobenzene	15.65	5.0	20	0	78.2	45-110	0
N-Nitrosodi-n-propylamine	17.77	5.0	20	0	88.8	35-130	0
N-Nitrosodiphenylamine	17.01	5.0	20	0	85	50-110	0
Pentachlorophenol	16.98	5.0	20	0	84.9	40-115	0
Phenanthrene	16.78	5.0	20	0	83.9	50-115	0
Phenol	6.52	5.0	20	0	32.6	12-43	0
Pyrene	17.51	5.0	20	0	87.6	50-130	0
<i>Surr: 2,4,6-Tribromophenol</i>	<i>39.21</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>78.4</i>	<i>38-115</i>	<i>0</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>26.21</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>52.4</i>	<i>32-100</i>	<i>0</i>
<i>Surr: 2-Fluorophenol</i>	<i>22.53</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>45.1</i>	<i>22-59</i>	<i>0</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>49.31</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>98.6</i>	<i>23-112</i>	<i>0</i>
<i>Surr: Nitrobenzene-d5</i>	<i>40.14</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>80.3</i>	<i>31-93</i>	<i>0</i>
<i>Surr: Phenol-d6</i>	<i>14.73</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>29.5</i>	<i>13-36</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **70065** Instrument ID **SVMS5** Method: **SW846 8270D**

MS				Sample ID: 1504937-17B MS			Units: µg/L		Analysis Date: 4/21/2015 08:47 PM	
Client ID: WG-017360-041515-MR-043				Run ID: SVMS5_150421A			SeqNo: 3237654		Prep Date: 4/21/2015	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	15.57	5.0	20	0	77.8	30-120	0			
2,4,5-Trichlorophenol	16.91	5.0	20	0	84.6	50-110	0			
2,4,6-Trichlorophenol	17.21	5.0	20	0	86	50-115	0			
2,4-Dichlorophenol	16.63	5.0	20	0	83.2	50-105	0			
2,4-Dimethylphenol	17.12	5.0	20	1.28	79.2	30-110	0			
2,4-Dinitrophenol	21.64	5.0	20	0	108	15-140	0			
2,4-Dinitrotoluene	21.51	5.0	20	0	108	50-120	0			
2,6-Dinitrotoluene	17.93	5.0	20	0	89.6	50-115	0			
2-Chloronaphthalene	13.84	5.0	20	0	69.2	50-105	0			
2-Chlorophenol	14.37	5.0	20	0	71.8	35-105	0			
2-Methylnaphthalene	15.51	5.0	20	0	77.6	45-105	0			
2-Methylphenol	13.61	5.0	20	0	68	40-110	0			
2-Nitroaniline	19.45	5.0	20	0	97.2	50-115	0			
2-Nitrophenol	16.03	5.0	20	0	80.2	40-115	0			
3&4-Methylphenol	12.97	5.0	20	0	64.8	30-110	0			
3-Nitroaniline	8.62	5.0	20	0	43.1	20-125	0			
4,6-Dinitro-2-methylphenol	17.94	5.0	20	0	89.7	40-130	0			
4-Bromophenyl phenyl ether	14.48	5.0	20	0	72.4	50-115	0			
4-Chloro-3-methylphenol	19.13	5.0	20	0	95.6	45-110	0			
4-Chloroaniline	13.01	5.0	20	0	65	15-110	0			
4-Chlorophenyl phenyl ether	14.9	5.0	20	0	74.5	50-110	0			
4-Nitroaniline	10.57	5.0	20	3.24	36.6	35-150	0			
4-Nitrophenol	9.63	5.0	20	0	48.2	1-58	0			
Acenaphthene	15.07	5.0	20	0	75.4	45-110	0			
Acenaphthylene	14.14	5.0	20	0	70.7	50-105	0			
Acetophenone	16.8	1.0	20	0	84	30-120	0			
Anthracene	15.76	5.0	20	0	78.8	55-110	0			
Atrazine	6.46	1.0	20	0	32.3	30-120	0			
Benzaldehyde	23.32	1.0	20	0	117	30-120	0			
Benzo(a)anthracene	15.94	5.0	20	0	79.7	55-110	0			
Benzo(a)pyrene	16.66	5.0	20	0	83.3	55-110	0			
Benzo(b)fluoranthene	15.63	5.0	20	0	78.2	45-120	0			
Benzo(g,h,i)perylene	14.79	5.0	20	0	74	40-125	0			
Benzo(k)fluoranthene	15.41	5.0	20	0	77	45-125	0			
Bis(2-chloroethoxy)methane	14.66	5.0	20	0	73.3	45-105	0			
Bis(2-chloroethyl)ether	12.49	5.0	20	0	62.4	35-110	0			
Bis(2-chloroisopropyl)ether	14.44	5.0	20	0	72.2	25-130	0			
Bis(2-ethylhexyl)phthalate	18.35	5.0	20	0	91.8	40-125	0			
Butyl benzyl phthalate	17.09	5.0	20	0	85.4	45-115	0			
Carbazole	18.24	5.0	20	0	91.2	50-150	0			
Chrysene	14.74	5.0	20	0	73.7	55-110	0			
Dibenzo(a,h)anthracene	15.98	5.0	20	0	79.9	40-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: 70065		Instrument ID SVMS5		Method: SW846 8270D				
Dibenzofuran	16.73	5.0	20	0	83.6	55-105	0	
Diethyl phthalate	16.4	5.0	20	0	82	40-120	0	
Dimethyl phthalate	15.1	5.0	20	0	75.5	25-125	0	
Di-n-butyl phthalate	16.88	5.0	20	0	84.4	55-115	0	
Di-n-octyl phthalate	17.01	5.0	20	0	85	35-135	0	
Fluoranthene	16.8	5.0	20	0	84	55-115	0	
Fluorene	16.87	5.0	20	1.95	74.6	50-110	0	
Hexachlorobenzene	14	5.0	20	0	70	50-110	0	
Hexachlorobutadiene	13.51	5.0	20	0	67.6	25-105	0	
Hexachlorocyclopentadiene	11.52	5.0	20	0	57.6	25-105	0	
Hexachloroethane	18.48	5.0	20	0	92.4	30-95	0	
Indeno(1,2,3-cd)pyrene	16.71	5.0	20	0	83.6	45-125	0	
Isophorone	16.36	5.0	20	0	81.8	50-110	0	
Naphthalene	11.08	5.0	20	4.99	30.4	40-100	0	S
Nitrobenzene	14.2	5.0	20	0	71	45-110	0	
N-Nitrosodi-n-propylamine	17.06	5.0	20	0	85.3	35-130	0	
N-Nitrosodiphenylamine	15.18	5.0	20	0	75.9	50-110	0	
Pentachlorophenol	31.7	5.0	20	0	158	40-115	0	S
Phenanthrene	15.74	5.0	20	0	78.7	50-115	0	
Phenol	6.83	5.0	20	0	34.2	12-43	0	
Pyrene	16.2	5.0	20	0	81	50-130	0	
<i>Surr: 2,4,6-Tribromophenol</i>	38.28	0	50	0	76.6	38-115	0	
<i>Surr: 2-Fluorobiphenyl</i>	30.66	0	50	0	61.3	32-100	0	
<i>Surr: 2-Fluorophenol</i>	19.9	0	50	0	39.8	22-59	0	
<i>Surr: 4-Terphenyl-d14</i>	42.61	0	50	0	85.2	23-112	0	
<i>Surr: Nitrobenzene-d5</i>	34.95	0	50	0	69.9	31-93	0	
<i>Surr: Phenol-d6</i>	14.2	0	50	0	28.4	13-36	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **70065** Instrument ID **SVMS5** Method: **SW846 8270D**

MSD				Sample ID: 1504937-17B MSD			Units: µg/L		Analysis Date: 4/21/2015 09:10 PM	
Client ID: WG-017360-041515-MR-043				Run ID: SVMS5_150421A			SeqNo: 3237655		Prep Date: 4/21/2015	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	16.53	5.0	20	0	82.6	30-120	15.57	5.98	30	
2,4,5-Trichlorophenol	18.07	5.0	20	0	90.4	50-110	16.91	6.63	30	
2,4,6-Trichlorophenol	18.84	5.0	20	0	94.2	50-115	17.21	9.04	30	
2,4-Dichlorophenol	17.88	5.0	20	0	89.4	50-105	16.63	7.24	30	
2,4-Dimethylphenol	17.94	5.0	20	1.28	83.3	30-110	17.12	4.68	30	
2,4-Dinitrophenol	24.57	5.0	20	0	123	15-140	21.64	12.7	30	
2,4-Dinitrotoluene	21.09	5.0	20	0	105	50-120	21.51	1.97	30	
2,6-Dinitrotoluene	18.86	5.0	20	0	94.3	50-115	17.93	5.06	30	
2-Chloronaphthalene	14.89	5.0	20	0	74.4	50-105	13.84	7.31	30	
2-Chlorophenol	14.51	5.0	20	0	72.6	35-105	14.37	0.97	30	
2-Methylnaphthalene	15.71	5.0	20	0	78.6	45-105	15.51	1.28	30	
2-Methylphenol	13.11	5.0	20	0	65.6	40-110	13.61	3.74	30	
2-Nitroaniline	20.84	5.0	20	0	104	50-115	19.45	6.9	30	
2-Nitrophenol	16.76	5.0	20	0	83.8	40-115	16.03	4.45	30	
3&4-Methylphenol	12.73	5.0	20	0	63.6	30-110	12.97	1.87	30	
3-Nitroaniline	9.72	5.0	20	0	48.6	20-125	8.62	12	30	
4,6-Dinitro-2-methylphenol	20.63	5.0	20	0	103	40-130	17.94	13.9	30	
4-Bromophenyl phenyl ether	14.58	5.0	20	0	72.9	50-115	14.48	0.688	30	
4-Chloro-3-methylphenol	19.64	5.0	20	0	98.2	45-110	19.13	2.63	30	
4-Chloroaniline	13.09	5.0	20	0	65.4	15-110	13.01	0.613	30	
4-Chlorophenyl phenyl ether	15.46	5.0	20	0	77.3	50-110	14.9	3.69	30	
4-Nitroaniline	9.84	5.0	20	3.24	33	35-150	10.57	7.15	30	S
4-Nitrophenol	10.47	5.0	20	0	52.4	1-58	9.63	8.36	30	
Acenaphthene	15.75	5.0	20	0	78.8	45-110	15.07	4.41	30	
Acenaphthylene	14.52	5.0	20	0	72.6	50-105	14.14	2.65	30	
Acetophenone	17.26	1.0	20	0	86.3	30-120	16.8	2.7	30	
Anthracene	15.97	5.0	20	0	79.8	55-110	15.76	1.32	30	
Atrazine	7.95	1.0	20	0	39.8	30-120	6.46	20.7	30	
Benzaldehyde	22.97	1.0	20	0	115	30-120	23.32	1.51	30	
Benzo(a)anthracene	16.07	5.0	20	0	80.4	55-110	15.94	0.812	30	
Benzo(a)pyrene	16.88	5.0	20	0	84.4	55-110	16.66	1.31	30	
Benzo(b)fluoranthene	16.07	5.0	20	0	80.4	45-120	15.63	2.78	30	
Benzo(g,h,i)perylene	15.2	5.0	20	0	76	40-125	14.79	2.73	30	
Benzo(k)fluoranthene	15.75	5.0	20	0	78.8	45-125	15.41	2.18	30	
Bis(2-chloroethoxy)methane	15.1	5.0	20	0	75.5	45-105	14.66	2.96	30	
Bis(2-chloroethyl)ether	18.06	5.0	20	0	90.3	35-110	12.49	36.5	30	R
Bis(2-chloroisopropyl)ether	14.4	5.0	20	0	72	25-130	14.44	0.277	30	
Bis(2-ethylhexyl)phthalate	18.9	5.0	20	0	94.5	40-125	18.35	2.95	30	
Butyl benzyl phthalate	17.3	5.0	20	0	86.5	45-115	17.09	1.22	30	
Carbazole	18.04	5.0	20	0	90.2	50-150	18.24	1.1	30	
Chrysene	15.21	5.0	20	0	76	55-110	14.74	3.14	30	
Dibenzo(a,h)anthracene	16.2	5.0	20	0	81	40-125	15.98	1.37	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: 70065		Instrument ID SVMS5		Method: SW846 8270D					
Dibenzofuran	17.61	5.0	20	0	88	55-105	16.73	5.13	30
Diethyl phthalate	17.84	5.0	20	0	89.2	40-120	16.4	8.41	30
Dimethyl phthalate	15.76	5.0	20	0	78.8	25-125	15.1	4.28	30
Di-n-butyl phthalate	17.24	5.0	20	0	86.2	55-115	16.88	2.11	30
Di-n-octyl phthalate	17.37	5.0	20	0	86.8	35-135	17.01	2.09	30
Fluoranthene	16.8	5.0	20	0	84	55-115	16.8	0	30
Fluorene	17.86	5.0	20	1.95	79.6	50-110	16.87	5.7	30
Hexachlorobenzene	14.63	5.0	20	0	73.2	50-110	14	4.4	30
Hexachlorobutadiene	13.69	5.0	20	0	68.4	25-105	13.51	1.32	30
Hexachlorocyclopentadiene	11.5	5.0	20	0	57.5	25-105	11.52	0.174	30
Hexachloroethane	18.57	5.0	20	0	92.8	30-95	18.48	0.486	30
Indeno(1,2,3-cd)pyrene	17.23	5.0	20	0	86.2	45-125	16.71	3.06	30
Isophorone	18.05	5.0	20	0	90.2	50-110	16.36	9.82	30
Naphthalene	11.92	5.0	20	4.99	34.6	40-100	11.08	7.3	30 S
Nitrobenzene	14.21	5.0	20	0	71	45-110	14.2	0.0704	30
N-Nitrosodi-n-propylamine	17.77	5.0	20	0	88.8	35-130	17.06	4.08	30
N-Nitrosodiphenylamine	15.97	5.0	20	0	79.8	50-110	15.18	5.07	30
Pentachlorophenol	31.49	5.0	20	0	157	40-115	31.7	0.665	30 S
Phenanthrene	16.13	5.0	20	0	80.6	50-115	15.74	2.45	30
Phenol	6.95	5.0	20	0	34.8	12-43	6.83	1.74	30
Pyrene	16.46	5.0	20	0	82.3	50-130	16.2	1.59	30
<i>Surr: 2,4,6-Tribromophenol</i>	<i>39.87</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>79.7</i>	<i>38-115</i>	<i>38.28</i>	<i>4.07</i>	<i>40</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>30.63</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>61.3</i>	<i>32-100</i>	<i>30.66</i>	<i>0.0979</i>	<i>40</i>
<i>Surr: 2-Fluorophenol</i>	<i>19.59</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>39.2</i>	<i>22-59</i>	<i>19.9</i>	<i>1.57</i>	<i>40</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>42.51</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>85</i>	<i>23-112</i>	<i>42.61</i>	<i>0.235</i>	<i>40</i>
<i>Surr: Nitrobenzene-d5</i>	<i>35.79</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>71.6</i>	<i>31-93</i>	<i>34.95</i>	<i>2.37</i>	<i>40</i>
<i>Surr: Phenol-d6</i>	<i>14.01</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>28</i>	<i>13-36</i>	<i>14.2</i>	<i>1.35</i>	<i>40</i>

The following samples were analyzed in this batch:

1504937-17B	1504937-18B	1504937-19B
1504937-20B	1504937-21B	1504937-22B
1504937-23B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162024** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: VLKW1-150424-R162024				Units: µg/L		Analysis Date: 4/24/2015 05:17 PM		
Client ID:		Run ID: VMS9_150424A				SeqNo: 3242063		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162024		Instrument ID VMS9		Method: SW8260				
trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	U	1.0						
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.24</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.73</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.6</i>	<i>80-110</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>20</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.26</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.3</i>	<i>85-110</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162024** Instrument ID **VMS9** Method: **SW8260**

LCS		Sample ID: VLCSW1-150424-R162024				Units: µg/L		Analysis Date: 4/24/2015 04:01 PM		
Client ID:		Run ID: VMS9_150424A				SeqNo: 3242062		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.8	1.0	20	0	104	75-130	0			
1,1,2,2-Tetrachloroethane	20.41	1.0	20	0	102	75-130	0			
1,1,2-Trichloroethane	20.35	1.0	20	0	102	75-125	0			
1,1-Dichloroethane	23.36	1.0	20	0	117	75-133	0			
1,1-Dichloroethene	25.45	1.0	20	0	127	70-145	0			
1,2,4-Trichlorobenzene	20.5	1.0	20	0	102	70-135	0			
1,2-Dibromo-3-chloropropane	18.48	1.0	20	0	92.4	60-130	0			
1,2-Dibromoethane	21.88	1.0	20	0	109	80-150	0			
1,2-Dichlorobenzene	19.41	1.0	20	0	97	70-130	0			
1,2-Dichloroethane	21.2	1.0	20	0	106	78-125	0			
1,2-Dichloropropane	19.81	1.0	20	0	99	75-125	0			
1,3-Dichlorobenzene	20.6	1.0	20	0	103	75-130	0			
1,4-Dichlorobenzene	19.67	1.0	20	0	98.4	75-130	0			
2-Butanone	20.42	5.0	20	0	102	55-150	0			
2-Hexanone	15.7	5.0	20	0	78.5	60-135	0			
4-Methyl-2-pentanone	15.97	1.0	20	0	79.8	77-178	0			
Acetone	19.74	10	20	0	98.7	60-160	0			
Benzene	20.47	1.0	20	0	102	85-125	0			
Bromodichloromethane	19.89	1.0	20	0	99.4	75-125	0			
Bromoform	20.88	1.0	20	0	104	60-125	0			
Bromomethane	23.8	1.0	20	0	119	30-185	0			
Carbon disulfide	22.35	1.0	20	0	112	60-165	0			
Carbon tetrachloride	21.04	1.0	20	0	105	65-140	0			
Chlorobenzene	20.46	1.0	20	0	102	80-120	0			
Chloroethane	26.72	1.0	20	0	134	50-140	0			
Chloroform	20.6	1.0	20	0	103	80-130	0			
Chloromethane	20.96	1.0	20	0	105	50-130	0			
cis-1,2-Dichloroethene	21.68	1.0	20	0	108	75-134	0			
cis-1,3-Dichloropropene	19.96	1.0	20	0	99.8	70-130	0			
Dibromochloromethane	19.83	1.0	20	0	99.2	60-115	0			
Dichlorodifluoromethane	20.23	1.0	20	0	101	20-120	0			
Ethylbenzene	21.42	1.0	20	0	107	85-125	0			
Isopropylbenzene	22.89	1.0	20	0	114	80-127	0			
Methyl tert-butyl ether	19.82	1.0	20	0	99.1	80-130	0			
Methylene chloride	24.13	5.0	20	0	121	75-140	0			
Styrene	22.73	1.0	20	0	114	85-125	0			
Tetrachloroethene	23.64	1.0	20	0	118	77-138	0			
Toluene	20.68	1.0	20	0	103	85-125	0			
trans-1,2-Dichloroethene	23.91	1.0	20	0	120	80-140	0			
trans-1,3-Dichloropropene	20.94	1.0	20	0	105	81-123	0			
Trichloroethene	21.05	1.0	20	0	105	84-130	0			
Trichlorofluoromethane	21.25	1.0	20	0	106	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162024		Instrument ID VMS9		Method: SW8260			
Vinyl chloride	20.53	1.0	20	0	103	50-136	0
Xylenes, Total	64.85	3.0	60	0	108	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.96</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.77</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.1</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.84</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.2</i>	<i>85-110</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162024** Instrument ID **VMS9** Method: **SW8260**

MS				Sample ID: 1504937-05A MS			Units: µg/L		Analysis Date: 4/25/2015 02:13 AM	
Client ID: WG-017360-041315-MR-031				Run ID: VMS9_150424A			SeqNo: 3242078		Prep Date:	
									DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	114	5.0	100	0	114	75-130	0			
1,1,2,2-Tetrachloroethane	96.65	5.0	100	0	96.6	75-130	0			
1,1,2-Trichloroethane	108.9	5.0	100	0	109	75-125	0			
1,1-Dichloroethane	125.8	5.0	100	0	126	75-133	0			
1,1-Dichloroethene	136.4	5.0	100	0	136	70-145	0			
1,2,4-Trichlorobenzene	92.35	5.0	100	0	92.4	70-135	0			
1,2-Dibromo-3-chloropropane	94.05	5.0	100	0	94	60-130	0			
1,2-Dibromoethane	104.2	5.0	100	0	104	80-150	0			
1,2-Dichlorobenzene	102.5	5.0	100	0	102	70-130	0			
1,2-Dichloroethane	108.4	5.0	100	0	108	78-125	0			
1,2-Dichloropropane	104.6	5.0	100	0	105	75-125	0			
1,3-Dichlorobenzene	104.6	5.0	100	0	105	75-130	0			
1,4-Dichlorobenzene	100.8	5.0	100	0	101	75-130	0			
2-Butanone	106.4	25	100	0	106	55-150	0			
2-Hexanone	74.6	25	100	0	74.6	60-135	0			
4-Methyl-2-pentanone	76.15	5.0	100	0	76.2	77-178	0			S
Acetone	101.2	50	100	0	101	60-160	0			
Benzene	109.6	5.0	100	0	110	85-125	0			
Bromodichloromethane	104.8	5.0	100	0	105	75-125	0			
Bromoform	104.9	5.0	100	0	105	60-125	0			
Bromomethane	89.9	5.0	100	0	89.9	30-185	0			
Carbon disulfide	113.4	5.0	100	0	113	60-165	0			
Carbon tetrachloride	115.6	5.0	100	0	116	65-140	0			
Chlorobenzene	100.4	5.0	100	0	100	80-120	0			
Chloroethane	147.4	5.0	100	0	147	50-140	0			S
Chloroform	104	5.0	100	0	104	80-130	0			
Chloromethane	102.1	5.0	100	0	102	50-130	0			
cis-1,2-Dichloroethene	117.9	5.0	100	0	118	75-134	0			
cis-1,3-Dichloropropene	100.4	5.0	100	0	100	70-130	0			
Dibromochloromethane	96.7	5.0	100	0	96.7	60-115	0			
Dichlorodifluoromethane	106.4	5.0	100	0	106	20-120	0			
Ethylbenzene	106.2	5.0	100	0	106	85-125	0			
Isopropylbenzene	110.4	5.0	100	0	110	80-127	0			
Methyl tert-butyl ether	98.95	5.0	100	0	99	80-130	0			
Methylene chloride	123.5	25	100	0	124	75-140	0			
Styrene	116.6	5.0	100	0	117	85-125	0			
Tetrachloroethene	118	5.0	100	0	118	77-138	0			
Toluene	105.7	5.0	100	0	106	85-125	0			
trans-1,2-Dichloroethene	121.3	5.0	100	0	121	80-140	0			
trans-1,3-Dichloropropene	101.6	5.0	100	0	102	81-123	0			
Trichloroethene	116.4	5.0	100	0	116	84-130	0			
Trichlorofluoromethane	117.1	5.0	100	0	117	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162024	Instrument ID VMS9		Method: SW8260				
Vinyl chloride	104	5.0	100	0	104	50-136	0
Xylenes, Total	322.2	15	300	0	107	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	105.6	0	100	0	106	75-120	0
<i>Surr: 4-Bromofluorobenzene</i>	101.7	0	100	0	102	80-110	0
<i>Surr: Dibromofluoromethane</i>	102.8	0	100	0	103	85-115	0
<i>Surr: Toluene-d8</i>	97.4	0	100	0	97.4	85-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162024** Instrument ID **VMS9** Method: **SW8260**

MSD					Sample ID: 1504937-05A MSD			Units: µg/L		Analysis Date: 4/25/2015 02:38 AM	
Client ID: WG-017360-041315-MR-031			Run ID: VMS9_150424A			SeqNo: 3242079		Prep Date:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	108.1	5.0	100	0	108	75-130	114	5.31	30		
1,1,2,2-Tetrachloroethane	92.65	5.0	100	0	92.6	75-130	96.65	4.23	30		
1,1,2-Trichloroethane	101.8	5.0	100	0	102	75-125	108.9	6.79	30		
1,1-Dichloroethane	119	5.0	100	0	119	75-133	125.8	5.56	30		
1,1-Dichloroethene	127.3	5.0	100	0	127	70-145	136.4	6.94	30		
1,2,4-Trichlorobenzene	90.4	5.0	100	0	90.4	70-135	92.35	2.13	30		
1,2-Dibromo-3-chloropropane	91.9	5.0	100	0	91.9	60-130	94.05	2.31	30		
1,2-Dibromoethane	103.2	5.0	100	0	103	80-150	104.2	1.01	30		
1,2-Dichlorobenzene	94.75	5.0	100	0	94.8	70-130	102.5	7.86	30		
1,2-Dichloroethane	102.6	5.0	100	0	103	78-125	108.4	5.45	30		
1,2-Dichloropropane	97.45	5.0	100	0	97.4	75-125	104.6	7.08	30		
1,3-Dichlorobenzene	99.95	5.0	100	0	100	75-130	104.6	4.55	30		
1,4-Dichlorobenzene	95.7	5.0	100	0	95.7	75-130	100.8	5.14	30		
2-Butanone	103.2	25	100	0	103	55-150	106.4	3.05	30		
2-Hexanone	70.4	25	100	0	70.4	60-135	74.6	5.79	30		
4-Methyl-2-pentanone	74.5	5.0	100	0	74.5	77-178	76.15	2.19	30	S	
Acetone	100.7	50	100	0	101	60-160	101.2	0.495	30		
Benzene	101.6	5.0	100	0	102	85-125	109.6	7.62	30		
Bromodichloromethane	97.45	5.0	100	0	97.4	75-125	104.8	7.22	30		
Bromoform	101.2	5.0	100	0	101	60-125	104.9	3.59	30		
Bromomethane	96.4	5.0	100	0	96.4	30-185	89.9	6.98	30		
Carbon disulfide	111.6	5.0	100	0	112	60-165	113.4	1.6	30		
Carbon tetrachloride	106.2	5.0	100	0	106	65-140	115.6	8.52	30		
Chlorobenzene	100.4	5.0	100	0	100	80-120	100.4	0.0498	30		
Chloroethane	143.2	5.0	100	0	143	50-140	147.4	2.89	30	S	
Chloroform	98.5	5.0	100	0	98.5	80-130	104	5.38	30		
Chloromethane	99.05	5.0	100	0	99	50-130	102.1	3.03	30		
cis-1,2-Dichloroethene	110.4	5.0	100	0	110	75-134	117.9	6.62	30		
cis-1,3-Dichloropropene	94.6	5.0	100	0	94.6	70-130	100.4	5.95	30		
Dibromochloromethane	93.65	5.0	100	0	93.6	60-115	96.7	3.2	30		
Dichlorodifluoromethane	102.8	5.0	100	0	103	20-120	106.4	3.49	30		
Ethylbenzene	104.2	5.0	100	0	104	85-125	106.2	2	30		
Isopropylbenzene	109	5.0	100	0	109	80-127	110.4	1.28	30		
Methyl tert-butyl ether	96.15	5.0	100	0	96.2	80-130	98.95	2.87	30		
Methylene chloride	121.5	25	100	0	122	75-140	123.5	1.63	30		
Styrene	112.3	5.0	100	0	112	85-125	116.6	3.8	30		
Tetrachloroethene	116.1	5.0	100	0	116	77-138	118	1.58	30		
Toluene	103.6	5.0	100	0	104	85-125	105.7	2.05	30		
trans-1,2-Dichloroethene	120.2	5.0	100	0	120	80-140	121.3	0.869	30		
trans-1,3-Dichloropropene	97.15	5.0	100	0	97.2	81-123	101.6	4.48	30		
Trichloroethene	106.2	5.0	100	0	106	84-130	116.4	9.16	30		
Trichlorofluoromethane	110.8	5.0	100	0	111	60-140	117.1	5.48	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162024	Instrument ID VMS9			Method: SW8260					
Vinyl chloride	99.25	5.0	100	0	99.2	50-136	104	4.72	30
Xylenes, Total	313.2	15	300	0	104	80-126	322.2	2.83	30
Surr: 1,2-Dichloroethane-d4	100.6	0	100	0	101	75-120	105.6	4.8	30
Surr: 4-Bromofluorobenzene	103.8	0	100	0	104	80-110	101.7	2.09	30
Surr: Dibromofluoromethane	102	0	100	0	102	85-115	102.8	0.781	30
Surr: Toluene-d8	99.25	0	100	0	99.2	85-110	97.4	1.88	30

The following samples were analyzed in this batch:	1504937-01A	1504937-02A	1504937-03A
	1504937-04A	1504937-05A	1504937-06A
	1504937-07A	1504937-08A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162045** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: VLKW2-150424-R162045				Units: µg/L		Analysis Date: 4/24/2015 11:06 PM		
Client ID:		Run ID: VMS7_150424B				SeqNo: 3242494		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162045		Instrument ID VMS7		Method: SW8260				
trans-1,2-Dichloroethene		U	1.0					
trans-1,3-Dichloropropene		U	1.0					
Trichloroethene		U	1.0					
Trichlorofluoromethane		U	1.0					
Vinyl chloride		U	1.0					
Xylenes, Total		U	3.0					
Surr: 1,2-Dichloroethane-d4		20.09	0	20	0	100	75-120	0
Surr: 4-Bromofluorobenzene		19.91	0	20	0	99.6	80-110	0
Surr: Dibromofluoromethane		19.96	0	20	0	99.8	85-115	0
Surr: Toluene-d8		20.07	0	20	0	100	85-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162045** Instrument ID **VMS7** Method: **SW8260**

LCS		Sample ID: VLCSW2-150424-R162045				Units: µg/L		Analysis Date: 4/24/2015 09:52 PM		
Client ID:		Run ID: VMS7_150424B				SeqNo: 3242492		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	21.28	1.0	20	0	106	75-130	0			
1,1,2,2-Tetrachloroethane	18.59	1.0	20	0	93	75-130	0			
1,1,2-Trichloroethane	19.03	1.0	20	0	95.2	75-125	0			
1,1-Dichloroethane	20.52	1.0	20	0	103	75-133	0			
1,1-Dichloroethene	21.95	1.0	20	0	110	70-145	0			
1,2,4-Trichlorobenzene	22.71	1.0	20	0	114	70-135	0			
1,2-Dibromo-3-chloropropane	19.84	1.0	20	0	99.2	60-130	0			
1,2-Dibromoethane	25.83	1.0	20	0	129	80-150	0			
1,2-Dichlorobenzene	20.16	1.0	20	0	101	70-130	0			
1,2-Dichloroethane	20.55	1.0	20	0	103	78-125	0			
1,2-Dichloropropane	19.47	1.0	20	0	97.4	75-125	0			
1,3-Dichlorobenzene	19.95	1.0	20	0	99.8	75-130	0			
1,4-Dichlorobenzene	19.75	1.0	20	0	98.8	75-130	0			
2-Butanone	14.97	5.0	20	0	74.8	55-150	0			
2-Hexanone	15.3	5.0	20	0	76.5	60-135	0			
4-Methyl-2-pentanone	20.01	1.0	20	0	100	77-178	0			
Acetone	15.91	10	20	0	79.6	60-160	0			
Benzene	20.17	1.0	20	0	101	85-125	0			
Bromodichloromethane	20.38	1.0	20	0	102	75-125	0			
Bromoform	19.35	1.0	20	0	96.8	60-125	0			
Bromomethane	21.64	1.0	20	0	108	30-185	0			
Carbon disulfide	19.59	1.0	20	0	98	60-165	0			
Carbon tetrachloride	20.04	1.0	20	0	100	65-140	0			
Chlorobenzene	19.91	1.0	20	0	99.6	80-120	0			
Chloroethane	22.48	1.0	20	0	112	50-140	0			
Chloroform	20.33	1.0	20	0	102	80-130	0			
Chloromethane	24.02	1.0	20	0	120	50-130	0			
cis-1,2-Dichloroethene	20.41	1.0	20	0	102	75-134	0			
cis-1,3-Dichloropropene	18.71	1.0	20	0	93.6	70-130	0			
Dibromochloromethane	19.26	1.0	20	0	96.3	60-115	0			
Dichlorodifluoromethane	18.55	1.0	20	0	92.8	20-120	0			
Ethylbenzene	20.32	1.0	20	0	102	85-125	0			
Isopropylbenzene	20.01	1.0	20	0	100	80-127	0			
Methyl tert-butyl ether	16.23	1.0	20	0	81.2	80-130	0			
Methylene chloride	20.7	5.0	20	0	104	75-140	0			
Styrene	20.61	1.0	20	0	103	85-125	0			
Tetrachloroethene	19.83	1.0	20	0	99.2	77-138	0			
Toluene	20.12	1.0	20	0	101	85-125	0			
trans-1,2-Dichloroethene	21.27	1.0	20	0	106	80-140	0			
trans-1,3-Dichloropropene	19.95	1.0	20	0	99.8	81-123	0			
Trichloroethene	20.51	1.0	20	0	103	84-130	0			
Trichlorofluoromethane	20.04	1.0	20	0	100	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162045	Instrument ID VMS7		Method: SW8260				
Vinyl chloride	19.34	1.0	20	0	96.7	50-136	0
Xylenes, Total	60.25	3.0	60	0	100	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.81</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.25</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.96</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>85-110</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162045** Instrument ID **VMS7** Method: **SW8260**

MS					Sample ID: 1504937-13A MS		Units: µg/L		Analysis Date: 4/25/2015 07:49 AM		
Client ID: WG-017360-041415-MR-039			Run ID: VMS7_150424B			SeqNo: 3242514		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	24.29	1.0	20	0	121	75-130	0				
1,1,2,2-Tetrachloroethane	20.74	1.0	20	0	104	75-130	0				
1,1,2-Trichloroethane	21.7	1.0	20	0	108	75-125	0				
1,1-Dichloroethane	23.64	1.0	20	0	118	75-133	0				
1,1-Dichloroethene	26.03	1.0	20	0	130	70-145	0				
1,2,4-Trichlorobenzene	19.13	1.0	20	0	95.6	70-135	0				
1,2-Dibromo-3-chloropropane	19.67	1.0	20	0	98.4	60-130	0				
1,2-Dibromoethane	28.58	1.0	20	0	143	80-150	0				
1,2-Dichlorobenzene	22.22	1.0	20	0	111	70-130	0				
1,2-Dichloroethane	22.75	1.0	20	0	114	78-125	0				
1,2-Dichloropropane	22.38	1.0	20	0	112	75-125	0				
1,3-Dichlorobenzene	22.03	1.0	20	0	110	75-130	0				
1,4-Dichlorobenzene	21.47	1.0	20	0	107	75-130	0				
2-Butanone	16.87	5.0	20	0	84.4	55-150	0				
2-Hexanone	18.29	5.0	20	0	91.4	60-135	0				
4-Methyl-2-pentanone	22.7	1.0	20	0	114	77-178	0				
Acetone	18.5	10	20	0	92.5	60-160	0				
Benzene	23.15	1.0	20	0	116	85-125	0				
Bromodichloromethane	22.69	1.0	20	0	113	75-125	0				
Bromoform	20.11	1.0	20	0	101	60-125	0				
Bromomethane	19.95	1.0	20	0	99.8	30-185	0				
Carbon disulfide	22.59	1.0	20	0	113	60-165	0				
Carbon tetrachloride	23.25	1.0	20	0	116	65-140	0				
Chlorobenzene	22.54	1.0	20	0	113	80-120	0				
Chloroethane	26.04	1.0	20	0	130	50-140	0				
Chloroform	23.42	1.0	20	0	117	80-130	0				
Chloromethane	27.17	1.0	20	0	136	50-130	0			S	
cis-1,2-Dichloroethene	23.05	1.0	20	0	115	75-134	0				
cis-1,3-Dichloropropene	20.31	1.0	20	0	102	70-130	0				
Dibromochloromethane	20.93	1.0	20	0	105	60-115	0				
Dichlorodifluoromethane	20.17	1.0	20	0	101	20-120	0				
Ethylbenzene	23.02	1.0	20	0	115	85-125	0				
Isopropylbenzene	23.34	1.0	20	0	117	80-127	0				
Methyl tert-butyl ether	18.86	1.0	20	0	94.3	80-130	0				
Methylene chloride	23.75	5.0	20	0	119	75-140	0				
Styrene	22.92	1.0	20	0	115	85-125	0				
Tetrachloroethene	26.76	1.0	20	3.75	115	77-138	0				
Toluene	23.22	1.0	20	0	116	85-125	0				
trans-1,2-Dichloroethene	24.32	1.0	20	0	122	80-140	0				
trans-1,3-Dichloropropene	21.6	1.0	20	0	108	81-123	0				
Trichloroethene	24.03	1.0	20	0.88	116	84-130	0				
Trichlorofluoromethane	23.69	1.0	20	0	118	60-140	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162045		Instrument ID VMS7		Method: SW8260			
Vinyl chloride	22.57	1.0	20	0	113	50-136	0
Xylenes, Total	69.01	3.0	60	0	115	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.84</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.2</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.41</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.84</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.2</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20.26</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-110</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162045** Instrument ID **VMS7** Method: **SW8260**

MSD				Sample ID: 1504937-13A MSD			Units: µg/L		Analysis Date: 4/25/2015 08:13 AM	
Client ID: WG-017360-041415-MR-039				Run ID: VMS7_150424B			SeqNo: 3242515		Prep Date:	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	23.56	1.0	20	0	118	75-130	24.29	3.05	30	
1,1,2,2-Tetrachloroethane	20.27	1.0	20	0	101	75-130	20.74	2.29	30	
1,1,2-Trichloroethane	20.87	1.0	20	0	104	75-125	21.7	3.9	30	
1,1-Dichloroethane	22.48	1.0	20	0	112	75-133	23.64	5.03	30	
1,1-Dichloroethene	24.99	1.0	20	0	125	70-145	26.03	4.08	30	
1,2,4-Trichlorobenzene	21.58	1.0	20	0	108	70-135	19.13	12	30	
1,2-Dibromo-3-chloropropane	19.94	1.0	20	0	99.7	60-130	19.67	1.36	30	
1,2-Dibromoethane	26.86	1.0	20	0	134	80-150	28.58	6.2	30	
1,2-Dichlorobenzene	21.29	1.0	20	0	106	70-130	22.22	4.27	30	
1,2-Dichloroethane	21.92	1.0	20	0	110	78-125	22.75	3.72	30	
1,2-Dichloropropane	21.21	1.0	20	0	106	75-125	22.38	5.37	30	
1,3-Dichlorobenzene	21.16	1.0	20	0	106	75-130	22.03	4.03	30	
1,4-Dichlorobenzene	21.2	1.0	20	0	106	75-130	21.47	1.27	30	
2-Butanone	16.37	5.0	20	0	81.8	55-150	16.87	3.01	30	
2-Hexanone	17.48	5.0	20	0	87.4	60-135	18.29	4.53	30	
4-Methyl-2-pentanone	22.2	1.0	20	0	111	77-178	22.7	2.23	30	
Acetone	19.63	10	20	0	98.2	60-160	18.5	5.93	30	
Benzene	22.49	1.0	20	0	112	85-125	23.15	2.89	30	
Bromodichloromethane	22.13	1.0	20	0	111	75-125	22.69	2.5	30	
Bromoform	19.28	1.0	20	0	96.4	60-125	20.11	4.21	30	
Bromomethane	21.37	1.0	20	0	107	30-185	19.95	6.87	30	
Carbon disulfide	21.58	1.0	20	0	108	60-165	22.59	4.57	30	
Carbon tetrachloride	22.7	1.0	20	0	114	65-140	23.25	2.39	30	
Chlorobenzene	21.47	1.0	20	0	107	80-120	22.54	4.86	30	
Chloroethane	25.07	1.0	20	0	125	50-140	26.04	3.8	30	
Chloroform	22.48	1.0	20	0	112	80-130	23.42	4.1	30	
Chloromethane	26.55	1.0	20	0	133	50-130	27.17	2.31	30	S
cis-1,2-Dichloroethene	22.07	1.0	20	0	110	75-134	23.05	4.34	30	
cis-1,3-Dichloropropene	19.94	1.0	20	0	99.7	70-130	20.31	1.84	30	
Dibromochloromethane	19.99	1.0	20	0	100	60-115	20.93	4.59	30	
Dichlorodifluoromethane	20.28	1.0	20	0	101	20-120	20.17	0.544	30	
Ethylbenzene	21.97	1.0	20	0	110	85-125	23.02	4.67	30	
Isopropylbenzene	21.89	1.0	20	0	109	80-127	23.34	6.41	30	
Methyl tert-butyl ether	17.81	1.0	20	0	89	80-130	18.86	5.73	30	
Methylene chloride	22.79	5.0	20	0	114	75-140	23.75	4.13	30	
Styrene	21.77	1.0	20	0	109	85-125	22.92	5.15	30	
Tetrachloroethene	25.58	1.0	20	3.75	109	77-138	26.76	4.51	30	
Toluene	21.91	1.0	20	0	110	85-125	23.22	5.81	30	
trans-1,2-Dichloroethene	23.32	1.0	20	0	117	80-140	24.32	4.2	30	
trans-1,3-Dichloropropene	20.42	1.0	20	0	102	81-123	21.6	5.62	30	
Trichloroethene	23.66	1.0	20	0.88	114	84-130	24.03	1.55	30	
Trichlorofluoromethane	22.53	1.0	20	0	113	60-140	23.69	5.02	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162045	Instrument ID VMS7			Method: SW8260					
Vinyl chloride	21.3	1.0	20	0	106	50-136	22.57	5.79	30
Xylenes, Total	65.32	3.0	60	0	109	80-126	69.01	5.49	30
Surr: 1,2-Dichloroethane-d4	19.96	0	20	0	99.8	75-120	19.84	0.603	30
Surr: 4-Bromofluorobenzene	20.14	0	20	0	101	80-110	20.41	1.33	30
Surr: Dibromofluoromethane	20.13	0	20	0	101	85-115	19.84	1.45	30
Surr: Toluene-d8	19.79	0	20	0	99	85-110	20.26	2.35	30

The following samples were analyzed in this batch:	1504937-09A	1504937-10A	1504937-11A
	1504937-12A	1504937-13A	1504937-14A
	1504937-15A	1504937-16A	1504937-18A
	1504937-19A	1504937-20A	1504937-21A
	1504937-22A	1504937-23A	1504937-24A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162069A** Instrument ID **VMS5** Method: **SW8260**

MBLK		Sample ID: VLKW1-150426-R162069A				Units: µg/L		Analysis Date: 4/26/2015 01:38 PM		
Client ID:		Run ID: VMS5_150426A				SeqNo: 3243271		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162069A	Instrument ID VMS5	Method: SW8260						
trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	U	1.0						
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.24</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.2</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.37</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.8</i>	<i>80-110</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>19.54</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.7</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.59</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98</i>	<i>85-110</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162069A** Instrument ID **VMS5** Method: **SW8260**

