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MEMORANDUM

TO: Darlene Stringer, MDEQ
Matt Gamble, MDEQ


REF. NO.: 017360-T05Y14

FROM: Jeni Quigley/ejh/70/Pwl.

DATE: February 25, 2014

CC: David Favero, RACER

RE: **Data Package - 2013 Site-Wide Investigation – Stage VI and
Fall 2013 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 soil and groundwater investigation activities at the former Grand Rapids Metal Plant property located at 300 36th Street SW in Wyoming, Michigan (Site). The scope of work (SOW) implemented was presented in the memorandum entitled *Proposed Sample Locations, 2013 Site-Wide Investigation – Stage VI, Former Grand Rapids Metal Plant, Wyoming Michigan*, submitted to the Michigan Department of Environmental Quality (MDEQ) on October 14, 2013. The protocols utilized during the implementation of the October 14, 2013 SOW were described in the Site-Wide Investigation Work Plan (Work Plan), submitted to the MDEQ on January 7, 2011. The samples were collected during the field investigation conducted between October 21, 2013 and November 20, 2013. At the approval of the MDEQ, the Fall 2013 Semi-Annual Groundwater Monitoring activities were completed in conjunction with Stage VI of the Site-Wide Investigation. Sampling was conducted 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. This memorandum (Memorandum) has been prepared to present the "Data Package" summarizing the data collected during Stage VI of the Site-Wide Investigation field activities and the results of the Fall 2013 Semi-Annual Groundwater Monitoring activities.

Soil and Groundwater Investigation Activities

Field activities included the advancement of soil borings and the collection of soil and groundwater samples for chemical analysis to further evaluate impacts associated with AOI 10.1 - Former Power House, AOI 27 - Bulk Unload Area, and AOI 40 - On-Site Fill Area (Column Zc, Rows 5.5 to 7), as discussed below.

The former Power House was constructed at the Site in 1970 and was located to the south of the former Main Manufacturing Building and adjacent to the east of the former Baler House. The Power House provided building heat and steam to the Site. The Power House was a multiple story building with a basement. Staining and sumps were noted in the basement of the Power House. No evidence of a release associated with the former Power House operations was observed or identified in the documents reviewed. The Power House was demolished in 2012 during Site redevelopment activities; however, the basement foundation floor and portions of the foundation walls remain in-place following Site grading activities. A soil sample collected from beneath the basement foundation from SB195-12 during the 2012 Site-Wide Investigation exhibited a concentration of benzo(a)pyrene above Part 201 Generic Non-Residential Cleanup Criteria (GNRCC). In order to further delineate contamination associated with the former Power House, three soil borings (SB274-13 through SB276-13) were advanced around the former Power House foundation footprint to a depth of 15 feet (ft.) below ground surface (bgs). Soil samples from each boring

were collected from the same depth as SB195-12 (11 to 13 ft. bgs). Soil samples were submitted to the analytical laboratory for analysis for polynuclear aromatic hydrocarbons (PAHs).

The Site formerly utilized the area to the west of Oil Stores for the bulk unloading of petroleum products. This area includes exterior load/unload fill ports and associated concrete pad, sump, and containment trench. The containment trench in this area was installed in 2004. During the installation of the containment trench, excavated materials were identified to have exceeded the toxicity characteristic leaching procedure (TCLP) limit for lead. Subsequently, investigations were conducted in this area between 2005 and 2013 to evaluate the nature and extent of impacts. The investigations in the bulk unload area have identified the presence of metals, PAHs, and polychlorinated biphenyls (PCBs) at concentrations above the Part 201 GNRCC in soil. In order to further delineate contamination associated with this area, seven soil borings (SB277-13, SB278-13, SB280-13, SB282-13, SB284-13, SB292-13, and SB294-13) were advanced to a depth of 10 ft. bgs. Soil samples were collected in 2-foot intervals for laboratory analysis of Target Compound List (TCL) volatile organic compounds (VOCs), PCBs, PAHs, and Site-specific Target Analyte List (TAL) metals. Additionally, in order to characterize the soil in this area for potential disposal, 12 soil borings (SB279-13, SB281-13, SB283-13, SB285-13, SB286-13, SB287-13, SB288-13, SB289-13, SB290-13, SB291-13, SB293-13, and SB301-13) were advanced in this area. Soil samples were collected in 4-foot intervals for laboratory analysis of waste characterization parameters.

During Site demolition and re-grading activities in June 2012, a black fill material containing slag, metal fragments, and concrete rubble was uncovered beneath the slab in the former Main Manufacturing Building at Column Zc, Rows 5.5 through 7. A sample of the fill material was collected from 0.25 to 1 ft. bgs. Several metals, PAHs, and trichloroethylene (TCE) were detected at concentrations above the Part 201 GNRCC in the soil sample collected. Subsequent soil samples collected during the 2012 and 2013 Site-Wide investigations also exhibited concentrations of metals, PAHs, and TCE above the Part 201 GNRCC. In order to further delineate contamination associated with the fill material, four soil borings (SB295-13, SB297-13, SB299-13, and SB300-13) were advanced to a depth of 10 ft. bgs and soil samples were collected in 2-foot intervals for laboratory analysis of TCL VOCs, PAHs, and Site-specific TAL metals. Soil boring SB300-13 was advanced to the water table and a temporary monitoring well (TW300-13) was installed in the annulus. A grab groundwater sample was collected from TW300-13 for laboratory analysis of TCL VOCs. Additionally, in order to characterize the soil in this area for potential disposal, two soil borings (SB296-13 and SB298-13) were advanced in this area. Soil samples were collected in 4-foot intervals for laboratory analysis of waste characterization parameters. Based on the results for the waste characterization sample collected from SB291-13, eight additional soil borings (SB302-13 to SB309-13) were advanced around SB291-13. Soil samples were collected in 4-foot intervals for laboratory analysis of TCLP lead.

Figure 1 presents the sample locations for the Site-Wide Investigation. Figure 2 presents the sample locations associated with the Bulk Unload Area and the Zc-5.5 Area. Figure 3 presents groundwater elevation contours based on depth to water measurements collected on October 28, 2013. Table 1 presents a sample summary. Stratigraphic soil boring logs and monitoring well construction details are included in Attachment A.

Fall 2013 Monitoring Activities

The scope of work (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 MW31-12, MW33-12, MW34-12, MW37-12, MW38-12, MW39-12, MW44-12, MW45-12, and MW46-12; the measurement of static groundwater levels in all monitoring wells; and the

measurement of light non-aqueous phase liquid (LNAPL) levels in select Site monitoring wells 85-6, MW44-12, MW45-12, MW46-12, MW50-12, MW51-12, and MW52-12.

A total of 63 groundwater samples, including quality assurance/quality control (QA/QC) samples, were collected from 56 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 October 28, 2013 and November 5, 2013 for analysis of TCL VOCs, TCL SVOCs, and/or TAL metals, for monitoring wells identified above. It should be noted that certain samples were analyzed for additional parameters as part of the on-going Site investigation; as discussed in the subsequent section. Table 1 presents a summary of the samples collected during the Fall 2013 semi-annual sampling event.

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 free product levels were measured relative to the top of each riser. Table 2 presents static water levels for April 26, 2013. 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 during the Fall 2013 semi-annual sampling event. Figure 1 presents the approximate groundwater flow direction for October 28, 2013.

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 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 a 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 groundwater stabilization, based on three consecutive similar readings, groundwater samples were collected.

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.

Analytical Results

Analytical results for the soil and 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. In addition, analytical results for polychlorinated biphenyls (PCBs) were evaluated against the High Occupancy Area Cleanup Level of 1 part per million (ppm) for bulk remediation waste (without further conditions) set forth in the Toxic Substances Control Act (TSCA). Analytical results for soil, groundwater and borehole water compared to the aforementioned criteria are presented in Tables 3, 5 and 6, respectively. Analytical results for soil samples collected for the purpose of waste characterization are presented in Table 4, with comparison to the Resource Conservation and Recovery Act criteria for the toxicity characteristic. Analytical results for borehole water samples collected are presented in Table 6. Analytical results for surface water samples collected are presented in Table 7.

Figure 4 presents analytical results for samples collected from the Former Power House. Figure 5 presents exceedances of the Part 201 Generic Residential and Non-Residential Cleanup Criteria in soil samples collected in the Bulk Unload and Zc-5.5 areas during the Stage VI Site-Wide Investigation. Figure 6 presents a summary of analytical results of borehole water samples. Figure 7 presents exceedances of the Part 201 Generic Residential and Non-Residential Cleanup Criteria in groundwater samples collected during the semi-annual monitoring event.

A Quality Assurance/Quality Control (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 B and Attachment C, respectively. Estimated concentrations are identified in Tables 3, 5, 6, and 7 include qualifications due to contamination in the laboratory method blank, surrogate recoveries outside the laboratory control limits, laboratory control sample recovery, matrix spike/matrix spike duplicate percent recovery and relative percent difference, and field duplicate variability. 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.

Conclusions and Recommendations

Analysis of soil samples collected from borings adjacent to the Former Power House (SB274-13 through SB276-13) indicate that the exceedance of Non-Residential Direct Contact Criteria identified in boring SB195-12 (see Figure 4) is limited to the area beneath the Former Power House foundation. The results of these sample analyses indicate that the contamination in this area has been delineated.

Soil samples collected in the Bulk Unload and Zc-5.5 Areas were analyzed for both investigation and waste characterization purposes. Results of the investigation samples collected from both areas indicate concentrations of TCE and various metals at various depths that exceed Part 201 GNRCC. However, the contamination in soil exceeding Part 201 GNRCC in both areas is considered to be delineated for the purpose of selection of a remedial action for these areas.

Results of the waste characterization samples indicate that the soil in the vicinity of SB291-13, if removed for disposal, should be handled and disposed as hazardous waste due to the exceedance of the RCRA toxicity characteristic criteria. Additional borings (SB302-13 through SB305-13) advanced 10 ft. in each direction from SB291-13 delineated the extent of the area requiring handling and disposal as hazardous waste.

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; however, a sheen was noted in MW50-12 and MW52-12. Sheen has historically been observed in monitoring wells in this area.

Analytical results for groundwater samples are generally consistent with concentrations and constituents identified during previous monitoring events; with the exception that concentrations of TCE in the former degreaser source area have increased from pre-Main Manufacturing Building slab removal concentrations (i.e., prior to 2012); however, detected concentrations only exceed the Part 201 Residential and Non-Residential Drinking Water Criteria.

PCE and cis-1,2-dichloroethene were detected in culvert samples, at concentrations consistent with historical monitoring events.

The extent of soil contamination in the former Power House, Bulk Unload Area, and Zc Area has been delineated to the comparison criteria and depths on-Site sufficiently to developed proposed remedial actions for these areas, in addition to the former Tar House Area. Based on the information collected to date, no further investigation is recommended for these areas at this time.

Please contact David Favero at (217) 741-6235 or Jeni Quigley at (269) 685-5181 with any questions regarding this Memorandum or the enclosed information.

List of Figures

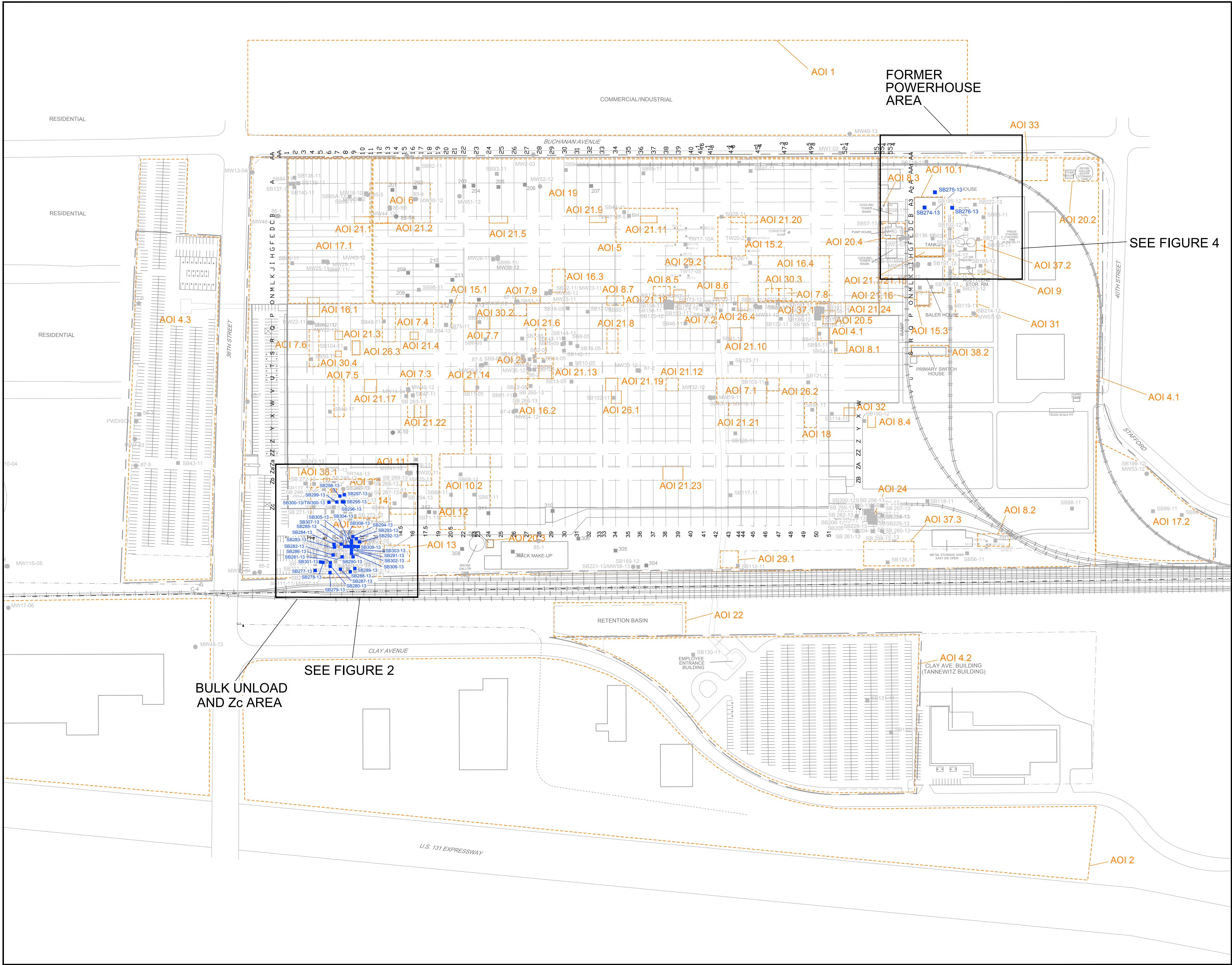
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List of Attachments