LCS		Sample ID: VLCSW1-150426-R162069A				Units: µg/L		Analysis Date: 4/26/2015 12:21 PM		
Client ID:		Run ID: VMS5_150426A				SeqNo: 3243266		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	21.78	1.0	20	0	109	75-130	0			
1,1,2,2-Tetrachloroethane	23.27	1.0	20	0	116	75-130	0			
1,1,2-Trichloroethane	21.8	1.0	20	0	109	75-125	0			
1,1-Dichloroethane	21.46	1.0	20	0	107	75-133	0			
1,1-Dichloroethene	21.9	1.0	20	0	110	70-145	0			
1,2,4-Trichlorobenzene	22.25	1.0	20	0	111	70-135	0			
1,2-Dibromo-3-chloropropane	27.95	1.0	20	0	140	60-130	0			S
1,2-Dibromoethane	24.4	1.0	20	0	122	80-150	0			
1,2-Dichlorobenzene	21.15	1.0	20	0	106	70-130	0			
1,2-Dichloroethane	20.96	1.0	20	0	105	78-125	0			
1,2-Dichloropropane	20.76	1.0	20	0	104	75-125	0			
1,3-Dichlorobenzene	21.6	1.0	20	0	108	75-130	0			
1,4-Dichlorobenzene	21.2	1.0	20	0	106	75-130	0			
2-Butanone	24.82	5.0	20	0	124	55-150	0			
2-Hexanone	24.68	5.0	20	0	123	60-135	0			
4-Methyl-2-pentanone	32.14	1.0	20	0	161	77-178	0			
Acetone	25.79	10	20	0	129	60-160	0			
Benzene	21.32	1.0	20	0	107	85-125	0			
Bromodichloromethane	21.35	1.0	20	0	107	75-125	0			
Bromoform	21.53	1.0	20	0	108	60-125	0			
Bromomethane	27.73	1.0	20	0	139	30-185	0			
Carbon disulfide	19.99	1.0	20	0	100	60-165	0			
Carbon tetrachloride	21.67	1.0	20	0	108	65-140	0			
Chlorobenzene	21.65	1.0	20	0	108	80-120	0			
Chloroethane	20.01	1.0	20	0	100	50-140	0			
Chloroform	21.03	1.0	20	0	105	80-130	0			
Chloromethane	19.74	1.0	20	0	98.7	50-130	0			
cis-1,2-Dichloroethene	21.51	1.0	20	0	108	75-134	0			
cis-1,3-Dichloropropene	22.29	1.0	20	0	111	70-130	0			
Dibromochloromethane	22.02	1.0	20	0	110	60-115	0			
Dichlorodifluoromethane	20.5	1.0	20	0	102	20-120	0			
Ethylbenzene	21.82	1.0	20	0	109	85-125	0			
Isopropylbenzene	22.92	1.0	20	0	115	80-127	0			
Methyl tert-butyl ether	20.61	1.0	20	0	103	80-130	0			
Methylene chloride	22	5.0	20	0	110	75-140	0			
Styrene	23.13	1.0	20	0	116	85-125	0			
Tetrachloroethene	22.23	1.0	20	0	111	77-138	0			
Toluene	21.67	1.0	20	0	108	85-125	0			
trans-1,2-Dichloroethene	21.23	1.0	20	0	106	80-140	0			
trans-1,3-Dichloropropene	22.93	1.0	20	0	115	81-123	0			
Trichloroethene	21.92	1.0	20	0	110	84-130	0			
Trichlorofluoromethane	19.68	1.0	20	0	98.4	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162069A		Instrument ID VMS5		Method: SW8260			
Vinyl chloride	19.19	1.0	20	0	96	50-136	0
Xylenes, Total	66.62	3.0	60	0	111	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.07</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.4</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.1</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.33</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.6</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.86</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.3</i>	<i>85-110</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162069A** Instrument ID **VMS5** Method: **SW8260**

MS					Sample ID: 1504937-17A MS		Units: µg/L		Analysis Date: 4/26/2015 10:13 PM		
Client ID: WG-017360-041515-MR-043			Run ID: VMS5_150426A			SeqNo: 3243287		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	22.32	1.0	20	0	112	75-130		0			
1,1,2,2-Tetrachloroethane	20.21	1.0	20	0	101	75-130		0			
1,1,2-Trichloroethane	21.36	1.0	20	0	107	75-125		0			
1,1-Dichloroethane	20.34	1.0	20	0	102	75-133		0			
1,1-Dichloroethene	24.78	1.0	20	0	124	70-145		0			
1,2,4-Trichlorobenzene	20.72	1.0	20	0	104	70-135		0			
1,2-Dibromo-3-chloropropane	26.4	1.0	20	0	132	60-130		0		S	
1,2-Dibromoethane	22.3	1.0	20	0	112	80-150		0			
1,2-Dichlorobenzene	20.36	1.0	20	0	102	70-130		0			
1,2-Dichloroethane	19.59	1.0	20	0	98	78-125		0			
1,2-Dichloropropane	19.26	1.0	20	0	96.3	75-125		0			
1,3-Dichlorobenzene	21.03	1.0	20	0	105	75-130		0			
1,4-Dichlorobenzene	19.82	1.0	20	0	99.1	75-130		0			
2-Butanone	20.52	5.0	20	0	103	55-150		0			
2-Hexanone	20.05	5.0	20	0	100	60-135		0			
4-Methyl-2-pentanone	28.64	1.0	20	0	143	77-178		0			
Acetone	40.55	10	20	9.79	154	60-160		0			
Benzene	21.14	1.0	20	0	106	85-125		0			
Bromodichloromethane	19.89	1.0	20	0	99.4	75-125		0			
Bromoform	21.84	1.0	20	0	109	60-125		0			
Bromomethane	19.6	1.0	20	0	98	30-185		0			
Carbon disulfide	23.14	1.0	20	0	116	60-165		0			
Carbon tetrachloride	22.06	1.0	20	0	110	65-140		0			
Chlorobenzene	20.83	1.0	20	0	104	80-120		0			
Chloroethane	22.73	1.0	20	0	114	50-140		0			
Chloroform	20.42	1.0	20	0	102	80-130		0			
Chloromethane	21.81	1.0	20	0	109	50-130		0			
cis-1,2-Dichloroethene	20.03	1.0	20	0	100	75-134		0			
cis-1,3-Dichloropropene	20	1.0	20	0	100	70-130		0			
Dibromochloromethane	20.91	1.0	20	0	105	60-115		0			
Dichlorodifluoromethane	24.24	1.0	20	0	121	20-120		0		S	
Ethylbenzene	22.48	1.0	20	1.72	104	85-125		0			
Isopropylbenzene	24.19	1.0	20	2.28	110	80-127		0			
Methyl tert-butyl ether	20.29	1.0	20	0	101	80-130		0			
Methylene chloride	22.89	5.0	20	0	114	75-140		0			
Styrene	22.21	1.0	20	0	111	85-125		0			
Tetrachloroethene	22.78	1.0	20	0	114	77-138		0			
Toluene	21.68	1.0	20	0	108	85-125		0			
trans-1,2-Dichloroethene	23.37	1.0	20	0	117	80-140		0			
trans-1,3-Dichloropropene	20.63	1.0	20	0	103	81-123		0			
Trichloroethene	22.36	1.0	20	0	112	84-130		0			
Trichlorofluoromethane	20.07	1.0	20	0	100	60-140		0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162069A	Instrument ID VMS5	Method: SW8260					
Vinyl chloride	22.39	1.0	20	0	112	50-136	0
Xylenes, Total	66.95	3.0	60	1.85	108	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.7</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.5</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.94</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.7</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.87</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.4</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.85</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.2</i>	<i>85-110</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates

Work Order: 1504937

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162069A

Instrument ID VMS5

Method: SW8260

MSD				Sample ID: 1504937-17A MSD			Units: µg/L		Analysis Date: 4/26/2015 10:39 PM	
Client ID: WG-017360-041515-MR-043				Run ID: VMS5_150426A			SeqNo: 3243288		Prep Date:	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.07	1.0	20	0	110	75-130	22.32	1.13	30	
1,1,2,2-Tetrachloroethane	21.1	1.0	20	0	106	75-130	20.21	4.31	30	
1,1,2-Trichloroethane	18.72	1.0	20	0	93.6	75-125	21.36	13.2	30	
1,1-Dichloroethane	22.93	1.0	20	0	115	75-133	20.34	12	30	
1,1-Dichloroethene	24.69	1.0	20	0	123	70-145	24.78	0.364	30	
1,2,4-Trichlorobenzene	20.65	1.0	20	0	103	70-135	20.72	0.338	30	
1,2-Dibromo-3-chloropropane	25.56	1.0	20	0	128	60-130	26.4	3.23	30	
1,2-Dibromoethane	22.76	1.0	20	0	114	80-150	22.3	2.04	30	
1,2-Dichlorobenzene	20.18	1.0	20	0	101	70-130	20.36	0.888	30	
1,2-Dichloroethane	20.1	1.0	20	0	100	78-125	19.59	2.57	30	
1,2-Dichloropropane	19.14	1.0	20	0	95.7	75-125	19.26	0.625	30	
1,3-Dichlorobenzene	20.71	1.0	20	0	104	75-130	21.03	1.53	30	
1,4-Dichlorobenzene	20.46	1.0	20	0	102	75-130	19.82	3.18	30	
2-Butanone	20.81	5.0	20	0	104	55-150	20.52	1.4	30	
2-Hexanone	19.01	5.0	20	0	95	60-135	20.05	5.33	30	
4-Methyl-2-pentanone	23.71	1.0	20	0	119	77-178	28.64	18.8	30	
Acetone	37.91	10	20	9.79	141	60-160	40.55	6.73	30	
Benzene	21.6	1.0	20	0	108	85-125	21.14	2.15	30	
Bromodichloromethane	21.03	1.0	20	0	105	75-125	19.89	5.57	30	
Bromoform	21.95	1.0	20	0	110	60-125	21.84	0.502	30	
Bromomethane	21.85	1.0	20	0	109	30-185	19.6	10.9	30	
Carbon disulfide	23.3	1.0	20	0	116	60-165	23.14	0.689	30	
Carbon tetrachloride	22.66	1.0	20	0	113	65-140	22.06	2.68	30	
Chlorobenzene	21.1	1.0	20	0	106	80-120	20.83	1.29	30	
Chloroethane	23.18	1.0	20	0	116	50-140	22.73	1.96	30	
Chloroform	19.94	1.0	20	0	99.7	80-130	20.42	2.38	30	
Chloromethane	21.4	1.0	20	0	107	50-130	21.81	1.9	30	
cis-1,2-Dichloroethene	19.72	1.0	20	0	98.6	75-134	20.03	1.56	30	
cis-1,3-Dichloropropene	19.65	1.0	20	0	98.2	70-130	20	1.77	30	
Dibromochloromethane	20.56	1.0	20	0	103	60-115	20.91	1.69	30	
Dichlorodifluoromethane	24.29	1.0	20	0	121	20-120	24.24	0.206	30	S
Ethylbenzene	23.57	1.0	20	1.72	109	85-125	22.48	4.73	30	
Isopropylbenzene	25.05	1.0	20	2.28	114	80-127	24.19	3.49	30	
Methyl tert-butyl ether	20.21	1.0	20	0	101	80-130	20.29	0.395	30	
Methylene chloride	23.13	5.0	20	0	116	75-140	22.89	1.04	30	
Styrene	22.39	1.0	20	0	112	85-125	22.21	0.807	30	
Tetrachloroethene	20.58	1.0	20	0	103	77-138	22.78	10.1	30	
Toluene	18.66	1.0	20	0	93.3	85-125	21.68	15	30	
trans-1,2-Dichloroethene	23.12	1.0	20	0	116	80-140	23.37	1.08	30	
trans-1,3-Dichloropropene	18.04	1.0	20	0	90.2	81-123	20.63	13.4	30	
Trichloroethene	22.8	1.0	20	0	114	84-130	22.36	1.95	30	
Trichlorofluoromethane	22.35	1.0	20	0	112	60-140	20.07	10.7	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162069A	Instrument ID VMS5			Method: SW8260					
Vinyl chloride	22.11	1.0	20	0	111	50-136	22.39	1.26	30
Xylenes, Total	66.85	3.0	60	1.85	108	80-126	66.95	0.149	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.21</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96</i>	<i>75-120</i>	<i>18.7</i>	<i>2.69</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.25</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>80-110</i>	<i>19.94</i>	<i>1.54</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.67</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.4</i>	<i>85-115</i>	<i>19.87</i>	<i>1.01</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>17.17</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>85.8</i>	<i>85-110</i>	<i>19.85</i>	<i>14.5</i>	<i>30</i>

The following samples were analyzed in this batch: | 1504937-17A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162100A** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: VBLKW1-150427-R162100A				Units: µg/L		Analysis Date: 4/27/2015 11:55 AM		
Client ID:		Run ID: VMS7_150427A				SeqNo: 3244357		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162100A	Instrument ID VMS7	Method: SW8260						
trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	U	1.0						
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.14</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.93</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.6</i>	<i>80-110</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>19.58</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.9</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.6</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98</i>	<i>85-110</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162100A** Instrument ID **VMS7** Method: **SW8260**

LCS		Sample ID: VLCSW1-150427-R162100A				Units: µg/L		Analysis Date: 4/27/2015 09:25 AM		
Client ID:		Run ID: VMS7_150427A				SeqNo: 3244354		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	21.98	1.0	20	0	110	75-130	0			
1,1,2,2-Tetrachloroethane	18.67	1.0	20	0	93.4	75-130	0			
1,1,2-Trichloroethane	19.58	1.0	20	0	97.9	75-125	0			
1,1-Dichloroethane	21.17	1.0	20	0	106	75-133	0			
1,1-Dichloroethene	22.22	1.0	20	0	111	70-145	0			
1,2,4-Trichlorobenzene	21.97	1.0	20	0	110	70-135	0			
1,2-Dibromo-3-chloropropane	19.5	1.0	20	0	97.5	60-130	0			
1,2-Dibromoethane	26.24	1.0	20	0	131	80-150	0			
1,2-Dichlorobenzene	20.63	1.0	20	0	103	70-130	0			
1,2-Dichloroethane	21.25	1.0	20	0	106	78-125	0			
1,2-Dichloropropane	20.76	1.0	20	0	104	75-125	0			
1,3-Dichlorobenzene	20.45	1.0	20	0	102	75-130	0			
1,4-Dichlorobenzene	20.14	1.0	20	0	101	75-130	0			
2-Butanone	15.3	5.0	20	0	76.5	55-150	0			
2-Hexanone	15.54	5.0	20	0	77.7	60-135	0			
4-Methyl-2-pentanone	19.73	1.0	20	0	98.6	77-178	0			
Acetone	15.76	10	20	0	78.8	60-160	0			
Benzene	21.13	1.0	20	0	106	85-125	0			
Bromodichloromethane	21.57	1.0	20	0	108	75-125	0			
Bromoform	19.25	1.0	20	0	96.2	60-125	0			
Bromomethane	19.94	1.0	20	0	99.7	30-185	0			
Carbon disulfide	20.12	1.0	20	0	101	60-165	0			
Carbon tetrachloride	20.94	1.0	20	0	105	65-140	0			
Chlorobenzene	20.14	1.0	20	0	101	80-120	0			
Chloroethane	22.69	1.0	20	0	113	50-140	0			
Chloroform	21.39	1.0	20	0	107	80-130	0			
Chloromethane	23.59	1.0	20	0	118	50-130	0			
cis-1,2-Dichloroethene	21.54	1.0	20	0	108	75-134	0			
cis-1,3-Dichloropropene	20.59	1.0	20	0	103	70-130	0			
Dibromochloromethane	20.11	1.0	20	0	101	60-115	0			
Dichlorodifluoromethane	18.25	1.0	20	0	91.2	20-120	0			
Ethylbenzene	20.64	1.0	20	0	103	85-125	0			
Isopropylbenzene	20.77	1.0	20	0	104	80-127	0			
Methyl tert-butyl ether	17.11	1.0	20	0	85.6	80-130	0			
Methylene chloride	22.11	5.0	20	0	111	75-140	0			
Styrene	20.99	1.0	20	0	105	85-125	0			
Tetrachloroethene	20.52	1.0	20	0	103	77-138	0			
Toluene	20.45	1.0	20	0	102	85-125	0			
trans-1,2-Dichloroethene	21.62	1.0	20	0	108	80-140	0			
trans-1,3-Dichloropropene	20.86	1.0	20	0	104	81-123	0			
Trichloroethene	21.48	1.0	20	0	107	84-130	0			
Trichlorofluoromethane	20.18	1.0	20	0	101	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162100A	Instrument ID VMS7	Method: SW8260					
Vinyl chloride	19.34	1.0	20	0	96.7	50-136	0
Xylenes, Total	61.34	3.0	60	0	102	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	19.66	0	20	0	98.3	75-120	0
<i>Surr: 4-Bromofluorobenzene</i>	20.01	0	20	0	100	80-110	0
<i>Surr: Dibromofluoromethane</i>	20.49	0	20	0	102	85-115	0
<i>Surr: Toluene-d8</i>	19.71	0	20	0	98.6	85-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates

Work Order: 1504937

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162100A

Instrument ID VMS7

Method: SW8260

MS				Sample ID: 15041092-01A MS			Units: µg/L		Analysis Date: 4/27/2015 07:51 PM		
Client ID:		Run ID: VMS7_150427A			SeqNo: 3245530		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	23.01	1.0	20	0	115	75-130	0				
1,1,2,2-Tetrachloroethane	19.55	1.0	20	0	97.8	75-130	0				
1,1,2-Trichloroethane	20.87	1.0	20	0	104	75-125	0				
1,1-Dichloroethane	22.28	1.0	20	0	111	75-133	0				
1,1-Dichloroethene	23.48	1.0	20	0	117	70-145	0				
1,2,4-Trichlorobenzene	11.05	1.0	20	0	55.2	70-135	0			S	
1,2-Dibromo-3-chloropropane	19.89	1.0	20	0	99.4	60-130	0				
1,2-Dibromoethane	27.51	1.0	20	0	138	80-150	0				
1,2-Dichlorobenzene	17.35	1.0	20	0	86.8	70-130	0				
1,2-Dichloroethane	22.22	1.0	20	0	111	78-125	0				
1,2-Dichloropropane	21.74	1.0	20	0	109	75-125	0				
1,3-Dichlorobenzene	16.42	1.0	20	0	82.1	75-130	0				
1,4-Dichlorobenzene	16.42	1.0	20	0	82.1	75-130	0				
2-Butanone	17.23	5.0	20	0	86.2	55-150	0				
2-Hexanone	18.02	5.0	20	0	90.1	60-135	0				
4-Methyl-2-pentanone	24.32	1.0	20	0	122	77-178	0				
Acetone	18.16	10	20	0.6	87.8	60-160	0				
Benzene	22.14	1.0	20	0.22	110	85-125	0				
Bromodichloromethane	21.91	1.0	20	0	110	75-125	0				
Bromoform	19.49	1.0	20	0	97.4	60-125	0				
Bromomethane	8.93	1.0	20	0	44.6	30-185	0				
Carbon disulfide	20.16	1.0	20	0.38	98.9	60-165	0				
Carbon tetrachloride	20.84	1.0	20	0	104	65-140	0				
Chlorobenzene	19.95	1.0	20	0	99.8	80-120	0				
Chloroethane	28.26	1.0	20	0	141	50-140	0			S	
Chloroform	22.06	1.0	20	0	110	80-130	0				
Chloromethane	25.42	1.0	20	0	127	50-130	0				
cis-1,2-Dichloroethene	22.9	1.0	20	0	114	75-134	0				
cis-1,3-Dichloropropene	20.41	1.0	20	0	102	70-130	0				
Dibromochloromethane	19.89	1.0	20	0	99.4	60-115	0				
Dichlorodifluoromethane	16.38	1.0	20	0	81.9	20-120	0				
Ethylbenzene	28.24	1.0	20	3.88	122	85-125	0				
Isopropylbenzene	17.68	1.0	20	0.95	83.6	80-127	0				
Methyl tert-butyl ether	19.01	1.0	20	0	95	80-130	0				
Methylene chloride	22.06	5.0	20	0	110	75-140	0				
Styrene	19.95	1.0	20	0	99.8	85-125	0				
Tetrachloroethene	18.26	1.0	20	0	91.3	77-138	0				
Toluene	28.1	1.0	20	1	136	85-125	0			S	
trans-1,2-Dichloroethene	22.32	1.0	20	0	112	80-140	0				
trans-1,3-Dichloropropene	21.94	1.0	20	0	110	81-123	0				
Trichloroethene	21.81	1.0	20	0	109	84-130	0				
Trichlorofluoromethane	21.12	1.0	20	0	106	60-140	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162100A		Instrument ID VMS7		Method: SW8260				
Vinyl chloride	19.67	1.0	20	0	98.4	50-136	0	
Xylenes, Total	99.43	3.0	60	15.32	140	80-126	0	S
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.95</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.26</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>80-110</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>19.65</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.2</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.82</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.1</i>	<i>85-110</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162100A** Instrument ID **VMS7** Method: **SW8260**

MSD					Sample ID: 15041092-01A MSD			Units: µg/L		Analysis Date: 4/27/2015 08:18 PM		
Client ID:			Run ID: VMS7_150427A			SeqNo: 3245531		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
1,1,1-Trichloroethane	22.11	1.0	20	0	111	75-130	23.01	3.99	30			
1,1,2,2-Tetrachloroethane	18.71	1.0	20	0	93.6	75-130	19.55	4.39	30			
1,1,2-Trichloroethane	19.61	1.0	20	0	98	75-125	20.87	6.23	30			
1,1-Dichloroethane	21.78	1.0	20	0	109	75-133	22.28	2.27	30			
1,1-Dichloroethene	22.68	1.0	20	0	113	70-145	23.48	3.47	30			
1,2,4-Trichlorobenzene	10.96	1.0	20	0	54.8	70-135	11.05	0.818	30	S		
1,2-Dibromo-3-chloropropane	19.01	1.0	20	0	95	60-130	19.89	4.52	30			
1,2-Dibromoethane	25.68	1.0	20	0	128	80-150	27.51	6.88	30			
1,2-Dichlorobenzene	16.57	1.0	20	0	82.8	70-130	17.35	4.6	30			
1,2-Dichloroethane	21.37	1.0	20	0	107	78-125	22.22	3.9	30			
1,2-Dichloropropane	20.94	1.0	20	0	105	75-125	21.74	3.75	30			
1,3-Dichlorobenzene	15.55	1.0	20	0	77.8	75-130	16.42	5.44	30			
1,4-Dichlorobenzene	16.04	1.0	20	0	80.2	75-130	16.42	2.34	30			
2-Butanone	15.93	5.0	20	0	79.6	55-150	17.23	7.84	30			
2-Hexanone	16.7	5.0	20	0	83.5	60-135	18.02	7.6	30			
4-Methyl-2-pentanone	22.3	1.0	20	0	112	77-178	24.32	8.67	30			
Acetone	16.82	10	20	0.6	81.1	60-160	18.16	7.66	30			
Benzene	21.3	1.0	20	0.22	105	85-125	22.14	3.87	30			
Bromodichloromethane	21.48	1.0	20	0	107	75-125	21.91	1.98	30			
Bromoform	18.67	1.0	20	0	93.4	60-125	19.49	4.3	30			
Bromomethane	9.55	1.0	20	0	47.8	30-185	8.93	6.71	30			
Carbon disulfide	19.93	1.0	20	0.38	97.8	60-165	20.16	1.15	30			
Carbon tetrachloride	20.16	1.0	20	0	101	65-140	20.84	3.32	30			
Chlorobenzene	18.97	1.0	20	0	94.8	80-120	19.95	5.04	30			
Chloroethane	27.7	1.0	20	0	138	50-140	28.26	2	30			
Chloroform	21.68	1.0	20	0	108	80-130	22.06	1.74	30			
Chloromethane	24.61	1.0	20	0	123	50-130	25.42	3.24	30			
cis-1,2-Dichloroethene	22.11	1.0	20	0	111	75-134	22.9	3.51	30			
cis-1,3-Dichloropropene	19.88	1.0	20	0	99.4	70-130	20.41	2.63	30			
Dibromochloromethane	19.42	1.0	20	0	97.1	60-115	19.89	2.39	30			
Dichlorodifluoromethane	16.17	1.0	20	0	80.8	20-120	16.38	1.29	30			
Ethylbenzene	23.62	1.0	20	3.88	98.7	85-125	28.24	17.8	30			
Isopropylbenzene	16.91	1.0	20	0.95	79.8	80-127	17.68	4.45	30	S		
Methyl tert-butyl ether	18.53	1.0	20	0	92.6	80-130	19.01	2.56	30			
Methylene chloride	21.82	5.0	20	0	109	75-140	22.06	1.09	30			
Styrene	18.83	1.0	20	0	94.2	85-125	19.95	5.78	30			
Tetrachloroethene	17.35	1.0	20	0	86.8	77-138	18.26	5.11	30			
Toluene	22.96	1.0	20	1	110	85-125	28.1	20.1	30			
trans-1,2-Dichloroethene	21.9	1.0	20	0	110	80-140	22.32	1.9	30			
trans-1,3-Dichloropropene	20.74	1.0	20	0	104	81-123	21.94	5.62	30			
Trichloroethene	21.57	1.0	20	0	108	84-130	21.81	1.11	30			
Trichlorofluoromethane	20.48	1.0	20	0	102	60-140	21.12	3.08	30			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162100A		Instrument ID VMS7		Method: SW8260					
Vinyl chloride	18.84	1.0	20	0	94.2	50-136	19.67	4.31	30
Xylenes, Total	78.15	3.0	60	15.32	105	80-126	99.43	24	30
Surr: 1,2-Dichloroethane-d4	19.99	0	20	0	100	75-120	19.95	0.2	30
Surr: 4-Bromofluorobenzene	20.45	0	20	0	102	80-110	20.26	0.933	30
Surr: Dibromofluoromethane	20.12	0	20	0	101	85-115	19.65	2.36	30
Surr: Toluene-d8	19.68	0	20	0	98.4	85-110	19.82	0.709	30

The following samples were analyzed in this batch: | 1504937-03A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162128** Instrument ID **VMS5** Method: **SW8260**

MBLK		Sample ID: VLKW2-150426-R162128				Units: µg/L		Analysis Date: 4/27/2015 01:37 AM		
Client ID:		Run ID: VMS5_150426B				SeqNo: 3243990		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162128	Instrument ID VMS5	Method: SW8260						
trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	U	1.0						
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.54</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.7</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.04</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.2</i>	<i>80-110</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>19.66</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.3</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>18.91</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.6</i>	<i>85-110</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162128** Instrument ID **VMS5** Method: **SW8260**

LCS		Sample ID: VLCSW2-150426-R162128				Units: µg/L		Analysis Date: 4/27/2015 12:46 PM		
Client ID:		Run ID: VMS5_150426B				SeqNo: 3244009		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.62	1.0	20	0	113	75-130	0			
1,1,2,2-Tetrachloroethane	21.14	1.0	20	0	106	75-130	0			
1,1,2-Trichloroethane	20.76	1.0	20	0	104	75-125	0			
1,1-Dichloroethane	19.84	1.0	20	0	99.2	75-133	0			
1,1-Dichloroethene	20.08	1.0	20	0	100	70-145	0			
1,2,4-Trichlorobenzene	20.57	1.0	20	0	103	70-135	0			
1,2-Dibromo-3-chloropropane	23.53	1.0	20	0	118	60-130	0			
1,2-Dibromoethane	22.78	1.0	20	0	114	80-150	0			
1,2-Dichlorobenzene	20.21	1.0	20	0	101	70-130	0			
1,2-Dichloroethane	20.25	1.0	20	0	101	78-125	0			
1,2-Dichloropropane	19.78	1.0	20	0	98.9	75-125	0			
1,3-Dichlorobenzene	20.23	1.0	20	0	101	75-130	0			
1,4-Dichlorobenzene	19.9	1.0	20	0	99.5	75-130	0			
2-Butanone	20.74	5.0	20	0	104	55-150	0			
2-Hexanone	21.65	5.0	20	0	108	60-135	0			
4-Methyl-2-pentanone	28.16	1.0	20	0	141	77-178	0			
Acetone	23.23	10	20	0	116	60-160	0			
Benzene	20.19	1.0	20	0	101	85-125	0			
Bromodichloromethane	18.16	1.0	20	0	90.8	75-125	0			
Bromoform	23.32	1.0	20	0	117	60-125	0			
Bromomethane	22.96	1.0	20	0	115	30-185	0			
Carbon disulfide	18.32	1.0	20	0	91.6	60-165	0			
Carbon tetrachloride	22.5	1.0	20	0	112	65-140	0			
Chlorobenzene	20.37	1.0	20	0	102	80-120	0			
Chloroethane	18.74	1.0	20	0	93.7	50-140	0			
Chloroform	19.68	1.0	20	0	98.4	80-130	0			
Chloromethane	17.5	1.0	20	0	87.5	50-130	0			
cis-1,2-Dichloroethene	19.07	1.0	20	0	95.4	75-134	0			
cis-1,3-Dichloropropene	22.33	1.0	20	0	112	70-130	0			
Dibromochloromethane	21.68	1.0	20	0	108	60-115	0			
Dichlorodifluoromethane	18.7	1.0	20	0	93.5	20-120	0			
Ethylbenzene	20.74	1.0	20	0	104	85-125	0			
Isopropylbenzene	21.75	1.0	20	0	109	80-127	0			
Methyl tert-butyl ether	18.46	1.0	20	0	92.3	80-130	0			
Methylene chloride	19.64	5.0	20	0	98.2	75-140	0			
Styrene	21.7	1.0	20	0	108	85-125	0			
Tetrachloroethene	21.29	1.0	20	0	106	77-138	0			
Toluene	20.48	1.0	20	0	102	85-125	0			
trans-1,2-Dichloroethene	19.71	1.0	20	0	98.6	80-140	0			
trans-1,3-Dichloropropene	20.66	1.0	20	0	103	81-123	0			
Trichloroethene	21.5	1.0	20	0	108	84-130	0			
Trichlorofluoromethane	18.77	1.0	20	0	93.8	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162128	Instrument ID VMS5		Method: SW8260				
Vinyl chloride	17.76	1.0	20	0	88.8	50-136	0
Xylenes, Total	62.46	3.0	60	0	104	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.68</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.4</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.93</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.6</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>21.03</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>105</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.33</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.6</i>	<i>85-110</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162128** Instrument ID **VMS5** Method: **SW8260**

MS				Sample ID: 15041163-06A MS			Units: µg/L		Analysis Date: 4/27/2015 10:32 AM	
Client ID:				Run ID: VMS5_150426B			SeqNo: 3244007		Prep Date:	
									DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	97.55	5.0	100	0	97.6	75-130	0			
1,1,2,2-Tetrachloroethane	85.7	5.0	100	0	85.7	75-130	0			
1,1,2-Trichloroethane	94.4	5.0	100	0	94.4	75-125	0			
1,1-Dichloroethane	78.55	5.0	100	0	78.6	75-133	0			
1,1-Dichloroethene	83.85	5.0	100	0	83.8	70-145	0			
1,2,4-Trichlorobenzene	91.3	5.0	100	0	91.3	70-135	0			
1,2-Dibromo-3-chloropropane	115.4	5.0	100	0	115	60-130	0			
1,2-Dibromoethane	101.9	5.0	100	0	102	80-150	0			
1,2-Dichlorobenzene	89.95	5.0	100	0	90	70-130	0			
1,2-Dichloroethane	89.2	5.0	100	0	89.2	78-125	0			
1,2-Dichloropropane	80.6	5.0	100	0	80.6	75-125	0			
1,3-Dichlorobenzene	92.75	5.0	100	0	92.8	75-130	0			
1,4-Dichlorobenzene	89.65	5.0	100	0	89.6	75-130	0			
2-Butanone	76.45	25	100	0	76.4	55-150	0			
2-Hexanone	78.05	25	100	0	78	60-135	0			
4-Methyl-2-pentanone	103.2	5.0	100	0	103	77-178	0			
Acetone	86.3	50	100	0	86.3	60-160	0			
Benzene	87.35	5.0	100	0	87.4	85-125	0			
Bromodichloromethane	88	5.0	100	0	88	75-125	0			
Bromoform	102.8	5.0	100	0	103	60-125	0			
Bromomethane	68.15	5.0	100	0	68.2	30-185	0			
Carbon disulfide	75.45	5.0	100	0	75.4	60-165	0			
Carbon tetrachloride	100.1	5.0	100	0	100	65-140	0			
Chlorobenzene	93.3	5.0	100	0	93.3	80-120	0			
Chloroethane	60.7	5.0	100	0	60.7	50-140	0			
Chloroform	81.95	5.0	100	0	82	80-130	0			
Chloromethane	57.45	5.0	100	0	57.4	50-130	0			
cis-1,2-Dichloroethene	76.9	5.0	100	0	76.9	75-134	0			
cis-1,3-Dichloropropene	85.5	5.0	100	0	85.5	70-130	0			
Dibromochloromethane	96.9	5.0	100	0	96.9	60-115	0			
Dichlorodifluoromethane	80.65	5.0	100	0	80.6	20-120	0			
Ethylbenzene	236.7	5.0	100	142.6	94.2	85-125	0			
Isopropylbenzene	110	5.0	100	12.45	97.6	80-127	0			
Methyl tert-butyl ether	75.05	5.0	100	0	75	80-130	0			S
Methylene chloride	74.35	25	100	0	74.4	75-140	0			S
Styrene	98.85	5.0	100	0	98.8	85-125	0			
Tetrachloroethene	100.8	5.0	100	0	101	77-138	0			
Toluene	91.95	5.0	100	0	92	85-125	0			
trans-1,2-Dichloroethene	79.8	5.0	100	0	79.8	80-140	0			S
trans-1,3-Dichloropropene	85.4	5.0	100	0	85.4	81-123	0			
Trichloroethene	99.3	5.0	100	0	99.3	84-130	0			
Trichlorofluoromethane	82.2	5.0	100	0	82.2	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162128	Instrument ID VMS5		Method: SW8260				
Vinyl chloride	63.2	5.0	100	0	63.2	50-136	0
Xylenes, Total	755.9	15	300	479	92.3	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	91.4	0	100	0	91.4	75-120	0
<i>Surr: 4-Bromofluorobenzene</i>	100.7	0	100	0	101	80-110	0
<i>Surr: Dibromofluoromethane</i>	97.6	0	100	0	97.6	85-115	0
<i>Surr: Toluene-d8</i>	93.95	0	100	0	94	85-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R162128** Instrument ID **VMS5** Method: **SW8260**

MSD				Sample ID: 15041163-06A MSD			Units: µg/L		Analysis Date: 4/27/2015 10:57 AM	
Client ID:				Run ID: VMS5_150426B			SeqNo: 3244008		Prep Date:	
									DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	91.4	5.0	100	0	91.4	75-130	97.55	6.51	30	
1,1,2,2-Tetrachloroethane	78.55	5.0	100	0	78.6	75-130	85.7	8.71	30	
1,1,2-Trichloroethane	82.8	5.0	100	0	82.8	75-125	94.4	13.1	30	
1,1-Dichloroethane	69.4	5.0	100	0	69.4	75-133	78.55	12.4	30	S
1,1-Dichloroethene	74.45	5.0	100	0	74.4	70-145	83.85	11.9	30	
1,2,4-Trichlorobenzene	85.55	5.0	100	0	85.6	70-135	91.3	6.5	30	
1,2-Dibromo-3-chloropropane	107.6	5.0	100	0	108	60-130	115.4	7	30	
1,2-Dibromoethane	91.45	5.0	100	0	91.4	80-150	101.9	10.8	30	
1,2-Dichlorobenzene	79.8	5.0	100	0	79.8	70-130	89.95	12	30	
1,2-Dichloroethane	80.45	5.0	100	0	80.4	78-125	89.2	10.3	30	
1,2-Dichloropropane	74.3	5.0	100	0	74.3	75-125	80.6	8.13	30	S
1,3-Dichlorobenzene	85.15	5.0	100	0	85.2	75-130	92.75	8.54	30	
1,4-Dichlorobenzene	83.45	5.0	100	0	83.4	75-130	89.65	7.16	30	
2-Butanone	65.45	25	100	0	65.4	55-150	76.45	15.5	30	
2-Hexanone	70.3	25	100	0	70.3	60-135	78.05	10.4	30	
4-Methyl-2-pentanone	93.25	5.0	100	0	93.2	77-178	103.2	10.2	30	
Acetone	87.35	50	100	0	87.4	60-160	86.3	1.21	30	
Benzene	80	5.0	100	0	80	85-125	87.35	8.78	30	S
Bromodichloromethane	84.15	5.0	100	0	84.2	75-125	88	4.47	30	
Bromoform	94.3	5.0	100	0	94.3	60-125	102.8	8.67	30	
Bromomethane	68.15	5.0	100	0	68.2	30-185	68.15	0	30	
Carbon disulfide	68	5.0	100	0	68	60-165	75.45	10.4	30	
Carbon tetrachloride	94.25	5.0	100	0	94.2	65-140	100.1	6.02	30	
Chlorobenzene	84.45	5.0	100	0	84.4	80-120	93.3	9.96	30	
Chloroethane	57.25	5.0	100	0	57.2	50-140	60.7	5.85	30	
Chloroform	74.8	5.0	100	0	74.8	80-130	81.95	9.12	30	S
Chloromethane	54.2	5.0	100	0	54.2	50-130	57.45	5.82	30	
cis-1,2-Dichloroethene	69.05	5.0	100	0	69	75-134	76.9	10.8	30	S
cis-1,3-Dichloropropene	77.1	5.0	100	0	77.1	70-130	85.5	10.3	30	
Dibromochloromethane	87.45	5.0	100	0	87.4	60-115	96.9	10.3	30	
Dichlorodifluoromethane	73.1	5.0	100	0	73.1	20-120	80.65	9.82	30	
Ethylbenzene	241.9	5.0	100	142.6	99.4	85-125	236.7	2.17	30	
Isopropylbenzene	102.2	5.0	100	12.45	89.7	80-127	110	7.45	30	
Methyl tert-butyl ether	67.55	5.0	100	0	67.6	80-130	75.05	10.5	30	S
Methylene chloride	65.1	25	100	0	65.1	75-140	74.35	13.3	30	S
Styrene	89.8	5.0	100	0	89.8	85-125	98.85	9.59	30	
Tetrachloroethene	95.8	5.0	100	0	95.8	77-138	100.8	5.09	30	
Toluene	83.95	5.0	100	0	84	85-125	91.95	9.1	30	S
trans-1,2-Dichloroethene	72.05	5.0	100	0	72	80-140	79.8	10.2	30	S
trans-1,3-Dichloropropene	77.8	5.0	100	0	77.8	81-123	85.4	9.31	30	S
Trichloroethene	92.75	5.0	100	0	92.8	84-130	99.3	6.82	30	
Trichlorofluoromethane	73.85	5.0	100	0	73.8	60-140	82.2	10.7	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504937
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R162128	Instrument ID VMS5			Method: SW8260					
Vinyl chloride	57.9	5.0	100	0	57.9	50-136	63.2	8.75	30
Xylenes, Total	762	15	300	479	94.3	80-126	755.9	0.81	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>90.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>90.4</i>	<i>75-120</i>	<i>91.4</i>	<i>1.1</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>97.55</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>97.6</i>	<i>80-110</i>	<i>100.7</i>	<i>3.18</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>97.35</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>97.4</i>	<i>85-115</i>	<i>97.6</i>	<i>0.256</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>94.35</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>94.4</i>	<i>85-110</i>	<i>93.95</i>	<i>0.425</i>	<i>30</i>

The following samples were analyzed in this batch:	1504937-02A	1504937-03A	1504937-04A	
	1504937-05A	1504937-09A	1504937-10A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-12353**

PAGE **1** OF **2**

(See Reverse Side for Instructions)

Project No./Phase/Task Code: 017360-08Y15-01Y15				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-030			
Project Name: Former GRMP				Lab Contact: Chad Welton				Lab Quote No.:				Cooler No.:			
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: Rawa Fleisher				Matrix Code (see back of COC) Grab (G) or Comp (C)				Unpreserved Hydrochloric Acid (HCl) Nitric Acid (HNO ₃) Sulfuric Acid (H ₂ SO ₄) Sodium Hydroxide (NaOH) Methanol/Water (Boil VOC) EnCores 3x3-g, 1x25-g Other:				Total Containers/Sample VOCs ATL METALS Hg SVOCs			
Sampler(s): MDR															
Carrier: CRA				Airbill No.:				Date Shipped: 4/16/15				COMMENTS/ SPECIAL INSTRUCTIONS:			
Item				SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)				DATE (mm/dd/yy)							
1				WG-017360-041315-MR-027				4/13/15				1134			
2				VI -028								1208			
3				VI -029								1325			
4				VI -030								1409			
5				VI -031								1420			
6				VI -032								1453			
7				VI -033								1538			
8				VI -034								1619			
9				WG-017360-041415-MR-035				4/14/15				1100			
10				VI -036								1137			
11				VI -037								1155			
12				VI -038								1232			
13				VI -039								1327			
14				VI -040								1414			
15				VI -041								1517			
TAT Required in business days (use separate COCs for different TATs)								Total Number of Containers: 53				Notes/ Special Requirements:			
☒ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:								All Samples in Cooler must be on COC				(C)			
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME	
1. Matt		CRA		4/16/15		950		1. Chad		ALS		4/16/15		16920	
2.								2.							
3.								3.							

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110604)



14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: PL-12354

PAGE 7 OF 2

(See Reverse Side for Instructions)

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Sample Receipt Checklist

Client Name: CRA - PLYMOUTH

Date/Time Received: 16-Apr-15 09:50

Work Order: 1504937

Received by: KRW

Checklist completed by Keith Wurenga
eSignature

16-Apr-15
Date

Reviewed by: Chad Whelton
eSignature

16-Apr-15
Date

Matrices: Water

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☐	No ☒	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Sample(s) received on ice?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>3.0 C</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>4/16/2015 11:37:47 AM</u>		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☒	N/A ☐
pH adjusted by:	<u>-</u>		

Login Notes: One Broken Vial (-13A)

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



22-Apr-2015

Rawa Fleisher
Conestoga-Rovers & Associates
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360)**

Work Order: **1504564**

Dear Rawa,

ALS Environmental received 26 samples on 10-Apr-2015 08:35 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 89.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 1504564

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1504564-01	WG-017360-040615-MR-001	Groundwater		4/6/2015 14:01	4/10/2015 08:35	☐
1504564-02	WG-017360-040615-MR-002	Groundwater		4/6/2015 13:20	4/10/2015 08:35	☐
1504564-03	WG-017360-040615-MR-003	Groundwater		4/6/2015 15:38	4/10/2015 08:35	☐
1504564-04	SW-017360-040615-MR-004	Surface Wate		4/6/2015 16:15	4/10/2015 08:35	☐
1504564-05	SW-017360-040615-MR-005	Surface Wate		4/6/2015 16:30	4/10/2015 08:35	☐
1504564-06	SW-017360-040615-MR-006	Surface Wate		4/6/2015 16:45	4/10/2015 08:35	☐
1504564-07	WG-017360-040715-MR-007	Groundwater		4/7/2015 10:39	4/10/2015 08:35	☐
1504564-08	WG-017360-040715-MR-008	Groundwater		4/7/2015 11:20	4/10/2015 08:35	☐
1504564-09	WG-017360-040715-MR-009	Groundwater		4/7/2015 11:42	4/10/2015 08:35	☐
1504564-10	WG-017360-040715-MR-010	Groundwater		4/7/2015 12:35	4/10/2015 08:35	☐
1504564-11	WG-017360-040715-MR-011	Groundwater		4/7/2015 13:57	4/10/2015 08:35	☐
1504564-12	WG-017360-040715-MR-012	Groundwater		4/7/2015 14:42	4/10/2015 08:35	☐
1504564-13	WG-017360-040715-MR-013	Groundwater		4/7/2015 15:00	4/10/2015 08:35	☐
1504564-14	WG-017360-040715-MR-014	Groundwater		4/7/2015 16:36	4/10/2015 08:35	☐
1504564-15	WG-017360-040815-MR-015	Groundwater		4/8/2015 10:23	4/10/2015 08:35	☐
1504564-16	WG-017360-040815-MR-016	Groundwater		4/8/2015 11:01	4/10/2015 08:35	☐
1504564-17	WG-017360-040815-MR-017	Groundwater		4/8/2015 12:10	4/10/2015 08:35	☐
1504564-18	WG-017360-040815-MR-018	Groundwater		4/8/2015 13:26	4/10/2015 08:35	☐
1504564-19	WG-017360-040815-MR-019	Groundwater		4/8/2015 14:43	4/10/2015 08:35	☐
1504564-20	WG-017360-040815-MR-020	Groundwater		4/8/2015 16:05	4/10/2015 08:35	☐
1504564-21	WG-017360-040915-MR-021	Groundwater		4/9/2015 11:27	4/10/2015 08:35	☐
1504564-22	WG-017360-040915-MR-022	Groundwater		4/9/2015 13:38	4/10/2015 08:35	☐
1504564-23	WG-017360-040915-MR-023	Groundwater		4/9/2015 14:29	4/10/2015 08:35	☐
1504564-24	WG-017360-040915-MR-024	Groundwater		4/9/2015 15:34	4/10/2015 08:35	☐
1504564-25	WG-017360-040915-MR-025	Groundwater		4/9/2015 16:21	4/10/2015 08:35	☐
1504564-26	TB-017360-040915-MR-026	Water		4/9/2015	4/10/2015 08:35	☐

Client: Conestoga-Rovers & Associates**Project:** Former GRMP (17360)**Work Order:** 1504564**Case Narrative**

Batch 69807, Method SVO_8270_W, Sample SLCSW1-69807: The LCS recoveries were above the upper control limits for 4-Nitrophenol and Benzaldehyde. All the sample results in the batch were non-detect. No qualification is required.