Attachment A	Stratigraphic Soil Boring Logs and Well Construction Details
Attachment B	Analytical Laboratory Data
Attachment C	Data Validation Memoranda



No	Revision	Date	Initial

LEGEND

- SB275-13 STAGE VI SITE-WIDE INVESTIGATION SOIL BORING LOCATIONS
- TW20-2 HISTORICAL SAMPLE LOCATION
- MW6-03 HISTORICAL MONITORING WELL LOCATION
- MW25-11 DESTROYED MONITORING WELL LOCATION
- APPROXIMATE SITE BOUNDARY
- FENCE
- RAILROAD
- COLE DRAIN
- APPROXIMATE AOI

KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved		
DRAWING STATUS		
Status	Date	Initial

SAMPLE LOCATIONS

SITE-WIDE INVESTIGATION - STAGE VI

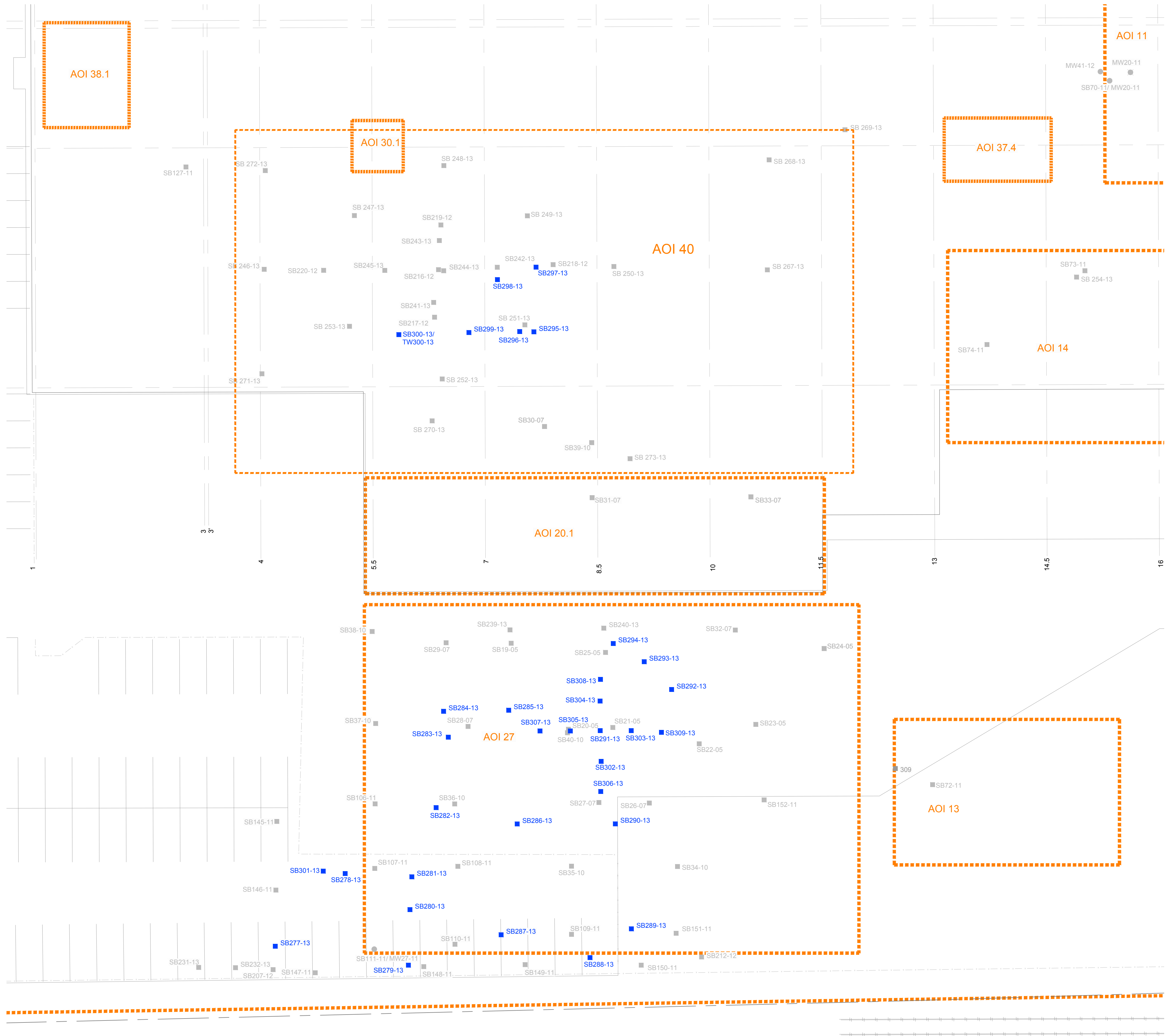
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:
J.Q.	E.B.	SEPTEMBER 2013

Scale:	Project N°:	Report N°:	Drawing N°:
1:140	017360-T05	MEMO070	Figure 1



No	Revision	Date	Initial

LEGEND

- SB295-13 STAGE VI SITE-WIDE INVESTIGATION SOIL BORING LOCATIONS
- TW20-2 HISTORICAL SAMPLE LOCATION
- MW6-03 HISTORICAL MONITORING WELL LOCATION
- MW25-11 DESTROYED MONITORING WELL LOCATION
- - - APPROXIMATE SITE BOUNDARY
- - - FENCE
- - - RAILROAD
- - - APPROXIMATE AOI

KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved		
DRAWING STATUS		
Status	Date	Initial

SAMPLE LOCATIONS
BULK UNLOAD AND Zc-5.5 AREAS

SITE-WIDE INVESTIGATION - STAGE VI

FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

 **CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:

Project Manager: J.Q.	Reviewed By: E.B.	Date: NOVEMBER 2013
Scale: 1:20	Project N°: 017360-T05	Report N°: MEMO070

Drawing N°: Figure 2

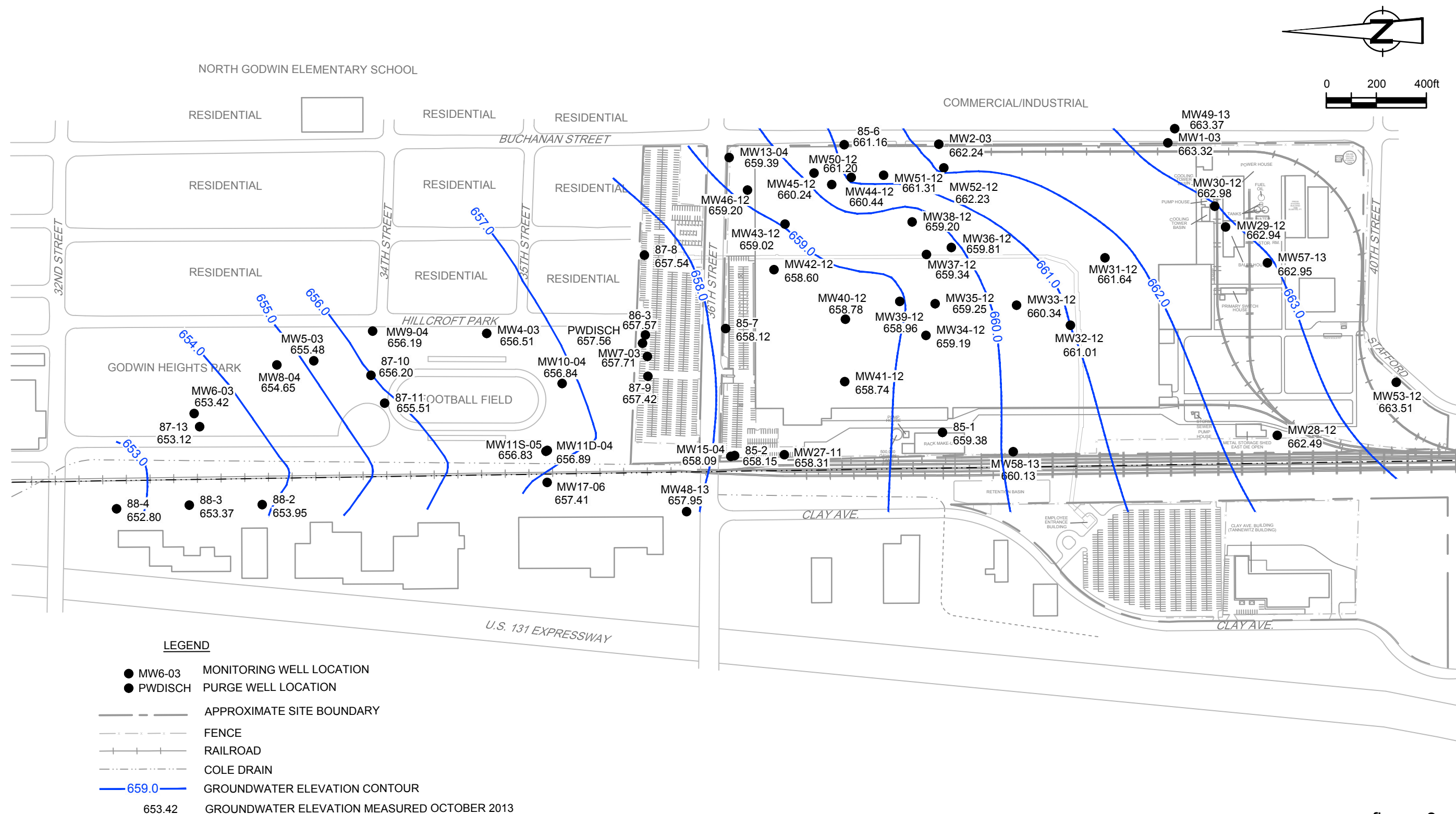
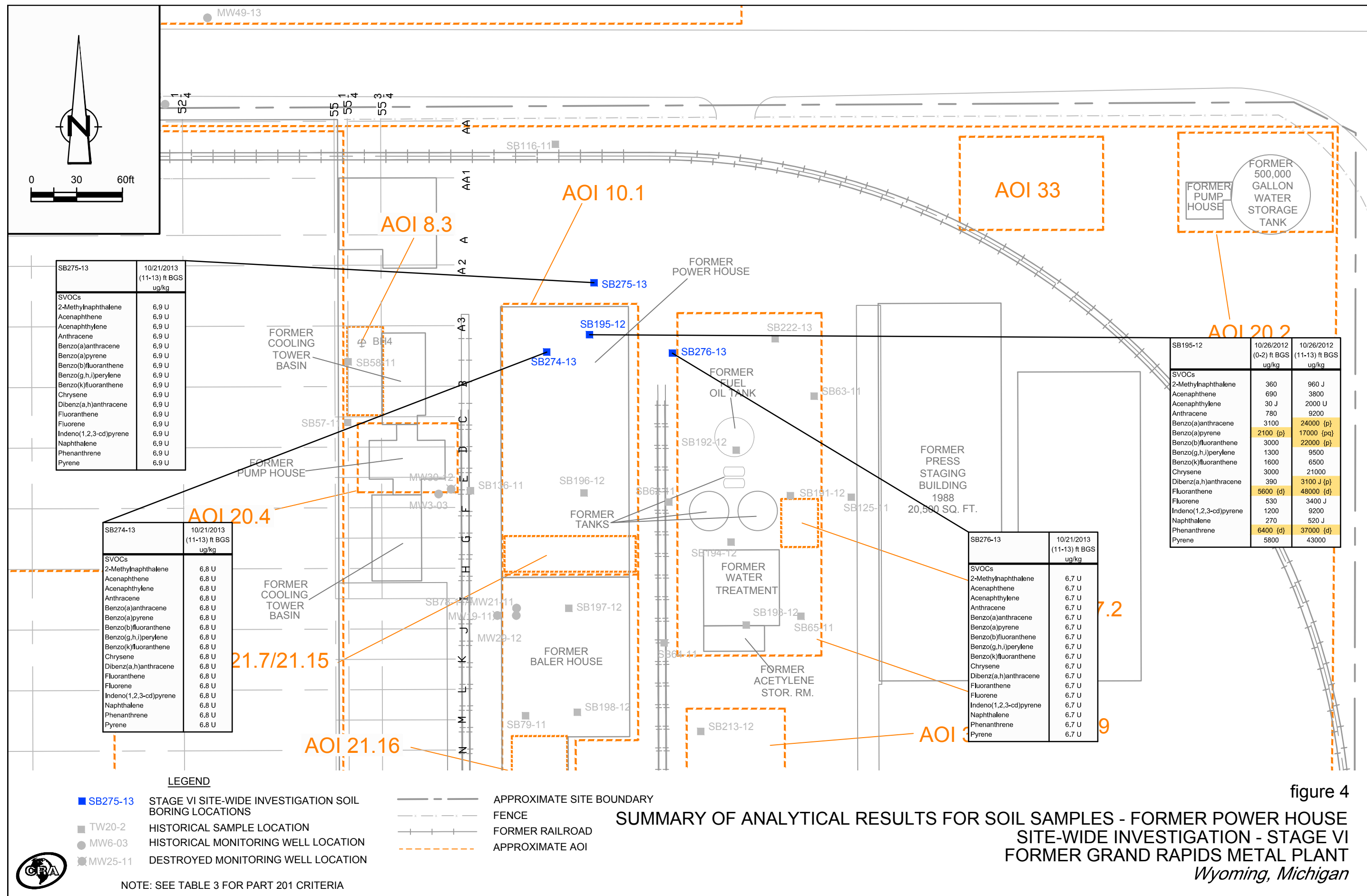


figure 3

GROUNDWATER CONTOURS - OCTOBER 2013
 SITE-WIDE INVESTIGATION - STAGE IV
 FORMER GRAND RAPIDS METAL PLANT
 Wyoming, Michigan