Batch R161565A, Method VOC_8260_W, Sample 1504564-19A: One or more surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is required.

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
WorkOrder: 1504564

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040615-MR-001
Collection Date: 4/6/2015 02:01 PM

Work Order: 1504564
Lab ID: 1504564-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/19/2015 20:55
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/19/2015 20:55
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/19/2015 20:55
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/19/2015 20:55
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/19/2015 20:55
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/19/2015 20:55
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/19/2015 20:55
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/19/2015 20:55
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/19/2015 20:55
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/19/2015 20:55
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/19/2015 20:55
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/19/2015 20:55
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/19/2015 20:55
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/19/2015 20:55
2-Butanone	U		0.87	25	µg/L	1	4/19/2015 20:55
2-Hexanone	U		0.15	50	µg/L	1	4/19/2015 20:55
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/19/2015 20:55
Acetone	U		3.1	50	µg/L	1	4/19/2015 20:55
Benzene	U		0.25	1.0	µg/L	1	4/19/2015 20:55
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/19/2015 20:55
Bromoform	U		0.099	1.0	µg/L	1	4/19/2015 20:55
Bromomethane	U		1.0	5.0	µg/L	1	4/19/2015 20:55
Carbon disulfide	U		0.26	5.0	µg/L	1	4/19/2015 20:55
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/19/2015 20:55
Chlorobenzene	U		0.19	1.0	µg/L	1	4/19/2015 20:55
Chloroethane	U		0.21	5.0	µg/L	1	4/19/2015 20:55
Chloroform	U		0.25	1.0	µg/L	1	4/19/2015 20:55
Chloromethane	U		0.25	5.0	µg/L	1	4/19/2015 20:55
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/19/2015 20:55
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/19/2015 20:55
Cyclohexane	U		0.31	1.0	µg/L	1	4/19/2015 20:55
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/19/2015 20:55
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/19/2015 20:55
Ethylbenzene	U		0.22	1.0	µg/L	1	4/19/2015 20:55
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/19/2015 20:55
Methyl acetate	U		0.62	10	µg/L	1	4/19/2015 20:55
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/19/2015 20:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040615-MR-001
Collection Date: 4/6/2015 02:01 PM

Work Order: 1504564
Lab ID: 1504564-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/19/2015 20:55
Methylene chloride	U		0.64	5.0	µg/L	1	4/19/2015 20:55
Styrene	U		0.18	1.0	µg/L	1	4/19/2015 20:55
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/19/2015 20:55
Toluene	U		0.20	1.0	µg/L	1	4/19/2015 20:55
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/19/2015 20:55
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/19/2015 20:55
Trichloroethene	1.9		0.34	1.0	µg/L	1	4/19/2015 20:55
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/19/2015 20:55
Vinyl chloride	U		0.19	1.0	µg/L	1	4/19/2015 20:55
Xylenes, Total	U		0.62	3.0	µg/L	1	4/19/2015 20:55
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/19/2015 20:55
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	4/19/2015 20:55
Surr: Dibromofluoromethane	99.0			85-115	%REC	1	4/19/2015 20:55
Surr: Toluene-d8	97.8			85-110	%REC	1	4/19/2015 20:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040615-MR-002
Collection Date: 4/6/2015 01:20 PM

Work Order: 1504564
Lab ID: 1504564-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161540</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 18:48
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 18:48
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 18:48
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 18:48
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 18:48
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 18:48
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 18:48
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 18:48
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 18:48
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 18:48
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 18:48
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 18:48
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 18:48
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 18:48
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 18:48
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 18:48
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 18:48
Acetone	U		3.1	50	µg/L	1	4/17/2015 18:48
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 18:48
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 18:48
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 18:48
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 18:48
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 18:48
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 18:48
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 18:48
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 18:48
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 18:48
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 18:48
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 18:48
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 18:48
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 18:48
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 18:48
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 18:48
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 18:48
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 18:48
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 18:48
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 18:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040615-MR-002
Collection Date: 4/6/2015 01:20 PM

Work Order: 1504564
Lab ID: 1504564-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 18:48
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 18:48
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 18:48
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 18:48
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 18:48
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 18:48
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 18:48
Trichloroethene	U		0.34	1.0	µg/L	1	4/17/2015 18:48
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 18:48
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 18:48
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 18:48
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/17/2015 18:48
Surr: 4-Bromofluorobenzene	97.0			80-110	%REC	1	4/17/2015 18:48
Surr: Dibromofluoromethane	95.8			85-115	%REC	1	4/17/2015 18:48
Surr: Toluene-d8	101			85-110	%REC	1	4/17/2015 18:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040615-MR-003
Collection Date: 4/6/2015 03:38 PM

Work Order: 1504564
Lab ID: 1504564-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161540</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 19:14
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 19:14
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 19:14
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 19:14
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 19:14
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 19:14
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 19:14
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 19:14
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 19:14
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 19:14
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 19:14
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 19:14
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 19:14
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 19:14
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 19:14
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 19:14
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 19:14
Acetone	U		3.1	50	µg/L	1	4/17/2015 19:14
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 19:14
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 19:14
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 19:14
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 19:14
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 19:14
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 19:14
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 19:14
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 19:14
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 19:14
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 19:14
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 19:14
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 19:14
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 19:14
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 19:14
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 19:14
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 19:14
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 19:14
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 19:14
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 19:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040615-MR-003
Collection Date: 4/6/2015 03:38 PM

Work Order: 1504564
Lab ID: 1504564-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 19:14
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 19:14
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 19:14
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 19:14
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 19:14
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 19:14
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 19:14
Trichloroethene	U		0.34	1.0	µg/L	1	4/17/2015 19:14
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 19:14
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 19:14
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 19:14
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/17/2015 19:14
Surr: 4-Bromofluorobenzene	96.0			80-110	%REC	1	4/17/2015 19:14
Surr: Dibromofluoromethane	95.5			85-115	%REC	1	4/17/2015 19:14
Surr: Toluene-d8	99.7			85-110	%REC	1	4/17/2015 19:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: SW-017360-040615-MR-004
Collection Date: 4/6/2015 04:15 PM

Work Order: 1504564
Lab ID: 1504564-04
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161540</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 19:39
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 19:39
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 19:39
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 19:39
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 19:39
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 19:39
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 19:39
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 19:39
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 19:39
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 19:39
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 19:39
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 19:39
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 19:39
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 19:39
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 19:39
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 19:39
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 19:39
Acetone	U		3.1	50	µg/L	1	4/17/2015 19:39
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 19:39
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 19:39
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 19:39
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 19:39
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 19:39
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 19:39
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 19:39
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 19:39
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 19:39
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 19:39
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 19:39
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 19:39
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 19:39
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 19:39
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 19:39
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 19:39
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 19:39
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 19:39
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 19:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: SW-017360-040615-MR-004
Collection Date: 4/6/2015 04:15 PM

Work Order: 1504564
Lab ID: 1504564-04
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 19:39
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 19:39
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 19:39
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 19:39
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 19:39
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 19:39
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 19:39
Trichloroethene	U		0.34	1.0	µg/L	1	4/17/2015 19:39
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 19:39
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 19:39
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 19:39
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/17/2015 19:39
Surr: 4-Bromofluorobenzene	96.1			80-110	%REC	1	4/17/2015 19:39
Surr: Dibromofluoromethane	95.6			85-115	%REC	1	4/17/2015 19:39
Surr: Toluene-d8	98.8			85-110	%REC	1	4/17/2015 19:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: SW-017360-040615-MR-005
Collection Date: 4/6/2015 04:30 PM

Work Order: 1504564
Lab ID: 1504564-05
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161540</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 20:04
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 20:04
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 20:04
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 20:04
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 20:04
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 20:04
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 20:04
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 20:04
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 20:04
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 20:04
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 20:04
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 20:04
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 20:04
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 20:04
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 20:04
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 20:04
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 20:04
Acetone	U		3.1	50	µg/L	1	4/17/2015 20:04
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 20:04
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 20:04
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 20:04
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 20:04
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 20:04
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 20:04
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 20:04
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 20:04
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 20:04
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 20:04
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 20:04
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 20:04
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 20:04
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 20:04
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 20:04
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 20:04
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 20:04
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 20:04
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 20:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: SW-017360-040615-MR-005
Collection Date: 4/6/2015 04:30 PM

Work Order: 1504564
Lab ID: 1504564-05
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 20:04
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 20:04
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 20:04
Tetrachloroethene	0.86	J	0.25	1.0	µg/L	1	4/17/2015 20:04
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 20:04
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 20:04
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 20:04
Trichloroethene	U		0.34	1.0	µg/L	1	4/17/2015 20:04
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 20:04
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 20:04
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 20:04
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	1	4/17/2015 20:04
Surr: 4-Bromofluorobenzene	96.0			80-110	%REC	1	4/17/2015 20:04
Surr: Dibromofluoromethane	95.6			85-115	%REC	1	4/17/2015 20:04
Surr: Toluene-d8	99.6			85-110	%REC	1	4/17/2015 20:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: SW-017360-040615-MR-006
Collection Date: 4/6/2015 04:45 PM

Work Order: 1504564
Lab ID: 1504564-06
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
BatchID: R161540							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 20:30
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 20:30
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 20:30
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 20:30
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 20:30
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 20:30
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 20:30
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 20:30
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 20:30
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 20:30
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 20:30
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 20:30
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 20:30
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 20:30
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 20:30
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 20:30
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 20:30
Acetone	U		3.1	50	µg/L	1	4/17/2015 20:30
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 20:30
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 20:30
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 20:30
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 20:30
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 20:30
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 20:30
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 20:30
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 20:30
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 20:30
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 20:30
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 20:30
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 20:30
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 20:30
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 20:30
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 20:30
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 20:30
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 20:30
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 20:30
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 20:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: SW-017360-040615-MR-006
Collection Date: 4/6/2015 04:45 PM

Work Order: 1504564
Lab ID: 1504564-06
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 20:30
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 20:30
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 20:30
Tetrachloroethene	0.47	J	0.25	1.0	µg/L	1	4/17/2015 20:30
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 20:30
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 20:30
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 20:30
Trichloroethene	U		0.34	1.0	µg/L	1	4/17/2015 20:30
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 20:30
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 20:30
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 20:30
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	1	4/17/2015 20:30
Surr: 4-Bromofluorobenzene	96.2			80-110	%REC	1	4/17/2015 20:30
Surr: Dibromofluoromethane	96.2			85-115	%REC	1	4/17/2015 20:30
Surr: Toluene-d8	101			85-110	%REC	1	4/17/2015 20:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-007
Collection Date: 4/7/2015 10:39 AM

Work Order: 1504564
Lab ID: 1504564-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
BatchID: R161540							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 20:55
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 20:55
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 20:55
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 20:55
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 20:55
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 20:55
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 20:55
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 20:55
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 20:55
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 20:55
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 20:55
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 20:55
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 20:55
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 20:55
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 20:55
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 20:55
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 20:55
Acetone	U		3.1	50	µg/L	1	4/17/2015 20:55
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 20:55
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 20:55
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 20:55
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 20:55
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 20:55
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 20:55
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 20:55
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 20:55
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 20:55
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 20:55
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 20:55
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 20:55
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 20:55
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 20:55
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 20:55
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 20:55
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 20:55
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 20:55
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 20:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-007
Collection Date: 4/7/2015 10:39 AM

Work Order: 1504564
Lab ID: 1504564-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 20:55
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 20:55
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 20:55
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 20:55
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 20:55
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 20:55
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 20:55
Trichloroethene	2.2		0.34	1.0	µg/L	1	4/17/2015 20:55
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 20:55
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 20:55
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 20:55
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/17/2015 20:55
Surr: 4-Bromofluorobenzene	96.4			80-110	%REC	1	4/17/2015 20:55
Surr: Dibromofluoromethane	97.6			85-115	%REC	1	4/17/2015 20:55
Surr: Toluene-d8	101			85-110	%REC	1	4/17/2015 20:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-008
Collection Date: 4/7/2015 11:20 AM

Work Order: 1504564
Lab ID: 1504564-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
BatchID: R161540							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 21:20
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 21:20
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 21:20
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 21:20
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 21:20
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 21:20
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 21:20
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 21:20
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 21:20
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 21:20
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 21:20
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 21:20
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 21:20
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 21:20
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 21:20
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 21:20
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 21:20
Acetone	U		3.1	50	µg/L	1	4/17/2015 21:20
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 21:20
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 21:20
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 21:20
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 21:20
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 21:20
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 21:20
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 21:20
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 21:20
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 21:20
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 21:20
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 21:20
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 21:20
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 21:20
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 21:20
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 21:20
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 21:20
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 21:20
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 21:20
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 21:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-008
Collection Date: 4/7/2015 11:20 AM

Work Order: 1504564
Lab ID: 1504564-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 21:20
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 21:20
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 21:20
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 21:20
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 21:20
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 21:20
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 21:20
Trichloroethene	2.4		0.34	1.0	µg/L	1	4/17/2015 21:20
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 21:20
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 21:20
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 21:20
Surr: 1,2-Dichloroethane-d4	104			75-120	%REC	1	4/17/2015 21:20
Surr: 4-Bromofluorobenzene	96.5			80-110	%REC	1	4/17/2015 21:20
Surr: Dibromofluoromethane	98.2			85-115	%REC	1	4/17/2015 21:20
Surr: Toluene-d8	99.8			85-110	%REC	1	4/17/2015 21:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-009
Collection Date: 4/7/2015 11:42 AM

Work Order: 1504564
Lab ID: 1504564-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161540</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 21:46
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 21:46
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 21:46
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 21:46
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 21:46
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 21:46
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 21:46
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 21:46
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 21:46
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 21:46
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 21:46
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 21:46
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 21:46
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 21:46
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 21:46
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 21:46
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 21:46
Acetone	U		3.1	50	µg/L	1	4/17/2015 21:46
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 21:46
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 21:46
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 21:46
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 21:46
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 21:46
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 21:46
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 21:46
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 21:46
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 21:46
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 21:46
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 21:46
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 21:46
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 21:46
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 21:46
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 21:46
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 21:46
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 21:46
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 21:46
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 21:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-009
Collection Date: 4/7/2015 11:42 AM

Work Order: 1504564
Lab ID: 1504564-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 21:46
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 21:46
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 21:46
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 21:46
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 21:46
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 21:46
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 21:46
Trichloroethene	U		0.34	1.0	µg/L	1	4/17/2015 21:46
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 21:46
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 21:46
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 21:46
Surr: 1,2-Dichloroethane-d4	105			75-120	%REC	1	4/17/2015 21:46
Surr: 4-Bromofluorobenzene	94.0			80-110	%REC	1	4/17/2015 21:46
Surr: Dibromofluoromethane	97.3			85-115	%REC	1	4/17/2015 21:46
Surr: Toluene-d8	100			85-110	%REC	1	4/17/2015 21:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-010
Collection Date: 4/7/2015 12:35 PM

Work Order: 1504564
Lab ID: 1504564-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
BatchID: R161540							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 22:11
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 22:11
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 22:11
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 22:11
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 22:11
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 22:11
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 22:11
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 22:11
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 22:11
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 22:11
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 22:11
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 22:11
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 22:11
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 22:11
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 22:11
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 22:11
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 22:11
Acetone	U		3.1	50	µg/L	1	4/17/2015 22:11
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 22:11
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 22:11
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 22:11
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 22:11
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 22:11
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 22:11
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 22:11
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 22:11
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 22:11
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 22:11
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 22:11
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 22:11
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 22:11
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 22:11
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 22:11
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 22:11
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 22:11
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 22:11
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 22:11

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-010
Collection Date: 4/7/2015 12:35 PM

Work Order: 1504564
Lab ID: 1504564-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 22:11
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 22:11
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 22:11
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 22:11
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 22:11
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 22:11
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 22:11
Trichloroethene	U		0.34	1.0	µg/L	1	4/17/2015 22:11
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 22:11
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 22:11
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 22:11
Surr: 1,2-Dichloroethane-d4	105			75-120	%REC	1	4/17/2015 22:11
Surr: 4-Bromofluorobenzene	96.4			80-110	%REC	1	4/17/2015 22:11
Surr: Dibromofluoromethane	96.6			85-115	%REC	1	4/17/2015 22:11
Surr: Toluene-d8	101			85-110	%REC	1	4/17/2015 22:11

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-011
Collection Date: 4/7/2015 01:57 PM

Work Order: 1504564
Lab ID: 1504564-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161540</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 22:37
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 22:37
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 22:37
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 22:37
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 22:37
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 22:37
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 22:37
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 22:37
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 22:37
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 22:37
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 22:37
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 22:37
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 22:37
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 22:37
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 22:37
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 22:37
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 22:37
Acetone	U		3.1	50	µg/L	1	4/17/2015 22:37
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 22:37
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 22:37
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 22:37
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 22:37
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 22:37
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 22:37
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 22:37
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 22:37
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 22:37
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 22:37
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 22:37
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 22:37
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 22:37
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 22:37
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 22:37
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 22:37
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 22:37
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 22:37
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 22:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-011
Collection Date: 4/7/2015 01:57 PM

Work Order: 1504564
Lab ID: 1504564-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 22:37
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 22:37
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 22:37
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 22:37
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 22:37
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 22:37
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 22:37
Trichloroethene	1.2		0.34	1.0	µg/L	1	4/17/2015 22:37
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 22:37
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 22:37
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 22:37
Surr: 1,2-Dichloroethane-d4	104			75-120	%REC	1	4/17/2015 22:37
Surr: 4-Bromofluorobenzene	95.6			80-110	%REC	1	4/17/2015 22:37
Surr: Dibromofluoromethane	97.4			85-115	%REC	1	4/17/2015 22:37
Surr: Toluene-d8	101			85-110	%REC	1	4/17/2015 22:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-012
Collection Date: 4/7/2015 02:42 PM

Work Order: 1504564
Lab ID: 1504564-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7470			Prep: SW7470 / 4/10/15	Analyst: LR
BatchID: <u>69693</u>							
Mercury	U		0.000018	0.00020	mg/L	1	4/10/2015 21:03
METALS BY ICP-MS							
			SW6020A			Prep: SW3005A / 4/13/15	Analyst: RH
BatchID: <u>69767</u>							
Antimony	U		0.00011	0.0050	mg/L	1	4/15/2015 04:52
Arsenic	0.0016	J	0.00056	0.0050	mg/L	1	4/15/2015 04:52
Barium	0.093		0.00030	0.0050	mg/L	1	4/15/2015 04:52
Beryllium	U		0.00017	0.0020	mg/L	1	4/15/2015 04:52
Cadmium	U		0.000026	0.0020	mg/L	1	4/15/2015 04:52
Chromium	U		0.00013	0.0050	mg/L	1	4/15/2015 04:52
Cobalt	0.00032	J	0.00010	0.0050	mg/L	1	4/15/2015 04:52
Copper	0.00087	J	0.00017	0.0050	mg/L	1	4/15/2015 04:52
Lead	0.0011	J	0.00030	0.0050	mg/L	1	4/15/2015 04:52
Manganese	0.035		0.00016	0.0050	mg/L	1	4/15/2015 04:52
Molybdenum	0.00061	J	0.00040	0.0050	mg/L	1	4/15/2015 04:52
Nickel	0.0045	J	0.00031	0.0050	mg/L	1	4/15/2015 04:52
Selenium	U		0.00075	0.0050	mg/L	1	4/15/2015 04:52
Silver	U		0.000020	0.0050	mg/L	1	4/15/2015 04:52
Thallium	U		0.00048	0.0050	mg/L	1	4/15/2015 04:52
Vanadium	U		0.00046	0.0050	mg/L	1	4/15/2015 04:52
Zinc	0.0056	J	0.0029	0.010	mg/L	1	4/15/2015 04:52
VOLATILE ORGANIC COMPOUNDS							
			SW8260				Analyst: LSY
BatchID: <u>R161540</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 23:02
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 23:02
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 23:02
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 23:02
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 23:02
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 23:02
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 23:02
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 23:02
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 23:02
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 23:02
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 23:02
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 23:02
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 23:02
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 23:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-012
Collection Date: 4/7/2015 02:42 PM

Work Order: 1504564
Lab ID: 1504564-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 23:02
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 23:02
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 23:02
Acetone	U		3.1	50	µg/L	1	4/17/2015 23:02
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 23:02
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 23:02
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 23:02
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 23:02
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 23:02
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 23:02
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 23:02
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 23:02
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 23:02
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 23:02
cis-1,2-Dichloroethene	15		0.25	1.0	µg/L	1	4/17/2015 23:02
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 23:02
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 23:02
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 23:02
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 23:02
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 23:02
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 23:02
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 23:02
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 23:02
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 23:02
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 23:02
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 23:02
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 23:02
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 23:02
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 23:02
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 23:02
Trichloroethene	U		0.34	1.0	µg/L	1	4/17/2015 23:02
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 23:02
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 23:02
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 23:02
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/17/2015 23:02
Surr: 4-Bromofluorobenzene	93.1			80-110	%REC	1	4/17/2015 23:02
Surr: Dibromofluoromethane	95.8			85-115	%REC	1	4/17/2015 23:02
Surr: Toluene-d8	99.4			85-110	%REC	1	4/17/2015 23:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-013
Collection Date: 4/7/2015 03:00 PM

Work Order: 1504564
Lab ID: 1504564-13
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7470			Prep: SW7470 / 4/10/15	Analyst: LR
BatchID: <u>69693</u>							
Mercury	U		0.000018	0.00020	mg/L	1	4/10/2015 21:05
METALS BY ICP-MS							
			SW6020A			Prep: SW3005A / 4/13/15	Analyst: RH
BatchID: <u>69767</u>							
Antimony	U		0.00011	0.0050	mg/L	1	4/15/2015 04:57
Arsenic	0.0014	J	0.00056	0.0050	mg/L	1	4/15/2015 04:57
Barium	0.091		0.00030	0.0050	mg/L	1	4/15/2015 04:57
Beryllium	U		0.00017	0.0020	mg/L	1	4/15/2015 04:57
Cadmium	U		0.000026	0.0020	mg/L	1	4/15/2015 04:57
Chromium	U		0.00013	0.0050	mg/L	1	4/15/2015 04:57
Cobalt	0.00032	J	0.00010	0.0050	mg/L	1	4/15/2015 04:57
Copper	0.00071	J	0.00017	0.0050	mg/L	1	4/15/2015 04:57
Lead	0.0011	J	0.00030	0.0050	mg/L	1	4/15/2015 04:57
Manganese	0.035		0.00016	0.0050	mg/L	1	4/15/2015 04:57
Molybdenum	0.00059	J	0.00040	0.0050	mg/L	1	4/15/2015 04:57
Nickel	0.0045	J	0.00031	0.0050	mg/L	1	4/15/2015 04:57
Selenium	U		0.00075	0.0050	mg/L	1	4/15/2015 04:57
Silver	U		0.000020	0.0050	mg/L	1	4/15/2015 04:57
Thallium	U		0.00048	0.0050	mg/L	1	4/15/2015 04:57
Vanadium	U		0.00046	0.0050	mg/L	1	4/15/2015 04:57
Zinc	0.0053	J	0.0029	0.010	mg/L	1	4/15/2015 04:57
VOLATILE ORGANIC COMPOUNDS							
			SW8260				Analyst: LSY
BatchID: <u>R161540</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 23:28
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 23:28
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 23:28
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 23:28
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 23:28
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 23:28
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 23:28
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 23:28
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 23:28
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 23:28
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 23:28
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 23:28
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 23:28
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 23:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-013
Collection Date: 4/7/2015 03:00 PM

Work Order: 1504564
Lab ID: 1504564-13
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 23:28
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 23:28
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 23:28
Acetone	U		3.1	50	µg/L	1	4/17/2015 23:28
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 23:28
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 23:28
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 23:28
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 23:28
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 23:28
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 23:28
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 23:28
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 23:28
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 23:28
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 23:28
cis-1,2-Dichloroethene	15		0.25	1.0	µg/L	1	4/17/2015 23:28
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 23:28
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 23:28
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 23:28
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 23:28
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 23:28
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 23:28
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 23:28
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 23:28
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 23:28
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 23:28
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 23:28
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 23:28
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 23:28
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 23:28
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 23:28
Trichloroethene	U		0.34	1.0	µg/L	1	4/17/2015 23:28
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 23:28
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 23:28
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 23:28
Surr: 1,2-Dichloroethane-d4	106			75-120	%REC	1	4/17/2015 23:28
Surr: 4-Bromofluorobenzene	95.4			80-110	%REC	1	4/17/2015 23:28
Surr: Dibromofluoromethane	98.2			85-115	%REC	1	4/17/2015 23:28
Surr: Toluene-d8	99.6			85-110	%REC	1	4/17/2015 23:28

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-014
Collection Date: 4/7/2015 04:36 PM

Work Order: 1504564
Lab ID: 1504564-14
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161540</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/17/2015 23:53
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/17/2015 23:53
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/17/2015 23:53
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/17/2015 23:53
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/17/2015 23:53
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/17/2015 23:53
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/17/2015 23:53
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/17/2015 23:53
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/17/2015 23:53
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/17/2015 23:53
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/17/2015 23:53
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/17/2015 23:53
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/17/2015 23:53
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/17/2015 23:53
2-Butanone	U		0.87	25	µg/L	1	4/17/2015 23:53
2-Hexanone	U		0.15	50	µg/L	1	4/17/2015 23:53
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/17/2015 23:53
Acetone	U		3.1	50	µg/L	1	4/17/2015 23:53
Benzene	U		0.25	1.0	µg/L	1	4/17/2015 23:53
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/17/2015 23:53
Bromoform	U		0.099	1.0	µg/L	1	4/17/2015 23:53
Bromomethane	U		1.0	5.0	µg/L	1	4/17/2015 23:53
Carbon disulfide	U		0.26	5.0	µg/L	1	4/17/2015 23:53
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/17/2015 23:53
Chlorobenzene	U		0.19	1.0	µg/L	1	4/17/2015 23:53
Chloroethane	U		0.21	5.0	µg/L	1	4/17/2015 23:53
Chloroform	U		0.25	1.0	µg/L	1	4/17/2015 23:53
Chloromethane	U		0.25	5.0	µg/L	1	4/17/2015 23:53
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/17/2015 23:53
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/17/2015 23:53
Cyclohexane	U		0.31	1.0	µg/L	1	4/17/2015 23:53
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/17/2015 23:53
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/17/2015 23:53
Ethylbenzene	U		0.22	1.0	µg/L	1	4/17/2015 23:53
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/17/2015 23:53
Methyl acetate	U		0.62	10	µg/L	1	4/17/2015 23:53
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/17/2015 23:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040715-MR-014
Collection Date: 4/7/2015 04:36 PM

Work Order: 1504564
Lab ID: 1504564-14
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/17/2015 23:53
Methylene chloride	U		0.64	5.0	µg/L	1	4/17/2015 23:53
Styrene	U		0.18	1.0	µg/L	1	4/17/2015 23:53
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/17/2015 23:53
Toluene	U		0.20	1.0	µg/L	1	4/17/2015 23:53
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/17/2015 23:53
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/17/2015 23:53
Trichloroethene	U		0.34	1.0	µg/L	1	4/17/2015 23:53
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/17/2015 23:53
Vinyl chloride	U		0.19	1.0	µg/L	1	4/17/2015 23:53
Xylenes, Total	U		0.62	3.0	µg/L	1	4/17/2015 23:53
Surr: 1,2-Dichloroethane-d4	104			75-120	%REC	1	4/17/2015 23:53
Surr: 4-Bromofluorobenzene	98.0			80-110	%REC	1	4/17/2015 23:53
Surr: Dibromofluoromethane	98.8			85-115	%REC	1	4/17/2015 23:53
Surr: Toluene-d8	108			85-110	%REC	1	4/17/2015 23:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-015
Collection Date: 4/8/2015 10:23 AM

Work Order: 1504564
Lab ID: 1504564-15
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
BatchID: R161540							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/18/2015 12:18
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/18/2015 12:18
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/18/2015 12:18
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/18/2015 12:18
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/18/2015 12:18
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/18/2015 12:18
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/18/2015 12:18
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/18/2015 12:18
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/18/2015 12:18
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/18/2015 12:18
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/18/2015 12:18
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/18/2015 12:18
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/18/2015 12:18
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/18/2015 12:18
2-Butanone	U		0.87	25	µg/L	1	4/18/2015 12:18
2-Hexanone	U		0.15	50	µg/L	1	4/18/2015 12:18
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/18/2015 12:18
Acetone	U		3.1	50	µg/L	1	4/18/2015 12:18
Benzene	U		0.25	1.0	µg/L	1	4/18/2015 12:18
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/18/2015 12:18
Bromoform	U		0.099	1.0	µg/L	1	4/18/2015 12:18
Bromomethane	U		1.0	5.0	µg/L	1	4/18/2015 12:18
Carbon disulfide	U		0.26	5.0	µg/L	1	4/18/2015 12:18
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/18/2015 12:18
Chlorobenzene	U		0.19	1.0	µg/L	1	4/18/2015 12:18
Chloroethane	U		0.21	5.0	µg/L	1	4/18/2015 12:18
Chloroform	U		0.25	1.0	µg/L	1	4/18/2015 12:18
Chloromethane	U		0.25	5.0	µg/L	1	4/18/2015 12:18
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/18/2015 12:18
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/18/2015 12:18
Cyclohexane	U		0.31	1.0	µg/L	1	4/18/2015 12:18
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/18/2015 12:18
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/18/2015 12:18
Ethylbenzene	U		0.22	1.0	µg/L	1	4/18/2015 12:18
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/18/2015 12:18
Methyl acetate	U		0.62	10	µg/L	1	4/18/2015 12:18
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/18/2015 12:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-015
Collection Date: 4/8/2015 10:23 AM

Work Order: 1504564
Lab ID: 1504564-15
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/18/2015 12:18
Methylene chloride	U		0.64	5.0	µg/L	1	4/18/2015 12:18
Styrene	U		0.18	1.0	µg/L	1	4/18/2015 12:18
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/18/2015 12:18
Toluene	U		0.20	1.0	µg/L	1	4/18/2015 12:18
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/18/2015 12:18
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/18/2015 12:18
Trichloroethene	U		0.34	1.0	µg/L	1	4/18/2015 12:18
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/18/2015 12:18
Vinyl chloride	U		0.19	1.0	µg/L	1	4/18/2015 12:18
Xylenes, Total	U		0.62	3.0	µg/L	1	4/18/2015 12:18
Surr: 1,2-Dichloroethane-d4	105			75-120	%REC	1	4/18/2015 12:18
Surr: 4-Bromofluorobenzene	94.5			80-110	%REC	1	4/18/2015 12:18
Surr: Dibromofluoromethane	98.0			85-115	%REC	1	4/18/2015 12:18
Surr: Toluene-d8	100			85-110	%REC	1	4/18/2015 12:18

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-016
Collection Date: 4/8/2015 11:01 AM

Work Order: 1504564
Lab ID: 1504564-16
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/19/2015 21:21
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/19/2015 21:21
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/19/2015 21:21
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/19/2015 21:21
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/19/2015 21:21
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/19/2015 21:21
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/19/2015 21:21
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/19/2015 21:21
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/19/2015 21:21
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/19/2015 21:21
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/19/2015 21:21
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/19/2015 21:21
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/19/2015 21:21
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/19/2015 21:21
2-Butanone	U		0.87	25	µg/L	1	4/19/2015 21:21
2-Hexanone	U		0.15	50	µg/L	1	4/19/2015 21:21
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/19/2015 21:21
Acetone	U		3.1	50	µg/L	1	4/19/2015 21:21
Benzene	U		0.25	1.0	µg/L	1	4/19/2015 21:21
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/19/2015 21:21
Bromoform	U		0.099	1.0	µg/L	1	4/19/2015 21:21
Bromomethane	U		1.0	5.0	µg/L	1	4/19/2015 21:21
Carbon disulfide	U		0.26	5.0	µg/L	1	4/19/2015 21:21
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/19/2015 21:21
Chlorobenzene	U		0.19	1.0	µg/L	1	4/19/2015 21:21
Chloroethane	U		0.21	5.0	µg/L	1	4/19/2015 21:21
Chloroform	U		0.25	1.0	µg/L	1	4/19/2015 21:21
Chloromethane	U		0.25	5.0	µg/L	1	4/19/2015 21:21
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/19/2015 21:21
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/19/2015 21:21
Cyclohexane	U		0.31	1.0	µg/L	1	4/19/2015 21:21
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/19/2015 21:21
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/19/2015 21:21
Ethylbenzene	U		0.22	1.0	µg/L	1	4/19/2015 21:21
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/19/2015 21:21
Methyl acetate	U		0.62	10	µg/L	1	4/19/2015 21:21
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/19/2015 21:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-016
Collection Date: 4/8/2015 11:01 AM

Work Order: 1504564
Lab ID: 1504564-16
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/19/2015 21:21
Methylene chloride	U		0.64	5.0	µg/L	1	4/19/2015 21:21
Styrene	U		0.18	1.0	µg/L	1	4/19/2015 21:21
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/19/2015 21:21
Toluene	U		0.20	1.0	µg/L	1	4/19/2015 21:21
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/19/2015 21:21
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/19/2015 21:21
Trichloroethene	U		0.34	1.0	µg/L	1	4/19/2015 21:21
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/19/2015 21:21
Vinyl chloride	U		0.19	1.0	µg/L	1	4/19/2015 21:21
Xylenes, Total	U		0.62	3.0	µg/L	1	4/19/2015 21:21
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	1	4/19/2015 21:21
Surr: 4-Bromofluorobenzene	101			80-110	%REC	1	4/19/2015 21:21
Surr: Dibromofluoromethane	103			85-115	%REC	1	4/19/2015 21:21
Surr: Toluene-d8	96.4			85-110	%REC	1	4/19/2015 21:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-017
Collection Date: 4/8/2015 12:10 PM

Work Order: 1504564
Lab ID: 1504564-17
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/19/2015 21:48
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/19/2015 21:48
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/19/2015 21:48
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/19/2015 21:48
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/19/2015 21:48
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/19/2015 21:48
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/19/2015 21:48
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/19/2015 21:48
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/19/2015 21:48
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/19/2015 21:48
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/19/2015 21:48
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/19/2015 21:48
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/19/2015 21:48
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/19/2015 21:48
2-Butanone	U		0.87	25	µg/L	1	4/19/2015 21:48
2-Hexanone	U		0.15	50	µg/L	1	4/19/2015 21:48
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/19/2015 21:48
Acetone	U		3.1	50	µg/L	1	4/19/2015 21:48
Benzene	U		0.25	1.0	µg/L	1	4/19/2015 21:48
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/19/2015 21:48
Bromoform	U		0.099	1.0	µg/L	1	4/19/2015 21:48
Bromomethane	U		1.0	5.0	µg/L	1	4/19/2015 21:48
Carbon disulfide	U		0.26	5.0	µg/L	1	4/19/2015 21:48
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/19/2015 21:48
Chlorobenzene	U		0.19	1.0	µg/L	1	4/19/2015 21:48
Chloroethane	U		0.21	5.0	µg/L	1	4/19/2015 21:48
Chloroform	U		0.25	1.0	µg/L	1	4/19/2015 21:48
Chloromethane	U		0.25	5.0	µg/L	1	4/19/2015 21:48
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/19/2015 21:48
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/19/2015 21:48
Cyclohexane	U		0.31	1.0	µg/L	1	4/19/2015 21:48
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/19/2015 21:48
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/19/2015 21:48
Ethylbenzene	U		0.22	1.0	µg/L	1	4/19/2015 21:48
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/19/2015 21:48
Methyl acetate	U		0.62	10	µg/L	1	4/19/2015 21:48
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/19/2015 21:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-017
Collection Date: 4/8/2015 12:10 PM

Work Order: 1504564
Lab ID: 1504564-17
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/19/2015 21:48
Methylene chloride	U		0.64	5.0	µg/L	1	4/19/2015 21:48
Styrene	U		0.18	1.0	µg/L	1	4/19/2015 21:48
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/19/2015 21:48
Toluene	U		0.20	1.0	µg/L	1	4/19/2015 21:48
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/19/2015 21:48
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/19/2015 21:48
Trichloroethene	2.2		0.34	1.0	µg/L	1	4/19/2015 21:48
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/19/2015 21:48
Vinyl chloride	U		0.19	1.0	µg/L	1	4/19/2015 21:48
Xylenes, Total	U		0.62	3.0	µg/L	1	4/19/2015 21:48
Surr: 1,2-Dichloroethane-d4	104			75-120	%REC	1	4/19/2015 21:48
Surr: 4-Bromofluorobenzene	98.8			80-110	%REC	1	4/19/2015 21:48
Surr: Dibromofluoromethane	96.4			85-115	%REC	1	4/19/2015 21:48
Surr: Toluene-d8	97.0			85-110	%REC	1	4/19/2015 21:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-018
Collection Date: 4/8/2015 01:26 PM

Work Order: 1504564
Lab ID: 1504564-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/19/2015 22:14
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/19/2015 22:14
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/19/2015 22:14
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/19/2015 22:14
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/19/2015 22:14
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/19/2015 22:14
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/19/2015 22:14
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/19/2015 22:14
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/19/2015 22:14
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/19/2015 22:14
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/19/2015 22:14
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/19/2015 22:14
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/19/2015 22:14
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/19/2015 22:14
2-Butanone	U		0.87	25	µg/L	1	4/19/2015 22:14
2-Hexanone	U		0.15	50	µg/L	1	4/19/2015 22:14
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/19/2015 22:14
Acetone	U		3.1	50	µg/L	1	4/19/2015 22:14
Benzene	U		0.25	1.0	µg/L	1	4/19/2015 22:14
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/19/2015 22:14
Bromoform	U		0.099	1.0	µg/L	1	4/19/2015 22:14
Bromomethane	U		1.0	5.0	µg/L	1	4/19/2015 22:14
Carbon disulfide	U		0.26	5.0	µg/L	1	4/19/2015 22:14
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/19/2015 22:14
Chlorobenzene	U		0.19	1.0	µg/L	1	4/19/2015 22:14
Chloroethane	U		0.21	5.0	µg/L	1	4/19/2015 22:14
Chloroform	U		0.25	1.0	µg/L	1	4/19/2015 22:14
Chloromethane	U		0.25	5.0	µg/L	1	4/19/2015 22:14
cis-1,2-Dichloroethene	1.6		0.25	1.0	µg/L	1	4/19/2015 22:14
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/19/2015 22:14
Cyclohexane	U		0.31	1.0	µg/L	1	4/19/2015 22:14
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/19/2015 22:14
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/19/2015 22:14
Ethylbenzene	U		0.22	1.0	µg/L	1	4/19/2015 22:14
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/19/2015 22:14
Methyl acetate	U		0.62	10	µg/L	1	4/19/2015 22:14
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/19/2015 22:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-018
Collection Date: 4/8/2015 01:26 PM

Work Order: 1504564
Lab ID: 1504564-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/19/2015 22:14
Methylene chloride	U		0.64	5.0	µg/L	1	4/19/2015 22:14
Styrene	U		0.18	1.0	µg/L	1	4/19/2015 22:14
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/19/2015 22:14
Toluene	U		0.20	1.0	µg/L	1	4/19/2015 22:14
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/19/2015 22:14
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/19/2015 22:14
Trichloroethene	3.8		0.34	1.0	µg/L	1	4/19/2015 22:14
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/19/2015 22:14
Vinyl chloride	U		0.19	1.0	µg/L	1	4/19/2015 22:14
Xylenes, Total	U		0.62	3.0	µg/L	1	4/19/2015 22:14
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/19/2015 22:14
Surr: 4-Bromofluorobenzene	97.4			80-110	%REC	1	4/19/2015 22:14
Surr: Dibromofluoromethane	99.6			85-115	%REC	1	4/19/2015 22:14
Surr: Toluene-d8	95.8			85-110	%REC	1	4/19/2015 22:14

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-019
Collection Date: 4/8/2015 02:43 PM

Work Order: 1504564
Lab ID: 1504564-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/19/2015 22:40
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/19/2015 22:40
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/19/2015 22:40
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/19/2015 22:40
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/19/2015 22:40
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/19/2015 22:40
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/19/2015 22:40
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/19/2015 22:40
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/19/2015 22:40
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/19/2015 22:40
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/19/2015 22:40
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/19/2015 22:40
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/19/2015 22:40
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/19/2015 22:40
2-Butanone	U		0.87	25	µg/L	1	4/19/2015 22:40
2-Hexanone	U		0.15	50	µg/L	1	4/19/2015 22:40
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/19/2015 22:40
Acetone	U		3.1	50	µg/L	1	4/19/2015 22:40
Benzene	U		0.25	1.0	µg/L	1	4/19/2015 22:40
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/19/2015 22:40
Bromoform	U		0.099	1.0	µg/L	1	4/19/2015 22:40
Bromomethane	U		1.0	5.0	µg/L	1	4/19/2015 22:40
Carbon disulfide	U		0.26	5.0	µg/L	1	4/19/2015 22:40
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/19/2015 22:40
Chlorobenzene	U		0.19	1.0	µg/L	1	4/19/2015 22:40
Chloroethane	U		0.21	5.0	µg/L	1	4/19/2015 22:40
Chloroform	U		0.25	1.0	µg/L	1	4/19/2015 22:40
Chloromethane	U		0.25	5.0	µg/L	1	4/19/2015 22:40
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/19/2015 22:40
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/19/2015 22:40
Cyclohexane	U		0.31	1.0	µg/L	1	4/19/2015 22:40
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/19/2015 22:40
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/19/2015 22:40
Ethylbenzene	U		0.22	1.0	µg/L	1	4/19/2015 22:40
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/19/2015 22:40
Methyl acetate	U		0.62	10	µg/L	1	4/19/2015 22:40
Methyl tert-butyl ether	1.5	J	0.12	5.0	µg/L	1	4/19/2015 22:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-019
Collection Date: 4/8/2015 02:43 PM

Work Order: 1504564
Lab ID: 1504564-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/19/2015 22:40
Methylene chloride	U		0.64	5.0	µg/L	1	4/19/2015 22:40
Styrene	U		0.18	1.0	µg/L	1	4/19/2015 22:40
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/19/2015 22:40
Toluene	U		0.20	1.0	µg/L	1	4/19/2015 22:40
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/19/2015 22:40
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/19/2015 22:40
Trichloroethene	U		0.34	1.0	µg/L	1	4/19/2015 22:40
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/19/2015 22:40
Vinyl chloride	U		0.19	1.0	µg/L	1	4/19/2015 22:40
Xylenes, Total	U		0.62	3.0	µg/L	1	4/19/2015 22:40
Surr: 1,2-Dichloroethane-d4	99.5			75-120	%REC	1	4/19/2015 22:40
Surr: 4-Bromofluorobenzene	99.0			80-110	%REC	1	4/19/2015 22:40
Surr: Dibromofluoromethane	97.6			85-115	%REC	1	4/19/2015 22:40
Surr: Toluene-d8	97.6			85-110	%REC	1	4/19/2015 22:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-020
Collection Date: 4/8/2015 04:05 PM

Work Order: 1504564
Lab ID: 1504564-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/19/2015 23:07
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/19/2015 23:07
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/19/2015 23:07
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/19/2015 23:07
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/19/2015 23:07
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/19/2015 23:07
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/19/2015 23:07
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/19/2015 23:07
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/19/2015 23:07
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/19/2015 23:07
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/19/2015 23:07
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/19/2015 23:07
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/19/2015 23:07
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/19/2015 23:07
2-Butanone	U		0.87	25	µg/L	1	4/19/2015 23:07
2-Hexanone	U		0.15	50	µg/L	1	4/19/2015 23:07
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/19/2015 23:07
Acetone	U		3.1	50	µg/L	1	4/19/2015 23:07
Benzene	U		0.25	1.0	µg/L	1	4/19/2015 23:07
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/19/2015 23:07
Bromoform	U		0.099	1.0	µg/L	1	4/19/2015 23:07
Bromomethane	U		1.0	5.0	µg/L	1	4/19/2015 23:07
Carbon disulfide	U		0.26	5.0	µg/L	1	4/19/2015 23:07
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/19/2015 23:07
Chlorobenzene	U		0.19	1.0	µg/L	1	4/19/2015 23:07
Chloroethane	U		0.21	5.0	µg/L	1	4/19/2015 23:07
Chloroform	U		0.25	1.0	µg/L	1	4/19/2015 23:07
Chloromethane	U		0.25	5.0	µg/L	1	4/19/2015 23:07
cis-1,2-Dichloroethene	49		0.25	1.0	µg/L	1	4/19/2015 23:07
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/19/2015 23:07
Cyclohexane	U		0.31	1.0	µg/L	1	4/19/2015 23:07
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/19/2015 23:07
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/19/2015 23:07
Ethylbenzene	U		0.22	1.0	µg/L	1	4/19/2015 23:07
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/19/2015 23:07
Methyl acetate	U		0.62	10	µg/L	1	4/19/2015 23:07
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/19/2015 23:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040815-MR-020
Collection Date: 4/8/2015 04:05 PM