SB300-13	10/22/2013 (2-4) h BGS up/kg	10/22/2013 (4-6) h BGS up/kg	10/22/2013 (6-8) h BGS up/kg	10/22/2013 (8-10) h BGS up/kg
VOCs	320 (bc)	36 U	3600 (bcdf)	35 U
SVOCs				
Benz(a)pyrene	2700 (c)	1100	7.0 U	58
Phenanthrene	2700 (c)	1700	45	82
Metals				
Antimony	270 J	360 J	1600 J	52 J
Arsenic	2000 J	3000	10000 (bcd)	2300
Barium	23000	27000	76000	17000
Cadmium	180 J	180 J	48 J	50 J
Chromium	12000	5200	3700	7000
Cobalt	2400	2500	4000	2500
Copper	15000 J	8600 J	13000 J	7400 J
Lead	14000	14000	950	9100
Manganese	140000 J	110000 J	160000 J	160000 J
Molybdenum	2000 (b)	2000 (b)	1300	3200
Nickel	9500	7600	8300	6700
Selenium	2100 U	1900 U	670 (d)	350 J
Silver	180 J	180 J	12 J	9.5 J
Vanadium	7500 J	8400 J	6200 J	11000 J
Zinc	25000	77000	3800	16000

ASB27-13	10/23/2013 (2-4) h BGS up/kg	10/23/2013 (4-6) h BGS up/kg	10/23/2013 (6-8) h BGS up/kg	10/23/2013 (8-10) h BGS up/kg
VOCs				
Trichloroethene	2300 (bcaf)	910 (bc)	590 (bc)	3000 (bc9f)/3800 (bc9f)
SVOCs				
Benzo(a)pyrene	130	2600 (a)	130	500/480
Phenanthrene	180	2000	170	840/1000
Metals				
Antimony	379	240 J	130 J	28000 (bc)/13000 (bc)
Arsenic	4800	3300	1300	8100 (bc9f)/17000 (bc9f)
Barium	48000	37000	18000	200000/300000
Cadmium	210	170 J	97 J	12000 (bc)/5600 (d)
Chromium	9900	13000	5200	2000000 (bc9f)/2700000 (bc9f)
Cobalt	2000	2700	1000	52000 (bc9f)/20000 (bc9f)
Copper	17000	14000	9600	86000 (d)/92000 (d)
Lead	38000 J	24000 J	10000 J	230000 (bc9f)/540000 J (bc9f)
Manganese	110000	150000	110000	620000 (bc9f)/360000 (bc9f)
Molybdenum	1800 (b)	1800 (b)	480	330000 (bc9f)/530000 (bc9f)
Nickel	11000	12000	4100	1700000 (bc9f)/1900000 (bc9f)
Silver	380	310 J	380	570 (bc9f)/1000 (bc9f)
Selenium	89 J	68 J	52 J	5700 (bc9f)/10000 (bc9f)
Vanadium	8700	7800	5700	17000 J/21000 J (bc9f)
Zinc	22000	28000	17000	100000 (d)/58000 (d)

	SB73-11			
	■ SB 254-13			
SB295-13	10/23/2013 (2-4) ft BGS up/kg	10/23/2013 (4-6) ft BGS up/kg	10/23/2013 (6-8) ft BGS up/kg	10/23/2013 (8-10) ft BGS up/kg
VOCs				
Trichloroethene	990 (bc)	580 (bc)	1300 (bce)	700 (bc)
SVOCs				
Benzol(a)pyrene	400	100	2900 (a)	650
Phenanthrene	400	82	3800 (d)	1300
Metals				
Antimony	1200	690 J	460	700
Arsenic	3500 J	4200	6200 (bd)	800
Barium	4600	37000	5900	17000
Cadmium	820	430 J	66 J	490
Chromium	100000 (bcd)	55000 (abcd)	7500	10000
Cobalt	8200 (bc)	5400	3100	930
Copper	50000	33000	11000	6400
Lead	52000 J	14000 J	14000 J	52000 J
Manganese	350000	270000	30000	54000
Molybdenum	20000 (bc)	39000 (bc)	1200	12000 (bc)

Silver	900	280 J	35 J	2000 (a)
Vanadium	6900	6600	5400	1000
Zinc	65000	37000	10000	58000

2013 BGS kg	10/22/2013 (8-10) lb BGS ug/kg
80 U	66 U
420	13 U
210	13 U
400 J	370 J
2900	2700 J
59000	210000
190 J	140 J
7100	5000
2000 J	940 J
8700 J	6100
5400	220 J
130000 J	120000
00 J (tr)	1600 (tr)
5300	2900 J
5500 J (g)	2000 (g)
910 J	3100 U
13000 J	4600 J
17000	6100

	(2012-2013)	(2013-2014)	(2014-2015)	(2015-2016)	(2016-2017)
Barium	31000 J	11000 J	11000 J	3900 J	5800 J(1500 J)
Cadmium	560 J	500 J	27 J		36 J(6 J)
Chromium	490000 (bcdm)	6600	5200	10000/7000	
Cobalt	19000 (bcd)	1500	1600	2800/2500	
Copper	80000 (d)	2800	2000	4300/5000	
Lead	50000	4200	1900	2400/2200	
Manganese	150000 (j bcd)	37000 J	29000 J	86000 J(74000 J)	
Polyethylenum	150000 (bcd)	8500	150 J	5410 J(310 J)	
Nickel	1400000 (bcd)	17000	3000	4100/3600	
Selenium	280 J	170 J	170 J	470 J(400 J)	
Silver	3000 J	22 J	100 J	800 J(410 J)	
Vanadium	1900 J	8600	800		
Zinc	41000	10000	6300	9800/9900	

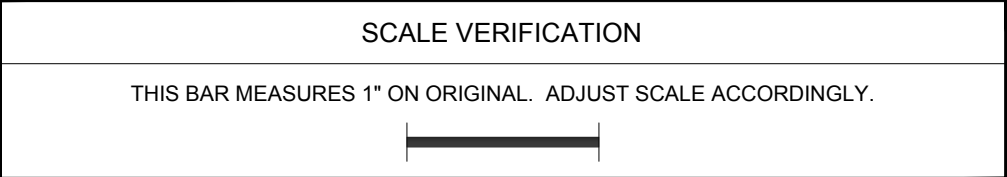
SB231-13

Phenanthrene	540	6.9 U	6.8 U		7.1 U
Metallic	7200 [bc]	1110	24 J		1800 U
Antimony	3900	1100	870		550 J
Arsenic	160000 J	13000 J	5600 J		5500 J
Barium	2200	52	50		730 U
Cadmium	63000 [bcd]	8600	2600		7600
Chromium	10000	1500	1500		2200
Cobalt	200000 [d]	7700	3800		7600
Copper	300000	6700	3300		2000
Lead	310000 J	35000 J	28000 J		55000 J
Manganese	13000 [bcd]	490	42 J		150 J
Molybdenum	45000	4200	3800		7400
Nickel	440 J [d]	240 J	190		340 J
Selenium	660 J	80 J	52 J		1800 U
Silver	11000	10000	7100		8600
Vanadium	190000 [d]	15000	6500		11000
Zinc					

SB291-13	10/21/2013 (0-2) R BGS ug/kg	10/21/2013 (2-4) R BGS ug/kg	10/21/2013 (4-6) R BGS ug/kg	10/21/2013 (6-8) R BGS ug/kg	10/21/2013 (8-10) R BGS ug/kg
	VOCs				
Trichloroethene	480 [bc]	410 [bc]	1400 [bc]	2000 [bcdf]	35 U

SB291-13	10/21/2013 (0-2) ft BGS	10/21/2013 (2-4) ft BGS	10/21/2013 (4-6) ft BGS	10/21/2013 (6-8) ft BGS	10/21/2013 (8-10) ft BGS
VOCs	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Trichloroethene	480 (bc)	410 (bc)	1400 (bae)	2000 (bcdf)	35 U

SB290-13	10/21/2013 (0-2) ft BGS	10/21/2013 (2-4) ft BGS	10/21/2013 (4-6) ft BGS	10/21/2013 (6-8) ft BGS	10/21/2013 (8-10) ft BGS	10/21/2013 (12-14) ft BGS
VOCs	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Trichloroethene	34 U	42 U	33 U	34 U/34 U	660 U	32 U



Approved		
DRAWING STATUS		
Status	Date	Initial

ANALYTICAL RESULTS OF SOIL SAMPLES EXCEEDING PART 201 CRITERIA
SITE-WIDE INVESTIGATION - STAGE VI
FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN



Source Reference:			
Project Manager: J.Q.		Reviewed By: E.B.	
Date: FEBRUARY 2014			
Scale: 1:20	Project N°: 017360-T05	Report N°: MEMO070	Drawing N°: Figure 5

TABLE 1
SAMPLE SUMMARY
SITE-WIDE INVESTIGATION DATA PACKAGE - STAGE VI AND FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING
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</u> <u>(ft bas)</u>	<u>QC Sample</u>	<u>Analysis</u>
10/21/2013	SB-017360-102113-MR-028	Trip Blank	--	-- to --		VOCs
10/21/2013	SO-017360-102113-MR-001	SB274-13	Soil	11 to 13		PAHs
10/21/2013	SO-017360-102113-MR-003	SB275-13	Soil	11 to 13		PAHs
10/21/2013	SO-017360-102113-MR-002	SB276-13	Soil	11 to 13		PAHs
10/22/2013	SO-017360-102213-MR-040	SB277-13	Soil	0 to 2		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-041	SB277-13	Soil	2 to 4		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-042	SB277-13	Soil	4 to 6		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-043	SB277-13	Soil	6 to 8		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-044	SB277-13	Soil	6 to 8	Duplicate	VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-045	SB277-13	Soil	8 to 10	MS/MSD	VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-047	SB278-13	Soil	4 to 6		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-048	SB278-13	Soil	6 to 8		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-049	SB278-13	Soil	8 to 10		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-054	SB279-13	Soil	0 to 4		TCLP-Metals, TCLP-VOCs
10/22/2013	SO-017360-102213-MR-051	SB280-13	Soil	4 to 6		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-052	SB280-13	Soil	6 to 8		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-053	SB280-13	Soil	8 to 10		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-050	SB281-13	Soil	0 to 4		TCLP-Metals
10/22/2013	SO-017360-102213-MR-036	SB282-13	Soil	4 to 6		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-037	SB282-13	Soil	6 to 8		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-038	SB282-13	Soil	6 to 8	Duplicate	VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-039	SB282-13	Soil	8 to 10	MS/MSD	VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-034	SB283-13	Soil	0 to 4		TCLP-Metals ⁽¹⁾ , TCLP-VOCs ⁽¹⁾
10/22/2013	SO-017360-102213-MR-030	SB284-13	Soil	4 to 6		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-031	SB284-13	Soil	4 to 6	Duplicate	VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-032	SB284-13	Soil	6 to 8	MS/MSD	VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-033	SB284-13	Soil	8 to 10		VOCs, PAHs, Metals, PCBs
10/22/2013	SO-017360-102213-MR-029	SB285-13	Soil	0 to 4		TCLP-Metals, TCLP-VOCs
10/22/2013	SO-017360-102213-MR-035	SB286-13	Soil	0 to 4		TCLP-Metals, TCLP-VOCs
10/22/2013	SO-017360-102213-MR-055	SB287-13	Soil	0 to 4		TCLP-Metals, TCLP-VOCs
10/22/2013	SO-017360-102213-MR-057	SB288-13	Soil	0 to 4		TCLP-Metals, TCLP-VOCs
10/22/2013	SO-017360-102213-MR-056	SB289-13	Soil	0 to 4		TCLP-Metals, TCLP-VOCs
10/21/2013	SB-017360-102113-MR-004	SB290-13	Soil	0 to 4		TCLP-Metals, TCLP-SVOCs
10/21/2013	SB-017360-102113-MR-005	SB290-13	Soil	0 to 2		VOCs
10/21/2013	SB-017360-102113-MR-006	SB290-13	Soil	2 to 4		VOCs
10/21/2013	SB-017360-102113-MR-007	SB290-13	Soil	4 to 6		VOCs
10/21/2013	SB-017360-102113-MR-008	SB290-13	Soil	6 to 8		VOCs
10/21/2013	SB-017360-102113-MR-010	SB290-13	Soil	6 to 8	Duplicate	VOCs
10/21/2013	SB-017360-102113-MR-009	SB290-13	Soil	8 to 10		VOCs
10/21/2013	SB-017360-102113-MR-011	SB290-13	Soil	12 to 14		VOCs
10/21/2013	SB-017360-102113-MR-012	SB291-13	Soil	0 to 4		TCLP-Metals, TCLP-VOCs, TCLP-SVOCs
10/21/2013	SB-017360-102113-MR-013	SB291-13	Soil	0 to 2		VOCs
10/21/2013	SB-017360-102113-MR-014	SB291-13	Soil	2 to 4		VOCs
10/21/2013	SB-017360-102113-MR-015	SB291-13	Soil	4 to 6	MS/MSD	VOCs
10/21/2013	SB-017360-102113-MR-016	SB291-13	Soil	6 to 8		VOCs
10/21/2013	SB-017360-102113-MR-017	SB291-13	Soil	8 to 10		VOCs
10/21/2013	SO-017360-102113-MR-018	SB292-13	Soil	2 to 4		VOCs, PAHs, Metals, PCBs
10/21/2013	SO-017360-102113-MR-019	SB292-13	Soil	4 to 6		VOCs, PAHs, Metals, PCBs
10/21/2013	SO-017360-102113-MR-020	SB292-13	Soil	6 to 8		VOCs, PAHs, Metals, PCBs
10/21/2013	SO-017360-102113-MR-021	SB292-13	Soil	8 to 10		VOCs, PAHs, Metals, PCBs
10/21/2013	SO-017360-102113-MR-022	SB293-13	Soil	0 to 4		TCLP-Metals ⁽¹⁾ , TCLP-VOCs ⁽¹⁾
10/21/2013	SO-017360-102113-MR-023	SB294-13	Soil	2 to 4		VOCs, PAHs, Metals, PCBs
10/21/2013	SO-017360-102113-MR-024	SB294-13	Soil	4 to 6		VOCs, PAHs, Metals, PCBs
10/21/2013	SO-017360-102113-MR-025	SB294-13	Soil	6 to 8		VOCs, PAHs, Metals, PCBs
10/21/2013	SO-017360-102113-MR-026	SB294-13	Soil	8 to 10		VOCs, PAHs, Metals, PCBs
10/21/2013	SO-017360-102113-MR-027	SB294-13	Soil	8 to 10	Duplicate	VOCs, PAHs, Metals, PCBs
10/23/2013	SO-017360-102313-MR-068	SB295-13	Soil	2 to 4		VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-069	SB295-13	Soil	4 to 6		VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-070	SB295-13	Soil	6 to 8		VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-071	SB295-13	Soil	8 to 10		VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-067	SB296-13	Soil	0 to 4		TCLP-Metals, TCLP-VOCs
10/23/2013	SO-017360-102313-MR-073	SB297-13	Soil	2 to 4		VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-074	SB297-13	Soil	4 to 6		VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-075	SB297-13	Soil	6 to 8		VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-076	SB297-13	Soil	8 to 10		VOCs, PAHs, Metals