Work Order: 1504564
Lab ID: 1504564-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/19/2015 23:07
Methylene chloride	U		0.64	5.0	µg/L	1	4/19/2015 23:07
Styrene	U		0.18	1.0	µg/L	1	4/19/2015 23:07
Toluene	U		0.20	1.0	µg/L	1	4/19/2015 23:07
trans-1,2-Dichloroethene	1.7		0.29	1.0	µg/L	1	4/19/2015 23:07
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/19/2015 23:07
Trichloroethene	10		0.34	1.0	µg/L	1	4/19/2015 23:07
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/19/2015 23:07
Vinyl chloride	U		0.19	1.0	µg/L	1	4/19/2015 23:07
Xylenes, Total	U		0.62	3.0	µg/L	1	4/19/2015 23:07
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	1	4/19/2015 23:07
Surr: 4-Bromofluorobenzene	98.1			80-110	%REC	1	4/19/2015 23:07
Surr: Dibromofluoromethane	97.3			85-115	%REC	1	4/19/2015 23:07
Surr: Toluene-d8	94.4			85-110	%REC	1	4/19/2015 23:07
BatchID: R161617							
Tetrachloroethene	100		1.2	5.0	µg/L	5	4/20/2015 15:22
Surr: 1,2-Dichloroethane-d4	103			75-120	%REC	5	4/20/2015 15:22
Surr: 4-Bromofluorobenzene	91.8			80-110	%REC	5	4/20/2015 15:22
Surr: Dibromofluoromethane	102			85-115	%REC	5	4/20/2015 15:22
Surr: Toluene-d8	98.8			85-110	%REC	5	4/20/2015 15:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-021
Collection Date: 4/9/2015 11:27 AM

Work Order: 1504564
Lab ID: 1504564-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/20/2015 02:36
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/20/2015 02:36
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/20/2015 02:36
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/20/2015 02:36
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/20/2015 02:36
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/20/2015 02:36
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/20/2015 02:36
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/20/2015 02:36
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/20/2015 02:36
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/20/2015 02:36
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/20/2015 02:36
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/20/2015 02:36
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/20/2015 02:36
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/20/2015 02:36
2-Butanone	U		0.87	25	µg/L	1	4/20/2015 02:36
2-Hexanone	U		0.15	50	µg/L	1	4/20/2015 02:36
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/20/2015 02:36
Acetone	U		3.1	50	µg/L	1	4/20/2015 02:36
Benzene	U		0.25	1.0	µg/L	1	4/20/2015 02:36
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/20/2015 02:36
Bromoform	U		0.099	1.0	µg/L	1	4/20/2015 02:36
Bromomethane	U		1.0	5.0	µg/L	1	4/20/2015 02:36
Carbon disulfide	U		0.26	5.0	µg/L	1	4/20/2015 02:36
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/20/2015 02:36
Chlorobenzene	U		0.19	1.0	µg/L	1	4/20/2015 02:36
Chloroethane	U		0.21	5.0	µg/L	1	4/20/2015 02:36
Chloroform	U		0.25	1.0	µg/L	1	4/20/2015 02:36
Chloromethane	U		0.25	5.0	µg/L	1	4/20/2015 02:36
cis-1,2-Dichloroethene	1.9		0.25	1.0	µg/L	1	4/20/2015 02:36
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/20/2015 02:36
Cyclohexane	U		0.31	1.0	µg/L	1	4/20/2015 02:36
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/20/2015 02:36
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/20/2015 02:36
Ethylbenzene	U		0.22	1.0	µg/L	1	4/20/2015 02:36
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/20/2015 02:36
Methyl acetate	U		0.62	10	µg/L	1	4/20/2015 02:36
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/20/2015 02:36

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-021
Collection Date: 4/9/2015 11:27 AM

Work Order: 1504564
Lab ID: 1504564-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/20/2015 02:36
Methylene chloride	U		0.64	5.0	µg/L	1	4/20/2015 02:36
Styrene	U		0.18	1.0	µg/L	1	4/20/2015 02:36
Toluene	U		0.20	1.0	µg/L	1	4/20/2015 02:36
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/20/2015 02:36
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/20/2015 02:36
Trichloroethene	2.2		0.34	1.0	µg/L	1	4/20/2015 02:36
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/20/2015 02:36
Vinyl chloride	U		0.19	1.0	µg/L	1	4/20/2015 02:36
Xylenes, Total	U		0.62	3.0	µg/L	1	4/20/2015 02:36
Surr: 1,2-Dichloroethane-d4	100			75-120	%REC	1	4/20/2015 02:36
Surr: 4-Bromofluorobenzene	97.8			80-110	%REC	1	4/20/2015 02:36
Surr: Dibromofluoromethane	97.6			85-115	%REC	1	4/20/2015 02:36
Surr: Toluene-d8	93.9			85-110	%REC	1	4/20/2015 02:36
BatchID: R161585							
Tetrachloroethene	240		1.2	5.0	µg/L	5	4/20/2015 01:43
Surr: 1,2-Dichloroethane-d4	98.3			75-120	%REC	5	4/20/2015 01:43
Surr: 4-Bromofluorobenzene	98.1			80-110	%REC	5	4/20/2015 01:43
Surr: Dibromofluoromethane	98.4			85-115	%REC	5	4/20/2015 01:43
Surr: Toluene-d8	95.4			85-110	%REC	5	4/20/2015 01:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-022
Collection Date: 4/9/2015 01:38 PM

Work Order: 1504564
Lab ID: 1504564-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/19/2015 23:33
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/19/2015 23:33
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/19/2015 23:33
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/19/2015 23:33
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/19/2015 23:33
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/19/2015 23:33
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/19/2015 23:33
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/19/2015 23:33
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/19/2015 23:33
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/19/2015 23:33
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/19/2015 23:33
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/19/2015 23:33
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/19/2015 23:33
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/19/2015 23:33
2-Butanone	U		0.87	25	µg/L	1	4/19/2015 23:33
2-Hexanone	U		0.15	50	µg/L	1	4/19/2015 23:33
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/19/2015 23:33
Acetone	U		3.1	50	µg/L	1	4/19/2015 23:33
Benzene	U		0.25	1.0	µg/L	1	4/19/2015 23:33
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/19/2015 23:33
Bromoform	U		0.099	1.0	µg/L	1	4/19/2015 23:33
Bromomethane	U		1.0	5.0	µg/L	1	4/19/2015 23:33
Carbon disulfide	U		0.26	5.0	µg/L	1	4/19/2015 23:33
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/19/2015 23:33
Chlorobenzene	U		0.19	1.0	µg/L	1	4/19/2015 23:33
Chloroethane	U		0.21	5.0	µg/L	1	4/19/2015 23:33
Chloroform	U		0.25	1.0	µg/L	1	4/19/2015 23:33
Chloromethane	U		0.25	5.0	µg/L	1	4/19/2015 23:33
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/19/2015 23:33
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/19/2015 23:33
Cyclohexane	U		0.31	1.0	µg/L	1	4/19/2015 23:33
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/19/2015 23:33
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/19/2015 23:33
Ethylbenzene	U		0.22	1.0	µg/L	1	4/19/2015 23:33
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/19/2015 23:33
Methyl acetate	U		0.62	10	µg/L	1	4/19/2015 23:33
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/19/2015 23:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-022
Collection Date: 4/9/2015 01:38 PM

Work Order: 1504564
Lab ID: 1504564-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/19/2015 23:33
Methylene chloride	U		0.64	5.0	µg/L	1	4/19/2015 23:33
Styrene	U		0.18	1.0	µg/L	1	4/19/2015 23:33
Tetrachloroethene	6.7		0.25	1.0	µg/L	1	4/19/2015 23:33
Toluene	U		0.20	1.0	µg/L	1	4/19/2015 23:33
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/19/2015 23:33
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/19/2015 23:33
Trichloroethene	1.9		0.34	1.0	µg/L	1	4/19/2015 23:33
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/19/2015 23:33
Vinyl chloride	U		0.19	1.0	µg/L	1	4/19/2015 23:33
Xylenes, Total	U		0.62	3.0	µg/L	1	4/19/2015 23:33
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/19/2015 23:33
Surr: 4-Bromofluorobenzene	97.7			80-110	%REC	1	4/19/2015 23:33
Surr: Dibromofluoromethane	101			85-115	%REC	1	4/19/2015 23:33
Surr: Toluene-d8	96.5			85-110	%REC	1	4/19/2015 23:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-023
Collection Date: 4/9/2015 02:29 PM

Work Order: 1504564
Lab ID: 1504564-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3510 / 4/14/15	Analyst: RM	
<u>BatchID: 69807</u>							
1,1'-Biphenyl	U		0.22	5.0	µg/L	1	4/14/2015 22:37
2,4,5-Trichlorophenol	U		0.29	5.0	µg/L	1	4/14/2015 22:37
2,4,6-Trichlorophenol	U		0.25	5.0	µg/L	1	4/14/2015 22:37
2,4-Dichlorophenol	U		0.17	5.0	µg/L	1	4/14/2015 22:37
2,4-Dimethylphenol	U		0.18	5.0	µg/L	1	4/14/2015 22:37
2,4-Dinitrophenol	U		1.5	5.0	µg/L	1	4/14/2015 22:37
2,4-Dinitrotoluene	U		0.14	5.0	µg/L	1	4/14/2015 22:37
2,6-Dinitrotoluene	U		0.20	5.0	µg/L	1	4/14/2015 22:37
2-Chloronaphthalene	U		0.030	5.0	µg/L	1	4/14/2015 22:37
2-Chlorophenol	U		0.29	5.0	µg/L	1	4/14/2015 22:37
2-Methylnaphthalene	U		0.099	5.0	µg/L	1	4/14/2015 22:37
2-Methylphenol	U		0.14	5.0	µg/L	1	4/14/2015 22:37
2-Nitroaniline	U		0.24	5.0	µg/L	1	4/14/2015 22:37
2-Nitrophenol	U		0.27	5.0	µg/L	1	4/14/2015 22:37
3&4-Methylphenol	U		0.24	5.0	µg/L	1	4/14/2015 22:37
3,3'-Dichlorobenzidine	U		0.70	5.0	µg/L	1	4/14/2015 22:37
3-Nitroaniline	U		0.24	5.0	µg/L	1	4/14/2015 22:37
4,6-Dinitro-2-methylphenol	U		0.12	5.0	µg/L	1	4/14/2015 22:37
4-Bromophenyl phenyl ether	U		0.29	5.0	µg/L	1	4/14/2015 22:37
4-Chloro-3-methylphenol	U		0.16	5.0	µg/L	1	4/14/2015 22:37
4-Chloroaniline	U		0.22	5.0	µg/L	1	4/14/2015 22:37
4-Chlorophenyl phenyl ether	U		0.20	5.0	µg/L	1	4/14/2015 22:37
4-Nitroaniline	U		0.13	5.0	µg/L	1	4/14/2015 22:37
4-Nitrophenol	U		0.62	5.0	µg/L	1	4/14/2015 22:37
Acenaphthene	U		0.041	5.0	µg/L	1	4/14/2015 22:37
Acenaphthylene	U		0.039	5.0	µg/L	1	4/14/2015 22:37
Acetophenone	U		0.37	1.0	µg/L	1	4/14/2015 22:37
Anthracene	U		0.028	5.0	µg/L	1	4/14/2015 22:37
Atrazine	U		0.16	1.0	µg/L	1	4/14/2015 22:37
Benzaldehyde	U		0.25	1.0	µg/L	1	4/14/2015 22:37
Benzo(a)anthracene	U		0.072	5.0	µg/L	1	4/14/2015 22:37
Benzo(a)pyrene	U		0.036	5.0	µg/L	1	4/14/2015 22:37
Benzo(b)fluoranthene	U		0.043	5.0	µg/L	1	4/14/2015 22:37
Benzo(g,h,i)perylene	U		0.070	5.0	µg/L	1	4/14/2015 22:37
Benzo(k)fluoranthene	U		0.062	5.0	µg/L	1	4/14/2015 22:37
Bis(2-chloroethoxy)methane	U		0.23	5.0	µg/L	1	4/14/2015 22:37
Bis(2-chloroethyl)ether	U		0.16	5.0	µg/L	1	4/14/2015 22:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-023
Collection Date: 4/9/2015 02:29 PM

Work Order: 1504564
Lab ID: 1504564-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.19	5.0	µg/L	1	4/14/2015 22:37
Bis(2-ethylhexyl)phthalate	U		0.18	5.0	µg/L	1	4/14/2015 22:37
Butyl benzyl phthalate	U		0.12	5.0	µg/L	1	4/14/2015 22:37
Caprolactam	U		0.96	10	µg/L	1	4/14/2015 22:37
Carbazole	U		0.12	5.0	µg/L	1	4/14/2015 22:37
Chrysene	U		0.042	5.0	µg/L	1	4/14/2015 22:37
Dibenzo(a,h)anthracene	U		0.074	5.0	µg/L	1	4/14/2015 22:37
Dibenzofuran	U		0.23	5.0	µg/L	1	4/14/2015 22:37
Diethyl phthalate	U		0.17	5.0	µg/L	1	4/14/2015 22:37
Dimethyl phthalate	U		0.15	5.0	µg/L	1	4/14/2015 22:37
Di-n-butyl phthalate	U		0.15	5.0	µg/L	1	4/14/2015 22:37
Di-n-octyl phthalate	U		0.15	5.0	µg/L	1	4/14/2015 22:37
Fluoranthene	U		0.047	5.0	µg/L	1	4/14/2015 22:37
Fluorene	U		0.036	5.0	µg/L	1	4/14/2015 22:37
Hexachlorobenzene	U		0.23	5.0	µg/L	1	4/14/2015 22:37
Hexachlorobutadiene	U		0.37	5.0	µg/L	1	4/14/2015 22:37
Hexachlorocyclopentadiene	U		0.18	5.0	µg/L	1	4/14/2015 22:37
Hexachloroethane	U		0.47	5.0	µg/L	1	4/14/2015 22:37
Indeno(1,2,3-cd)pyrene	U		0.064	5.0	µg/L	1	4/14/2015 22:37
Isophorone	U		0.25	5.0	µg/L	1	4/14/2015 22:37
Naphthalene	0.14	J	0.050	5.0	µg/L	1	4/14/2015 22:37
Nitrobenzene	U		0.23	5.0	µg/L	1	4/14/2015 22:37
N-Nitrosodi-n-propylamine	U		0.24	5.0	µg/L	1	4/14/2015 22:37
N-Nitrosodiphenylamine	U		0.24	5.0	µg/L	1	4/14/2015 22:37
Pentachlorophenol	U		0.52	5.0	µg/L	1	4/14/2015 22:37
Phenanthrene	U		0.054	5.0	µg/L	1	4/14/2015 22:37
Phenol	U		0.13	5.0	µg/L	1	4/14/2015 22:37
Pyrene	U		0.069	5.0	µg/L	1	4/14/2015 22:37
Surr: 2,4,6-Tribromophenol	58.1			38-115	%REC	1	4/14/2015 22:37
Surr: 2-Fluorobiphenyl	47.2			32-100	%REC	1	4/14/2015 22:37
Surr: 2-Fluorophenol	30.8			22-59	%REC	1	4/14/2015 22:37
Surr: 4-Terphenyl-d14	90.3			23-112	%REC	1	4/14/2015 22:37
Surr: Nitrobenzene-d5	50.6			31-93	%REC	1	4/14/2015 22:37
Surr: Phenol-d6	19.6			13-36	%REC	1	4/14/2015 22:37

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LSY

BatchID: R161585

1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/19/2015 23:59
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/19/2015 23:59
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/19/2015 23:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-023
Collection Date: 4/9/2015 02:29 PM

Work Order: 1504564
Lab ID: 1504564-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/19/2015 23:59
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/19/2015 23:59
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/19/2015 23:59
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/19/2015 23:59
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/19/2015 23:59
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/19/2015 23:59
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/19/2015 23:59
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/19/2015 23:59
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/19/2015 23:59
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/19/2015 23:59
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/19/2015 23:59
2-Butanone	U		0.87	25	µg/L	1	4/19/2015 23:59
2-Hexanone	U		0.15	50	µg/L	1	4/19/2015 23:59
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/19/2015 23:59
Acetone	U		3.1	50	µg/L	1	4/19/2015 23:59
Benzene	U		0.25	1.0	µg/L	1	4/19/2015 23:59
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/19/2015 23:59
Bromoform	U		0.099	1.0	µg/L	1	4/19/2015 23:59
Bromomethane	U		1.0	5.0	µg/L	1	4/19/2015 23:59
Carbon disulfide	U		0.26	5.0	µg/L	1	4/19/2015 23:59
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/19/2015 23:59
Chlorobenzene	U		0.19	1.0	µg/L	1	4/19/2015 23:59
Chloroethane	U		0.21	5.0	µg/L	1	4/19/2015 23:59
Chloroform	U		0.25	1.0	µg/L	1	4/19/2015 23:59
Chloromethane	U		0.25	5.0	µg/L	1	4/19/2015 23:59
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/19/2015 23:59
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/19/2015 23:59
Cyclohexane	U		0.31	1.0	µg/L	1	4/19/2015 23:59
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/19/2015 23:59
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/19/2015 23:59
Ethylbenzene	U		0.22	1.0	µg/L	1	4/19/2015 23:59
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/19/2015 23:59
Methyl acetate	U		0.62	10	µg/L	1	4/19/2015 23:59
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/19/2015 23:59
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/19/2015 23:59
Methylene chloride	U		0.64	5.0	µg/L	1	4/19/2015 23:59
Styrene	U		0.18	1.0	µg/L	1	4/19/2015 23:59
Tetrachloroethene	8.9		0.25	1.0	µg/L	1	4/19/2015 23:59
Toluene	U		0.20	1.0	µg/L	1	4/19/2015 23:59
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/19/2015 23:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-023
Collection Date: 4/9/2015 02:29 PM

Work Order: 1504564
Lab ID: 1504564-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/19/2015 23:59
Trichloroethene	2.3		0.34	1.0	µg/L	1	4/19/2015 23:59
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/19/2015 23:59
Vinyl chloride	U		0.19	1.0	µg/L	1	4/19/2015 23:59
Xylenes, Total	U		0.62	3.0	µg/L	1	4/19/2015 23:59
Surr: 1,2-Dichloroethane-d4	104			75-120	%REC	1	4/19/2015 23:59
Surr: 4-Bromofluorobenzene	98.6			80-110	%REC	1	4/19/2015 23:59
Surr: Dibromofluoromethane	98.2			85-115	%REC	1	4/19/2015 23:59
Surr: Toluene-d8	97.1			85-110	%REC	1	4/19/2015 23:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-024
Collection Date: 4/9/2015 03:34 PM

Work Order: 1504564
Lab ID: 1504564-24
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/20/2015 12:25
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/20/2015 12:25
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/20/2015 12:25
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/20/2015 12:25
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/20/2015 12:25
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/20/2015 12:25
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/20/2015 12:25
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/20/2015 12:25
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/20/2015 12:25
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/20/2015 12:25
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/20/2015 12:25
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/20/2015 12:25
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/20/2015 12:25
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/20/2015 12:25
2-Butanone	U		0.87	25	µg/L	1	4/20/2015 12:25
2-Hexanone	U		0.15	50	µg/L	1	4/20/2015 12:25
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/20/2015 12:25
Acetone	U		3.1	50	µg/L	1	4/20/2015 12:25
Benzene	U		0.25	1.0	µg/L	1	4/20/2015 12:25
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/20/2015 12:25
Bromoform	U		0.099	1.0	µg/L	1	4/20/2015 12:25
Bromomethane	U		1.0	5.0	µg/L	1	4/20/2015 12:25
Carbon disulfide	U		0.26	5.0	µg/L	1	4/20/2015 12:25
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/20/2015 12:25
Chlorobenzene	U		0.19	1.0	µg/L	1	4/20/2015 12:25
Chloroethane	U		0.21	5.0	µg/L	1	4/20/2015 12:25
Chloroform	5.9		0.25	1.0	µg/L	1	4/20/2015 12:25
Chloromethane	U		0.25	5.0	µg/L	1	4/20/2015 12:25
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/20/2015 12:25
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/20/2015 12:25
Cyclohexane	U		0.31	1.0	µg/L	1	4/20/2015 12:25
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/20/2015 12:25
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/20/2015 12:25
Ethylbenzene	U		0.22	1.0	µg/L	1	4/20/2015 12:25
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/20/2015 12:25
Methyl acetate	U		0.62	10	µg/L	1	4/20/2015 12:25
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/20/2015 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-024
Collection Date: 4/9/2015 03:34 PM

Work Order: 1504564
Lab ID: 1504564-24
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/20/2015 12:25
Methylene chloride	U		0.64	5.0	µg/L	1	4/20/2015 12:25
Styrene	U		0.18	1.0	µg/L	1	4/20/2015 12:25
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/20/2015 12:25
Toluene	U		0.20	1.0	µg/L	1	4/20/2015 12:25
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/20/2015 12:25
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/20/2015 12:25
Trichloroethene	U		0.34	1.0	µg/L	1	4/20/2015 12:25
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/20/2015 12:25
Vinyl chloride	U		0.19	1.0	µg/L	1	4/20/2015 12:25
Xylenes, Total	U		0.62	3.0	µg/L	1	4/20/2015 12:25
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/20/2015 12:25
Surr: 4-Bromofluorobenzene	99.3			80-110	%REC	1	4/20/2015 12:25
Surr: Dibromofluoromethane	104			85-115	%REC	1	4/20/2015 12:25
Surr: Toluene-d8	96.4			85-110	%REC	1	4/20/2015 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-025
Collection Date: 4/9/2015 04:21 PM

Work Order: 1504564
Lab ID: 1504564-25
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/20/2015 12:51
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/20/2015 12:51
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/20/2015 12:51
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/20/2015 12:51
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/20/2015 12:51
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/20/2015 12:51
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/20/2015 12:51
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/20/2015 12:51
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/20/2015 12:51
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/20/2015 12:51
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/20/2015 12:51
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/20/2015 12:51
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/20/2015 12:51
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/20/2015 12:51
2-Butanone	U		0.87	25	µg/L	1	4/20/2015 12:51
2-Hexanone	U		0.15	50	µg/L	1	4/20/2015 12:51
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/20/2015 12:51
Acetone	U		3.1	50	µg/L	1	4/20/2015 12:51
Benzene	U		0.25	1.0	µg/L	1	4/20/2015 12:51
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/20/2015 12:51
Bromoform	U		0.099	1.0	µg/L	1	4/20/2015 12:51
Bromomethane	U		1.0	5.0	µg/L	1	4/20/2015 12:51
Carbon disulfide	U		0.26	5.0	µg/L	1	4/20/2015 12:51
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/20/2015 12:51
Chlorobenzene	U		0.19	1.0	µg/L	1	4/20/2015 12:51
Chloroethane	U		0.21	5.0	µg/L	1	4/20/2015 12:51
Chloroform	U		0.25	1.0	µg/L	1	4/20/2015 12:51
Chloromethane	U		0.25	5.0	µg/L	1	4/20/2015 12:51
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/20/2015 12:51
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/20/2015 12:51
Cyclohexane	U		0.31	1.0	µg/L	1	4/20/2015 12:51
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/20/2015 12:51
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/20/2015 12:51
Ethylbenzene	U		0.22	1.0	µg/L	1	4/20/2015 12:51
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/20/2015 12:51
Methyl acetate	U		0.62	10	µg/L	1	4/20/2015 12:51
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/20/2015 12:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: WG-017360-040915-MR-025
Collection Date: 4/9/2015 04:21 PM

Work Order: 1504564
Lab ID: 1504564-25
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/20/2015 12:51
Methylene chloride	U		0.64	5.0	µg/L	1	4/20/2015 12:51
Styrene	U		0.18	1.0	µg/L	1	4/20/2015 12:51
Tetrachloroethene	2.7		0.25	1.0	µg/L	1	4/20/2015 12:51
Toluene	U		0.20	1.0	µg/L	1	4/20/2015 12:51
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/20/2015 12:51
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/20/2015 12:51
Trichloroethene	U		0.34	1.0	µg/L	1	4/20/2015 12:51
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/20/2015 12:51
Vinyl chloride	U		0.19	1.0	µg/L	1	4/20/2015 12:51
Xylenes, Total	U		0.62	3.0	µg/L	1	4/20/2015 12:51
Surr: 1,2-Dichloroethane-d4	99.8			75-120	%REC	1	4/20/2015 12:51
Surr: 4-Bromofluorobenzene	98.3			80-110	%REC	1	4/20/2015 12:51
Surr: Dibromofluoromethane	99.4			85-115	%REC	1	4/20/2015 12:51
Surr: Toluene-d8	95.4			85-110	%REC	1	4/20/2015 12:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: TB-017360-040915-MR-026
Collection Date: 4/9/2015

Work Order: 1504564
Lab ID: 1504564-26
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: LSY
<u>BatchID: R161585</u>							
1,1,1-Trichloroethane	U		0.19	1.0	µg/L	1	4/20/2015 01:17
1,1,2,2-Tetrachloroethane	U		0.34	1.0	µg/L	1	4/20/2015 01:17
1,1,2-Trichloroethane	U		0.25	1.0	µg/L	1	4/20/2015 01:17
1,1,2-Trichlorotrifluoroethane	U		0.47	1.0	µg/L	1	4/20/2015 01:17
1,1-Dichloroethane	U		0.21	1.0	µg/L	1	4/20/2015 01:17
1,1-Dichloroethene	U		0.24	1.0	µg/L	1	4/20/2015 01:17
1,2,4-Trichlorobenzene	U		0.19	5.0	µg/L	1	4/20/2015 01:17
1,2-Dibromo-3-chloropropane	U		0.42	1.0	µg/L	1	4/20/2015 01:17
1,2-Dibromoethane	U		0.34	1.0	µg/L	1	4/20/2015 01:17
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	4/20/2015 01:17
1,2-Dichloroethane	U		0.26	1.0	µg/L	1	4/20/2015 01:17
1,2-Dichloropropane	U		0.26	1.0	µg/L	1	4/20/2015 01:17
1,3-Dichlorobenzene	U		0.21	1.0	µg/L	1	4/20/2015 01:17
1,4-Dichlorobenzene	U		0.20	1.0	µg/L	1	4/20/2015 01:17
2-Butanone	U		0.87	25	µg/L	1	4/20/2015 01:17
2-Hexanone	U		0.15	50	µg/L	1	4/20/2015 01:17
4-Methyl-2-pentanone	U		0.15	50	µg/L	1	4/20/2015 01:17
Acetone	5.2	J	3.1	50	µg/L	1	4/20/2015 01:17
Benzene	U		0.25	1.0	µg/L	1	4/20/2015 01:17
Bromodichloromethane	U		0.16	1.0	µg/L	1	4/20/2015 01:17
Bromoform	U		0.099	1.0	µg/L	1	4/20/2015 01:17
Bromomethane	U		1.0	5.0	µg/L	1	4/20/2015 01:17
Carbon disulfide	U		0.26	5.0	µg/L	1	4/20/2015 01:17
Carbon tetrachloride	U		0.14	1.0	µg/L	1	4/20/2015 01:17
Chlorobenzene	U		0.19	1.0	µg/L	1	4/20/2015 01:17
Chloroethane	U		0.21	5.0	µg/L	1	4/20/2015 01:17
Chloroform	U		0.25	1.0	µg/L	1	4/20/2015 01:17
Chloromethane	U		0.25	5.0	µg/L	1	4/20/2015 01:17
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	4/20/2015 01:17
cis-1,3-Dichloropropene	U		0.24	1.0	µg/L	1	4/20/2015 01:17
Cyclohexane	U		0.31	1.0	µg/L	1	4/20/2015 01:17
Dibromochloromethane	U		0.17	5.0	µg/L	1	4/20/2015 01:17
Dichlorodifluoromethane	U		0.41	5.0	µg/L	1	4/20/2015 01:17
Ethylbenzene	U		0.22	1.0	µg/L	1	4/20/2015 01:17
Isopropylbenzene	U		0.25	5.0	µg/L	1	4/20/2015 01:17
Methyl acetate	U		0.62	10	µg/L	1	4/20/2015 01:17
Methyl tert-butyl ether	U		0.12	5.0	µg/L	1	4/20/2015 01:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 22-Apr-15

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Sample ID: TB-017360-040915-MR-026
Collection Date: 4/9/2015

Work Order: 1504564
Lab ID: 1504564-26
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.32	1.0	µg/L	1	4/20/2015 01:17
Methylene chloride	4.0	J	0.64	5.0	µg/L	1	4/20/2015 01:17
Styrene	U		0.18	1.0	µg/L	1	4/20/2015 01:17
Tetrachloroethene	U		0.25	1.0	µg/L	1	4/20/2015 01:17
Toluene	U		0.20	1.0	µg/L	1	4/20/2015 01:17
trans-1,2-Dichloroethene	U		0.29	1.0	µg/L	1	4/20/2015 01:17
trans-1,3-Dichloropropene	U		0.19	1.0	µg/L	1	4/20/2015 01:17
Trichloroethene	U		0.34	1.0	µg/L	1	4/20/2015 01:17
Trichlorofluoromethane	U		0.39	1.0	µg/L	1	4/20/2015 01:17
Vinyl chloride	U		0.19	1.0	µg/L	1	4/20/2015 01:17
Xylenes, Total	U		0.62	3.0	µg/L	1	4/20/2015 01:17
Surr: 1,2-Dichloroethane-d4	102			75-120	%REC	1	4/20/2015 01:17
Surr: 4-Bromofluorobenzene	96.8			80-110	%REC	1	4/20/2015 01:17
Surr: Dibromofluoromethane	97.2			85-115	%REC	1	4/20/2015 01:17
Surr: Toluene-d8	95.6			85-110	%REC	1	4/20/2015 01:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **69693** Instrument ID **HG1** Method: **SW7470**

MBLK		Sample ID: MBLK-69693-69693				Units: mg/L		Analysis Date: 4/10/2015 07:55 PM		
Client ID:		Run ID: HG1_150410A				SeqNo: 3222416		Prep Date: 4/10/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.00020

LCS		Sample ID: LCS-69693-69693				Units: mg/L		Analysis Date: 4/10/2015 07:57 PM		
Client ID:		Run ID: HG1_150410A				SeqNo: 3222418		Prep Date: 4/10/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.002078 0.00020 0.002 0 104 80-120 0

MS		Sample ID: 1504361-05CMS				Units: mg/L		Analysis Date: 4/10/2015 08:08 PM		
Client ID:		Run ID: HG1_150410A				SeqNo: 3222423		Prep Date: 4/10/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001935 0.00020 0.002 -0.000004 97 75-125 0

MS		Sample ID: 1504456-01CMS				Units: mg/L		Analysis Date: 4/10/2015 08:33 PM		
Client ID:		Run ID: HG1_150410A				SeqNo: 3222436		Prep Date: 4/10/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.002016 0.00020 0.002 -0.000019 102 75-125 0

MSD		Sample ID: 1504361-05CMSD				Units: mg/L		Analysis Date: 4/10/2015 08:10 PM		
Client ID:		Run ID: HG1_150410A				SeqNo: 3222424		Prep Date: 4/10/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001899 0.00020 0.002 -0.000004 95.2 75-125 0.001935 1.88 20

MSD		Sample ID: 1504456-01CMSD				Units: mg/L		Analysis Date: 4/10/2015 08:36 PM		
Client ID:		Run ID: HG1_150410A				SeqNo: 3222437		Prep Date: 4/10/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001995 0.00020 0.002 -0.000019 101 75-125 0.002016 1.05 20

The following samples were analyzed in this batch: 1504564-12B 1504564-13B

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **69767** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-69767-69767				Units: mg/L		Analysis Date: 4/14/2015 06:57 PM		
Client ID:		Run ID: ICPMS2_150414A				SeqNo: 3225645		Prep Date: 4/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0050								
Arsenic	U	0.0050								
Barium	U	0.0050								
Beryllium	U	0.0020								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Cobalt	U	0.0050								
Copper	U	0.0050								
Lead	U	0.0050								
Manganese	U	0.0050								
Molybdenum	U	0.0050								
Nickel	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								
Thallium	U	0.0050								
Vanadium	U	0.0050								
Zinc	U	0.010								

LCS		Sample ID: LCS-69767-69767				Units: mg/L		Analysis Date: 4/14/2015 07:02 PM		
Client ID:		Run ID: ICPMS2_150414A				SeqNo: 3225646		Prep Date: 4/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09609	0.0050	0.1	0	96.1	80-120	0			
Arsenic	0.09296	0.0050	0.1	0	93	80-120	0			
Barium	0.09046	0.0050	0.1	0	90.5	80-120	0			
Beryllium	0.09591	0.0020	0.1	0	95.9	80-120	0			
Cadmium	0.09237	0.0020	0.1	0	92.4	80-120	0			
Chromium	0.09727	0.0050	0.1	0	97.3	80-120	0			
Cobalt	0.09417	0.0050	0.1	0	94.2	80-120	0			
Copper	0.09514	0.0050	0.1	0	95.1	80-120	0			
Lead	0.09365	0.0050	0.1	0	93.6	80-120	0			
Manganese	0.09506	0.0050	0.1	0	95.1	80-120	0			
Molybdenum	0.09273	0.0050	0.1	0	92.7	80-120	0			
Nickel	0.09302	0.0050	0.1	0	93	80-120	0			
Selenium	0.09344	0.0050	0.1	0	93.4	80-120	0			
Silver	0.09312	0.0050	0.1	0	93.1	80-120	0			
Thallium	0.09165	0.0050	0.1	0	91.6	80-120	0			
Vanadium	0.0961	0.0050	0.1	0	96.1	80-120	0			
Zinc	0.09451	0.010	0.1	0	94.5	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **69767** Instrument ID **ICPMS2** Method: **SW6020A**

MS		Sample ID: 1504670-01AMS				Units: mg/L		Analysis Date: 4/14/2015 07:17 PM		
Client ID:		Run ID: ICPMS2_150414A				SeqNo: 3225653		Prep Date: 4/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09632	0.0050	0.1	0.00003514	96.3	75-125	0			
Arsenic	0.09668	0.0050	0.1	0.0003269	96.4	75-125	0			
Barium	0.1224	0.0050	0.1	0.03183	90.6	75-125	0			
Beryllium	0.09618	0.0020	0.1	0.00002382	96.2	75-125	0			
Cadmium	0.0944	0.0020	0.1	0.00002504	94.4	75-125	0			
Chromium	0.1089	0.0050	0.1	0.009519	99.4	75-125	0			
Cobalt	0.0921	0.0050	0.1	0.0003322	91.8	75-125	0			
Copper	0.09228	0.0050	0.1	0.0004394	91.8	75-125	0			
Lead	0.09607	0.0050	0.1	0.0001072	96	75-125	0			
Manganese	0.1081	0.0050	0.1	0.01349	94.6	75-125	0			
Molybdenum	0.09497	0.0050	0.1	0.0004271	94.5	75-125	0			
Nickel	0.09215	0.0050	0.1	0.0009569	91.2	75-125	0			
Selenium	0.09815	0.0050	0.1	0.0006129	97.5	75-125	0			
Silver	0.09217	0.0050	0.1	0.00001879	92.2	75-125	0			
Thallium	0.09386	0.0050	0.1	0.0001462	93.7	75-125	0			
Vanadium	0.09924	0.0050	0.1	0.0001887	99.1	75-125	0			
Zinc	0.09348	0.010	0.1	0.002615	90.9	75-125	0			

MSD		Sample ID: 1504670-01AMSD				Units: mg/L		Analysis Date: 4/14/2015 07:38 PM		
Client ID:		Run ID: ICPMS2_150414A				SeqNo: 3225657		Prep Date: 4/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09602	0.0050	0.1	0.00003514	96	75-125	0.09632	0.312	20	
Arsenic	0.09667	0.0050	0.1	0.0003269	96.3	75-125	0.09668	0.0103	20	
Barium	0.1225	0.0050	0.1	0.03183	90.7	75-125	0.1224	0.0817	20	
Beryllium	0.09624	0.0020	0.1	0.00002382	96.2	75-125	0.09618	0.0624	20	
Cadmium	0.09363	0.0020	0.1	0.00002504	93.6	75-125	0.0944	0.819	20	
Chromium	0.109	0.0050	0.1	0.009519	99.5	75-125	0.1089	0.0918	20	
Cobalt	0.092	0.0050	0.1	0.0003322	91.7	75-125	0.0921	0.109	20	
Copper	0.09274	0.0050	0.1	0.0004394	92.3	75-125	0.09228	0.497	20	
Lead	0.09622	0.0050	0.1	0.0001072	96.1	75-125	0.09607	0.156	20	
Manganese	0.1096	0.0050	0.1	0.01349	96.1	75-125	0.1081	1.38	20	
Molybdenum	0.09473	0.0050	0.1	0.0004271	94.3	75-125	0.09497	0.253	20	
Nickel	0.09244	0.0050	0.1	0.0009569	91.5	75-125	0.09215	0.314	20	
Selenium	0.09677	0.0050	0.1	0.0006129	96.2	75-125	0.09815	1.42	20	
Silver	0.09147	0.0050	0.1	0.00001879	91.5	75-125	0.09217	0.762	20	
Thallium	0.09456	0.0050	0.1	0.0001462	94.4	75-125	0.09386	0.743	20	
Vanadium	0.09941	0.0050	0.1	0.0001887	99.2	75-125	0.09924	0.171	20	
Zinc	0.09477	0.010	0.1	0.002615	92.2	75-125	0.09348	1.37	20	

The following samples were analyzed in this batch:

1504564-12B 1504564-13B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **69807** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK		Sample ID: SBLKW1-69807-69807				Units: µg/L		Analysis Date: 4/14/2015 06:05 PM		
Client ID:		Run ID: SVMS4_150414A				SeqNo: 3225487		Prep Date: 4/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1'-Biphenyl	U	5.0								
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dichlorophenol	U	5.0								
2,4-Dimethylphenol	U	5.0								
2,4-Dinitrophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
2,6-Dinitrotoluene	U	5.0								
2-Chloronaphthalene	U	5.0								
2-Chlorophenol	U	5.0								
2-Methylnaphthalene	U	5.0								
2-Methylphenol	U	5.0								
2-Nitroaniline	U	5.0								
2-Nitrophenol	U	5.0								
3&4-Methylphenol	U	5.0								
3,3'-Dichlorobenzidine	U	5.0								
3-Nitroaniline	U	5.0								
4,6-Dinitro-2-methylphenol	U	5.0								
4-Bromophenyl phenyl ether	U	5.0								
4-Chloro-3-methylphenol	U	5.0								
4-Chloroaniline	U	5.0								
4-Chlorophenyl phenyl ether	U	5.0								
4-Nitroaniline	U	5.0								
4-Nitrophenol	U	5.0								
Acenaphthene	U	5.0								
Acenaphthylene	U	5.0								
Acetophenone	U	1.0								
Anthracene	U	5.0								
Atrazine	U	1.0								
Benzaldehyde	U	1.0								
Benzo(a)anthracene	U	5.0								
Benzo(a)pyrene	U	5.0								
Benzo(b)fluoranthene	U	5.0								
Benzo(g,h,i)perylene	U	5.0								
Benzo(k)fluoranthene	U	5.0								
Bis(2-chloroethoxy)methane	U	5.0								
Bis(2-chloroethyl)ether	U	5.0								
Bis(2-chloroisopropyl)ether	U	5.0								
Bis(2-ethylhexyl)phthalate	U	5.0								
Butyl benzyl phthalate	U	5.0								
Caprolactam	U	10								
Carbazole	U	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: 69807	Instrument ID SVMS4	Method: SW846 8270D						
Chrysene	U	5.0						
Dibenzo(a,h)anthracene	U	5.0						
Dibenzofuran	U	5.0						
Diethyl phthalate	U	5.0						
Dimethyl phthalate	U	5.0						
Di-n-butyl phthalate	U	5.0						
Di-n-octyl phthalate	U	5.0						
Fluoranthene	U	5.0						
Fluorene	U	5.0						
Hexachlorobenzene	U	5.0						
Hexachlorobutadiene	U	5.0						
Hexachlorocyclopentadiene	U	5.0						
Hexachloroethane	U	5.0						
Indeno(1,2,3-cd)pyrene	U	5.0						
Isophorone	U	5.0						
Naphthalene	U	5.0						
Nitrobenzene	U	5.0						
N-Nitrosodi-n-propylamine	U	5.0						
N-Nitrosodiphenylamine	U	5.0						
Pentachlorophenol	U	5.0						
Phenanthrene	U	5.0						
Phenol	U	5.0						
Pyrene	U	5.0						
<i>Surr: 2,4,6-Tribromophenol</i>	38.79	0	50	0	77.6	38-115	0	
<i>Surr: 2-Fluorobiphenyl</i>	35.18	0	50	0	70.4	32-100	0	
<i>Surr: 2-Fluorophenol</i>	22.84	0	50	0	45.7	22-59	0	
<i>Surr: 4-Terphenyl-d14</i>	48.15	0	50	0	96.3	23-112	0	
<i>Surr: Nitrobenzene-d5</i>	32.82	0	50	0	65.6	31-93	0	
<i>Surr: Phenol-d6</i>	13.92	0	50	0	27.8	13-36	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **69807** Instrument ID **SVMS4** Method: **SW846 8270D**

LCS		Sample ID: SLCSW1-69807-69807				Units: µg/L		Analysis Date: 4/14/2015 06:30 PM		
Client ID:		Run ID: SVMS4_150414A				SeqNo: 3225488		Prep Date: 4/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	16.53	5.0	20	0	82.6	50-110	0			
2,4,6-Trichlorophenol	15.74	5.0	20	0	78.7	50-115	0			
2,4-Dichlorophenol	16.16	5.0	20	0	80.8	50-105	0			
2,4-Dimethylphenol	13.58	5.0	20	0	67.9	30-110	0			
2,4-Dinitrophenol	13.27	5.0	20	0	66.4	15-140	0			
2,4-Dinitrotoluene	14.84	5.0	20	0	74.2	50-120	0			
2,6-Dinitrotoluene	15.38	5.0	20	0	76.9	50-115	0			
2-Chloronaphthalene	15.65	5.0	20	0	78.2	50-105	0			
2-Chlorophenol	15.53	5.0	20	0	77.6	35-105	0			
2-Methylnaphthalene	15.62	5.0	20	0	78.1	45-105	0			
2-Methylphenol	13.11	5.0	20	0	65.6	40-110	0			
2-Nitroaniline	14.29	5.0	20	0	71.4	50-115	0			
2-Nitrophenol	15.62	5.0	20	0	78.1	40-115	0			
3&4-Methylphenol	12	5.0	20	0	60	30-110	0			
3-Nitroaniline	13.13	5.0	20	0	65.6	20-125	0			
4,6-Dinitro-2-methylphenol	16.66	5.0	20	0	83.3	40-130	0			
4-Bromophenyl phenyl ether	16.33	5.0	20	0	81.6	50-115	0			
4-Chloro-3-methylphenol	15.02	5.0	20	0	75.1	45-110	0			
4-Chloroaniline	14.55	5.0	20	0	72.8	15-110	0			
4-Chlorophenyl phenyl ether	16.56	5.0	20	0	82.8	50-110	0			
4-Nitroaniline	13.89	5.0	20	0	69.4	35-150	0			
4-Nitrophenol	11.79	5.0	20	0	59	1-58	0			S
Acenaphthene	15.31	5.0	20	0	76.6	45-110	0			
Acenaphthylene	16.33	5.0	20	0	81.6	50-105	0			
Acetophenone	15.29	1.0	20	0	76.4	30-120	0			
Anthracene	16.95	5.0	20	0	84.8	55-110	0			
Atrazine	16.37	1.0	20	0	81.8	30-120	0			
Benzaldehyde	33.89	1.0	20	0	169	30-120	0			S
Benzo(a)anthracene	16.5	5.0	20	0	82.5	55-110	0			
Benzo(a)pyrene	16.7	5.0	20	0	83.5	55-110	0			
Benzo(b)fluoranthene	17.24	5.0	20	0	86.2	45-120	0			
Benzo(g,h,i)perylene	18.2	5.0	20	0	91	40-125	0			
Benzo(k)fluoranthene	16.97	5.0	20	0	84.8	45-125	0			
Bis(2-chloroethoxy)methane	14.35	5.0	20	0	71.8	45-105	0			
Bis(2-chloroethyl)ether	14.53	5.0	20	0	72.6	35-110	0			
Bis(2-chloroisopropyl)ether	13.68	5.0	20	0	68.4	25-130	0			
Bis(2-ethylhexyl)phthalate	14.92	5.0	20	0	74.6	40-125	0			
Butyl benzyl phthalate	14.09	5.0	20	0	70.4	45-115	0			
Carbazole	18.96	5.0	20	0	94.8	50-150	0			
Chrysene	17.2	5.0	20	0	86	55-110	0			
Dibenzo(a,h)anthracene	17.5	5.0	20	0	87.5	40-125	0			
Dibenzofuran	16.54	5.0	20	0	82.7	55-105	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: 69807		Instrument ID SVMS4		Method: SW846 8270D			
Diethyl phthalate	15.46	5.0	20	0	77.3	40-120	0
Dimethyl phthalate	15.82	5.0	20	0	79.1	25-125	0
Di-n-butyl phthalate	15.33	5.0	20	0	76.6	55-115	0
Di-n-octyl phthalate	17.43	5.0	20	0	87.2	35-135	0
Fluoranthene	18.65	5.0	20	0	93.2	55-115	0
Fluorene	15.99	5.0	20	0	80	50-110	0
Hexachlorobenzene	17.86	5.0	20	0	89.3	50-110	0
Hexachlorobutadiene	13.21	5.0	20	0	66	25-105	0
Hexachlorocyclopentadiene	9.23	5.0	20	0	46.2	25-105	0
Hexachloroethane	13.98	5.0	20	0	69.9	30-95	0
Indeno(1,2,3-cd)pyrene	17.94	5.0	20	0	89.7	45-125	0
Isophorone	14.42	5.0	20	0	72.1	50-110	0
Naphthalene	13.22	5.0	20	0	66.1	40-100	0
Nitrobenzene	14.59	5.0	20	0	73	45-110	0
N-Nitrosodi-n-propylamine	15.91	5.0	20	0	79.6	35-130	0
N-Nitrosodiphenylamine	18.27	5.0	20	0	91.4	50-110	0
Pentachlorophenol	11.66	5.0	20	0	58.3	40-115	0
Phenanthrene	16.43	5.0	20	0	82.2	50-115	0
Phenol	6.72	5.0	20	0	33.6	12-43	0
Pyrene	18.45	5.0	20	0	92.2	50-130	0
<i>Surr: 2,4,6-Tribromophenol</i>	<i>45.31</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>90.6</i>	<i>38-115</i>	<i>0</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>39.89</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>79.8</i>	<i>32-100</i>	<i>0</i>
<i>Surr: 2-Fluorophenol</i>	<i>22.91</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>45.8</i>	<i>22-59</i>	<i>0</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>47.62</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>95.2</i>	<i>23-112</i>	<i>0</i>
<i>Surr: Nitrobenzene-d5</i>	<i>37.65</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>75.3</i>	<i>31-93</i>	<i>0</i>
<i>Surr: Phenol-d6</i>	<i>14.49</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>29</i>	<i>13-36</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **69807** Instrument ID **SVMS4** Method: **SW846 8270D**

MS				Sample ID: 1504456-01A MS			Units: µg/L		Analysis Date: 4/14/2015 09:13 PM	
Client ID:				Run ID: SVMS4_150414A			SeqNo: 3226529		Prep Date: 4/14/2015	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	193	50	200	0	96.5	50-110	0			
2,4,6-Trichlorophenol	192.4	50	200	0	96.2	50-115	0			
2,4-Dichlorophenol	181.7	50	200	0	90.8	50-105	0			
2,4-Dimethylphenol	215.7	50	200	32.17	91.8	30-110	0			
2,4-Dinitrophenol	199.3	50	200	0	99.6	15-140	0			
2,4-Dinitrotoluene	172.3	50	200	0	86.2	50-120	0			
2,6-Dinitrotoluene	173.1	50	200	0	86.6	50-115	0			
2-Chloronaphthalene	179.3	50	200	0	89.6	50-105	0			
2-Chlorophenol	181.9	50	200	0	91	35-105	0			
2-Methylnaphthalene	269.1	50	200	74.77	97.2	45-105	0			
2-Methylphenol	168.5	50	200	11.63	78.4	40-110	0			
2-Nitroaniline	174.8	50	200	0	87.4	50-115	0			
2-Nitrophenol	180.3	50	200	0	90.2	40-115	0			
3&4-Methylphenol	174.7	50	200	37.5	68.6	30-110	0			
3-Nitroaniline	160.3	50	200	0	80.2	20-125	0			
4,6-Dinitro-2-methylphenol	195.2	50	200	0	97.6	40-130	0			
4-Bromophenyl phenyl ether	198.9	50	200	0	99.4	50-115	0			
4-Chloro-3-methylphenol	204	50	200	0	102	45-110	0			
4-Chloroaniline	170	50	200	0	85	15-110	0			
4-Chlorophenyl phenyl ether	185.5	50	200	0	92.8	50-110	0			
4-Nitroaniline	169.7	50	200	0	84.8	35-150	0			
4-Nitrophenol	141.3	50	200	0	70.6	1-58	0			S
Acenaphthene	369.8	50	200	180	94.9	45-110	0			
Acenaphthylene	195.8	50	200	14.11	90.8	50-105	0			
Acetophenone	178.5	10	200	0	89.2	30-120	0			
Anthracene	201.3	50	200	3.23	99	55-110	0			
Atrazine	187	10	200	0	93.5	30-120	0			
Benzaldehyde	398	10	200	0	199	30-120	0			S
Benzo(a)anthracene	189.2	50	200	0	94.6	55-110	0			
Benzo(a)pyrene	191.5	50	200	0	95.8	55-110	0			
Benzo(b)fluoranthene	192.4	50	200	0	96.2	45-120	0			
Benzo(g,h,i)perylene	206.3	50	200	0	103	40-125	0			
Benzo(k)fluoranthene	188.9	50	200	0	94.4	45-125	0			
Bis(2-chloroethoxy)methane	165.6	50	200	0	82.8	45-105	0			
Bis(2-chloroethyl)ether	166.1	50	200	0	83	35-110	0			
Bis(2-chloroisopropyl)ether	163.3	50	200	0	81.6	25-130	0			
Bis(2-ethylhexyl)phthalate	179.2	50	200	0	89.6	40-125	0			
Butyl benzyl phthalate	176.3	50	200	0	88.2	45-115	0			
Carbazole	290.6	50	200	67.54	112	50-150	0			
Chrysene	184.8	50	200	0	92.4	55-110	0			
Dibenzo(a,h)anthracene	199.7	50	200	0	99.8	40-125	0			
Dibenzofuran	263.7	50	200	72.97	95.4	55-105	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates

Work Order: 1504564

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: 69807		Instrument ID SVMS4		Method: SW846 8270D				
Diethyl phthalate	168.9	50	200	0	84.4	40-120	0	
Dimethyl phthalate	176.3	50	200	0	88.2	25-125	0	
Di-n-butyl phthalate	181.5	50	200	0	90.8	55-115	0	
Di-n-octyl phthalate	232.7	50	200	0	116	35-135	0	
Fluoranthene	215.3	50	200	1.11	107	55-115	0	
Fluorene	241.8	50	200	50.93	95.4	50-110	0	
Hexachlorobenzene	210.8	50	200	0	105	50-110	0	
Hexachlorobutadiene	167.9	50	200	0	84	25-105	0	
Hexachlorocyclopentadiene	122.1	50	200	0	61	25-105	0	
Hexachloroethane	170.1	50	200	0	85	30-95	0	
Indeno(1,2,3-cd)pyrene	209	50	200	0	104	45-125	0	
Isophorone	162.4	50	200	0	81.2	50-110	0	
Naphthalene	1338	50	200	788.7	275	40-100	0	SE
Nitrobenzene	171.7	50	200	0	85.8	45-110	0	
N-Nitrosodi-n-propylamine	184.7	50	200	0	92.4	35-130	0	
N-Nitrosodiphenylamine	217	50	200	0	108	50-110	0	
Pentachlorophenol	224.6	50	200	0	112	40-115	0	
Phenanthrene	203.9	50	200	12.48	95.7	50-115	0	
Phenol	123.5	50	200	41.57	41	12-43	0	
Pyrene	209.3	50	200	0	105	50-130	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>533.9</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>107</i>	<i>38-115</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>440.4</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>88.1</i>	<i>32-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>266</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>53.2</i>	<i>22-59</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>546.5</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>109</i>	<i>23-112</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>417.9</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>83.6</i>	<i>31-93</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>170.1</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>34</i>	<i>13-36</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **69807** Instrument ID **SVMS4** Method: **SW846 8270D**

MSD						Sample ID: 1504456-01A MSD		Units: µg/L		Analysis Date: 4/14/2015 09:38 PM	
Client ID:			Run ID: SVMS4_150414A			SeqNo: 3226530		Prep Date: 4/14/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2,4,5-Trichlorophenol	175.5	50	200	0	87.8	50-110	193	9.5	30		
2,4,6-Trichlorophenol	169.6	50	200	0	84.8	50-115	192.4	12.6	30		
2,4-Dichlorophenol	156.6	50	200	0	78.3	50-105	181.7	14.8	30		
2,4-Dimethylphenol	187.4	50	200	32.17	77.6	30-110	215.7	14	30		
2,4-Dinitrophenol	192.5	50	200	0	96.2	15-140	199.3	3.47	30		
2,4-Dinitrotoluene	156.5	50	200	0	78.2	50-120	172.3	9.61	30		
2,6-Dinitrotoluene	153.1	50	200	0	76.6	50-115	173.1	12.3	30		
2-Chloronaphthalene	155.2	50	200	0	77.6	50-105	179.3	14.4	30		
2-Chlorophenol	157	50	200	0	78.5	35-105	181.9	14.7	30		
2-Methylnaphthalene	229.1	50	200	74.77	77.2	45-105	269.1	16.1	30		
2-Methylphenol	151.7	50	200	11.63	70	40-110	168.5	10.5	30		
2-Nitroaniline	155.8	50	200	0	77.9	50-115	174.8	11.5	30		
2-Nitrophenol	158	50	200	0	79	40-115	180.3	13.2	30		
3&4-Methylphenol	156.4	50	200	37.5	59.4	30-110	174.7	11.1	30		
3-Nitroaniline	144.3	50	200	0	72.2	20-125	160.3	10.5	30		
4,6-Dinitro-2-methylphenol	178.5	50	200	0	89.2	40-130	195.2	8.94	30		
4-Bromophenyl phenyl ether	174.1	50	200	0	87	50-115	198.9	13.3	30		
4-Chloro-3-methylphenol	184.1	50	200	0	92	45-110	204	10.3	30		
4-Chloroaniline	149.9	50	200	0	75	15-110	170	12.6	30		
4-Chlorophenyl phenyl ether	159.4	50	200	0	79.7	50-110	185.5	15.1	30		
4-Nitroaniline	147.6	50	200	0	73.8	35-150	169.7	13.9	30		
4-Nitrophenol	127.2	50	200	0	63.6	1-58	141.3	10.5	30	S	
Acenaphthene	318.5	50	200	180	69.2	45-110	369.8	14.9	30		
Acenaphthylene	168.1	50	200	14.11	77	50-105	195.8	15.2	30		
Acetophenone	149.7	10	200	0	74.8	30-120	178.5	17.6	30		
Anthracene	179.6	50	200	3.23	88.2	55-110	201.3	11.4	30		
Atrazine	166.5	10	200	0	83.2	30-120	187	11.6	30		
Benzaldehyde	356.3	10	200	0	178	30-120	398	11.1	30	S	
Benzo(a)anthracene	167.8	50	200	0	83.9	55-110	189.2	12	30		
Benzo(a)pyrene	172.2	50	200	0	86.1	55-110	191.5	10.6	30		
Benzo(b)fluoranthene	178	50	200	0	89	45-120	192.4	7.78	30		
Benzo(g,h,i)perylene	193.1	50	200	0	96.6	40-125	206.3	6.61	30		
Benzo(k)fluoranthene	164.1	50	200	0	82	45-125	188.9	14.1	30		
Bis(2-chloroethoxy)methane	136.3	50	200	0	68.2	45-105	165.6	19.4	30		
Bis(2-chloroethyl)ether	138.4	50	200	0	69.2	35-110	166.1	18.2	30		
Bis(2-chloroisopropyl)ether	140	50	200	0	70	25-130	163.3	15.4	30		
Bis(2-ethylhexyl)phthalate	159.9	50	200	0	80	40-125	179.2	11.4	30		
Butyl benzyl phthalate	159.5	50	200	0	79.8	45-115	176.3	10	30		
Carbazole	261.4	50	200	67.54	96.9	50-150	290.6	10.6	30		
Chrysene	171.7	50	200	0	85.8	55-110	184.8	7.35	30		
Dibenzo(a,h)anthracene	180.6	50	200	0	90.3	40-125	199.7	10	30		
Dibenzofuran	232.2	50	200	72.97	79.6	55-105	263.7	12.7	30		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: 69807		Instrument ID SVMS4		Method: SW846 8270D					
Diethyl phthalate	153.4	50	200	0	76.7	40-120	168.9	9.62	30
Dimethyl phthalate	154.1	50	200	0	77	25-125	176.3	13.4	30
Di-n-butyl phthalate	163.9	50	200	0	82	55-115	181.5	10.2	30
Di-n-octyl phthalate	206.8	50	200	0	103	35-135	232.7	11.8	30
Fluoranthene	192.9	50	200	1.11	95.9	55-115	215.3	11	30
Fluorene	206.4	50	200	50.93	77.7	50-110	241.8	15.8	30
Hexachlorobenzene	183.8	50	200	0	91.9	50-110	210.8	13.7	30
Hexachlorobutadiene	134.6	50	200	0	67.3	25-105	167.9	22	30
Hexachlorocyclopentadiene	115.1	50	200	0	57.6	25-105	122.1	5.9	30
Hexachloroethane	129.1	50	200	0	64.6	30-95	170.1	27.4	30
Indeno(1,2,3-cd)pyrene	190.3	50	200	0	95.2	45-125	209	9.37	30
Isophorone	142.5	50	200	0	71.2	50-110	162.4	13.1	30
Naphthalene	1135	50	200	788.7	173	40-100	1338	16.5	30
Nitrobenzene	139.8	50	200	0	69.9	45-110	171.7	20.5	30
N-Nitrosodi-n-propylamine	152.3	50	200	0	76.2	35-130	184.7	19.2	30
N-Nitrosodiphenylamine	197	50	200	0	98.5	50-110	217	9.66	30
Pentachlorophenol	201.6	50	200	0	101	40-115	224.6	10.8	30
Phenanthrene	179.7	50	200	12.48	83.6	50-115	203.9	12.6	30
Phenol	118.2	50	200	41.57	38.3	12-43	123.5	4.39	30
Pyrene	193.9	50	200	0	97	50-130	209.3	7.64	30
<i>Surr: 2,4,6-Tribromophenol</i>	<i>485.1</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>97</i>	<i>38-115</i>	<i>533.9</i>	<i>9.58</i>	<i>40</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>390.6</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>78.1</i>	<i>32-100</i>	<i>440.4</i>	<i>12</i>	<i>40</i>
<i>Surr: 2-Fluorophenol</i>	<i>248.8</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>49.8</i>	<i>22-59</i>	<i>266</i>	<i>6.68</i>	<i>40</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>503</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>101</i>	<i>23-112</i>	<i>546.5</i>	<i>8.29</i>	<i>40</i>
<i>Surr: Nitrobenzene-d5</i>	<i>360</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>72</i>	<i>31-93</i>	<i>417.9</i>	<i>14.9</i>	<i>40</i>
<i>Surr: Phenol-d6</i>	<i>158.2</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>31.6</i>	<i>13-36</i>	<i>170.1</i>	<i>7.25</i>	<i>40</i>

The following samples were analyzed in this batch: 1504564-23B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R161540** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: VLKW1-150417-R161540				Units: µg/L		Analysis Date: 4/17/2015 03:24 PM		
Client ID:		Run ID: VMS9_150417A				SeqNo: 3231071		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R161540	Instrument ID VMS9	Method: SW8260						
trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	U	1.0						
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.97</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.49</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.4</i>	<i>80-110</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>18.67</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.4</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>20.35</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-110</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R161540** Instrument ID **VMS9** Method: **SW8260**

LCS		Sample ID: VLCSW1-150417-R161540				Units: µg/L		Analysis Date: 4/17/2015 02:33 PM		
Client ID:		Run ID: VMS9_150417A				SeqNo: 3231070		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.49	1.0	20	0	92.4	75-130	0			
1,1,2,2-Tetrachloroethane	19.24	1.0	20	0	96.2	75-130	0			
1,1,2-Trichloroethane	20.29	1.0	20	0	101	75-125	0			
1,1-Dichloroethane	19.32	1.0	20	0	96.6	75-133	0			
1,1-Dichloroethene	20.24	1.0	20	0	101	70-145	0			
1,2,4-Trichlorobenzene	19.17	1.0	20	0	95.8	70-135	0			
1,2-Dibromo-3-chloropropane	14.98	1.0	20	0	74.9	60-130	0			
1,2-Dibromoethane	19.61	1.0	20	0	98	80-150	0			
1,2-Dichlorobenzene	18.9	1.0	20	0	94.5	70-130	0			
1,2-Dichloroethane	20.58	1.0	20	0	103	78-125	0			
1,2-Dichloropropane	19.69	1.0	20	0	98.4	75-125	0			
1,3-Dichlorobenzene	20.25	1.0	20	0	101	75-130	0			
1,4-Dichlorobenzene	20.3	1.0	20	0	102	75-130	0			
2-Butanone	23.46	5.0	20	0	117	55-150	0			
2-Hexanone	19.6	5.0	20	0	98	60-135	0			
4-Methyl-2-pentanone	21.92	1.0	20	0	110	77-178	0			
Acetone	20.32	10	20	0	102	60-160	0			
Benzene	19.69	1.0	20	0	98.4	85-125	0			
Bromodichloromethane	18.47	1.0	20	0	92.4	75-125	0			
Bromoform	17.38	1.0	20	0	86.9	60-125	0			
Bromomethane	16.31	1.0	20	0	81.6	30-185	0			
Carbon disulfide	16.17	1.0	20	0	80.8	60-165	0			
Carbon tetrachloride	17.62	1.0	20	0	88.1	65-140	0			
Chlorobenzene	19.54	1.0	20	0	97.7	80-120	0			
Chloroethane	19.81	1.0	20	0	99	50-140	0			
Chloroform	19.49	1.0	20	0	97.4	80-130	0			
Chloromethane	14.8	1.0	20	0	74	50-130	0			
cis-1,2-Dichloroethene	19.57	1.0	20	0	97.8	75-134	0			
cis-1,3-Dichloropropene	18.44	1.0	20	0	92.2	70-130	0			
Dibromochloromethane	16.3	1.0	20	0	81.5	60-115	0			
Dichlorodifluoromethane	11.75	1.0	20	0	58.8	20-120	0			
Ethylbenzene	20.22	1.0	20	0	101	85-125	0			
Isopropylbenzene	20.59	1.0	20	0	103	80-127	0			
Methyl tert-butyl ether	18.8	1.0	20	0	94	80-130	0			
Methylene chloride	19.36	5.0	20	0	96.8	75-140	0			
Styrene	20.98	1.0	20	0	105	85-125	0			
Tetrachloroethene	21.05	1.0	20	0	105	77-138	0			
Toluene	20.33	1.0	20	0	102	85-125	0			
trans-1,2-Dichloroethene	19.13	1.0	20	0	95.6	80-140	0			
trans-1,3-Dichloropropene	19.06	1.0	20	0	95.3	81-123	0			
Trichloroethene	18.75	1.0	20	0	93.8	84-130	0			
Trichlorofluoromethane	18.76	1.0	20	0	93.8	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R161540	Instrument ID VMS9		Method: SW8260				
Vinyl chloride	18.72	1.0	20	0	93.6	50-136	0
Xylenes, Total	60.34	3.0	60	0	101	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.47</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.4</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.84</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.22</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.1</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20.42</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-110</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates

Work Order: 1504564

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R161540**

Instrument ID **VMS9**

Method: **SW8260**

MS				Sample ID: 1504564-15A MS			Units: µg/L		Analysis Date: 4/18/2015 12:44 PM	
Client ID: WG-017360-040815-MR-015				Run ID: VMS9_150417A			SeqNo: 3231092		Prep Date:	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.2	1.0	20	0	96	75-130	0			
1,1,2,2-Tetrachloroethane	19.07	1.0	20	0	95.4	75-130	0			
1,1,2-Trichloroethane	19.03	1.0	20	0	95.2	75-125	0			
1,1-Dichloroethane	18.44	1.0	20	0	92.2	75-133	0			
1,1-Dichloroethene	20.3	1.0	20	0	102	70-145	0			
1,2,4-Trichlorobenzene	15.65	1.0	20	0	78.2	70-135	0			
1,2-Dibromo-3-chloropropane	15.76	1.0	20	0	78.8	60-130	0			
1,2-Dibromoethane	18.59	1.0	20	0	93	80-150	0			
1,2-Dichlorobenzene	17.78	1.0	20	0	88.9	70-130	0			
1,2-Dichloroethane	19.53	1.0	20	0	97.6	78-125	0			
1,2-Dichloropropane	18.6	1.0	20	0	93	75-125	0			
1,3-Dichlorobenzene	18.86	1.0	20	0	94.3	75-130	0			
1,4-Dichlorobenzene	18.34	1.0	20	0	91.7	75-130	0			
2-Butanone	23.74	5.0	20	0	119	55-150	0			
2-Hexanone	20.33	5.0	20	0	102	60-135	0			
4-Methyl-2-pentanone	22.23	1.0	20	0	111	77-178	0			
Acetone	22.23	10	20	0	111	60-160	0			
Benzene	19.45	1.0	20	0	97.2	85-125	0			
Bromodichloromethane	17.37	1.0	20	0	86.8	75-125	0			
Bromoform	16.18	1.0	20	0	80.9	60-125	0			
Bromomethane	17.06	1.0	20	0	85.3	30-185	0			
Carbon disulfide	16.51	1.0	20	0	82.6	60-165	0			
Carbon tetrachloride	18.73	1.0	20	0	93.6	65-140	0			
Chlorobenzene	17.97	1.0	20	0	89.8	80-120	0			
Chloroethane	20.76	1.0	20	0	104	50-140	0			
Chloroform	19.05	1.0	20	0	95.2	80-130	0			
Chloromethane	17.37	1.0	20	0	86.8	50-130	0			
cis-1,2-Dichloroethene	17.81	1.0	20	0	89	75-134	0			
cis-1,3-Dichloropropene	16.38	1.0	20	0	81.9	70-130	0			
Dibromochloromethane	15.17	1.0	20	0	75.8	60-115	0			
Dichlorodifluoromethane	16.75	1.0	20	0	83.8	20-120	0			
Ethylbenzene	18.35	1.0	20	0	91.8	85-125	0			
Isopropylbenzene	18.71	1.0	20	0	93.6	80-127	0			
Methyl tert-butyl ether	17	1.0	20	0	85	80-130	0			
Methylene chloride	17.68	5.0	20	0	88.4	75-140	0			
Styrene	18.82	1.0	20	0	94.1	85-125	0			
Tetrachloroethene	20.49	1.0	20	0	102	77-138	0			
Toluene	18.81	1.0	20	0	94	85-125	0			
trans-1,2-Dichloroethene	18.31	1.0	20	0	91.6	80-140	0			
trans-1,3-Dichloropropene	16.29	1.0	20	0	81.4	81-123	0			
Trichloroethene	18.4	1.0	20	0	92	84-130	0			
Trichlorofluoromethane	20.84	1.0	20	0	104	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R161540	Instrument ID VMS9	Method: SW8260					
Vinyl chloride	22.71	1.0	20	0	114	50-136	0
Xylenes, Total	55.67	3.0	60	0	92.8	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.79</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.49</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.08</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20.01</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-110</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R161540** Instrument ID **VMS9** Method: **SW8260**

MSD				Sample ID: 1504564-15A MSD			Units: µg/L		Analysis Date: 4/18/2015 01:10 AM	
Client ID: WG-017360-040815-MR-015				Run ID: VMS9_150417A			SeqNo: 3231090		Prep Date:	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	21.4	1.0	20	0	107	75-130	19.2	10.8	30	
1,1,2,2-Tetrachloroethane	22.28	1.0	20	0	111	75-130	19.07	15.5	30	
1,1,2-Trichloroethane	20.65	1.0	20	0	103	75-125	19.03	8.17	30	
1,1-Dichloroethane	19.12	1.0	20	0	95.6	75-133	18.44	3.62	30	
1,1-Dichloroethene	22.52	1.0	20	0	113	70-145	20.3	10.4	30	
1,2,4-Trichlorobenzene	16.92	1.0	20	0	84.6	70-135	15.65	7.8	30	
1,2-Dibromo-3-chloropropane	16.92	1.0	20	0	84.6	60-130	15.76	7.1	30	
1,2-Dibromoethane	19.94	1.0	20	0	99.7	80-150	18.59	7.01	30	
1,2-Dichlorobenzene	19.17	1.0	20	0	95.8	70-130	17.78	7.52	30	
1,2-Dichloroethane	22.01	1.0	20	0	110	78-125	19.53	11.9	30	
1,2-Dichloropropane	20.31	1.0	20	0	102	75-125	18.6	8.79	30	
1,3-Dichlorobenzene	19.87	1.0	20	0	99.4	75-130	18.86	5.22	30	
1,4-Dichlorobenzene	20.21	1.0	20	0	101	75-130	18.34	9.7	30	
2-Butanone	26.95	5.0	20	0	135	55-150	23.74	12.7	30	
2-Hexanone	21.93	5.0	20	0	110	60-135	20.33	7.57	30	
4-Methyl-2-pentanone	23.92	1.0	20	0	120	77-178	22.23	7.32	30	
Acetone	26.49	10	20	0	132	60-160	22.23	17.5	30	
Benzene	21.53	1.0	20	0	108	85-125	19.45	10.2	30	
Bromodichloromethane	19.52	1.0	20	0	97.6	75-125	17.37	11.7	30	
Bromoform	19.17	1.0	20	0	95.8	60-125	16.18	16.9	30	
Bromomethane	18.3	1.0	20	0	91.5	30-185	17.06	7.01	30	
Carbon disulfide	17.67	1.0	20	0	88.4	60-165	16.51	6.79	30	
Carbon tetrachloride	20.49	1.0	20	0	102	65-140	18.73	8.98	30	
Chlorobenzene	20.21	1.0	20	0	101	80-120	17.97	11.7	30	
Chloroethane	19.66	1.0	20	0	98.3	50-140	20.76	5.44	30	
Chloroform	21.28	1.0	20	0	106	80-130	19.05	11.1	30	
Chloromethane	17.44	1.0	20	0	87.2	50-130	17.37	0.402	30	
cis-1,2-Dichloroethene	20.32	1.0	20	0	102	75-134	17.81	13.2	30	
cis-1,3-Dichloropropene	17.22	1.0	20	0	86.1	70-130	16.38	5	30	
Dibromochloromethane	16.92	1.0	20	0	84.6	60-115	15.17	10.9	30	
Dichlorodifluoromethane	16.56	1.0	20	0	82.8	20-120	16.75	1.14	30	
Ethylbenzene	21.45	1.0	20	0	107	85-125	18.35	15.6	30	
Isopropylbenzene	21.61	1.0	20	0	108	80-127	18.71	14.4	30	
Methyl tert-butyl ether	17.83	1.0	20	0	89.2	80-130	17	4.77	30	
Methylene chloride	18.69	5.0	20	0	93.4	75-140	17.68	5.55	30	
Styrene	21.8	1.0	20	0	109	85-125	18.82	14.7	30	
Tetrachloroethene	21.83	1.0	20	0	109	77-138	20.49	6.33	30	
Toluene	20.52	1.0	20	0	103	85-125	18.81	8.7	30	
trans-1,2-Dichloroethene	19.56	1.0	20	0	97.8	80-140	18.31	6.6	30	
trans-1,3-Dichloropropene	18.13	1.0	20	0	90.6	81-123	16.29	10.7	30	
Trichloroethene	20.27	1.0	20	0	101	84-130	18.4	9.67	30	
Trichlorofluoromethane	21.74	1.0	20	0	109	60-140	20.84	4.23	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R161540	Instrument ID VMS9			Method: SW8260					
Vinyl chloride	22.23	1.0	20	0	111	50-136	22.71	2.14	30
Xylenes, Total	64.33	3.0	60	0	107	80-126	55.67	14.4	30
Surr: 1,2-Dichloroethane-d4	20.76	0	20	0	104	75-120	20.79	0.144	30
Surr: 4-Bromofluorobenzene	21.69	0	20	0	108	80-110	20.49	5.69	30
Surr: Dibromofluoromethane	20.2	0	20	0	101	85-115	20.08	0.596	30
Surr: Toluene-d8	19.86	0	20	0	99.3	85-110	20.01	0.752	30

The following samples were analyzed in this batch:	1504564-01A	1504564-02A	1504564-03A
	1504564-04A	1504564-05A	1504564-06A
	1504564-07A	1504564-08A	1504564-09A
	1504564-10A	1504564-11A	1504564-12A
	1504564-13A	1504564-14A	1504564-15A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates

Work Order: 1504564

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R161585A**

Instrument ID **VMS6**

Method: **SW8260**

MBLK		Sample ID: VBKWK1-150419-R161585A				Units: µg/L		Analysis Date: 4/19/2015 08:29 PM		
Client ID:		Run ID: VMS6_150419A				SeqNo: 3232429		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	1.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R161585A		Instrument ID VMS6		Method: SW8260				
trans-1,2-Dichloroethene		U	1.0					
trans-1,3-Dichloropropene		U	1.0					
Trichloroethene		U	1.0					
Trichlorofluoromethane		U	1.0					
Vinyl chloride		U	1.0					
Xylenes, Total		U	3.0					
Surr: 1,2-Dichloroethane-d4		20.9	0	20	0	104	75-120	0
Surr: 4-Bromofluorobenzene		19.97	0	20	0	99.8	80-110	0
Surr: Dibromofluoromethane		20.36	0	20	0	102	85-115	0
Surr: Toluene-d8		19.27	0	20	0	96.4	85-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R161585A** Instrument ID **VMS6** Method: **SW8260**

LCS		Sample ID: VLCSW1-150419-R161585A				Units: µg/L		Analysis Date: 4/19/2015 07:37 PM		
Client ID:		Run ID: VMS6_150419A				SeqNo: 3232428		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	23.06	1.0	20	0	115	75-130	0			
1,1,2,2-Tetrachloroethane	19.12	1.0	20	0	95.6	75-130	0			
1,1,2-Trichloroethane	18.83	1.0	20	0	94.2	75-125	0			
1,1-Dichloroethane	20.25	1.0	20	0	101	75-133	0			
1,1-Dichloroethene	21.42	1.0	20	0	107	70-145	0			
1,2,4-Trichlorobenzene	20.62	1.0	20	0	103	70-135	0			
1,2-Dibromo-3-chloropropane	18.53	1.0	20	0	92.6	60-130	0			
1,2-Dibromoethane	20.77	1.0	20	0	104	80-150	0			
1,2-Dichlorobenzene	19.2	1.0	20	0	96	70-130	0			
1,2-Dichloroethane	20.92	1.0	20	0	105	78-125	0			
1,2-Dichloropropane	19.9	1.0	20	0	99.5	75-125	0			
1,3-Dichlorobenzene	19.67	1.0	20	0	98.4	75-130	0			
1,4-Dichlorobenzene	19.85	1.0	20	0	99.2	75-130	0			
2-Butanone	17.52	5.0	20	0	87.6	55-150	0			
2-Hexanone	16.78	5.0	20	0	83.9	60-135	0			
4-Methyl-2-pentanone	20.81	1.0	20	0	104	77-178	0			
Acetone	17.31	10	20	0	86.6	60-160	0			
Benzene	20.62	1.0	20	0	103	85-125	0			
Bromodichloromethane	22.87	1.0	20	0	114	75-125	0			
Bromoform	20.37	1.0	20	0	102	60-125	0			
Bromomethane	20.82	1.0	20	0	104	30-185	0			
Carbon disulfide	22.02	1.0	20	0	110	60-165	0			
Carbon tetrachloride	19.82	1.0	20	0	99.1	65-140	0			
Chlorobenzene	19.61	1.0	20	0	98	80-120	0			
Chloroethane	19.83	1.0	20	0	99.2	50-140	0			
Chloroform	20.55	1.0	20	0	103	80-130	0			
Chloromethane	16.59	1.0	20	0	83	50-130	0			
cis-1,2-Dichloroethene	21.66	1.0	20	0	108	75-134	0			
cis-1,3-Dichloropropene	20.2	1.0	20	0	101	70-130	0			
Dibromochloromethane	19.01	1.0	20	0	95	60-115	0			
Dichlorodifluoromethane	11.27	1.0	20	0	56.4	20-120	0			
Ethylbenzene	19.76	1.0	20	0	98.8	85-125	0			
Isopropylbenzene	19.38	1.0	20	0	96.9	80-127	0			
Methyl tert-butyl ether	16.6	1.0	20	0	83	80-130	0			
Methylene chloride	19.67	5.0	20	0	98.4	75-140	0			
Styrene	19.51	1.0	20	0	97.6	85-125	0			
Tetrachloroethene	19.54	1.0	20	0	97.7	77-138	0			
Toluene	20.19	1.0	20	0	101	85-125	0			
trans-1,2-Dichloroethene	20.91	1.0	20	0	105	80-140	0			
trans-1,3-Dichloropropene	18.21	1.0	20	0	91	81-123	0			
Trichloroethene	19.67	1.0	20	0	98.4	84-130	0			
Trichlorofluoromethane	19.66	1.0	20	0	98.3	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R161585A	Instrument ID VMS6	Method: SW8260					
Vinyl chloride	18.32	1.0	20	0	91.6	50-136	0
Xylenes, Total	58.41	3.0	60	0	97.4	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.07</i>	0	<i>20</i>	0	<i>100</i>	<i>75-120</i>	0
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.33</i>	0	<i>20</i>	0	<i>102</i>	<i>80-110</i>	0
<i>Surr: Dibromofluoromethane</i>	<i>20.87</i>	0	<i>20</i>	0	<i>104</i>	<i>85-115</i>	0
<i>Surr: Toluene-d8</i>	<i>19.84</i>	0	<i>20</i>	0	<i>99.2</i>	<i>85-110</i>	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates

Work Order: 1504564

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R161585A

Instrument ID VMS6

Method: SW8260

MS				Sample ID: 1504361-03B MS			Units: µg/L		Analysis Date: 4/20/2015 05:39 AM	
Client ID:				Run ID: VMS6_150419A			SeqNo: 3232445		Prep Date:	
									DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	121.1	5.0	100	0	121	75-130	0			
1,1,2,2-Tetrachloroethane	94.55	5.0	100	0	94.6	75-130	0			
1,1,2-Trichloroethane	96.8	5.0	100	0	96.8	75-125	0			
1,1-Dichloroethane	138.6	5.0	100	28	111	75-133	0			
1,1-Dichloroethene	122	5.0	100	0	122	70-145	0			
1,2,4-Trichlorobenzene	86.6	5.0	100	0	86.6	70-135	0			
1,2-Dibromo-3-chloropropane	71.9	5.0	100	0	71.9	60-130	0			
1,2-Dibromoethane	103.2	5.0	100	0	103	80-150	0			
1,2-Dichlorobenzene	96.85	5.0	100	0	96.8	70-130	0			
1,2-Dichloroethane	111	5.0	100	0	111	78-125	0			
1,2-Dichloropropane	104.6	5.0	100	0	105	75-125	0			
1,3-Dichlorobenzene	100.1	5.0	100	0	100	75-130	0			
1,4-Dichlorobenzene	100	5.0	100	0	100	75-130	0			
2-Butanone	92.75	25	100	0	92.8	55-150	0			
2-Hexanone	89.5	25	100	0	89.5	60-135	0			
4-Methyl-2-pentanone	108.8	5.0	100	0	109	77-178	0			
Acetone	113	50	100	0	113	60-160	0			
Benzene	942.8	5.0	100	779	164	85-125	0			SEO
Bromodichloromethane	110	5.0	100	0	110	75-125	0			
Bromoform	84.25	5.0	100	0	84.2	60-125	0			
Bromomethane	100.5	5.0	100	0	100	30-185	0			
Carbon disulfide	105.5	5.0	100	0	106	60-165	0			
Carbon tetrachloride	105.4	5.0	100	0	105	65-140	0			
Chlorobenzene	103.8	5.0	100	0	104	80-120	0			
Chloroethane	108.6	5.0	100	0	109	50-140	0			
Chloroform	110.6	5.0	100	0	111	80-130	0			
Chloromethane	77.15	5.0	100	0	77.2	50-130	0			
cis-1,2-Dichloroethene	113.6	5.0	100	0	114	75-134	0			
cis-1,3-Dichloropropene	94.65	5.0	100	0	94.6	70-130	0			
Dibromochloromethane	82.95	5.0	100	0	83	60-115	0			
Dichlorodifluoromethane	62.05	5.0	100	0	62	20-120	0			
Ethylbenzene	106.6	5.0	100	0	107	85-125	0			
Isopropylbenzene	108.4	5.0	100	0	108	80-127	0			
Methyl tert-butyl ether	90.05	5.0	100	0	90	80-130	0			
Methylene chloride	109	25	100	0	109	75-140	0			
Styrene	100.4	5.0	100	0	100	85-125	0			
Tetrachloroethene	106.8	5.0	100	0	107	77-138	0			
Toluene	111.4	5.0	100	6.7	105	85-125	0			
trans-1,2-Dichloroethene	114.8	5.0	100	0	115	80-140	0			
trans-1,3-Dichloropropene	79.4	5.0	100	0	79.4	81-123	0			S
Trichloroethene	109.8	5.0	100	0	110	84-130	0			
Trichlorofluoromethane	116.4	5.0	100	0	116	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R161585A	Instrument ID VMS6		Method: SW8260				
Vinyl chloride	97.8	5.0	100	0	97.8	50-136	0
Xylenes, Total	316	15	300	0	105	80-126	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>99.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.1</i>	<i>75-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>80-110</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>97.9</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>97.9</i>	<i>85-110</i>	<i>0</i>

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R161585A** Instrument ID **VMS6** Method: **SW8260**

MSD		Sample ID: 1504361-03B MSD				Units: µg/L		Analysis Date: 4/20/2015 06:05 AM		
Client ID:		Run ID: VMS6_150419A				SeqNo: 3232446		Prep Date:		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	120.8	5.0	100	0	121	75-130	121.1	0.248	30	
1,1,2,2-Tetrachloroethane	95.1	5.0	100	0	95.1	75-130	94.55	0.58	30	
1,1,2-Trichloroethane	96.95	5.0	100	0	97	75-125	96.8	0.155	30	
1,1-Dichloroethane	138.2	5.0	100	28	110	75-133	138.6	0.361	30	
1,1-Dichloroethene	119.6	5.0	100	0	120	70-145	122	2.03	30	
1,2,4-Trichlorobenzene	91.05	5.0	100	0	91	70-135	86.6	5.01	30	
1,2-Dibromo-3-chloropropane	73.05	5.0	100	0	73	60-130	71.9	1.59	30	
1,2-Dibromoethane	104.2	5.0	100	0	104	80-150	103.2	0.868	30	
1,2-Dichlorobenzene	99.5	5.0	100	0	99.5	70-130	96.85	2.7	30	
1,2-Dichloroethane	108.3	5.0	100	0	108	78-125	111	2.46	30	
1,2-Dichloropropane	102.2	5.0	100	0	102	75-125	104.6	2.22	30	
1,3-Dichlorobenzene	103.8	5.0	100	0	104	75-130	100.1	3.58	30	
1,4-Dichlorobenzene	102.2	5.0	100	0	102	75-130	100	2.22	30	
2-Butanone	93	25	100	0	93	55-150	92.75	0.269	30	
2-Hexanone	87.1	25	100	0	87.1	60-135	89.5	2.72	30	
4-Methyl-2-pentanone	110	5.0	100	0	110	77-178	108.8	1.14	30	
Acetone	100	50	100	0	100	60-160	113	12.2	30	
Benzene	913.6	5.0	100	779	135	85-125	942.8	3.15	30	SEO
Bromodichloromethane	111	5.0	100	0	111	75-125	110	0.95	30	
Bromoform	86.15	5.0	100	0	86.2	60-125	84.25	2.23	30	
Bromomethane	107.6	5.0	100	0	108	30-185	100.5	6.78	30	
Carbon disulfide	107.1	5.0	100	0	107	60-165	105.5	1.51	30	
Carbon tetrachloride	104.1	5.0	100	0	104	65-140	105.4	1.24	30	
Chlorobenzene	104.6	5.0	100	0	105	80-120	103.8	0.72	30	
Chloroethane	107	5.0	100	0	107	50-140	108.6	1.44	30	
Chloroform	109.8	5.0	100	0	110	80-130	110.6	0.726	30	
Chloromethane	70.9	5.0	100	0	70.9	50-130	77.15	8.44	30	
cis-1,2-Dichloroethene	113.4	5.0	100	0	113	75-134	113.6	0.176	30	
cis-1,3-Dichloropropene	93.95	5.0	100	0	94	70-130	94.65	0.742	30	
Dibromochloromethane	86.35	5.0	100	0	86.4	60-115	82.95	4.02	30	
Dichlorodifluoromethane	61.95	5.0	100	0	62	20-120	62.05	0.161	30	
Ethylbenzene	107	5.0	100	0	107	85-125	106.6	0.374	30	
Isopropylbenzene	107.6	5.0	100	0	108	80-127	108.4	0.694	30	
Methyl tert-butyl ether	86.75	5.0	100	0	86.8	80-130	90.05	3.73	30	
Methylene chloride	108	25	100	0	108	75-140	109	0.921	30	
Styrene	101.5	5.0	100	0	102	85-125	100.4	1.09	30	
Tetrachloroethene	110.2	5.0	100	0	110	77-138	106.8	3.13	30	
Toluene	112.7	5.0	100	6.7	106	85-125	111.4	1.12	30	
trans-1,2-Dichloroethene	113.8	5.0	100	0	114	80-140	114.8	0.962	30	
trans-1,3-Dichloropropene	81.4	5.0	100	0	81.4	81-123	79.4	2.49	30	
Trichloroethene	106.3	5.0	100	0	106	84-130	109.8	3.19	30	
Trichlorofluoromethane	114	5.0	100	0	114	60-140	116.4	2.17	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: R161585A		Instrument ID VMS6		Method: SW8260					
Vinyl chloride	96.35	5.0	100	0	96.4	50-136	97.8	1.49	30
Xylenes, Total	318.6	15	300	0	106	80-126	316	0.835	30
<i>Surr: 1,2-Dichloroethane-d4</i>	98.55	0	100	0	98.6	75-120	99.1	0.557	30
<i>Surr: 4-Bromofluorobenzene</i>	101.8	0	100	0	102	80-110	101.2	0.542	30
<i>Surr: Dibromofluoromethane</i>	100	0	100	0	100	85-115	103	2.96	30
<i>Surr: Toluene-d8</i>	98.3	0	100	0	98.3	85-110	97.9	0.408	30

The following samples were analyzed in this batch:	1504564-01A	1504564-16A	1504564-17A
	1504564-18A	1504564-19A	1504564-20A
	1504564-21A	1504564-22A	1504564-23A
	1504564-24A	1504564-25A	1504564-26A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1504564
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R161617A** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: VBLKW1-150420-R161617A				Units: µg/L		Analysis Date: 4/20/2015 12:00 PM				
Client ID:		Run ID: VMS5_150420A		SeqNo: 3234480		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Tetrachloroethene	U	1.0								
Surr: 1,2-Dichloroethane-d4	20.18	0	20	0	101	75-120	0			
Surr: 4-Bromofluorobenzene	19.07	0	20	0	95.4	80-110	0			
Surr: Dibromofluoromethane	20.27	0	20	0	101	85-115	0			
Surr: Toluene-d8	19.97	0	20	0	99.8	85-110	0			

LCS Sample ID: VLCSW1-150420-R161617A				Units: µg/L		Analysis Date: 4/20/2015 10:44 AM				
Client ID:		Run ID: VMS5_150420A		SeqNo: 3234478		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Tetrachloroethene	20.86	1.0	20	0	104	77-138	0			
Surr: 1,2-Dichloroethane-d4	19.41	0	20	0	97	75-120	0			
Surr: 4-Bromofluorobenzene	20	0	20	0	100	80-110	0			
Surr: Dibromofluoromethane	20.2	0	20	0	101	85-115	0			
Surr: Toluene-d8	20.23	0	20	0	101	85-110	0			

MS Sample ID: 1504897-02A MS				Units: µg/L		Analysis Date: 4/20/2015 09:16 PM				
Client ID:		Run ID: VMS5_150420A		SeqNo: 3234494		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Tetrachloroethene	22.04	1.0	20	0	110	77-138	0			
Surr: 1,2-Dichloroethane-d4	19.46	0	20	0	97.3	75-120	0			
Surr: 4-Bromofluorobenzene	20.3	0	20	0	102	80-110	0			
Surr: Dibromofluoromethane	19.83	0	20	0	99.2	85-115	0			
Surr: Toluene-d8	19.89	0	20	0	99.4	85-110	0			

MSD Sample ID: 1504897-02A MSD				Units: µg/L		Analysis Date: 4/20/2015 09:42 PM				
Client ID:		Run ID: VMS5_150420A		SeqNo: 3234495		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Tetrachloroethene	23.1	1.0	20	0	116	77-138	22.04	4.7	30	
Surr: 1,2-Dichloroethane-d4	19.63	0	20	0	98.2	75-120	19.46	0.87	30	
Surr: 4-Bromofluorobenzene	19.73	0	20	0	98.6	80-110	20.3	2.85	30	
Surr: Dibromofluoromethane	19.91	0	20	0	99.6	85-115	19.83	0.403	30	
Surr: Toluene-d8	19.95	0	20	0	99.8	85-110	19.89	0.301	30	

The following samples were analyzed in this batch: 1504564-20A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

1504564
COC NO.: PL-12742

PAGE 1 OF 2

(See Reverse Side for Instructions)

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE—Fully Executed Copy (CRA)

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PINK—Shipper

GOLDENROD — Sampling Crew

CRA Form, COC-10A (20110804)



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-12741**

PAGE **2** OF **2**

(See Reverse Side for Instructions)

Project No./Phase/Task Code: 017360-08Y15-01Y15				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-030											
Project Name: Former GRMP				Lab Contact: Chad Welton				Lab Quote No.:				Cooler No.:											
Project Location: Wyoming, MI				SAMPLE TYPE		CONTAINER QUANTITY & PRESERVATION						ANALYSIS REQUESTED (See Back of COC for Definitions)						Carrier: CRA					
Chemistry Contact: Rana Fleisher				Matrix Code (see back of COC) Grab (G) or Comp (C)		Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Sol VOC)	EnCore 3x5-g 1x25-g	Other:	Total Containers/Sample	VOCs	PAH Metab	H ₂	SVOCs	MSMS Request	Airbill No.:			
Sampler(s): MDR																				Date Shipped: 4/10/15			
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yyyy)	TIME (hh:mm)	Matrix Code	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Sol VOC)	EnCore 3x5-g 1x25-g	Other:	Total Containers/Sample	VOCs	PAH Metab	H ₂	SVOCs	MSMS Request	COMMENTS/ SPECIAL INSTRUCTIONS:	
1	WG-017360-040815-MR-015			4/8/15	1023	WG	G		9							9	X					X	
2	" " " " -016				1101				3							3							
3	" " " " -017				1210																		
4	" " " " -018				1326																		
5	" " " " -019				1453																		
6	" " " " -020				1605																		
7	WG-017360-040915-MR-021			4/9/15	1127																		
8	" " " " -022				1338																		
9	" " " " -023				1425			2								5			X				
10	" " " " -024				1534											3							
11	" " " " -025				1641											3							
12	TB-017360-040915-MR-026			4/9/15		TB	G		1							1							
13																							
14																							
15																							
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:								Total Number of Containers: 42				Notes: Special Requirements: 3.0e											
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:								All Samples in Cooler must be on COC				(C)											
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME									
1. MAB		CRA		4/10/15				1. DRZ		ALS		4/10/15		0835									
2.								2.															
3.								3.															