TABLE 1
SAMPLE SUMMARY
SITE-WIDE INVESTIGATION DATA PACKAGE - STAGE VI AND FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING
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</u> <u>(ft bas)</u>		<u>QC Sample</u>	<u>Analysis</u>
10/23/2013	SO-017360-102313-MR-077	SB297-13	Soil	8	to 10	Duplicate	VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-072	SB298-13	Soil	0	to 4		TCLP-Metals, TCLP-VOCs, TCLP-SVOCs
10/23/2013	SO-017360-102313-MR-062	SB299-13	Soil	2	to 4		VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-063	SB299-13	Soil	4	to 6		VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-064	SB299-13	Soil	4	to 6	Duplicate	VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-065	SB299-13	Soil	6	to 8		VOCs, PAHs, Metals
10/23/2013	SO-017360-102313-MR-066	SB299-13	Soil	8	to 10	MS/MSD	VOCs, PAHs, Metals
10/22/2013	SO-017360-102213-MR-058	SB300-13	Soil	2	to 4		VOCs, PAHs, Metals
10/22/2013	SO-017360-102213-MR-059	SB300-13	Soil	4	to 6		VOCs, PAHs, Metals
10/22/2013	SO-017360-102213-MR-060	SB300-13	Soil	6	to 8		VOCs, PAHs, Metals
10/22/2013	SO-017360-102213-MR-061	SB300-13	Soil	8	to 10		VOCs, PAHs, Metals
10/22/2013	SO-017360-102213-MR-046	SB301-13	Soil	0	to 4		TCLP-VOCs ⁽¹⁾ , TCLP-Metals ⁽¹⁾
11/20/2013	SO-17360-112013-MR-001	SB303-13	Soil	0	to 4		TCLP-Lead
11/20/2013	SO-17360-112013-MR-002	SB302-13	Soil	0	to 4		TCLP-Lead
11/20/2013	SO-17360-112013-MR-003	SB305-13	Soil	0	to 4		TCLP-Lead
11/20/2013	SO-17360-112013-MR-004	SB304-13	Soil	0	to 4		TCLP-Lead
11/20/2013	SO-17360-112013-MR-005	SB308-13	Soil	0	to 4		TCLP-Lead ⁽¹⁾
11/20/2013	SO-17360-112013-MR-006	SB307-13	Soil	0	to 4		TCLP-Lead ⁽¹⁾
11/20/2013	SO-17360-112013-MR-007	SB306-13	Soil	0	to 4		TCLP-Lead ⁽¹⁾
11/20/2013	SO-17360-112013-MR-008	SB309-13	Soil	0	to 4		TCLP-Lead ⁽¹⁾
10/23/2013	TB-017360-102313-MR-080	Trip Blank	--	--	--		VOCs
10/23/2013	TB-017360-102313-MR-081	Trip Blank	--	--	--		VOCs
10/23/2013	GW-017360-102313-MR-078	TW300-13	Groundwater	--	--	MS/MSD	VOCs
10/23/2013	GW-017360-102313-MR-079	TW300-13	Groundwater	--	--	Duplicate	VOCs
10/28/2013	SW-17360-102813-EB-001	C-3	Groundwater	--	--		VOCs
10/28/2013	SW-17360-102813-EB-002	C-2	Groundwater	--	--		VOCs
10/28/2013	WG-17360-102813-MR-003	MW6-03	Groundwater	13	to 18		VOCs
10/28/2013	WG-17360-102813-MR-004	87-13	Groundwater	40	to 43		VOCs
10/28/2013	WG-17360-102813-MR-005	MW5-03	Groundwater	30	to 35	MS/MSD	VOCs
10/28/2013	WG-17360-102813-MR-006	MW8-04	Groundwater	30	to 35		VOCs
10/28/2013	WG-17360-102813-MR-007	MW8-04	Groundwater	30	to 35	Duplicate	VOCs
10/29/2013	SW-17360-102913-MR-024	C-1	Groundwater	--	--		VOCs
10/29/2013	WG-17360-102913-MR-008	88-4	Groundwater	18	to 21		VOCs
10/29/2013	WG-17360-102913-MR-009	88-3	Groundwater	27	to 30		VOCs
10/29/2013	WG-17360-102913-MR-010	88-2	Groundwater	26	to 29		VOCs
10/29/2013	WG-17360-102913-MR-011	MW17-06	Groundwater	51	to 56		VOCs
10/29/2013	WG-17360-102913-MR-012	MW48-13	Groundwater	46	to 51	MS/MSD	VOCs
10/29/2013	WG-17360-102913-MR-013	MW4-03	Groundwater	52	to 57		VOCs
10/29/2013	WG-17360-102913-MR-014	MW9-04	Groundwater	43	to 48		VOCs
10/30/2013	WG-17360-103013-MR-015	87-10	Groundwater	29	to 32		VOCs
10/30/2013	WG-17360-103013-MR-016	87-11	Groundwater	30	to 33		VOCs, Metals
10/30/2013	WG-17360-103013-MR-017	87-11	Groundwater	30	to 33	Duplicate	VOCs, Metals
10/30/2013	WG-17360-103013-MR-018	MW11D-04	Groundwater	40	to 45		VOCs
10/30/2013	WG-17360-103013-MR-019	MW11S-05	Groundwater	5	to 10		VOCs
10/30/2013	WG-17360-103013-MR-020	MW10-04	Groundwater	33	to 38		VOCs
10/30/2013	WG-17360-103013-MR-021	87-9	Groundwater	50.5	to 53.5		VOCs
10/30/2013	WG-17360-103013-MR-022	MW7-03	Groundwater	36	to 41		VOCs
10/30/2013	WG-17360-103013-MR-023	PWDISCH	Groundwater	45	to 55		VOCs
10/31/2013	WG-17360-103113-MR-025	86-3	Groundwater	41.5	to 46.5		VOCs
10/31/2013	WG-17360-103113-MR-026	87-8	Groundwater	19.7	to 22.7		VOCs
10/31/2013	WG-17360-103113-MR-027	87-8	Groundwater	19.7	to 22.7	Duplicate	VOCs
10/31/2013	WG-17360-103113-MR-028	MW28-12	Groundwater	14	to 19	MS/MSD	VOCs
10/31/2013	WG-17360-103113-MR-029	MW53-12	Groundwater	13	to 23		VOCs
10/31/2013	WG-17360-103113-MR-030	MW1-03	Groundwater	30	to 35		VOCs
10/31/2013	WG-17360-103113-MR-031	MW49-13	Groundwater	34	to 39		VOCs
10/31/2013	WG-17360-103113-MR-032	MW29-12	Groundwater	11.4	to 21.4		VOCs
10/31/2013	WG-17360-103113-MR-033	MW30-12	Groundwater	25	to 30		VOCs
11/1/2013	WG-17360-110113-EB-034	85-2	Groundwater	13.5	to 18.5		VOCs, Metals
11/1/2013	WG-17360-110113-EB-035	MW15-04	Groundwater	25	to 30		VOCs
11/1/2013	WG-17360-110113-EB-036	MW27-11	Groundwater	12.5	to 17.5		VOCs
11/1/2013	WG-17360-110113-EB-037	85-1	Groundwater	15.5	to 20.5		VOCs
11/1/2013	WG-17360-110113-EB-038	MW58-13	Groundwater	13.5	to 18.5		VOCs
11/1/2013	WG-17360-110113-EB-039	MW41-12	Groundwater	18.3	to 28.3		VOCs
11/1/2013	WG-17360-110113-EB-040	MW41-12	Groundwater	18.3	to 28.3	Duplicate	VOCs
11/4/2013	WG-17360-110413-EB-047	85-7	Groundwater	20.6	to 25.6		VOCs, Metals
11/4/2013	WG-17360-110413-EB-048	MW42-12	Groundwater	21	to 31		VOCs
11/4/2013	WG-17360-110413-EB-049	MW43-12	Groundwater	15	to 25		VOCs
11/4/2013	WG-17360-110413-EB-050	MW40-12	Groundwater	45	to 50		VOCs