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)

Sample Receipt Checklist

Client Name: **CRA - PLYMOUTH**

Date/Time Received: **10-Apr-15 08:35**

Work Order: **1504564**

Received by: **DS**

Checklist completed by Diane Shaw 10-Apr-15
eSignature Date

Reviewed by: Chad Whelton 10-Apr-15
eSignature Date

Matrices: Groundwater, Surface Water

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Sample(s) received on ice?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	<u>3.0 c</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>4/10/2015 10:18:23 AM</u>		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☒	N/A ☐
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Attachment B

Data Validation Memorandum



**CONESTOGA-ROVERS
& ASSOCIATES**

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www.CRAworld.com

MEMORANDUM

To: Jennifer Quigley REF. NO.: 017360-T08Y15

FROM: Rawa Fleisher/tl/75/Det ^{RF} DATE: May 21, 2015

RE: Analytical Results and Reduced Validation
2015 Monitoring Well and Culvert Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
April 2015

1.0 Introduction

The following document details a reduced validation of analytical results for groundwater and surface water samples collected in support of the 2015 Monitoring Well and Culvert Sampling at the Racer Grand Rapids Stamping Site during April 2015. Samples were submitted to ALS Environmental, located in Holland, Michigan (ALS-MI). A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard Conestoga-Rovers & Associates (CRA) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS), and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "Former Grand Rapids Metal Plant Quality Assurance Project Plan (QAPP)", Revision 1, January 6, 2011
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999
- iii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2.0 Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature ($4 \pm 2^{\circ}\text{C}$).

3.0 Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Table 4 presents the data qualified due to analyte concentrations in the method blanks. All remaining method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4.0 Surrogate Spike Recoveries – Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compounds (VOC) and semivolatile organic compounds (SVOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the above criteria.

5.0 Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

The LCS contained all compounds of interest. All LCS were within the laboratory control limits or outlying percent recoveries did not result in qualification, demonstrating acceptable analytical accuracy.

Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

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

To evaluate the effects of sample matrices on the extraction or digestion process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. Table 5 presents the TCL VOC and TCL SVOC sample results qualified due to outlying MS/MSD results. All remaining percent recoveries and RPD values were within the laboratory control limits or outlying percent recoveries did not result in qualification, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7.0 Field QA/QC Samples

The field QA/QC consisted of two trip blank samples and five field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, two trip blanks were submitted to the laboratory for TCL VOC analysis. Table 6 presents the data qualified due to analyte concentrations in the trip blanks. All remaining results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, five field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value for water samples.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8.0 Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

9.0 Conclusion

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

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters				Comments
					TCL VOC	TCL SVOC	Site-Specific TAL Metals		
ALS-MI SDG No.: 1504564									
WG-017360-040615-MR-001	MW11D-04	water	04/06/2015	14:01	X	--	--	--	
WG-017360-040615-MR-002	MW11S-05	water	04/06/2015	01/00/00	X	--	--	--	
WG-017360-040615-MR-003	MW4-03	water	04/06/2015	01/00/00	X	--	--	--	
SW-017360-040615-MR-004	C-2	water	04/06/2015	16:15	X	--	--	--	
SW-017360-040615-MR-005	C-3	water	04/06/2015	16:30	X	--	--	--	
SW-017360-040615-MR-006	C-1	water	04/06/2015	16:45	X	--	--	--	
WG-017360-040715-MR-007	MW10-04	water	04/07/2015	10:39	X	--	--	--	
WG-017360-040715-MR-008	MW10-04	water	04/07/2015	11:20	X	--	--	--	Field duplicate of MW10-04
WG-017360-040715-MR-009	MW9-04	water	04/07/2015	11:42	X	--	--	--	
WG-017360-040715-MR-010	MW8-04	water	04/07/2015	12:35	X	--	--	--	
WG-017360-040715-MR-011	87-10	water	04/07/2015	13:57	X	--	--	--	
WG-017360-040715-MR-012	MW59-14	water	04/07/2015	14:42	X	--	X	--	
WG-017360-040715-MR-013	MW59-14	water	04/07/2015	15:00	X	--	X	--	Field duplicate of MW59-14
WG-017360-040715-MR-014	87-8	water	04/07/2015	16:36	X	--	--	--	
WG-017360-040815-MR-015	MW6-03	water	04/08/2015	10:23	X	--	--	--	MS/MSD
WG-017360-040815-MR-016	87-13	water	04/08/2015	11:01	X	--	--	--	
WG-017360-040815-MR-017	MW7-03	water	04/08/2015	12:10	X	--	--	--	
WG-017360-040815-MR-018	86-3	water	04/08/2015	13:26	X	--	--	--	
WG-017360-040815-MR-019	MW48-13	water	04/08/2015	14:43	X	--	--	--	
WG-017360-040815-MR-020	MW17-06	water	04/08/2015	16:05	X	--	--	--	
WG-017360-040915-MR-021	MW49-13	water	04/09/2015	11:27	X	--	--	--	
WG-017360-040915-MR-022	MW2-03	water	04/09/2015	13:38	X	--	--	--	
WG-017360-040915-MR-023	85-6	water	04/09/2015	14:29	X	X	--	--	
WG-017360-040915-MR-024	MW28-12	water	04/09/2015	15:34	X	--	--	--	

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters				Comments
					TCL VOC	TCL SVOC	Site-Specific TAL Metals		
ALS-MI SDG No.: 1504564									
WG-017360-040915-MR-025	MW30-12	water	04/09/2015	16:21	X	--	--	--	Trip Blank
TB-017360-040915-MR-026	--	water	04/09/2015	--	X	--	--	--	
ALS-MI SDG No.: 1504937									
WG-017360-041315-MR-027	MW58-13	water	04/13/2015	11:34	X	--	--	--	MS/MSD
WG-017360-041315-MR-028	MW27-11	water	04/13/2015	12:08	X	--	X	--	
WG-017360-041315-MR-029	MW41-12	water	04/13/2015	13:25	X	--	--	--	MS/MSD, Field duplicate of MW34-12
WG-017360-041315-MR-030	MW34-12	water	04/13/2015	14:09	X	--	--	--	
WG-017360-041315-MR-031	MW34-12	water	04/13/2015	14:20	X	--	--	--	Field duplicate of MW37-12
WG-017360-041315-MR-032	MW40-12	water	04/13/2015	14:53	X	--	--	--	
WG-017360-041315-MR-033	MW32-12	water	04/13/2015	15:38	X	--	--	--	MS/MSD
WG-017360-041315-MR-034	MW33-12	water	04/13/2015	16:19	X	--	--	--	
WG-017360-041415-MR-035	MW35-12	water	04/14/2015	11:00	X	--	--	--	Field duplicate of MW37-12
WG-017360-041415-MR-036	MW37-12	water	04/14/2015	11:37	X	--	--	--	
WG-017360-041415-MR-037	MW37-12	water	04/14/2015	11:55	X	--	--	--	MS/MSD
WG-017360-041415-MR-038	MW38-12	water	04/14/2015	12:32	X	--	--	--	
WG-017360-041415-MR-039	MW43-12	water	04/14/2015	13:27	X	--	--	--	MS/MSD
WG-017360-041415-MR-040	MW42-12	water	04/14/2015	14:14	X	--	--	--	
WG-017360-041415-MR-041	MW60-14	water	04/14/2015	15:17	X	--	X	--	MS/MSD
WG-017360-041415-MR-042	MW15-04	water	04/14/2015	16:32	X	--	--	--	
WG-017360-041515-MR-043	MW52-12	water	04/15/2015	10:32	X	X	--	--	Field duplicate of MW51-12
WG-017360-041515-MR-044	MW51-12	water	04/15/2015	11:31	X	X	--	--	
WG-017360-041515-MR-045	MW51-12	water	04/15/2015	11:55	X	X	--	--	

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters				Comments
					TCL VOC	TCL SVOC	Site-Specific TAL Metals		
ALS-MI SDG No.: 1504937									
WG-017360-041515-MR-046	MW50-12	water	04/15/2015	12:28	X	X	-	-	
WG-017360-041515-MR-047	MW44-12	water	04/15/2015	13:32	X	X	-	-	
WG-017360-041515-MR-048	MW45-12	water	04/15/2015	14:09	X	X	-	-	
WG-017360-041515-MR-049	MW46-12	water	04/15/2015	14:44	X	X	-	-	
TB-017360-041515-MR-050	--	water	04/15/2015	--	X	--	-	-	Trip Blank

Notes:

- TCL VOC - Target Compound List Volatile Organic Compounds
- TCL SVOC - Target Compound List Semivolatile Organic Compounds
- TAL - Target Analyte List
- MS/MSD - Matrix Spike/Matrix Spike Duplicate
- ALS- MI - ALS Environmental - Holland, Michigan
- SDG - Sample Delivery Group

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25	AOI 25	AOI 25
Sample Location:	C-1	C-2	C-3
Sample Identification:	SW-017360-040615-MR-006	SW-017360-040615-MR-004	SW-017360-040615-MR-005
Sample Date:	4/6/2015	4/6/2015	4/6/2015
Sample Type:			
Segment Depth:			

	Units			
Volatile Organic Compounds				
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U	50 U
Acetone	ug/L	50 U	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>		<i>AOI 25</i>	<i>AOI 25</i>	<i>AOI 25</i>
<i>Sample Location:</i>		<i>C-1</i>	<i>C-2</i>	<i>C-3</i>
<i>Sample Identification:</i>		<i>SW-017360-040615-MR-006</i>	<i>SW-017360-040615-MR-004</i>	<i>SW-017360-040615-MR-005</i>
<i>Sample Date:</i>		<i>4/6/2015</i>	<i>4/6/2015</i>	<i>4/6/2015</i>
<i>Sample Type:</i>				
<i>Segment Depth:</i>				
	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	0.47 J	1.0 U	0.86 J
Toluene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25	AOI 25	AOI 25
Sample Location:	C-1	C-2	C-3
Sample Identification:	SW-017360-040615-MR-006	SW-017360-040615-MR-004	SW-017360-040615-MR-005
Sample Date:	4/6/2015	4/6/2015	4/6/2015
Sample Type:			
Segment Depth:			

	Units			
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--
2-Chloronaphthalene	ug/L	--	--	--
2-Chlorophenol	ug/L	--	--	--
2-Methylnaphthalene	ug/L	--	--	--
2-Methylphenol	ug/L	--	--	--
2-Nitroaniline	ug/L	--	--	--
2-Nitrophenol	ug/L	--	--	--
3&4-Methylphenol	ug/L	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--
3-Nitroaniline	ug/L	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--
4-Chloroaniline	ug/L	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--
4-Nitroaniline	ug/L	--	--	--
4-Nitrophenol	ug/L	--	--	--
Acenaphthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25</i>	<i>AOI 25</i>
<i>Sample Location:</i>	<i>C-1</i>	<i>C-2</i>	<i>C-3</i>
<i>Sample Identification:</i>	<i>SW-017360-040615-MR-006</i>	<i>SW-017360-040615-MR-004</i>	<i>SW-017360-040615-MR-005</i>
<i>Sample Date:</i>	<i>4/6/2015</i>	<i>4/6/2015</i>	<i>4/6/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>			
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Acenaphthylene	ug/L	--	--
Acetophenone	ug/L	--	--
Anthracene	ug/L	--	--
Atrazine	ug/L	--	--
Benzaldehyde	ug/L	--	--
Benzo(a)anthracene	ug/L	--	--
Benzo(a)pyrene	ug/L	--	--
Benzo(b)fluoranthene	ug/L	--	--
Benzo(g,h,i)perylene	ug/L	--	--
Benzo(k)fluoranthene	ug/L	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--
bis(2-Chloroethyl)ether	ug/L	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--
Caprolactam	ug/L	--	--
Carbazole	ug/L	--	--
Chrysene	ug/L	--	--
Dibenz(a,h)anthracene	ug/L	--	--
Dibenzofuran	ug/L	--	--
Diethyl phthalate	ug/L	--	--
Dimethyl phthalate	ug/L	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--
Fluoranthene	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>		<i>AOI 25</i>	<i>AOI 25</i>	<i>AOI 25</i>
<i>Sample Location:</i>		<i>C-1</i>	<i>C-2</i>	<i>C-3</i>
<i>Sample Identification:</i>		<i>SW-017360-040615-MR-006</i>	<i>SW-017360-040615-MR-004</i>	<i>SW-017360-040615-MR-005</i>
<i>Sample Date:</i>		<i>4/6/2015</i>	<i>4/6/2015</i>	<i>4/6/2015</i>
<i>Sample Type:</i>				
<i>Segment Depth:</i>				
	<i>Units</i>			
<i>Semi-Volatile Organic Compounds</i>				
Fluorene	ug/L	--	--	--
Hexachlorobenzene	ug/L	--	--	--
Hexachlorobutadiene	ug/L	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--
Hexachloroethane	ug/L	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--
Isophorone	ug/L	--	--	--
Naphthalene	ug/L	--	--	--
Nitrobenzene	ug/L	--	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--
Pentachlorophenol	ug/L	--	--	--
Phenanthrene	ug/L	--	--	--
Phenol	ug/L	--	--	--
Pyrene	ug/L	--	--	--
<i>Metals</i>				
Antimony	ug/L	--	--	--
Arsenic	ug/L	--	--	--
Barium	ug/L	--	--	--
Beryllium	ug/L	--	--	--
Cadmium	ug/L	--	--	--
Chromium	ug/L	--	--	--
Cobalt	ug/L	--	--	--

AOI	AOI 25	AOI 25	AOI 25
Sample Location:	C-1	C-2	C-3
Sample Identification:	SW-017360-040615-MR-006	SW-017360-040615-MR-004	SW-017360-040615-MR-005
Sample Date:	4/6/2015	4/6/2015	4/6/2015
Sample Type:			
Segment Depth:			

Units

Copper	ug/L	--	--	--
Iron	ug/L	--	--	--
Lead	ug/L	--	--	--
Manganese	ug/L	--	--	--
Mercury	ug/L	--	--	--
Molybdenum	ug/L	--	--	--
Nickel	ug/L	--	--	--
Selenium	ug/L	--	--	--
Silver	ug/L	--	--	--
Thallium	ug/L	--	--	--
Vanadium	ug/L	--	--	--
Zinc	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25
Sample Location:	MW11D-04	MW11S-05	MW4-03
Sample Identification:	WG-017360-040615-MR-001	WG-017360-040615-MR-002	WG-017360-040615-MR-003
Sample Date:	4/6/2015	4/6/2015	4/6/2015
Sample Type:			
Segment Depth:	(40-45) ft BGS	(5-10) ft BGS	(52-57) ft BGS
	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L 25 U	25 U	25 U
2-Hexanone	ug/L 50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L 50 U	50 U	50 U
Acetone	ug/L 50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 3</i>	<i>AOI 25, AOI 3</i>	<i>AOI 25</i>
<i>Sample Location:</i>	<i>MW11D-04</i>	<i>MW11S-05</i>	<i>MW4-03</i>
<i>Sample Identification:</i>	<i>WG-017360-040615-MR-001</i>	<i>WG-017360-040615-MR-002</i>	<i>WG-017360-040615-MR-003</i>
<i>Sample Date:</i>	<i>4/6/2015</i>	<i>4/6/2015</i>	<i>4/6/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(40-45) ft BGS</i>	<i>(5-10) ft BGS</i>	<i>(52-57) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	1.0 U	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.9	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25
Sample Location:	MW11D-04	MW11S-05	MW4-03
Sample Identification:	WG-017360-040615-MR-001	WG-017360-040615-MR-002	WG-017360-040615-MR-003
Sample Date:	4/6/2015	4/6/2015	4/6/2015
Sample Type:			
Segment Depth:	(40-45) ft BGS	(5-10) ft BGS	(52-57) ft BGS

	Units			
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--
2-Chloronaphthalene	ug/L	--	--	--
2-Chlorophenol	ug/L	--	--	--
2-Methylnaphthalene	ug/L	--	--	--
2-Methylphenol	ug/L	--	--	--
2-Nitroaniline	ug/L	--	--	--
2-Nitrophenol	ug/L	--	--	--
3&4-Methylphenol	ug/L	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--
3-Nitroaniline	ug/L	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--
4-Chloroaniline	ug/L	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--
4-Nitroaniline	ug/L	--	--	--
4-Nitrophenol	ug/L	--	--	--
Acenaphthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 3</i>	<i>AOI 25, AOI 3</i>	<i>AOI 25</i>
<i>Sample Location:</i>	<i>MW11D-04</i>	<i>MW11S-05</i>	<i>MW4-03</i>
<i>Sample Identification:</i>	<i>WG-017360-040615-MR-001</i>	<i>WG-017360-040615-MR-002</i>	<i>WG-017360-040615-MR-003</i>
<i>Sample Date:</i>	<i>4/6/2015</i>	<i>4/6/2015</i>	<i>4/6/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(40-45) ft BGS</i>	<i>(5-10) ft BGS</i>	<i>(52-57) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Acenaphthylene	ug/L	--	--
Acetophenone	ug/L	--	--
Anthracene	ug/L	--	--
Atrazine	ug/L	--	--
Benzaldehyde	ug/L	--	--
Benzo(a)anthracene	ug/L	--	--
Benzo(a)pyrene	ug/L	--	--
Benzo(b)fluoranthene	ug/L	--	--
Benzo(g,h,i)perylene	ug/L	--	--
Benzo(k)fluoranthene	ug/L	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--
bis(2-Chloroethyl)ether	ug/L	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--
Caprolactam	ug/L	--	--
Carbazole	ug/L	--	--
Chrysene	ug/L	--	--
Dibenz(a,h)anthracene	ug/L	--	--
Dibenzofuran	ug/L	--	--
Diethyl phthalate	ug/L	--	--
Dimethyl phthalate	ug/L	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--
Fluoranthene	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 3</i>	<i>AOI 25, AOI 3</i>	<i>AOI 25</i>
<i>Sample Location:</i>	<i>MW11D-04</i>	<i>MW11S-05</i>	<i>MW4-03</i>
<i>Sample Identification:</i>	<i>WG-017360-040615-MR-001</i>	<i>WG-017360-040615-MR-002</i>	<i>WG-017360-040615-MR-003</i>
<i>Sample Date:</i>	<i>4/6/2015</i>	<i>4/6/2015</i>	<i>4/6/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(40-45) ft BGS</i>	<i>(5-10) ft BGS</i>	<i>(52-57) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Fluorene	ug/L	--	--
Hexachlorobenzene	ug/L	--	--
Hexachlorobutadiene	ug/L	--	--
Hexachlorocyclopentadiene	ug/L	--	--
Hexachloroethane	ug/L	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--
Isophorone	ug/L	--	--
Naphthalene	ug/L	--	--
Nitrobenzene	ug/L	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--
N-Nitrosodiphenylamine	ug/L	--	--
Pentachlorophenol	ug/L	--	--
Phenanthrene	ug/L	--	--
Phenol	ug/L	--	--
Pyrene	ug/L	--	--
<i>Metals</i>			
Antimony	ug/L	--	--
Arsenic	ug/L	--	--
Barium	ug/L	--	--
Beryllium	ug/L	--	--
Cadmium	ug/L	--	--
Chromium	ug/L	--	--
Cobalt	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25
Sample Location:	MW11D-04	MW11S-05	MW4-03
Sample Identification:	WG-017360-040615-MR-001	WG-017360-040615-MR-002	WG-017360-040615-MR-003
Sample Date:	4/6/2015	4/6/2015	4/6/2015
Sample Type:			
Segment Depth:	(40-45) ft BGS	(5-10) ft BGS	(52-57) ft BGS
	Units		
Metals			
Copper	ug/L	--	--
Iron	ug/L	--	--
Lead	ug/L	--	--
Manganese	ug/L	--	--
Mercury	ug/L	--	--
Molybdenum	ug/L	--	--
Nickel	ug/L	--	--
Selenium	ug/L	--	--
Silver	ug/L	--	--
Thallium	ug/L	--	--
Vanadium	ug/L	--	--
Zinc	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25, AOI 4.3</i>	<i>AOI 25</i>
<i>Sample Location:</i>	<i>87-10</i>	<i>87-8</i>	<i>MW10-04</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-011</i>	<i>WG-017360-040715-MR-014</i>	<i>WG-017360-040715-MR-007</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(29-32) ft BGS</i>	<i>(19.7-22.7) ft BGS</i>	<i>(33-38) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U
2-Hexanone	ug/L	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U
Acetone	ug/L	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25, AOI 4.3</i>	<i>AOI 25</i>
<i>Sample Location:</i>	<i>87-10</i>	<i>87-8</i>	<i>MW10-04</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-011</i>	<i>WG-017360-040715-MR-014</i>	<i>WG-017360-040715-MR-007</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(29-32) ft BGS</i>	<i>(19.7-22.7) ft BGS</i>	<i>(33-38) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U
Trichloroethene	ug/L	1.2	2.2
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U
Xylenes (total)	ug/L	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25	AOI 25, AOI 4.3	AOI 25
Sample Location:	87-10	87-8	MW10-04
Sample Identification:	WG-017360-040715-MR-011	WG-017360-040715-MR-014	WG-017360-040715-MR-007
Sample Date:	4/7/2015	4/7/2015	4/7/2015
Sample Type:			
Segment Depth:	(29-32) ft BGS	(19.7-22.7) ft BGS	(33-38) ft BGS
	Units		
Semi-Volatile Organic Compounds			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--
2,4,5-Trichlorophenol	ug/L	--	--
2,4,6-Trichlorophenol	ug/L	--	--
2,4-Dichlorophenol	ug/L	--	--
2,4-Dimethylphenol	ug/L	--	--
2,4-Dinitrophenol	ug/L	--	--
2,4-Dinitrotoluene	ug/L	--	--
2,6-Dinitrotoluene	ug/L	--	--
2-Chloronaphthalene	ug/L	--	--
2-Chlorophenol	ug/L	--	--
2-Methylnaphthalene	ug/L	--	--
2-Methylphenol	ug/L	--	--
2-Nitroaniline	ug/L	--	--
2-Nitrophenol	ug/L	--	--
3&4-Methylphenol	ug/L	--	--
3,3'-Dichlorobenzidine	ug/L	--	--
3-Nitroaniline	ug/L	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--
4-Bromophenyl phenyl ether	ug/L	--	--
4-Chloro-3-methylphenol	ug/L	--	--
4-Chloroaniline	ug/L	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--
4-Nitroaniline	ug/L	--	--
4-Nitrophenol	ug/L	--	--
Acenaphthene	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25, AOI 4.3</i>	<i>AOI 25</i>
<i>Sample Location:</i>	<i>87-10</i>	<i>87-8</i>	<i>MW10-04</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-011</i>	<i>WG-017360-040715-MR-014</i>	<i>WG-017360-040715-MR-007</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(29-32) ft BGS</i>	<i>(19.7-22.7) ft BGS</i>	<i>(33-38) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Acenaphthylene	ug/L	--	--
Acetophenone	ug/L	--	--
Anthracene	ug/L	--	--
Atrazine	ug/L	--	--
Benzaldehyde	ug/L	--	--
Benzo(a)anthracene	ug/L	--	--
Benzo(a)pyrene	ug/L	--	--
Benzo(b)fluoranthene	ug/L	--	--
Benzo(g,h,i)perylene	ug/L	--	--
Benzo(k)fluoranthene	ug/L	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--
bis(2-Chloroethyl)ether	ug/L	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--
Caprolactam	ug/L	--	--
Carbazole	ug/L	--	--
Chrysene	ug/L	--	--
Dibenz(a,h)anthracene	ug/L	--	--
Dibenzofuran	ug/L	--	--
Diethyl phthalate	ug/L	--	--
Dimethyl phthalate	ug/L	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--
Fluoranthene	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25, AOI 4.3</i>	<i>AOI 25</i>
<i>Sample Location:</i>	<i>87-10</i>	<i>87-8</i>	<i>MW10-04</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-011</i>	<i>WG-017360-040715-MR-014</i>	<i>WG-017360-040715-MR-007</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(29-32) ft BGS</i>	<i>(19.7-22.7) ft BGS</i>	<i>(33-38) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Fluorene	ug/L	--	--
Hexachlorobenzene	ug/L	--	--
Hexachlorobutadiene	ug/L	--	--
Hexachlorocyclopentadiene	ug/L	--	--
Hexachloroethane	ug/L	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--
Isophorone	ug/L	--	--
Naphthalene	ug/L	--	--
Nitrobenzene	ug/L	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--
N-Nitrosodiphenylamine	ug/L	--	--
Pentachlorophenol	ug/L	--	--
Phenanthrene	ug/L	--	--
Phenol	ug/L	--	--
Pyrene	ug/L	--	--
<i>Metals</i>			
Antimony	ug/L	--	--
Arsenic	ug/L	--	--
Barium	ug/L	--	--
Beryllium	ug/L	--	--
Cadmium	ug/L	--	--
Chromium	ug/L	--	--
Cobalt	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25, AOI 4.3</i>	<i>AOI 25</i>
<i>Sample Location:</i>	<i>87-10</i>	<i>87-8</i>	<i>MW10-04</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-011</i>	<i>WG-017360-040715-MR-014</i>	<i>WG-017360-040715-MR-007</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(29-32) ft BGS</i>	<i>(19.7-22.7) ft BGS</i>	<i>(33-38) ft BGS</i>
	<i>Units</i>		
<i>Metals</i>			
Copper	ug/L	--	--
Iron	ug/L	--	--
Lead	ug/L	--	--
Manganese	ug/L	--	--
Mercury	ug/L	--	--
Molybdenum	ug/L	--	--
Nickel	ug/L	--	--
Selenium	ug/L	--	--
Silver	ug/L	--	--
Thallium	ug/L	--	--
Vanadium	ug/L	--	--
Zinc	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>		<i>AOI 25</i>	<i>UNKNOWN</i>	<i>UNKNOWN</i>
<i>Sample Location:</i>		<i>MW10-04</i>	<i>MW59-14</i>	<i>MW59-14</i>
<i>Sample Identification:</i>		<i>WG-017360-040715-MR-008</i>	<i>WG-017360-040715-MR-012</i>	<i>WG-017360-040715-MR-013</i>
<i>Sample Date:</i>		<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>		<i>Duplicate</i>		<i>Duplicate</i>
<i>Segment Depth:</i>		<i>(33-38) ft BGS</i>	<i>(30-35) ft BGS</i>	<i>(30-35) ft BGS</i>
	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U	50 U
Acetone	ug/L	50 U	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>UNKNOWN</i>	<i>UNKNOWN</i>
<i>Sample Location:</i>	<i>MW10-04</i>	<i>MW59-14</i>	<i>MW59-14</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-008</i>	<i>WG-017360-040715-MR-012</i>	<i>WG-017360-040715-MR-013</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>	<i>Duplicate</i>		<i>Duplicate</i>
<i>Segment Depth:</i>	<i>(33-38) ft BGS</i>	<i>(30-35) ft BGS</i>	<i>(30-35) ft BGS</i>
Units			
<i>Volatile Organic Compounds</i>			
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	15	15
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	1.0 U	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 2.4	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>UNKNOWN</i>	<i>UNKNOWN</i>
<i>Sample Location:</i>	<i>MW10-04</i>	<i>MW59-14</i>	<i>MW59-14</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-008</i>	<i>WG-017360-040715-MR-012</i>	<i>WG-017360-040715-MR-013</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>	<i>Duplicate</i>		<i>Duplicate</i>
<i>Segment Depth:</i>	<i>(33-38) ft BGS</i>	<i>(30-35) ft BGS</i>	<i>(30-35) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--
2,4,5-Trichlorophenol	ug/L	--	--
2,4,6-Trichlorophenol	ug/L	--	--
2,4-Dichlorophenol	ug/L	--	--
2,4-Dimethylphenol	ug/L	--	--
2,4-Dinitrophenol	ug/L	--	--
2,4-Dinitrotoluene	ug/L	--	--
2,6-Dinitrotoluene	ug/L	--	--
2-Chloronaphthalene	ug/L	--	--
2-Chlorophenol	ug/L	--	--
2-Methylnaphthalene	ug/L	--	--
2-Methylphenol	ug/L	--	--
2-Nitroaniline	ug/L	--	--
2-Nitrophenol	ug/L	--	--
3&4-Methylphenol	ug/L	--	--
3,3'-Dichlorobenzidine	ug/L	--	--
3-Nitroaniline	ug/L	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--
4-Bromophenyl phenyl ether	ug/L	--	--
4-Chloro-3-methylphenol	ug/L	--	--
4-Chloroaniline	ug/L	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--
4-Nitroaniline	ug/L	--	--
4-Nitrophenol	ug/L	--	--
Acenaphthene	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>UNKNOWN</i>	<i>UNKNOWN</i>
<i>Sample Location:</i>	<i>MW10-04</i>	<i>MW59-14</i>	<i>MW59-14</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-008</i>	<i>WG-017360-040715-MR-012</i>	<i>WG-017360-040715-MR-013</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>	<i>Duplicate</i>		<i>Duplicate</i>
<i>Segment Depth:</i>	<i>(33-38) ft BGS</i>	<i>(30-35) ft BGS</i>	<i>(30-35) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Acenaphthylene	ug/L	--	--
Acetophenone	ug/L	--	--
Anthracene	ug/L	--	--
Atrazine	ug/L	--	--
Benzaldehyde	ug/L	--	--
Benzo(a)anthracene	ug/L	--	--
Benzo(a)pyrene	ug/L	--	--
Benzo(b)fluoranthene	ug/L	--	--
Benzo(g,h,i)perylene	ug/L	--	--
Benzo(k)fluoranthene	ug/L	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--
bis(2-Chloroethyl)ether	ug/L	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--
Caprolactam	ug/L	--	--
Carbazole	ug/L	--	--
Chrysene	ug/L	--	--
Dibenz(a,h)anthracene	ug/L	--	--
Dibenzofuran	ug/L	--	--
Diethyl phthalate	ug/L	--	--
Dimethyl phthalate	ug/L	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--
Fluoranthene	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>UNKNOWN</i>	<i>UNKNOWN</i>
<i>Sample Location:</i>	<i>MW10-04</i>	<i>MW59-14</i>	<i>MW59-14</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-008</i>	<i>WG-017360-040715-MR-012</i>	<i>WG-017360-040715-MR-013</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>	<i>Duplicate</i>		<i>Duplicate</i>
<i>Segment Depth:</i>	<i>(33-38) ft BGS</i>	<i>(30-35) ft BGS</i>	<i>(30-35) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Fluorene	ug/L --	--	--
Hexachlorobenzene	ug/L --	--	--
Hexachlorobutadiene	ug/L --	--	--
Hexachlorocyclopentadiene	ug/L --	--	--
Hexachloroethane	ug/L --	--	--
Indeno(1,2,3-cd)pyrene	ug/L --	--	--
Isophorone	ug/L --	--	--
Naphthalene	ug/L --	--	--
Nitrobenzene	ug/L --	--	--
N-Nitrosodi-n-propylamine	ug/L --	--	--
N-Nitrosodiphenylamine	ug/L --	--	--
Pentachlorophenol	ug/L --	--	--
Phenanthrene	ug/L --	--	--
Phenol	ug/L --	--	--
Pyrene	ug/L --	--	--
<i>Metals</i>			
Antimony	ug/L --	2 U	2 U
Arsenic	ug/L --	1.6 J	1.4 J
Barium	ug/L --	93	91
Beryllium	ug/L --	1 U	1 U
Cadmium	ug/L --	1 U	1 U
Chromium	ug/L --	5 U	5 U
Cobalt	ug/L --	0.32 J	0.32 J

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>UNKNOWN</i>	<i>UNKNOWN</i>
<i>Sample Location:</i>	<i>MW10-04</i>	<i>MW59-14</i>	<i>MW59-14</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-008</i>	<i>WG-017360-040715-MR-012</i>	<i>WG-017360-040715-MR-013</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/7/2015</i>
<i>Sample Type:</i>	<i>Duplicate</i>		<i>Duplicate</i>
<i>Segment Depth:</i>	<i>(33-38) ft BGS</i>	<i>(30-35) ft BGS</i>	<i>(30-35) ft BGS</i>
	<i>Units</i>		
<i>Metals</i>			
Copper	ug/L --	0.87 J	0.71 J
Iron	ug/L --	420	410
Lead	ug/L --	1.1 J	1.1 J
Manganese	ug/L --	35	35
Mercury	ug/L --	0.2 U	0.2 U
Molybdenum	ug/L --	0.61 J	0.59 J
Nickel	ug/L --	4.5 J	4.5 J
Selenium	ug/L --	5 U	5 U
Silver	ug/L --	0.2 U	0.2 U
Thallium	ug/L --	2 U	2 U
Vanadium	ug/L --	4 U	4 U
Zinc	ug/L --	5.6 J	5.3 J

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25</i>	<i>AOI 25, AOI 4.3</i>
<i>Sample Location:</i>	<i>MW8-04</i>	<i>MW9-04</i>	<i>86-3</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-010</i>	<i>WG-017360-040715-MR-009</i>	<i>WG-017360-040815-MR-018</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/8/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(30-35) ft BGS</i>	<i>(43-48) ft BGS</i>	<i>(41.5-46.5) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L 25 U	25 U	25 U
2-Hexanone	ug/L 50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L 50 U	50 U	50 U
Acetone	ug/L 50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25</i>	<i>AOI 25, AOI 4.3</i>
<i>Sample Location:</i>	<i>MW8-04</i>	<i>MW9-04</i>	<i>86-3</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-010</i>	<i>WG-017360-040715-MR-009</i>	<i>WG-017360-040815-MR-018</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/8/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(30-35) ft BGS</i>	<i>(43-48) ft BGS</i>	<i>(41.5-46.5) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.6
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	1.0 U	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.0 U	1.0 U	3.8
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25	AOI 25	AOI 25, AOI 4.3
Sample Location:	MW8-04	MW9-04	86-3
Sample Identification:	WG-017360-040715-MR-010	WG-017360-040715-MR-009	WG-017360-040815-MR-018
Sample Date:	4/7/2015	4/7/2015	4/8/2015
Sample Type:			
Segment Depth:	(30-35) ft BGS	(43-48) ft BGS	(41.5-46.5) ft BGS
	Units		
Semi-Volatile Organic Compounds			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--
2,4,5-Trichlorophenol	ug/L	--	--
2,4,6-Trichlorophenol	ug/L	--	--
2,4-Dichlorophenol	ug/L	--	--
2,4-Dimethylphenol	ug/L	--	--
2,4-Dinitrophenol	ug/L	--	--
2,4-Dinitrotoluene	ug/L	--	--
2,6-Dinitrotoluene	ug/L	--	--
2-Chloronaphthalene	ug/L	--	--
2-Chlorophenol	ug/L	--	--
2-Methylnaphthalene	ug/L	--	--
2-Methylphenol	ug/L	--	--
2-Nitroaniline	ug/L	--	--
2-Nitrophenol	ug/L	--	--
3&4-Methylphenol	ug/L	--	--
3,3'-Dichlorobenzidine	ug/L	--	--
3-Nitroaniline	ug/L	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--
4-Bromophenyl phenyl ether	ug/L	--	--
4-Chloro-3-methylphenol	ug/L	--	--
4-Chloroaniline	ug/L	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--
4-Nitroaniline	ug/L	--	--
4-Nitrophenol	ug/L	--	--
Acenaphthene	ug/L	--	--

AOI	AOI 25	AOI 25	AOI 25, AOI 4.3
Sample Location:	MW8-04	MW9-04	86-3
Sample Identification:	WG-017360-040715-MR-010	WG-017360-040715-MR-009	WG-017360-040815-MR-018
Sample Date:	4/7/2015	4/7/2015	4/8/2015
Sample Type:			
Segment Depth:	(30-35) ft BGS	(43-48) ft BGS	(41.5-46.5) ft BGS

Units

Acenaphthylene	ug/L	--	--	--
Acetophenone	ug/L	--	--	--
Anthracene	ug/L	--	--	--
Atrazine	ug/L	--	--	--
Benzaldehyde	ug/L	--	--	--
Benzo(a)anthracene	ug/L	--	--	--
Benzo(a)pyrene	ug/L	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--
Caprolactam	ug/L	--	--	--
Carbazole	ug/L	--	--	--
Chrysene	ug/L	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--
Dibenzofuran	ug/L	--	--	--
Diethyl phthalate	ug/L	--	--	--
Dimethyl phthalate	ug/L	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--
Fluoranthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25</i>	<i>AOI 25, AOI 4.3</i>
<i>Sample Location:</i>	<i>MW8-04</i>	<i>MW9-04</i>	<i>86-3</i>
<i>Sample Identification:</i>	<i>WG-017360-040715-MR-010</i>	<i>WG-017360-040715-MR-009</i>	<i>WG-017360-040815-MR-018</i>
<i>Sample Date:</i>	<i>4/7/2015</i>	<i>4/7/2015</i>	<i>4/8/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(30-35) ft BGS</i>	<i>(43-48) ft BGS</i>	<i>(41.5-46.5) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Fluorene	ug/L	--	--
Hexachlorobenzene	ug/L	--	--
Hexachlorobutadiene	ug/L	--	--
Hexachlorocyclopentadiene	ug/L	--	--
Hexachloroethane	ug/L	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--
Isophorone	ug/L	--	--
Naphthalene	ug/L	--	--
Nitrobenzene	ug/L	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--
N-Nitrosodiphenylamine	ug/L	--	--
Pentachlorophenol	ug/L	--	--
Phenanthrene	ug/L	--	--
Phenol	ug/L	--	--
Pyrene	ug/L	--	--
<i>Metals</i>			
Antimony	ug/L	--	--
Arsenic	ug/L	--	--
Barium	ug/L	--	--
Beryllium	ug/L	--	--
Cadmium	ug/L	--	--
Chromium	ug/L	--	--
Cobalt	ug/L	--	--

AOI
Sample Location:
Sample Identification:
Sample Date:
Sample Type:
Segment Depth:

AOI 25, AOI 4.3
86-3
WG-017360-040815-MR-018
4/8/2015

(41.5-46.5) ft BGS

Metals

Copper	ug/L	--	--	--
Iron	ug/L	--	--	--
Lead	ug/L	--	--	--
Manganese	ug/L	--	--	--
Mercury	ug/L	--	--	--
Molybdenum	ug/L	--	--	--
Nickel	ug/L	--	--	--
Selenium	ug/L	--	--	--
Silver	ug/L	--	--	--
Thallium	ug/L	--	--	--
Vanadium	ug/L	--	--	--
Zinc	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25, AOI 3</i>	<i>AOI 3</i>
<i>Sample Location:</i>	<i>87-13</i>	<i>MW17-06</i>	<i>MW48-13</i>
<i>Sample Identification:</i>	<i>WG-017360-040815-MR-016</i>	<i>WG-017360-040815-MR-020</i>	<i>WG-017360-040815-MR-019</i>
<i>Sample Date:</i>	<i>4/8/2015</i>	<i>4/8/2015</i>	<i>4/8/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(40-43) ft BGS</i>	<i>(51-56) ft BGS</i>	<i>(46-51) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U
2-Hexanone	ug/L	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U
Acetone	ug/L	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25, AOI 3</i>	<i>AOI 3</i>
<i>Sample Location:</i>	<i>87-13</i>	<i>MW17-06</i>	<i>MW48-13</i>
<i>Sample Identification:</i>	<i>WG-017360-040815-MR-016</i>	<i>WG-017360-040815-MR-020</i>	<i>WG-017360-040815-MR-019</i>
<i>Sample Date:</i>	<i>4/8/2015</i>	<i>4/8/2015</i>	<i>4/8/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(40-43) ft BGS</i>	<i>(51-56) ft BGS</i>	<i>(46-51) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	49	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	1.5 J
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	100	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.7	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.0 U	10	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25, AOI 3</i>	<i>AOI 3</i>
<i>Sample Location:</i>	<i>87-13</i>	<i>MW17-06</i>	<i>MW48-13</i>
<i>Sample Identification:</i>	<i>WG-017360-040815-MR-016</i>	<i>WG-017360-040815-MR-020</i>	<i>WG-017360-040815-MR-019</i>
<i>Sample Date:</i>	<i>4/8/2015</i>	<i>4/8/2015</i>	<i>4/8/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(40-43) ft BGS</i>	<i>(51-56) ft BGS</i>	<i>(46-51) ft BGS</i>

	<i>Units</i>			
<i>Semi-Volatile Organic Compounds</i>				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--
2-Chloronaphthalene	ug/L	--	--	--
2-Chlorophenol	ug/L	--	--	--
2-Methylnaphthalene	ug/L	--	--	--
2-Methylphenol	ug/L	--	--	--
2-Nitroaniline	ug/L	--	--	--
2-Nitrophenol	ug/L	--	--	--
3&4-Methylphenol	ug/L	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--
3-Nitroaniline	ug/L	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--
4-Chloroaniline	ug/L	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--
4-Nitroaniline	ug/L	--	--	--
4-Nitrophenol	ug/L	--	--	--
Acenaphthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25, AOI 3</i>	<i>AOI 3</i>
<i>Sample Location:</i>	<i>87-13</i>	<i>MW17-06</i>	<i>MW48-13</i>
<i>Sample Identification:</i>	<i>WG-017360-040815-MR-016</i>	<i>WG-017360-040815-MR-020</i>	<i>WG-017360-040815-MR-019</i>
<i>Sample Date:</i>	<i>4/8/2015</i>	<i>4/8/2015</i>	<i>4/8/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(40-43) ft BGS</i>	<i>(51-56) ft BGS</i>	<i>(46-51) ft BGS</i>

	<i>Units</i>			
<i>Semi-Volatile Organic Compounds</i>				
Acenaphthylene	ug/L	--	--	--
Acetophenone	ug/L	--	--	--
Anthracene	ug/L	--	--	--
Atrazine	ug/L	--	--	--
Benzaldehyde	ug/L	--	--	--
Benzo(a)anthracene	ug/L	--	--	--
Benzo(a)pyrene	ug/L	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--
Caprolactam	ug/L	--	--	--
Carbazole	ug/L	--	--	--
Chrysene	ug/L	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--
Dibenzofuran	ug/L	--	--	--
Diethyl phthalate	ug/L	--	--	--
Dimethyl phthalate	ug/L	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--
Fluoranthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25	AOI 25, AOI 3	AOI 3
Sample Location:	87-13	MW17-06	MW48-13
Sample Identification:	WG-017360-040815-MR-016	WG-017360-040815-MR-020	WG-017360-040815-MR-019
Sample Date:	4/8/2015	4/8/2015	4/8/2015
Sample Type:			
Segment Depth:	(40-43) ft BGS	(51-56) ft BGS	(46-51) ft BGS

Units**Semi-Volatile Organic Compounds**

Fluorene	ug/L	--	--	--
Hexachlorobenzene	ug/L	--	--	--
Hexachlorobutadiene	ug/L	--	--	--
Hexachlorocyclopentadiene	ug/L	---	--	--
Hexachloroethane	ug/L	---	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	---	--
Isophorone	ug/L	--	--	--
Naphthalene	ug/L	---	--	--
Nitrobenzene	ug/L	--	---	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--
N-Nitrosodiphenylamine	ug/L	---	--	--
Pentachlorophenol	ug/L	--	--	--
Phenanthrene	ug/L	--	--	--
Phenol	ug/L	--	--	--
Pyrene	ug/L	--	--	--

Metals

Antimony	ug/L	--	--	--
Arsenic	ug/L	--	--	--
Barium	ug/L	--	--	--
Beryllium	ug/L	--	--	--
Cadmium	ug/L	--	--	--
Chromium	ug/L	--	--	--
Cobalt	ug/L	--	--	--

AOI
Sample Location:
Sample Identification:
Sample Date:
Sample Type:
Segment Depth:

AOI 25, AOI 3
MW17-06
WG-017360-040815-MR-020
4/8/2015
(51-56) ft BGS

AOI 3
MW48-13
WG-017360-040815-MR-019
4/8/2015
(46-51) ft BGS

Metals

Copper	ug/L	--	--	--
Iron	ug/L	--	--	--
Lead	ug/L	--	--	--
Manganese	ug/L	--	--	--
Mercury	ug/L	--	--	--
Molybdenum	ug/L	--	--	--
Nickel	ug/L	--	--	--
Selenium	ug/L	--	--	--
Silver	ug/L	--	--	--
Thallium	ug/L	--	--	--
Vanadium	ug/L	--	--	--
Zinc	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25</i>	<i>AOI 25, AOI 4.3</i>	<i>AOI 6, AOI 25, AOI 1, AOI 4.1</i>
<i>Sample Location:</i>	<i>MW6-03</i>	<i>MW7-03</i>	<i>85-6</i>
<i>Sample Identification:</i>	<i>WG-017360-040815-MR-015</i>	<i>WG-017360-040815-MR-017</i>	<i>WG-017360-040915-MR-023</i>
<i>Sample Date:</i>	<i>4/8/2015</i>	<i>4/8/2015</i>	<i>4/9/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(13-18) ft BGS</i>	<i>(36-41) ft BGS</i>	<i>(19.5-24.5) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U
2-Hexanone	ug/L	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U
Acetone	ug/L	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25	AOI 25, AOI 4.3	AOI 6, AOI 25, AOI 1, AOI 4.1
Sample Location:	MW6-03	MW7-03	85-6
Sample Identification:	WG-017360-040815-MR-015	WG-017360-040815-MR-017	WG-017360-040915-MR-023
Sample Date:	4/8/2015	4/8/2015	4/9/2015
Sample Type:			
Segment Depth:	(13-18) ft BGS	(36-41) ft BGS	(19.5-24.5) ft BGS
	Units		
Volatile Organic Compounds			
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	8.9
Toluene	ug/L	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	2.2
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U
Xylenes (total)	ug/L	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25	AOI 25, AOI 4.3	AOI 6, AOI 25, AOI 1, AOI 4.1
Sample Location:	MW6-03	MW7-03	85-6
Sample Identification:	WG-017360-040815-MR-015	WG-017360-040815-MR-017	WG-017360-040915-MR-023
Sample Date:	4/8/2015	4/8/2015	4/9/2015
Sample Type:			
Segment Depth:	(13-18) ft BGS	(36-41) ft BGS	(19.5-24.5) ft BGS
	Units		
Semi-Volatile Organic Compounds			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	5.0 U
2,4,5-Trichlorophenol	ug/L	--	5.0 U
2,4,6-Trichlorophenol	ug/L	--	5.0 U
2,4-Dichlorophenol	ug/L	--	5.0 U
2,4-Dimethylphenol	ug/L	--	5.0 U
2,4-Dinitrophenol	ug/L	--	5.0 U
2,4-Dinitrotoluene	ug/L	--	5.0 U
2,6-Dinitrotoluene	ug/L	--	5.0 U
2-Chloronaphthalene	ug/L	--	5.0 U
2-Chlorophenol	ug/L	--	5.0 U
2-Methylnaphthalene	ug/L	--	5.0 U
2-Methylphenol	ug/L	--	5.0 U
2-Nitroaniline	ug/L	--	5.0 U
2-Nitrophenol	ug/L	--	5.0 U
3&4-Methylphenol	ug/L	--	5.0 U
3,3'-Dichlorobenzidine	ug/L	--	5.0 U
3-Nitroaniline	ug/L	--	5.0 U
4,6-Dinitro-2-methylphenol	ug/L	--	5.0 U
4-Bromophenyl phenyl ether	ug/L	--	5.0 U
4-Chloro-3-methylphenol	ug/L	--	5.0 U
4-Chloroaniline	ug/L	--	5.0 U
4-Chlorophenyl phenyl ether	ug/L	--	5.0 U
4-Nitroaniline	ug/L	--	5.0 U
4-Nitrophenol	ug/L	--	5.0 U
Acenaphthene	ug/L	--	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25	AOI 25, AOI 4.3	AOI 6, AOI 25, AOI 1, AOI 4.1
Sample Location:	MW6-03	MW7-03	85-6
Sample Identification:	WG-017360-040815-MR-015	WG-017360-040815-MR-017	WG-017360-040915-MR-023
Sample Date:	4/8/2015	4/8/2015	4/9/2015
Sample Type:			
Segment Depth:	(13-18) ft BGS	(36-41) ft BGS	(19.5-24.5) ft BGS

	Units			
Semi-Volatile Organic Compounds				
Acenaphthylene	ug/L	--	--	5.0 U
Acetophenone	ug/L	--	--	1.0 U
Anthracene	ug/L	--	--	5.0 U
Atrazine	ug/L	--	--	1.0 U
Benzaldehyde	ug/L	--	--	1.0 U
Benzo(a)anthracene	ug/L	--	--	5.0 U
Benzo(a)pyrene	ug/L	--	--	5.0 U
Benzo(b)fluoranthene	ug/L	--	--	5.0 U
Benzo(g,h,i)perylene	ug/L	--	--	5.0 U
Benzo(k)fluoranthene	ug/L	--	--	5.0 U
Biphenyl (1,1-Biphenyl)	ug/L	--	--	5.0 U
bis(2-Chloroethoxy)methane	ug/L	--	--	5.0 U
bis(2-Chloroethyl)ether	ug/L	--	--	5.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	5.0 U
Butyl benzylphthalate (BBP)	ug/L	--	--	5.0 U
Caprolactam	ug/L	--	--	10 U
Carbazole	ug/L	--	--	5.0 U
Chrysene	ug/L	--	--	5.0 U
Dibenz(a,h)anthracene	ug/L	--	--	5.0 U
Dibenzofuran	ug/L	--	--	5.0 U
Diethyl phthalate	ug/L	--	--	5.0 U
Dimethyl phthalate	ug/L	--	--	5.0 U
Di-n-butylphthalate (DBP)	ug/L	--	--	5.0 U
Di-n-octyl phthalate (DnOP)	ug/L	--	--	5.0 U
Fluoranthene	ug/L	--	--	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25	AOI 25, AOI 4.3	AOI 6, AOI 25, AOI 1, AOI 4.1
Sample Location:	MW6-03	MW7-03	85-6
Sample Identification:	WG-017360-040815-MR-015	WG-017360-040815-MR-017	WG-017360-040915-MR-023
Sample Date:	4/8/2015	4/8/2015	4/9/2015
Sample Type:			
Segment Depth:	(13-18) ft BGS	(36-41) ft BGS	(19.5-24.5) ft BGS

Units**Semi-Volatile Organic Compounds**

Fluorene	ug/L	--	--	5.0 U
Hexachlorobenzene	ug/L	--	--	5.0 U
Hexachlorobutadiene	ug/L	--	--	5.0 U
Hexachlorocyclopentadiene	ug/L	--	--	5.0 U
Hexachloroethane	ug/L	--	--	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L	--	--	5.0 U
Isophorone	ug/L	--	--	5.0 U
Naphthalene	ug/L	--	--	0.14 U
Nitrobenzene	ug/L	--	--	5.0 U
N-Nitrosodi-n-propylamine	ug/L	--	--	5.0 U
N-Nitrosodiphenylamine	ug/L	--	--	5.0 U
Pentachlorophenol	ug/L	--	--	5.0 U
Phenanthrene	ug/L	--	--	5.0 U
Phenol	ug/L	--	--	5.0 U
Pyrene	ug/L	--	--	5.0 U

Metals

Antimony	ug/L	--	--	--
Arsenic	ug/L	--	--	--
Barium	ug/L	--	--	--
Beryllium	ug/L	--	--	--
Cadmium	ug/L	--	--	--
Chromium	ug/L	--	--	--
Cobalt	ug/L	--	--	--

AOI	AOI 25	AOI 25, AOI 4.3	AOI 6, AOI 25, AOI 1, AOI 4.1
Sample Location:	MW6-03	MW7-03	85-6
Sample Identification:	WG-017360-040815-MR-015	WG-017360-040815-MR-017	WG-017360-040915-MR-023
Sample Date:	4/8/2015	4/8/2015	4/9/2015
Sample Type:			
Segment Depth:	(13-18) ft BGS	(36-41) ft BGS	(19.5-24.5) ft BGS

Metals

Copper	ug/L	--	--	--
Iron	ug/L	--	--	--
Lead	ug/L	--	--	--
Manganese	ug/L	--	--	--
Mercury	ug/L	--	--	--
Molybdenum	ug/L	--	--	--
Nickel	ug/L	--	--	--
Selenium	ug/L	--	--	--
Silver	ug/L	--	--	--
Thallium	ug/L	--	--	--
Vanadium	ug/L	--	--	--
Zinc	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 1, AOI 4.1	AOI 8.2	AOI 25, AOI 1, AOI 4.1
Sample Location:	MW2-03	MW28-12	MW30-12
Sample Identification:	WG-017360-040915-MR-022	WG-017360-040915-MR-024	WG-017360-040915-MR-025
Sample Date:	4/9/2015	4/9/2015	4/9/2015
Sample Type:			
Segment Depth:	(22-27) ft BGS	(14-19) ft BGS	(25-30) ft BGS
	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L 25 U	25 U	25 U
2-Hexanone	ug/L 50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L 50 U	50 U	50 U
Acetone	ug/L 50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 1, AOI 4.1		AOI 8.2	AOI 25, AOI 1, AOI 4.1
Sample Location:	MW2-03		MW28-12	MW30-12
Sample Identification:	WG-017360-040915-MR-022		WG-017360-040915-MR-024	WG-017360-040915-MR-025
Sample Date:	4/9/2015		4/9/2015	4/9/2015
Sample Type:				
Segment Depth:	(22-27) ft BGS		(14-19) ft BGS	(25-30) ft BGS
	Units			
Volatile Organic Compounds				
Chloroform (Trichloromethane)	ug/L	1.0 U	5.9	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	6.7	1.0 U	2.7
Toluene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.9	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 1, AOI 4.1	AOI 8.2	AOI 25, AOI 1, AOI 4.1
Sample Location:	MW2-03	MW28-12	MW30-12
Sample Identification:	WG-017360-040915-MR-022	WG-017360-040915-MR-024	WG-017360-040915-MR-025
Sample Date:	4/9/2015	4/9/2015	4/9/2015
Sample Type:			
Segment Depth:	(22-27) ft BGS	(14-19) ft BGS	(25-30) ft BGS

	Units			
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--
2-Chloronaphthalene	ug/L	--	--	--
2-Chlorophenol	ug/L	--	--	--
2-Methylnaphthalene	ug/L	--	--	--
2-Methylphenol	ug/L	--	--	--
2-Nitroaniline	ug/L	--	--	--
2-Nitrophenol	ug/L	--	--	--
3&4-Methylphenol	ug/L	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--
3-Nitroaniline	ug/L	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--
4-Chloroaniline	ug/L	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--
4-Nitroaniline	ug/L	--	--	--
4-Nitrophenol	ug/L	--	--	--
Acenaphthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 1, AOI 4.1	AOI 8.2	AOI 25, AOI 1, AOI 4.1
Sample Location:	MW2-03	MW28-12	MW30-12
Sample Identification:	WG-017360-040915-MR-022	WG-017360-040915-MR-024	WG-017360-040915-MR-025
Sample Date:	4/9/2015	4/9/2015	4/9/2015
Sample Type:			
Segment Depth:	(22-27) ft BGS	(14-19) ft BGS	(25-30) ft BGS

	Units			
Semi-Volatile Organic Compounds				
Acenaphthylene	ug/L	--	--	--
Acetophenone	ug/L	--	--	--
Anthracene	ug/L	--	--	--
Atrazine	ug/L	--	--	--
Benzaldehyde	ug/L	--	--	--
Benzo(a)anthracene	ug/L	--	--	--
Benzo(a)pyrene	ug/L	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--
Caprolactam	ug/L	--	--	--
Carbazole	ug/L	--	--	--
Chrysene	ug/L	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--
Dibenzofuran	ug/L	--	--	--
Diethyl phthalate	ug/L	--	--	--
Dimethyl phthalate	ug/L	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--
Fluoranthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 1, AOI 4.1</i>	<i>AOI 8.2</i>	<i>AOI 25, AOI 1, AOI 4.1</i>
<i>Sample Location:</i>	<i>MW2-03</i>	<i>MW28-12</i>	<i>MW30-12</i>
<i>Sample Identification:</i>	<i>WG-017360-040915-MR-022</i>	<i>WG-017360-040915-MR-024</i>	<i>WG-017360-040915-MR-025</i>
<i>Sample Date:</i>	<i>4/9/2015</i>	<i>4/9/2015</i>	<i>4/9/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(22-27) ft BGS</i>	<i>(14-19) ft BGS</i>	<i>(25-30) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Fluorene	ug/L	--	--
Hexachlorobenzene	ug/L	--	--
Hexachlorobutadiene	ug/L	--	--
Hexachlorocyclopentadiene	ug/L	--	--
Hexachloroethane	ug/L	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--
Isophorone	ug/L	--	--
Naphthalene	ug/L	--	--
Nitrobenzene	ug/L	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--
N-Nitrosodiphenylamine	ug/L	--	--
Pentachlorophenol	ug/L	--	--
Phenanthrene	ug/L	--	--
Phenol	ug/L	--	--
Pyrene	ug/L	--	--
<i>Metals</i>			
Antimony	ug/L	--	--
Arsenic	ug/L	--	--
Barium	ug/L	--	--
Beryllium	ug/L	--	--
Cadmium	ug/L	--	--
Chromium	ug/L	--	--
Cobalt	ug/L	--	--

AOI	AOI 25, AOI 1, AOI 4.1	AOI 8.2	AOI 25, AOI 1, AOI 4.1
Sample Location:	MW2-03	MW28-12	MW30-12
Sample Identification:	WG-017360-040915-MR-022	WG-017360-040915-MR-024	WG-017360-040915-MR-025
Sample Date:	4/9/2015	4/9/2015	4/9/2015
Sample Type:			
Segment Depth:	(22-27) ft BGS	(14-19) ft BGS	(25-30) ft BGS

Units

Copper	ug/L	--	--	--
Iron	ug/L	--	--	--
Lead	ug/L	--	--	--
Manganese	ug/L	--	--	--
Mercury	ug/L	--	--	--
Molybdenum	ug/L	--	--	--
Nickel	ug/L	--	--	--
Selenium	ug/L	--	--	--
Silver	ug/L	--	--	--
Thallium	ug/L	--	--	--
Vanadium	ug/L	--	--	--
Zinc	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 1</i>	<i>NA</i>	<i>AOI 27</i>
<i>Sample Location:</i>	<i>MW49-13</i>	<i>Trip Blank</i>	<i>MW27-11</i>
<i>Sample Identification:</i>	<i>WG-017360-040915-MR-021</i>	<i>TB-017360-040915-MR-026</i>	<i>WG-017360-041315-MR-028</i>
<i>Sample Date:</i>	<i>4/9/2015</i>	<i>4/9/2015</i>	<i>4/13/2015</i>
<i>Sample Type:</i>		<i>(other)</i>	
<i>Segment Depth:</i>	<i>(34-39) ft BGS</i>		<i>(12.5-17.5) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U
2-Hexanone	ug/L	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U
Acetone	ug/L	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 1	NA	AOI 27
Sample Location:	MW49-13	Trip Blank	MW27-11
Sample Identification:	WG-017360-040915-MR-021	TB-017360-040915-MR-026	WG-017360-041315-MR-028
Sample Date:	4/9/2015	4/9/2015	4/13/2015
Sample Type:		(other)	
Segment Depth:	(34-39) ft BGS		(12.5-17.5) ft BGS
	Units		
Volatile Organic Compounds			
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.9	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	4.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 240	1.0 U	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 2.2	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 1</i>	<i>NA</i>	<i>AOI 27</i>
<i>Sample Location:</i>	<i>MW49-13</i>	<i>Trip Blank</i>	<i>MW27-11</i>
<i>Sample Identification:</i>	<i>WG-017360-040915-MR-021</i>	<i>TB-017360-040915-MR-026</i>	<i>WG-017360-041315-MR-028</i>
<i>Sample Date:</i>	<i>4/9/2015</i>	<i>4/9/2015</i>	<i>4/13/2015</i>
<i>Sample Type:</i>		<i>(other)</i>	
<i>Segment Depth:</i>	<i>(34-39) ft BGS</i>		<i>(12.5-17.5) ft BGS</i>

	<i>Units</i>			
<i>Semi-Volatile Organic Compounds</i>				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--
2-Chloronaphthalene	ug/L	--	--	--
2-Chlorophenol	ug/L	--	--	--
2-Methylnaphthalene	ug/L	--	--	--
2-Methylphenol	ug/L	--	--	--
2-Nitroaniline	ug/L	--	--	--
2-Nitrophenol	ug/L	--	--	--
3&4-Methylphenol	ug/L	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--
3-Nitroaniline	ug/L	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--
4-Chloroaniline	ug/L	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--
4-Nitroaniline	ug/L	--	--	--
4-Nitrophenol	ug/L	--	--	--
Acenaphthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 1	NA	AOI 27
Sample Location:	MW49-13	Trip Blank	MW27-11
Sample Identification:	WG-017360-040915-MR-021	TB-017360-040915-MR-026	WG-017360-041315-MR-028
Sample Date:	4/9/2015	4/9/2015	4/13/2015
Sample Type:		(other)	
Segment Depth:	(34-39) ft BGS		(12.5-17.5) ft BGS

	Units			
Semi-Volatile Organic Compounds				
Acenaphthylene	ug/L	--	--	--
Acetophenone	ug/L	--	--	--
Anthracene	ug/L	--	--	--
Atrazine	ug/L	--	--	--
Benzaldehyde	ug/L	--	--	--
Benzo(a)anthracene	ug/L	--	--	--
Benzo(a)pyrene	ug/L	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--
Caprolactam	ug/L	--	--	--
Carbazole	ug/L	--	--	--
Chrysene	ug/L	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--
Dibenzofuran	ug/L	--	--	--
Diethyl phthalate	ug/L	--	--	--
Dimethyl phthalate	ug/L	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--
Fluoranthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 1</i>	<i>NA</i>	<i>AOI 27</i>
<i>Sample Location:</i>	<i>MW49-13</i>	<i>Trip Blank</i>	<i>MW27-11</i>
<i>Sample Identification:</i>	<i>WG-017360-040915-MR-021</i>	<i>TB-017360-040915-MR-026</i>	<i>WG-017360-041315-MR-028</i>
<i>Sample Date:</i>	<i>4/9/2015</i>	<i>4/9/2015</i>	<i>4/13/2015</i>
<i>Sample Type:</i>		<i>(other)</i>	
<i>Segment Depth:</i>	<i>(34-39) ft BGS</i>		<i>(12.5-17.5) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Fluorene	ug/L	--	--
Hexachlorobenzene	ug/L	--	--
Hexachlorobutadiene	ug/L	--	--
Hexachlorocyclopentadiene	ug/L	--	--
Hexachloroethane	ug/L	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--
Isophorone	ug/L	--	--
Naphthalene	ug/L	--	--
Nitrobenzene	ug/L	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--
N-Nitrosodiphenylamine	ug/L	--	--
Pentachlorophenol	ug/L	--	--
Phenanthrene	ug/L	--	--
Phenol	ug/L	--	--
Pyrene	ug/L	--	--
<i>Metals</i>			
Antimony	ug/L	--	2.3 J
Arsenic	ug/L	--	5 U
Barium	ug/L	--	35
Beryllium	ug/L	--	1 U
Cadmium	ug/L	--	0.12 J
Chromium	ug/L	--	3.3 J
Cobalt	ug/L	--	0.25 J

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 1</i>	<i>NA</i>	<i>AOI 27</i>
<i>Sample Location:</i>	<i>MW49-13</i>	<i>Trip Blank</i>	<i>MW27-11</i>
<i>Sample Identification:</i>	<i>WG-017360-040915-MR-021</i>	<i>TB-017360-040915-MR-026</i>	<i>WG-017360-041315-MR-028</i>
<i>Sample Date:</i>	<i>4/9/2015</i>	<i>4/9/2015</i>	<i>4/13/2015</i>
<i>Sample Type:</i>		<i>(other)</i>	
<i>Segment Depth:</i>	<i>(34-39) ft BGS</i>		<i>(12.5-17.5) ft BGS</i>
	<i>Units</i>		
<i>Metals</i>			
Copper	ug/L	--	7.2
Iron	ug/L	--	13 J
Lead	ug/L	--	0.4 J
Manganese	ug/L	--	5 U
Mercury	ug/L	--	0.2 U
Molybdenum	ug/L	--	12
Nickel	ug/L	--	8.8 U
Selenium	ug/L	--	1.6 J
Silver	ug/L	--	0.2 U
Thallium	ug/L	--	2 U
Vanadium	ug/L	--	2.3 J
Zinc	ug/L	--	34

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 7.1, AOI 26.2</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>
<i>Sample Location:</i>	<i>MW32-12</i>	<i>MW33-12</i>	<i>MW34-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041315-MR-033</i>	<i>WG-017360-041315-MR-034</i>	<i>WG-017360-041315-MR-030</i>
<i>Sample Date:</i>	<i>4/13/2015</i>	<i>4/13/2015</i>	<i>4/13/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(13.9-23.9) ft BGS</i>	<i>(31-36) ft BGS</i>	<i>(14.4-24.4) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L 25 U	25 U	25 U
2-Hexanone	ug/L 50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L 50 U	50 U	50 U
Acetone	ug/L 50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 7.1, AOI 26.2</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>
<i>Sample Location:</i>	<i>MW32-12</i>	<i>MW33-12</i>	<i>MW34-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041315-MR-033</i>	<i>WG-017360-041315-MR-034</i>	<i>WG-017360-041315-MR-030</i>
<i>Sample Date:</i>	<i>4/13/2015</i>	<i>4/13/2015</i>	<i>4/13/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(13.9-23.9) ft BGS</i>	<i>(31-36) ft BGS</i>	<i>(14.4-24.4) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	1.7	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 3.8	2.4	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.0 U	2.2	4.4
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 7.1, AOI 26.2	AOI 25, AOI 4.1	AOI 25, AOI 4.1
Sample Location:	MW32-12	MW33-12	MW34-12
Sample Identification:	WG-017360-041315-MR-033	WG-017360-041315-MR-034	WG-017360-041315-MR-030
Sample Date:	4/13/2015	4/13/2015	4/13/2015
Sample Type:			
Segment Depth:	(13.9-23.9) ft BGS	(31-36) ft BGS	(14.4-24.4) ft BGS

	Units			
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--
2-Chloronaphthalene	ug/L	--	--	--
2-Chlorophenol	ug/L	--	--	--
2-Methylnaphthalene	ug/L	--	--	--
2-Methylphenol	ug/L	--	--	--
2-Nitroaniline	ug/L	--	--	--
2-Nitrophenol	ug/L	--	--	--
3&4-Methylphenol	ug/L	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--
3-Nitroaniline	ug/L	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--
4-Chloroaniline	ug/L	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--
4-Nitroaniline	ug/L	--	--	--
4-Nitrophenol	ug/L	--	--	--
Acenaphthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 7.1, AOI 26.2	AOI 25, AOI 4.1	AOI 25, AOI 4.1
Sample Location:	MW32-12	MW33-12	MW34-12
Sample Identification:	WG-017360-041315-MR-033	WG-017360-041315-MR-034	WG-017360-041315-MR-030
Sample Date:	4/13/2015	4/13/2015	4/13/2015
Sample Type:			
Segment Depth:	(13.9-23.9) ft BGS	(31-36) ft BGS	(14.4-24.4) ft BGS

	Units			
Semi-Volatile Organic Compounds				
Acenaphthylene	ug/L	--	--	--
Acetophenone	ug/L	--	--	--
Anthracene	ug/L	--	--	--
Atrazine	ug/L	--	--	--
Benzaldehyde	ug/L	--	--	--
Benzo(a)anthracene	ug/L	--	--	--
Benzo(a)pyrene	ug/L	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--
Caprolactam	ug/L	--	--	--
Carbazole	ug/L	--	--	--
Chrysene	ug/L	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--
Dibenzofuran	ug/L	--	--	--
Diethyl phthalate	ug/L	--	--	--
Dimethyl phthalate	ug/L	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--
Fluoranthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 7.1, AOI 26.2	AOI 25, AOI 4.1	AOI 25, AOI 4.1
Sample Location:	MW32-12	MW33-12	MW34-12
Sample Identification:	WG-017360-041315-MR-033	WG-017360-041315-MR-034	WG-017360-041315-MR-030
Sample Date:	4/13/2015	4/13/2015	4/13/2015
Sample Type:			
Segment Depth:	(13.9-23.9) ft BGS	(31-36) ft BGS	(14.4-24.4) ft BGS

	Units			
Semi-Volatile Organic Compounds				
Fluorene	ug/L	--	--	--
Hexachlorobenzene	ug/L	--	--	--
Hexachlorobutadiene	ug/L	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--
Hexachloroethane	ug/L	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--
Isophorone	ug/L	--	--	--
Naphthalene	ug/L	--	--	--
Nitrobenzene	ug/L	--	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--
Pentachlorophenol	ug/L	--	--	--
Phenanthrene	ug/L	--	--	--
Phenol	ug/L	--	--	--
Pyrene	ug/L	--	--	--
Metals				
Antimony	ug/L	--	--	--
Arsenic	ug/L	--	--	--
Barium	ug/L	--	--	--
Beryllium	ug/L	--	--	--
Cadmium	ug/L	--	--	--
Chromium	ug/L	--	--	--
Cobalt	ug/L	--	--	--

AOI
Sample Location:
Sample Identification:
Sample Date:
Sample Type:
Segment Depth:

AOI 25, AOI 4.1
MW33-12
WG-017360-041315-MR-034
4/13/2015

AOI 25, AOI 4.1
MW34-12
WG-017360-041315-MR-030
4/13/2015

(31-36) ft BGS

(14.4-24.4) ft BGS

Units[illegible]

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 11</i>
<i>Sample Location:</i>	<i>MW34-12</i>	<i>MW40-12</i>	<i>MW41-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041315-MR-031</i>	<i>WG-017360-041315-MR-032</i>	<i>WG-017360-041315-MR-029</i>
<i>Sample Date:</i>	<i>4/13/2015</i>	<i>4/13/2015</i>	<i>4/13/2015</i>
<i>Sample Type:</i>	<i>Duplicate</i>		
<i>Segment Depth:</i>	<i>(14.4-24.4) ft BGS</i>	<i>(45-50) ft BGS</i>	<i>(18.3-28.3) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L 25 U	25 U	25 U
2-Hexanone	ug/L 50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L 50 U	50 U	50 U
Acetone	ug/L 50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 11</i>
<i>Sample Location:</i>	<i>MW34-12</i>	<i>MW40-12</i>	<i>MW41-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041315-MR-031</i>	<i>WG-017360-041315-MR-032</i>	<i>WG-017360-041315-MR-029</i>
<i>Sample Date:</i>	<i>4/13/2015</i>	<i>4/13/2015</i>	<i>4/13/2015</i>
<i>Sample Type:</i>	<i>Duplicate</i>		
<i>Segment Depth:</i>	<i>(14.4-24.4) ft BGS</i>	<i>(45-50) ft BGS</i>	<i>(18.3-28.3) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	2.6	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	1.0 U	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 4.3	7.2	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 11
Sample Location:	MW34-12	MW40-12	MW41-12
Sample Identification:	WG-017360-041315-MR-031	WG-017360-041315-MR-032	WG-017360-041315-MR-029
Sample Date:	4/13/2015	4/13/2015	4/13/2015
Sample Type:	Duplicate		
Segment Depth:	(14.4-24.4) ft BGS	(45-50) ft BGS	(18.3-28.3) ft BGS

	Units			
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--
2-Chloronaphthalene	ug/L	--	--	--
2-Chlorophenol	ug/L	--	--	--
2-Methylnaphthalene	ug/L	--	--	--
2-Methylphenol	ug/L	--	--	--
2-Nitroaniline	ug/L	--	--	--
2-Nitrophenol	ug/L	--	--	--
3&4-Methylphenol	ug/L	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--
3-Nitroaniline	ug/L	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--
4-Chloroaniline	ug/L	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--
4-Nitroaniline	ug/L	--	--	--
4-Nitrophenol	ug/L	--	--	--
Acenaphthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 11
Sample Location:	MW34-12	MW40-12	MW41-12
Sample Identification:	WG-017360-041315-MR-031	WG-017360-041315-MR-032	WG-017360-041315-MR-029
Sample Date:	4/13/2015	4/13/2015	4/13/2015
Sample Type:	Duplicate		
Segment Depth:	(14.4-24.4) ft BGS	(45-50) ft BGS	(18.3-28.3) ft BGS
	Units		
Semi-Volatile Organic Compounds			
Acenaphthylene	ug/L	--	--
Acetophenone	ug/L	--	--
Anthracene	ug/L	--	--
Atrazine	ug/L	--	--
Benzaldehyde	ug/L	--	--
Benzo(a)anthracene	ug/L	--	--
Benzo(a)pyrene	ug/L	--	--
Benzo(b)fluoranthene	ug/L	--	--
Benzo(g,h,i)perylene	ug/L	--	--
Benzo(k)fluoranthene	ug/L	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--
bis(2-Chloroethyl)ether	ug/L	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--
Caprolactam	ug/L	--	--
Carbazole	ug/L	--	--
Chrysene	ug/L	--	--
Dibenz(a,h)anthracene	ug/L	--	--
Dibenzofuran	ug/L	--	--
Diethyl phthalate	ug/L	--	--
Dimethyl phthalate	ug/L	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--
Fluoranthene	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 11</i>
<i>Sample Location:</i>	<i>MW34-12</i>	<i>MW40-12</i>	<i>MW41-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041315-MR-031</i>	<i>WG-017360-041315-MR-032</i>	<i>WG-017360-041315-MR-029</i>
<i>Sample Date:</i>	<i>4/13/2015</i>	<i>4/13/2015</i>	<i>4/13/2015</i>
<i>Sample Type:</i>	<i>Duplicate</i>		
<i>Segment Depth:</i>	<i>(14.4-24.4) ft BGS</i>	<i>(45-50) ft BGS</i>	<i>(18.3-28.3) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Fluorene	ug/L	--	--
Hexachlorobenzene	ug/L	--	--
Hexachlorobutadiene	ug/L	--	--
Hexachlorocyclopentadiene	ug/L	--	--
Hexachloroethane	ug/L	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--
Isophorone	ug/L	--	--
Naphthalene	ug/L	--	--
Nitrobenzene	ug/L	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--
N-Nitrosodiphenylamine	ug/L	--	--
Pentachlorophenol	ug/L	--	--
Phenanthrene	ug/L	--	--
Phenol	ug/L	--	--
Pyrene	ug/L	--	--
<i>Metals</i>			
Antimony	ug/L	--	--
Arsenic	ug/L	--	--
Barium	ug/L	--	--
Beryllium	ug/L	--	--
Cadmium	ug/L	--	--
Chromium	ug/L	--	--
Cobalt	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 11</i>
<i>Sample Location:</i>	<i>MW34-12</i>	<i>MW40-12</i>	<i>MW41-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041315-MR-031</i>	<i>WG-017360-041315-MR-032</i>	<i>WG-017360-041315-MR-029</i>
<i>Sample Date:</i>	<i>4/13/2015</i>	<i>4/13/2015</i>	<i>4/13/2015</i>
<i>Sample Type:</i>	<i>Duplicate</i>		
<i>Segment Depth:</i>	<i>(14.4-24.4) ft BGS</i>	<i>(45-50) ft BGS</i>	<i>(18.3-28.3) ft BGS</i>
	<i>Units</i>		
<i>Metals</i>			
Copper	ug/L	--	--
Iron	ug/L	--	--
Lead	ug/L	--	--
Manganese	ug/L	--	--
Mercury	ug/L	--	--
Molybdenum	ug/L	--	--
Nickel	ug/L	--	--
Selenium	ug/L	--	--
Silver	ug/L	--	--
Thallium	ug/L	--	--
Vanadium	ug/L	--	--
Zinc	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>
<i>Sample Location:</i>	<i>MW58-13</i>	<i>MW15-04</i>	<i>MW35-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041315-MR-027</i>	<i>WG-017360-041415-MR-042</i>	<i>WG-017360-041415-MR-035</i>
<i>Sample Date:</i>	<i>4/13/2015</i>	<i>4/14/2015</i>	<i>4/14/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(13.5-18.5) ft BGS</i>	<i>(25-30) ft BGS</i>	<i>(24.6-29.6) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	ug/L	1.0 U	2.0
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U
2-Hexanone	ug/L	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U
Acetone	ug/L	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1
Sample Location:	MW58-13	MW15-04	MW35-12
Sample Identification:	WG-017360-041315-MR-027	WG-017360-041415-MR-042	WG-017360-041415-MR-035
Sample Date:	4/13/2015	4/14/2015	4/14/2015
Sample Type:			
Segment Depth:	(13.5-18.5) ft BGS	(25-30) ft BGS	(24.6-29.6) ft BGS
	Units		
Volatile Organic Compounds			
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	1.0 U	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.0 U	1.0 U	37
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1
Sample Location:	MW58-13	MW15-04	MW35-12
Sample Identification:	WG-017360-041315-MR-027	WG-017360-041415-MR-042	WG-017360-041415-MR-035
Sample Date:	4/13/2015	4/14/2015	4/14/2015
Sample Type:			
Segment Depth:	(13.5-18.5) ft BGS	(25-30) ft BGS	(24.6-29.6) ft BGS

	Units			
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--
2-Chloronaphthalene	ug/L	--	--	--
2-Chlorophenol	ug/L	--	--	--
2-Methylnaphthalene	ug/L	--	--	--
2-Methylphenol	ug/L	--	--	--
2-Nitroaniline	ug/L	--	--	--
2-Nitrophenol	ug/L	--	--	--
3&4-Methylphenol	ug/L	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--
3-Nitroaniline	ug/L	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--
4-Chloroaniline	ug/L	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--
4-Nitroaniline	ug/L	--	--	--
4-Nitrophenol	ug/L	--	--	--
Acenaphthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1
Sample Location:	MW58-13	MW15-04	MW35-12
Sample Identification:	WG-017360-041315-MR-027	WG-017360-041415-MR-042	WG-017360-041415-MR-035
Sample Date:	4/13/2015	4/14/2015	4/14/2015
Sample Type:			
Segment Depth:	(13.5-18.5) ft BGS	(25-30) ft BGS	(24.6-29.6) ft BGS
	Units		
Semi-Volatile Organic Compounds			
Acenaphthylene	ug/L	--	--
Acetophenone	ug/L	--	--
Anthracene	ug/L	--	--
Atrazine	ug/L	--	--
Benzaldehyde	ug/L	--	--
Benzo(a)anthracene	ug/L	--	--
Benzo(a)pyrene	ug/L	--	--
Benzo(b)fluoranthene	ug/L	--	--
Benzo(g,h,i)perylene	ug/L	--	--
Benzo(k)fluoranthene	ug/L	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--
bis(2-Chloroethyl)ether	ug/L	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--
Caprolactam	ug/L	--	--
Carbazole	ug/L	--	--
Chrysene	ug/L	--	--
Dibenz(a,h)anthracene	ug/L	--	--
Dibenzofuran	ug/L	--	--
Diethyl phthalate	ug/L	--	--
Dimethyl phthalate	ug/L	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--
Fluoranthene	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>
<i>Sample Location:</i>	<i>MW58-13</i>	<i>MW15-04</i>	<i>MW35-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041315-MR-027</i>	<i>WG-017360-041415-MR-042</i>	<i>WG-017360-041415-MR-035</i>
<i>Sample Date:</i>	<i>4/13/2015</i>	<i>4/14/2015</i>	<i>4/14/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(13.5-18.5) ft BGS</i>	<i>(25-30) ft BGS</i>	<i>(24.6-29.6) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Fluorene	ug/L	--	--
Hexachlorobenzene	ug/L	--	--
Hexachlorobutadiene	ug/L	--	--
Hexachlorocyclopentadiene	ug/L	--	--
Hexachloroethane	ug/L	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--
Isophorone	ug/L	--	--
Naphthalene	ug/L	--	--
Nitrobenzene	ug/L	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--
N-Nitrosodiphenylamine	ug/L	--	--
Pentachlorophenol	ug/L	--	--
Phenanthrene	ug/L	--	--
Phenol	ug/L	--	--
Pyrene	ug/L	--	--
<i>Metals</i>			
Antimony	ug/L	--	--
Arsenic	ug/L	--	--
Barium	ug/L	--	--
Beryllium	ug/L	--	--
Cadmium	ug/L	--	--
Chromium	ug/L	--	--
Cobalt	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>
<i>Sample Location:</i>	<i>MW58-13</i>	<i>MW15-04</i>	<i>MW35-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041315-MR-027</i>	<i>WG-017360-041415-MR-042</i>	<i>WG-017360-041415-MR-035</i>
<i>Sample Date:</i>	<i>4/13/2015</i>	<i>4/14/2015</i>	<i>4/14/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(13.5-18.5) ft BGS</i>	<i>(25-30) ft BGS</i>	<i>(24.6-29.6) ft BGS</i>
	<i>Units</i>		
<i>Metals</i>			
Copper	ug/L	--	--
Iron	ug/L	--	--
Lead	ug/L	--	--
Manganese	ug/L	--	--
Mercury	ug/L	--	--
Molybdenum	ug/L	--	--
Nickel	ug/L	--	--
Selenium	ug/L	--	--
Silver	ug/L	--	--
Thallium	ug/L	--	--
Vanadium	ug/L	--	--
Zinc	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 19</i>
<i>Sample Location:</i>	<i>MW37-12</i>	<i>MW37-12</i>	<i>MW38-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041415-MR-036</i>	<i>WG-017360-041415-MR-037</i>	<i>WG-017360-041415-MR-038</i>
<i>Sample Date:</i>	<i>4/14/2015</i>	<i>4/14/2015</i>	<i>4/14/2015</i>
<i>Sample Type:</i>		<i>Duplicate</i>	
<i>Segment Depth:</i>	<i>(19.4-29.4) ft BGS</i>	<i>(19.4-29.4) ft BGS</i>	<i>(20-30) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L 1.0 U	1.0 U	0.94 U
1,1-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L 5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L 1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L 1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L 25 U	25 U	25 U
2-Hexanone	ug/L 50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L 50 U	50 U	50 U
Acetone	ug/L 50 U	50 U	50 U
Benzene	ug/L 1.0 U	1.0 U	0.43 U
Bromodichloromethane	ug/L 1.0 U	1.0 U	1.0 U
Bromoform	ug/L 1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L 5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L 5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L 1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L 1.0 U	1.0 U	1.0 U
Chloroethane	ug/L 5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 19</i>
<i>Sample Location:</i>	<i>MW37-12</i>	<i>MW37-12</i>	<i>MW38-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041415-MR-036</i>	<i>WG-017360-041415-MR-037</i>	<i>WG-017360-041415-MR-038</i>
<i>Sample Date:</i>	<i>4/14/2015</i>	<i>4/14/2015</i>	<i>4/14/2015</i>
<i>Sample Type:</i>		<i>Duplicate</i>	
<i>Segment Depth:</i>	<i>(19.4-29.4) ft BGS</i>	<i>(19.4-29.4) ft BGS</i>	<i>(20-30) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	0.79 J	6.7
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.0 U	1.0 U	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 6.4	6.8	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U
Trifluorotrchloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	11
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 19
Sample Location:	MW37-12	MW37-12	MW38-12
Sample Identification:	WG-017360-041415-MR-036	WG-017360-041415-MR-037	WG-017360-041415-MR-038
Sample Date:	4/14/2015	4/14/2015	4/14/2015
Sample Type:		Duplicate	
Segment Depth:	(19.4-29.4) ft BGS	(19.4-29.4) ft BGS	(20-30) ft BGS

	Units			
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--
2-Chloronaphthalene	ug/L	--	--	--
2-Chlorophenol	ug/L	--	--	--
2-Methylnaphthalene	ug/L	--	--	--
2-Methylphenol	ug/L	--	--	--
2-Nitroaniline	ug/L	--	--	--
2-Nitrophenol	ug/L	--	--	--
3&4-Methylphenol	ug/L	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--
3-Nitroaniline	ug/L	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--
4-Chloroaniline	ug/L	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--
4-Nitroaniline	ug/L	--	--	--
4-Nitrophenol	ug/L	--	--	--
Acenaphthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 19
Sample Location:	MW37-12	MW37-12	MW38-12
Sample Identification:	WG-017360-041415-MR-036	WG-017360-041415-MR-037	WG-017360-041415-MR-038
Sample Date:	4/14/2015	4/14/2015	4/14/2015
Sample Type:		Duplicate	
Segment Depth:	(19.4-29.4) ft BGS	(19.4-29.4) ft BGS	(20-30) ft BGS

Units**Semi-Volatile Organic Compounds**

Acenaphthylene	ug/L	--	--	--
Acetophenone	ug/L	--	--	--
Anthracene	ug/L	--	--	--
Atrazine	ug/L	--	--	--
Benzaldehyde	ug/L	--	--	--
Benzo(a)anthracene	ug/L	--	--	--
Benzo(a)pyrene	ug/L	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--	--
Butyl benzylphthalate (BBP)	ug/L	--	--	--
Caprolactam	ug/L	--	--	--
Carbazole	ug/L	--	--	--
Chrysene	ug/L	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--
Dibenzofuran	ug/L	--	--	--
Diethyl phthalate	ug/L	--	--	--
Dimethyl phthalate	ug/L	--	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--	--
Fluoranthene	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 25, AOI 4.1</i>	<i>AOI 19</i>
<i>Sample Location:</i>	<i>MW37-12</i>	<i>MW37-12</i>	<i>MW38-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041415-MR-036</i>	<i>WG-017360-041415-MR-037</i>	<i>WG-017360-041415-MR-038</i>
<i>Sample Date:</i>	<i>4/14/2015</i>	<i>4/14/2015</i>	<i>4/14/2015</i>
<i>Sample Type:</i>		<i>Duplicate</i>	
<i>Segment Depth:</i>	<i>(19.4-29.4) ft BGS</i>	<i>(19.4-29.4) ft BGS</i>	<i>(20-30) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Fluorene	ug/L	--	--
Hexachlorobenzene	ug/L	--	--
Hexachlorobutadiene	ug/L	--	--
Hexachlorocyclopentadiene	ug/L	--	--
Hexachloroethane	ug/L	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--
Isophorone	ug/L	--	--
Naphthalene	ug/L	--	--
Nitrobenzene	ug/L	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--
N-Nitrosodiphenylamine	ug/L	--	--
Pentachlorophenol	ug/L	--	--
Phenanthrene	ug/L	--	--
Phenol	ug/L	--	--
Pyrene	ug/L	--	--
<i>Metals</i>			
Antimony	ug/L	--	--
Arsenic	ug/L	--	--
Barium	ug/L	--	--
Beryllium	ug/L	--	--
Cadmium	ug/L	--	--
Chromium	ug/L	--	--
Cobalt	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 19
Sample Location:	MW37-12	MW37-12	MW38-12
Sample Identification:	WG-017360-041415-MR-036	WG-017360-041415-MR-037	WG-017360-041415-MR-038
Sample Date:	4/14/2015	4/14/2015	4/14/2015
Sample Type:		Duplicate	
Segment Depth:	(19.4-29.4) ft BGS	(19.4-29.4) ft BGS	(20-30) ft BGS

Units**Metals**

Copper	ug/L	--	--	--
Iron	ug/L	--	--	--
Lead	ug/L	--	--	--
Manganese	ug/L	--	--	--
Mercury	ug/L	--	--	--
Molybdenum	ug/L	--	--	--
Nickel	ug/L	--	--	--
Selenium	ug/L	--	--	--
Silver	ug/L	--	--	--
Thallium	ug/L	--	--	--
Vanadium	ug/L	--	--	--
Zinc	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>		<i>AOI 16.1</i>	<i>AOI 17.1</i>	<i>UNKNOWN</i>
<i>Sample Location:</i>		<i>MW42-12</i>	<i>MW43-12</i>	<i>MW60-14</i>
<i>Sample Identification:</i>		<i>WG-017360-041415-MR-040</i>	<i>WG-017360-041415-MR-039</i>	<i>WG-017360-041415-MR-041</i>
<i>Sample Date:</i>		<i>4/14/2015</i>	<i>4/14/2015</i>	<i>4/14/2015</i>
<i>Sample Type:</i>				
<i>Segment Depth:</i>		<i>(21-31) ft BGS</i>	<i>(15-25) ft BGS</i>	<i>(21-26) ft BGS</i>
	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U	50 U
Acetone	ug/L	50 U	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 16.1</i>	<i>AOI 17.1</i>	<i>UNKNOWN</i>
<i>Sample Location:</i>	<i>MW42-12</i>	<i>MW43-12</i>	<i>MW60-14</i>
<i>Sample Identification:</i>	<i>WG-017360-041415-MR-040</i>	<i>WG-017360-041415-MR-039</i>	<i>WG-017360-041415-MR-041</i>
<i>Sample Date:</i>	<i>4/14/2015</i>	<i>4/14/2015</i>	<i>4/14/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(21-31) ft BGS</i>	<i>(15-25) ft BGS</i>	<i>(21-26) ft BGS</i>
	<i>Units</i>		
<i>Volatile Organic Compounds</i>			
Chloroform (Trichloromethane)	ug/L 1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L 5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L 5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L 5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L 1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L 5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L 10 U	10 U	10 U
Methyl cyclohexane	ug/L 1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L 5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L 5.0 U	5.0 U	5.0 U
Styrene	ug/L 1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L 1.4	3.8	1.0 U
Toluene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L 1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L 1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L 1.0 U	0.88 J	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L 1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L 1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L 1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L 3.0 U	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 16.1	AOI 17.1	UNKNOWN
Sample Location:	MW42-12	MW43-12	MW60-14
Sample Identification:	WG-017360-041415-MR-040	WG-017360-041415-MR-039	WG-017360-041415-MR-041
Sample Date:	4/14/2015	4/14/2015	4/14/2015
Sample Type:			
Segment Depth:	(21-31) ft BGS	(15-25) ft BGS	(21-26) ft BGS

	Units			
Semi-Volatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--
2-Chloronaphthalene	ug/L	--	--	--
2-Chlorophenol	ug/L	--	--	--
2-Methylnaphthalene	ug/L	--	--	--
2-Methylphenol	ug/L	--	--	--
2-Nitroaniline	ug/L	--	--	--
2-Nitrophenol	ug/L	--	--	--
3&4-Methylphenol	ug/L	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--
3-Nitroaniline	ug/L	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--
4-Chloroaniline	ug/L	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--
4-Nitroaniline	ug/L	--	--	--
4-Nitrophenol	ug/L	--	--	--
Acenaphthene	ug/L	--	--	--

AOI	AOI 16.1	AOI 17.1	UNKNOWN
Sample Location:	MW42-12	MW43-12	MW60-14
Sample Identification:	WG-017360-041415-MR-040	WG-017360-041415-MR-039	WG-017360-041415-MR-041
Sample Date:	4/14/2015	4/14/2015	4/14/2015
Sample Type:			
Segment Depth:	(21-31) ft BGS	(15-25) ft BGS	(21-26) ft BGS

Units

Acenaphthylene	ug/L	--	--
Acetophenone	ug/L	--	--
Anthracene	ug/L	--	--
Atrazine	ug/L	--	--
Benzaldehyde	ug/L	--	--
Benzo(a)anthracene	ug/L	--	--
Benzo(a)pyrene	ug/L	--	--
Benzo(b)fluoranthene	ug/L	--	--
Benzo(g,h,i)perylene	ug/L	--	--
Benzo(k)fluoranthene	ug/L	--	--
Biphenyl (1,1-Biphenyl)	ug/L	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--
bis(2-Chloroethyl)ether	ug/L	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	--	--
Butyl benzyphthalate (BBP)	ug/L	--	--
Caprolactam	ug/L	--	--
Carbazole	ug/L	--	--
Chrysene	ug/L	--	--
Dibenz(a,h)anthracene	ug/L	--	--
Dibenzofuran	ug/L	--	--
Diethyl phthalate	ug/L	--	--
Dimethyl phthalate	ug/L	--	--
Di-n-butylphthalate (DBP)	ug/L	--	--
Di-n-octyl phthalate (DnOP)	ug/L	--	--
Fluoranthene	ug/L	--	--

AOI	AOI 16.1	AOI 17.1	UNKNOWN
Sample Location:	MW42-12	MW43-12	MW60-14
Sample Identification:	WG-017360-041415-MR-040	WG-017360-041415-MR-039	WG-017360-041415-MR-041
Sample Date:	4/14/2015	4/14/2015	4/14/2015
Sample Type:			
Segment Depth:	(21-31) ft BGS	(15-25) ft BGS	(21-26) ft BGS

Semi-Volatile Organic Compounds

Fluorene	ug/L	--	--	--
Hexachlorobenzene	ug/L	--	--	--
Hexachlorobutadiene	ug/L	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--
Hexachloroethane	ug/L	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--
Isophorone	ug/L	--	--	--
Naphthalene	ug/L	--	--	--
Nitrobenzene	ug/L	--	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--
Pentachlorophenol	ug/L	--	--	--
Phenanthrene	ug/L	--	--	--
Phenol	ug/L	--	--	--
Pyrene	ug/L	--	--	--

Antimony	ug/L	--	--	0.1 U
Arsenic	ug/L	--	--	5 U
Barium	ug/L	--	--	21
Beryllium	ug/L	--	--	1 U
Cadmium	ug/L	--	--	1 U
Chromium	ug/L	--	--	4.1 J
Cobalt	ug/L	--	--	1.2 J

AOI
Sample Location:
Sample Identification:
Sample Date:
Sample Type:
Segment Depth:

AOI 16.1 MW42-12 WG-017360-041415-MR-040 4/14/2015 (21-31) ft BGS	AOI 17.1 MW43-12 WG-017360-041415-MR-039 4/14/2015 (15-25) ft BGS	UNKNOWN MW60-14 WG-017360-041415-MR-041 4/14/2015 (21-26) ft BGS

Metals

Copper	ug/L	--	--	4.7 J
Iron	ug/L	--	--	54 J
Lead	ug/L	--	--	0.61 J
Manganese	ug/L	--	--	5.4
Mercury	ug/L	--	--	0.2 U
Molybdenum	ug/L	--	--	4.8 J
Nickel	ug/L	--	--	5 U
Selenium	ug/L	--	--	2 J
Silver	ug/L	--	--	0.2 U
Thallium	ug/L	--	--	2 U
Vanadium	ug/L	--	--	0.65 J
Zinc	ug/L	--	--	4.5 J

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 6, AOI 25, AOI 19, AOI 4.1		AOI 6	AOI 6, AOI 25, AOI 4.1
Sample Location:	MW44-12		MW45-12	MW46-12
Sample Identification:	WG-017360-041515-MR-047		WG-017360-041515-MR-048	WG-017360-041515-MR-049
Sample Date:	4/15/2015		4/15/2015	4/15/2015
Sample Type:				
Segment Depth:	(18.5-28.5) ft BGS		(19.1-29.1) ft BGS	(20.2-30.2) ft BGS
	Units			
Volatile Organic Compounds				
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.6	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.4 J	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	2.6 J	50 U	50 U
Acetone	ug/L	50 U	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 6, AOI 25, AOI 19, AOI 4.1		AOI 6	AOI 6, AOI 25, AOI 4.1
Sample Location:	MW44-12		MW45-12	MW46-12
Sample Identification:	WG-017360-041515-MR-047		WG-017360-041515-MR-048	WG-017360-041515-MR-049
Sample Date:	4/15/2015		4/15/2015	4/15/2015
Sample Type:				
Segment Depth:	(18.5-28.5) ft BGS		(19.1-29.1) ft BGS	(20.2-30.2) ft BGS
	Units			
Volatile Organic Compounds				
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.7	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.5	1.0 U	1.0 U
Isopropyl benzene	ug/L	2.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	2.3	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	4.7	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 6, AOI 25, AOI 19, AOI 4.1</i>	<i>AOI 6</i>	<i>AOI 6, AOI 25, AOI 4.1</i>
<i>Sample Location:</i>	<i>MW44-12</i>	<i>MW45-12</i>	<i>MW46-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041515-MR-047</i>	<i>WG-017360-041515-MR-048</i>	<i>WG-017360-041515-MR-049</i>
<i>Sample Date:</i>	<i>4/15/2015</i>	<i>4/15/2015</i>	<i>4/15/2015</i>
<i>Sample Type:</i>			
<i>Segment Depth:</i>	<i>(18.5-28.5) ft BGS</i>	<i>(19.1-29.1) ft BGS</i>	<i>(20.2-30.2) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	5.0 U	5.0 U
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U
2,4-Dichlorophenol	ug/L	5.0 U	5.0 U
2,4-Dimethylphenol	ug/L	2.0 J	5.0 U
2,4-Dinitrophenol	ug/L	5.0 U	5.0 U
2,4-Dinitrotoluene	ug/L	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U
2-Chloronaphthalene	ug/L	5.0 U	5.0 U
2-Chlorophenol	ug/L	5.0 U	5.0 U
2-Methylnaphthalene	ug/L	5.0 U	5.0 U
2-Methylphenol	ug/L	5.0 U	5.0 U
2-Nitroaniline	ug/L	5.0 U	5.0 U
2-Nitrophenol	ug/L	5.0 U	5.0 U
3&4-Methylphenol	ug/L	5.0 U	5.0 U
3,3'-Dichlorobenzidine	ug/L	5.0 U	5.0 U
3-Nitroaniline	ug/L	5.0 U	5.0 U
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	5.0 U
4-Bromophenyl phenyl ether	ug/L	5.0 U	5.0 U
4-Chloro-3-methylphenol	ug/L	5.0 U	5.0 U
4-Chloroaniline	ug/L	5.0 U	5.0 U
4-Chlorophenyl phenyl ether	ug/L	5.0 U	5.0 U
4-Nitroaniline	ug/L	5.0 U	5.0 U
4-Nitrophenol	ug/L	5.0 U	5.0 U
Acenaphthene	ug/L	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 6, AOI 25, AOI 19, AOI 4.1		AOI 6	AOI 6, AOI 25, AOI 4.1
Sample Location:	MW44-12		MW45-12	MW46-12
Sample Identification:	WG-017360-041515-MR-047		WG-017360-041515-MR-048	WG-017360-041515-MR-049
Sample Date:	4/15/2015		4/15/2015	4/15/2015
Sample Type:				
Segment Depth:	(18.5-28.5) ft BGS		(19.1-29.1) ft BGS	(20.2-30.2) ft BGS
	Units			
Semi-Volatile Organic Compounds				
Acenaphthylene	ug/L	5.0 U	5.0 U	5.0 U
Acetophenone	ug/L	1.0 U	1.0 U	1.0 U
Anthracene	ug/L	5.0 U	5.0 U	5.0 U
Atrazine	ug/L	1.0 U	1.0 U	1.0 U
Benzaldehyde	ug/L	1.0 U	1.0 U	1.0 U
Benzo(a)anthracene	ug/L	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	ug/L	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	ug/L	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	ug/L	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	ug/L	5.0 U	5.0 U	5.0 U
Biphenyl (1,1-Biphenyl)	ug/L	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	ug/L	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	ug/L	5.0 U	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.0 U	5.0 U	5.0 U
Butyl benzylphthalate (BBP)	ug/L	5.0 U	5.0 U	5.0 U
Caprolactam	ug/L	10 U	10 U	10 U
Carbazole	ug/L	5.0 U	5.0 U	5.0 U
Chrysene	ug/L	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	ug/L	5.0 U	5.0 U	5.0 U
Dibenzofuran	ug/L	5.0 U	5.0 U	5.0 U
Diethyl phthalate	ug/L	5.0 U	5.0 U	5.0 U
Dimethyl phthalate	ug/L	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate (DBP)	ug/L	5.0 U	5.0 U	5.0 U
Di-n-octyl phthalate (DnOP)	ug/L	5.0 U	5.0 U	5.0 U
Fluoranthene	ug/L	5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 6, AOI 25, AOI 19, AOI 4.1		AOI 6	AOI 6, AOI 25, AOI 4.1
Sample Location:	MW44-12		MW45-12	MW46-12
Sample Identification:	WG-017360-041515-MR-047		WG-017360-041515-MR-048	WG-017360-041515-MR-049
Sample Date:	4/15/2015		4/15/2015	4/15/2015
Sample Type:				
Segment Depth:	(18.5-28.5) ft BGS		(19.1-29.1) ft BGS	(20.2-30.2) ft BGS
	Units			
Semi-Volatile Organic Compounds				
Fluorene	ug/L	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	ug/L	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	ug/L	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	ug/L	5.0 U	5.0 U	5.0 U
Hexachloroethane	ug/L	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L	5.0 U	5.0 U	5.0 U
Isophorone	ug/L	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	0.48 J	5.0 U	5.0 U
Nitrobenzene	ug/L	5.0 U	5.0 U	5.0 U
N-Nitrosodi-n-propylamine	ug/L	5.0 U	5.0 U	5.0 U
N-Nitrosodiphenylamine	ug/L	5.0 U	5.0 U	5.0 U
Pentachlorophenol	ug/L	5.0 U	5.0 U	5.0 U
Phenanthrene	ug/L	5.0 U	5.0 U	5.0 U
Phenol	ug/L	5.0 U	5.0 U	5.0 U
Pyrene	ug/L	5.0 U	5.0 U	5.0 U
Metals				
Antimony	ug/L	--	--	--
Arsenic	ug/L	--	--	--
Barium	ug/L	--	--	--
Beryllium	ug/L	--	--	--
Cadmium	ug/L	--	--	--
Chromium	ug/L	--	--	--
Cobalt	ug/L	--	--	--

AOI
Sample Location:
Sample Identification:
Sample Date:
Sample Type:
Segment Depth:

AOI 6
MW45-12
WG-017360-041515-MR-048
4/15/2015

(18.5-28.5) ft BGS

(19.1-29.1) ft BGS

(20.2-30.2) ft BGS

Units

Copper	ug/L	--	--	--
Iron	ug/L	--	--	--
Lead	ug/L	--	--	--
Manganese	ug/L	--	--	--
Mercury	ug/L	--	--	--
Molybdenum	ug/L	--	--	--
Nickel	ug/L	--	--	--
Selenium	ug/L	--	--	--
Silver	ug/L	--	--	--
Thallium	ug/L	--	--	--
Vanadium	ug/L	--	--	--
Zinc	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI		AOI 6	AOI 6	AOI 6
Sample Location:		MW50-12	MW51-12	MW51-12
Sample Identification:		WG-017360-041515-MR-046	WG-017360-041515-MR-044	WG-017360-041515-MR-045
Sample Date:		4/15/2015	4/15/2015	4/15/2015
Sample Type:				Duplicate
Segment Depth:		(17-27) ft BGS	(17-27) ft BGS	(17-27) ft BGS
	Units			
Volatile Organic Compounds				
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U	50 U
Acetone	ug/L	50 U	50 U	50 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>		<i>AOI 6</i>	<i>AOI 6</i>	<i>AOI 6</i>
<i>Sample Location:</i>		<i>MW50-12</i>	<i>MW51-12</i>	<i>MW51-12</i>
<i>Sample Identification:</i>		<i>WG-017360-041515-MR-046</i>	<i>WG-017360-041515-MR-044</i>	<i>WG-017360-041515-MR-045</i>
<i>Sample Date:</i>		<i>4/15/2015</i>	<i>4/15/2015</i>	<i>4/15/2015</i>
<i>Sample Type:</i>				<i>Duplicate</i>
<i>Segment Depth:</i>		<i>(17-27) ft BGS</i>	<i>(17-27) ft BGS</i>	<i>(17-27) ft BGS</i>
	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.6	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	4.0	4.1	3.8
Toluene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.2	1.1	1.1
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	0.68 J	3.0 U	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>		<i>AOI 6</i>	<i>AOI 6</i>	<i>AOI 6</i>
<i>Sample Location:</i>		<i>MW50-12</i>	<i>MW51-12</i>	<i>MW51-12</i>
<i>Sample Identification:</i>		<i>WG-017360-041515-MR-046</i>	<i>WG-017360-041515-MR-044</i>	<i>WG-017360-041515-MR-045</i>
<i>Sample Date:</i>		<i>4/15/2015</i>	<i>4/15/2015</i>	<i>4/15/2015</i>
<i>Sample Type:</i>				<i>Duplicate</i>
<i>Segment Depth:</i>		<i>(17-27) ft BGS</i>	<i>(17-27) ft BGS</i>	<i>(17-27) ft BGS</i>
	<i>Units</i>			
<i>Semi-Volatile Organic Compounds</i>				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	ug/L	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	ug/L	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	ug/L	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	ug/L	5.0 U	5.0 U	5.0 U
2-Chlorophenol	ug/L	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	ug/L	5.0 U	5.0 U	5.0 U
2-Methylphenol	ug/L	5.0 U	5.0 U	5.0 U
2-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U
2-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U
3&4-Methylphenol	ug/L	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	ug/L	5.0 U	5.0 U	5.0 U
3-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	5.0 U	5.0 U
4-Bromophenyl phenyl ether	ug/L	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	ug/L	5.0 U	5.0 U	5.0 U
4-Chloroaniline	ug/L	5.0 U	5.0 U	5.0 U
4-Chlorophenyl phenyl ether	ug/L	5.0 U	5.0 U	5.0 U
4-Nitroaniline	ug/L	5.0 U	5.0 U	5.0 U
4-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U
Acenaphthene	ug/L	5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 6</i>	<i>AOI 6</i>	<i>AOI 6</i>
<i>Sample Location:</i>	<i>MW50-12</i>	<i>MW51-12</i>	<i>MW51-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041515-MR-046</i>	<i>WG-017360-041515-MR-044</i>	<i>WG-017360-041515-MR-045</i>
<i>Sample Date:</i>	<i>4/15/2015</i>	<i>4/15/2015</i>	<i>4/15/2015</i>
<i>Sample Type:</i>			<i>Duplicate</i>
<i>Segment Depth:</i>	<i>(17-27) ft BGS</i>	<i>(17-27) ft BGS</i>	<i>(17-27) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Acenaphthylene	ug/L 5.0 U	5.0 U	5.0 U
Acetophenone	ug/L 1.0 U	1.0 U	1.0 U
Anthracene	ug/L 5.0 U	5.0 U	5.0 U
Atrazine	ug/L 1.0 U	1.0 U	1.0 U
Benzaldehyde	ug/L 1.0 U	1.0 U	1.0 U
Benzo(a)anthracene	ug/L 5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	ug/L 5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	ug/L 5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	ug/L 5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	ug/L 5.0 U	5.0 U	5.0 U
Biphenyl (1,1-Biphenyl)	ug/L 5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	ug/L 5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	ug/L 5.0 U	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L 5.0 U	5.0 U	5.0 U
Butyl benzylphthalate (BBP)	ug/L 5.0 U	5.0 U	5.0 U
Caprolactam	ug/L 10 U	10 U	10 U
Carbazole	ug/L 5.0 U	5.0 U	5.0 U
Chrysene	ug/L 5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	ug/L 5.0 U	5.0 U	5.0 U
Dibenzofuran	ug/L 5.0 U	5.0 U	5.0 U
Diethyl phthalate	ug/L 5.0 U	5.0 U	5.0 U
Dimethyl phthalate	ug/L 5.0 U	5.0 U	5.0 U
Di-n-butylphthalate (DBP)	ug/L 5.0 U	5.0 U	5.0 U
Di-n-octyl phthalate (DnOP)	ug/L 5.0 U	5.0 U	5.0 U
Fluoranthene	ug/L 5.0 U	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>AOI</i>	<i>AOI 6</i>	<i>AOI 6</i>	<i>AOI 6</i>
<i>Sample Location:</i>	<i>MW50-12</i>	<i>MW51-12</i>	<i>MW51-12</i>
<i>Sample Identification:</i>	<i>WG-017360-041515-MR-046</i>	<i>WG-017360-041515-MR-044</i>	<i>WG-017360-041515-MR-045</i>
<i>Sample Date:</i>	<i>4/15/2015</i>	<i>4/15/2015</i>	<i>4/15/2015</i>
<i>Sample Type:</i>			<i>Duplicate</i>
<i>Segment Depth:</i>	<i>(17-27) ft BGS</i>	<i>(17-27) ft BGS</i>	<i>(17-27) ft BGS</i>
	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
Fluorene	ug/L	5.0 U	5.0 U
Hexachlorobenzene	ug/L	5.0 U	5.0 U
Hexachlorobutadiene	ug/L	5.0 U	5.0 U
Hexachlorocyclopentadiene	ug/L	5.0 U	5.0 U
Hexachloroethane	ug/L	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L	5.0 U	5.0 U
Isophorone	ug/L	5.0 U	5.0 U
Naphthalene	ug/L	5.0 U	5.0 U
Nitrobenzene	ug/L	5.0 U	5.0 U
N-Nitrosodi-n-propylamine	ug/L	5.0 U	5.0 U
N-Nitrosodiphenylamine	ug/L	5.0 U	5.0 U
Pentachlorophenol	ug/L	5.0 U	5.0 U
Phenanthrene	ug/L	5.0 U	5.0 U
Phenol	ug/L	5.0 U	5.0 U
Pyrene	ug/L	5.0 U	5.0 U
<i>Metals</i>			
Antimony	ug/L	--	--
Arsenic	ug/L	--	--
Barium	ug/L	--	--
Beryllium	ug/L	--	--
Cadmium	ug/L	--	--
Chromium	ug/L	--	--
Cobalt	ug/L	--	--

AOI
Sample Location:
Sample Identification:
Sample Date:
Sample Type:
Segment Depth:

AOI 6
MW51-12
WG-017360-041515-MR-044
4/15/2015
(17-27) ft BGS

AOI 6
MW51-12
WG-017360-041515-MR-045
4/15/2015
Duplicate
(17-27) ft BGS

Metals

Copper	ug/L	--	--	--
Iron	ug/L	--	--	--
Lead	ug/L	--	--	--
Manganese	ug/L	--	--	--
Mercury	ug/L	--	--	--
Molybdenum	ug/L	--	--	--
Nickel	ug/L	--	--	--
Selenium	ug/L	--	--	--
Silver	ug/L	--	--	--
Thallium	ug/L	--	--	--
Vanadium	ug/L	--	--	--
Zinc	ug/L	--	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 6	NA
Sample Location:	MW52-12	Trip Blank
Sample Identification:	WG-017360-041515-MR-043	TB-017360-041515-MR-050
Sample Date:	4/15/2015	4/15/2015
Sample Type:		
Segment Depth:	(16.7-26.7) ft BGS	

	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U
2-Hexanone	ug/L	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U
Acetone	ug/L	50 U	3.6 J
Benzene	ug/L	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	5.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 6	NA
Sample Location:	MW52-12	Trip Blank
Sample Identification:	WG-017360-041515-MR-043	TB-017360-041515-MR-050
Sample Date:	4/15/2015	4/15/2015
Sample Type:		
Segment Depth:	(16.7-26.7) ft BGS	

	Units		
Volatile Organic Compounds			
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U
Ethylbenzene	ug/L	1.7	1.0 U
Isopropyl benzene	ug/L	2.3 J	5.0 U
Methyl acetate	ug/L	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	4.0 J
Styrene	ug/L	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U
Xylenes (total)	ug/L	1.8 J	3.0 U

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 6	NA
Sample Location:	MW52-12	Trip Blank
Sample Identification:	WG-017360-041515-MR-043	TB-017360-041515-MR-050
Sample Date:	4/15/2015	4/15/2015
Sample Type:		
Segment Depth:	(16.7-26.7) ft BGS	

	<i>Units</i>		
<i>Semi-Volatile Organic Compounds</i>			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	5.0 U	--
2,4,5-Trichlorophenol	ug/L	5.0 U	--
2,4,6-Trichlorophenol	ug/L	5.0 U	--
2,4-Dichlorophenol	ug/L	5.0 U	--
2,4-Dimethylphenol	ug/L	1.3 J	--
2,4-Dinitrophenol	ug/L	5.0 U	--
2,4-Dinitrotoluene	ug/L	5.0 U	--
2,6-Dinitrotoluene	ug/L	5.0 U	--
2-Chloronaphthalene	ug/L	5.0 U	--
2-Chlorophenol	ug/L	5.0 U	--
2-Methylnaphthalene	ug/L	5.0 U	--
2-Methylphenol	ug/L	5.0 U	--
2-Nitroaniline	ug/L	5.0 U	--
2-Nitrophenol	ug/L	5.0 U	--
3&4-Methylphenol	ug/L	5.0 U	--
3,3'-Dichlorobenzidine	ug/L	5.0 U	--
3-Nitroaniline	ug/L	5.0 U	--
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	--
4-Bromophenyl phenyl ether	ug/L	5.0 U	--
4-Chloro-3-methylphenol	ug/L	5.0 U	--
4-Chloroaniline	ug/L	5.0 U	--
4-Chlorophenyl phenyl ether	ug/L	5.0 U	--
4-Nitroaniline	ug/L	3.2 J	--
4-Nitrophenol	ug/L	5.0 U	--
Acenaphthene	ug/L	5.0 U	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 6	NA
Sample Location:	MW52-12	Trip Blank
Sample Identification:	WG-017360-041515-MR-043	TB-017360-041515-MR-050
Sample Date:	4/15/2015	4/15/2015
Sample Type:		
Segment Depth:	(16.7-26.7) ft BGS	

	Units		
Semi-Volatile Organic Compounds			
Acenaphthylene	ug/L	5.0 U	--
Acetophenone	ug/L	1.0 U	--
Anthracene	ug/L	5.0 U	--
Atrazine	ug/L	1.0 U	--
Benzaldehyde	ug/L	1.0 U	--
Benzo(a)anthracene	ug/L	5.0 U	--
Benzo(a)pyrene	ug/L	5.0 U	--
Benzo(b)fluoranthene	ug/L	5.0 U	--
Benzo(g,h,i)perylene	ug/L	5.0 U	--
Benzo(k)fluoranthene	ug/L	5.0 U	--
Biphenyl (1,1-Biphenyl)	ug/L	5.0 U	--
bis(2-Chloroethoxy)methane	ug/L	5.0 U	--
bis(2-Chloroethyl)ether	ug/L	5.0 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	5.0 U	--
Butyl benzylphthalate (BBP)	ug/L	5.0 U	--
Caprolactam	ug/L	10 U	--
Carbazole	ug/L	5.0 U	--
Chrysene	ug/L	5.0 U	--
Dibenz(a,h)anthracene	ug/L	5.0 U	--
Dibenzofuran	ug/L	5.0 U	--
Diethyl phthalate	ug/L	5.0 U	--
Dimethyl phthalate	ug/L	5.0 U	--
Di-n-butylphthalate (DBP)	ug/L	5.0 U	--
Di-n-octyl phthalate (DnOP)	ug/L	5.0 U	--
Fluoranthene	ug/L	5.0 U	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 6	NA
Sample Location:	MW52-12	Trip Blank
Sample Identification:	WG-017360-041515-MR-043	TB-017360-041515-MR-050
Sample Date:	4/15/2015	4/15/2015
Sample Type:		
Segment Depth:	(16.7-26.7) ft BGS	

	Units		
Semi-Volatile Organic Compounds			
Fluorene	ug/L	2.0 J	--
Hexachlorobenzene	ug/L	5.0 U	--
Hexachlorobutadiene	ug/L	5.0 U	--
Hexachlorocyclopentadiene	ug/L	5.0 U	--
Hexachloroethane	ug/L	5.0 U	--
Indeno(1,2,3-cd)pyrene	ug/L	5.0 U	--
Isophorone	ug/L	5.0 U	--
Naphthalene	ug/L	5.0 J	--
Nitrobenzene	ug/L	5.0 U	--
N-Nitrosodi-n-propylamine	ug/L	5.0 U	--
N-Nitrosodiphenylamine	ug/L	5.0 U	--
Pentachlorophenol	ug/L	5.0 U	--
Phenanthrene	ug/L	5.0 U	--
Phenol	ug/L	5.0 U	--
Pyrene	ug/L	5.0 U	--
Metals			
Antimony	ug/L	--	--
Arsenic	ug/L	--	--
Barium	ug/L	--	--
Beryllium	ug/L	--	--
Cadmium	ug/L	--	--
Chromium	ug/L	--	--
Cobalt	ug/L	--	--

TABLE 2

**VALIDATED ANALYTICAL RESULTS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

AOI	AOI 6	NA
Sample Location:	MW52-12	Trip Blank
Sample Identification:	WG-017360-041515-MR-043	TB-017360-041515-MR-050
Sample Date:	4/15/2015	4/15/2015
Sample Type:		
Segment Depth:	(16.7-26.7) ft BGS	

	<i>Units</i>		
Metals			
Copper	ug/L	--	--
Iron	ug/L	--	--
Lead	ug/L	--	--
Manganese	ug/L	--	--
Mercury	ug/L	--	--
Molybdenum	ug/L	--	--
Nickel	ug/L	--	--
Selenium	ug/L	--	--
Silver	ug/L	--	--
Thallium	ug/L	--	--
Vanadium	ug/L	--	--
Zinc	ug/L	--	--

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

TABLE 3
SAMPLE COLLECTION AND ANALYSIS SUMMARY
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015

<i>Parameter</i>	<i>Method</i>	<i>Matrix</i>	<i>Preservation</i>	<i>Holding Time</i>	
				<i>Collection to Extraction (Days)</i>	<i>Collection or Extraction to Analysis (Days)</i>
TCL VOC	SW-846 8260B	Water	Iced, $4 \pm 2^{\circ}$ C	-	14
TCL SVOC	SW-846 8270C	Water	Iced, $4 \pm 2^{\circ}$ C	14	40
Site-Specific TAL Metals (except Mercury)	SW-846 6020A	Water	Iced, $4 \pm 2^{\circ}$ C	-	180
Mercury	SW-846 7470A	Water	Iced, $4 \pm 2^{\circ}$ C	-	28

Notes

SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions.

TCL VOC - Target Compound List Volatile Organic Compounds

TCL SVOC - Target Compound List Semivolatile Organic Compounds

TAL - Target Analyte List

TABLE 4

**QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015**

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Original Result</i>	<i>Qualified Result</i>	<i>Units</i>
TAL Metals	Manganese	04/22/15	0.000794	WG-017360-041315-MR-028	0.00061 J	0.0050 U	mg/L
TAL Metals	Nickel	04/22/15	0.002289	WG-017360-041315-MR-028	0.0088	0.0088 U	mg/L
				WG-017360-041415-MR-041	0.0023 J	0.005 U	

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

TAL - Target Analyte List

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015

<i>Parameter</i>	<i>Sample ID</i>	<i>Analyte</i>	<i>MS</i>	<i>MSD</i>	<i>RPD</i>	<i>Control Limits</i>		<i>Qualified Result</i>	<i>Units</i>
			<i>% Recovery</i>	<i>% Recovery</i>	<i>(percent)</i>	<i>% Recovery</i>	<i>RPD</i>		
TCL VOC	WG-017360-041315-MR-031	4-Methyl-2-pentanone	76.2	74.5	2.19	77-178	30	50 UJ	µg/L
TCL SVOC	WG-017360-041515-MR-043	Naphthalene	30.4	34.6	7.3	40-100	30	5.0 J	µg/L

Notes:

UJ - Not detected; associated reporting limit is estimated.

J - Estimated concentration.

MS - Matrix spike.

MSD -Matrix spike du

RPD - Relative percent difference.

TCL VOC - Target Compound List Volatile Organic Compounds

TCL SVOC - Target Compound List Semivolatile Organic Compounds

TABLE 6

QUALIFIED SAMPLE DATA DUE TO ANALYTE CONCENTRATIONS IN THE TRIP BLANKS
2015 MONITORING WELL AND CULVERT SAMPLING
RACER GRAND RAPIDS STAMPING SITE
WYOMING, MICHIGAN
APRIL 2015

<i>Parameter</i>	<i>Blank Date</i>	<i>Analyte</i>	<i>Blank Result</i>	<i>Associated Sample ID</i>	<i>Original Result</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOC	04/25/15	Acetone	3.6 J	WG-017360-041515-MR-043	9.8 J	50 U	µg/L
				WG-017360-041515-MR-047	5.1 J	50 U	µg/L

Notes:

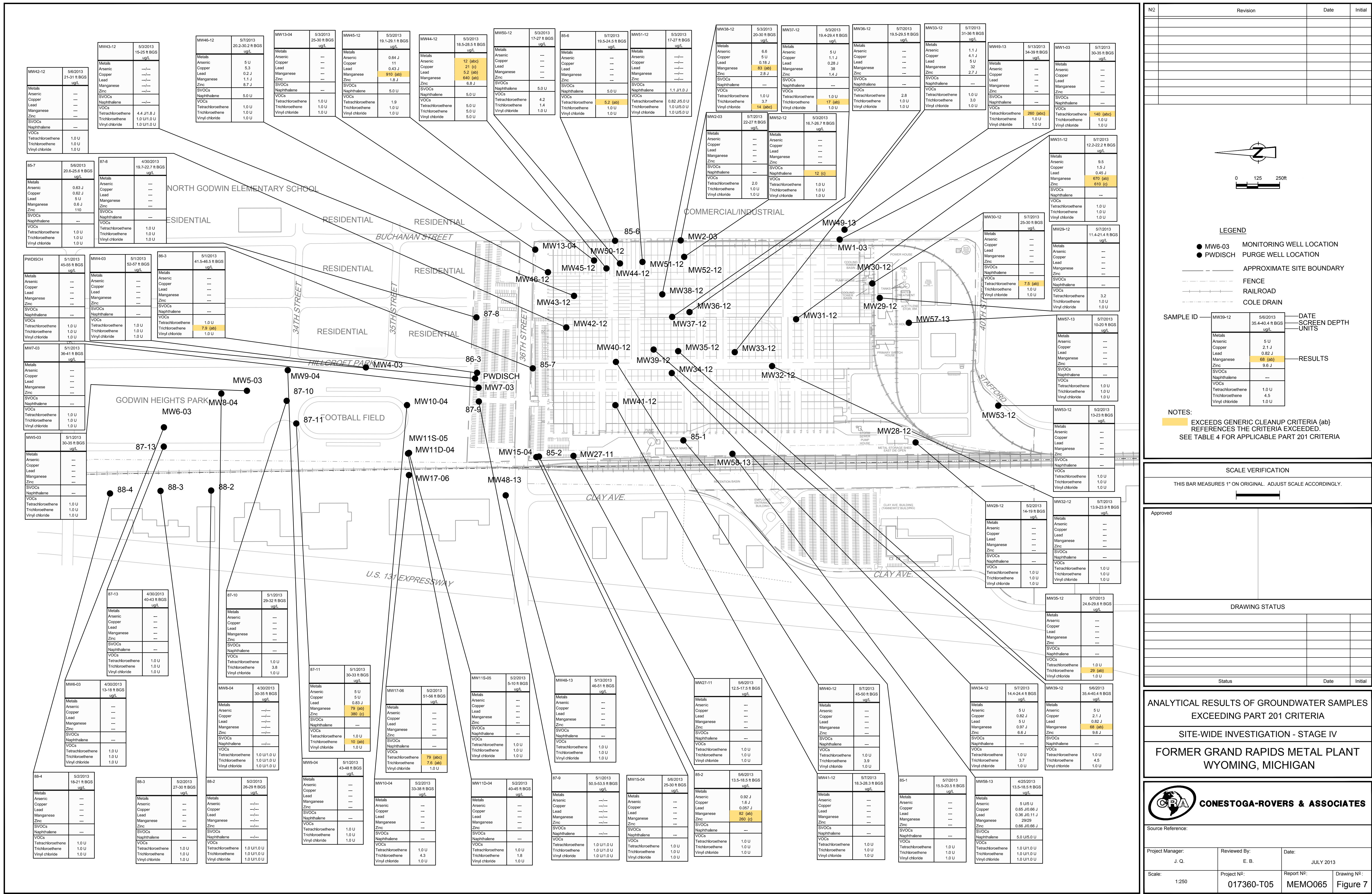
U - Not detected at the associated reporting limit.

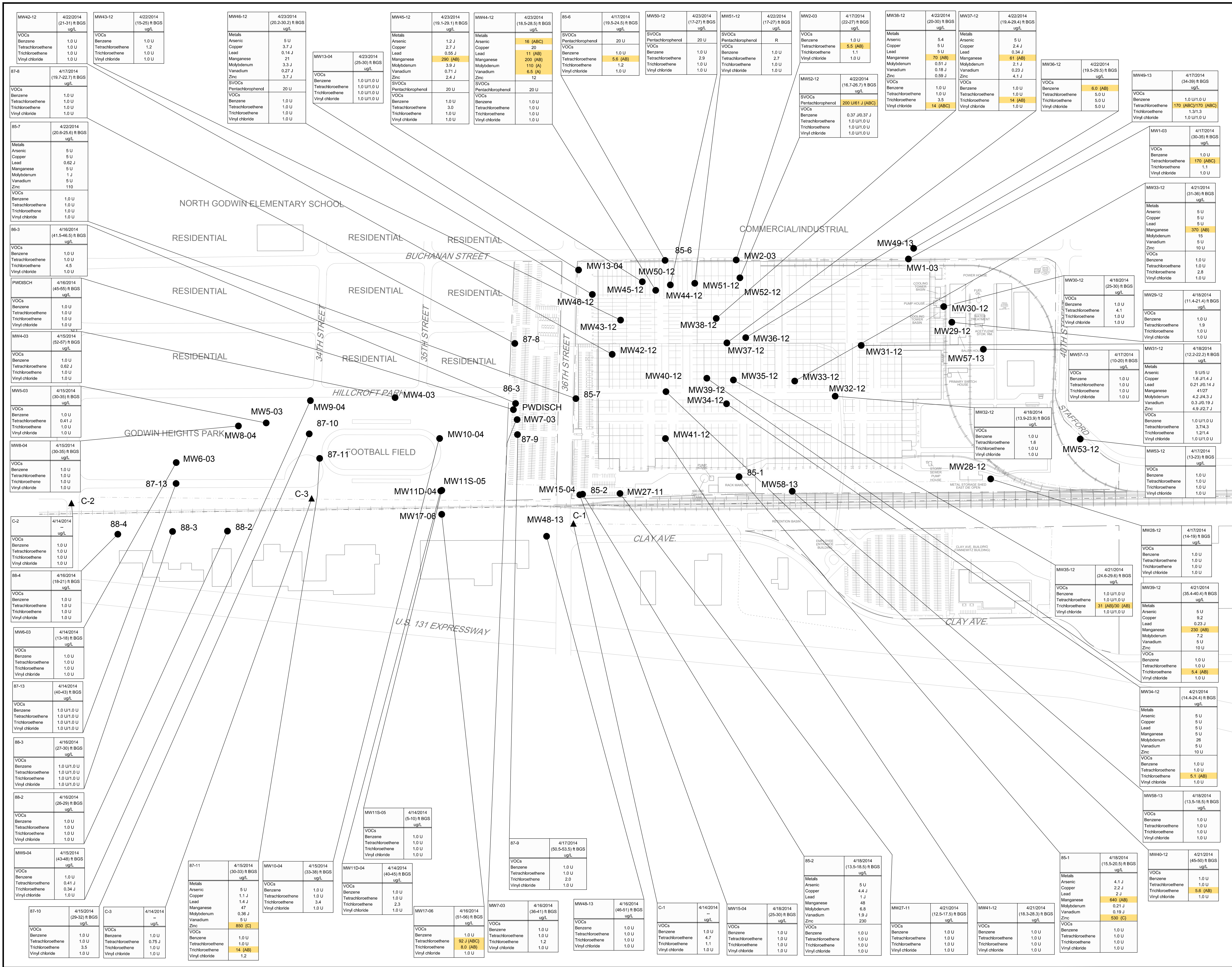
J - Estimated concentration.

TCL VOC - Target Compound List Volatile Organic Compounds

Attachment C

Historical Analytical Data Figures





No

Revision

Date

Initial

0

125

250ft

LEGEND

● MW6-03

● PWDISCH

▲ C-1

— APPROXIMATE SITE BOUNDARY

— FENCE

— RAILROAD

— COLE DRAIN

SAMPLE ID

MW52-12

4/22/2014

(16.7-26.7) ft BGS

ug/L

200 U61 J (AB)

0.37 J0.37 J

1.0 U/1.0 U

1.0 U/1.0 U

1.0 U/1.0 U

DATE

DEPTH

UNITS

RESULTS

NOTES:

EXCEEDS GENERIC CLEANUP CRITERIA (ab)

REFERENCES THE CRITERIA EXCEEDED.

SEE TABLE OF ANALYTICAL RESULTS FOR PART 201 CRITERIA

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

ANALYTICAL RESULTS COMPARED TO PART 201 CRITERIA

SPRING 2014 SEMI-ANNUAL MONITORING EVENT

FORMER GRAND RAPIDS METAL PLANT

WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:

Reviewed By:

Date:

Scale:

Project N°:

Report N°:

Drawing N°:

J. Q.

E. B.

MAY 2014

1:250

017360-T05

MEMO072

Figure 6