TABLE 1
SAMPLE SUMMARY
SITE-WIDE INVESTIGATION DATA PACKAGE - STAGE VI AND FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING
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</u> <u>(ft bas)</u>	<u>QC Sample</u>	<u>Analysis</u>
11/4/2013	WG-17360-110413-EB-051	MW39-12	Groundwater	35.4 to 40.4		VOCs, Metals
11/4/2013	WG-17360-110413-EB-052	MW37-12	Groundwater	19.4 to 29.4		VOCs, Metals
11/4/2013	WG-17360-110413-EB-053	MW36-12	Groundwater	19.5 to 29.5		VOCs
11/4/2013	WG-17360-110413-MR-041	MW57-13	Groundwater	10 to 20	MS/MSD	VOCs
11/4/2013	WG-17360-110413-MR-042	MW31-12	Groundwater	12.2 to 22.2		VOCs, Metals
11/4/2013	WG-17360-110413-MR-043	MW33-12	Groundwater	31 to 36		VOCs, Metals
11/4/2013	WG-17360-110413-MR-044	MW32-12	Groundwater	13.9 to 23.9		VOCs
11/4/2013	WG-17360-110413-MR-045	MW35-12	Groundwater	24.6 to 29.6		VOCs
11/4/2013	WG-17360-110413-MR-046	MW34-12	Groundwater	14.4 to 24.4		VOCs, Metals
11/5/2013	WG-17360-110513-EB-054	MW52-12	Groundwater	16.7 to 26.7	MS/MSD	VOCs and SVOCs
11/5/2013	WG-17360-110513-EB-055	MW52-12	Groundwater	16.7 to 26.7	Duplicate	SVOCs
11/5/2013	WG-17360-110513-EB-056	MW51-12	Groundwater	17 to 27		VOCs and SVOCs
11/5/2013	WG-17360-110513-EB-062	85-6	Groundwater	19.5 to 24.5		VOCs and SVOCs
11/5/2013	WG-17360-110513-EB-063	MW2-03	Groundwater	22 to 27		VOCs
11/5/2013	WG-17360-110513-EB-064	MW2-03	Groundwater	22 to 27	Duplicate	VOCs
11/5/2013	WG-17360-110513-EB-065	MW13-04	Groundwater	25 to 30		VOCs
11/5/2013	WG-17360-110513-EB-066	MW46-12	Groundwater	20.2 to 30.2		VOCs, SVOCs, and Metals
11/5/2013	WG-17360-110513-MR-058	MW44-12	Groundwater	18.5 to 28.5		VOCs, SVOCs, and Metals
11/5/2013	WG-17360-110513-MR-059	MW50-12	Groundwater	17 to 27		VOCs and SVOCs
11/5/2013	WG-17360-110513-MR-060	MW45-12	Groundwater	19.1 to 29.1		VOCs, SVOCs, and Metals
11/5/2013	WG-17360-110513-MR-061	MW38-12	Groundwater	20 to 30		VOCs, Metals
11/5/2013	WG-17360-110513-MR-057	MW38-12	Groundwater	20 to 30	Duplicate	VOCs, Metals

Notes:

⁽¹⁾ Samples collected for this analysis were submitted the analytical laboratory on "hold", but ultimately not analyzed.

VOCs - Target Compound List Volatile Organic Compounds

SVOCs - Target Compound List Semi-Volatile Organic Compounds

PAHs - Polycyclic Aromatic Hydrocarbons

Metals - Antimony, Arsenic, Barium, Beryllium, Cadmium, total Chromium, Cobalt, Copper,

Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc

PCBs - Polychlorinated Biphenyls

TCLP - Toxicity Characteristic Leaching Procedure

QC - Quality Control

MS/MSD - Matrix Spike /Matrix Spike Duplicate

TABLE 2

**GROUNDWATER ELEVATION DATA
SITE-WIDE INVESTIGATION DATA PACKAGE - STAGE IV
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<u>Location</u>	<u>LNAPL Thickness (ft.)</u>	<u>Groundwater Elevation</u> ^(2, 3)	<u>Depth Below Top of Riser</u>
85-1		659.38	15.65
85-2		658.15	13.48
85-6	(1)	661.16	18.43
85-7		658.12	19.72
86-3		657.57	18.23
87-8		657.54	19.24
87-9		657.42	15.71
87-10		656.20	11.56
87-11		655.51	10.74
87-13		653.12	10.45
88-2		653.95	11.85
88-3		653.37	10.99
88-4		652.80	8.40
MW1-03		663.32	15.36
MW2-03		662.24	18.36
MW4-03		656.51	22.61
MW5-03		655.48	20.34
MW6-03		653.42	11.97
MW7-03		657.71	17.08
MW8-04		654.65	19.67
MW9-04		656.19	22.10
MW10-04		656.84	9.45
MW11D-04		656.89	6.38
MW11S-05		656.83	6.75
MW13-04		659.39	18.87
MW15-04		658.09	13.60
MW17-06		657.41	7.30
MW27-11		658.31	13.00
MW28-12		662.49	14.05
MW29-12		662.94	12.75
MW30-12		662.98	13.68
MW31-12		661.64	13.78
MW32-12		661.01	14.76
MW33-12		660.34	18.37
MW34-12		659.19	15.39
MW35-12		659.25	17.81
MW36-12		659.81	20.18
MW37-12		659.34	20.96
MW38-12		659.20	21.31
MW39-12		658.96	20.22
MW40-12		658.78	22.48
MW41-12		658.74	19.13
MW42-12		658.60	22.34
MW43-12		659.02	16.70
MW44-12	(1)	660.44	19.05
MW45-12	(1)	660.24	18.59
MW46-12	(1)	659.20	21.05
MW48-13		657.95	13.15
MW49-13		663.37	15.41
MW50-12	(1)	661.20	18.91
MW51-12	(1)	661.31	19.13
MW52-12	(1)	662.23	17.46
MW53-12		663.51	13.73
MW57-13		662.95	14.53
MW58-13		660.13	15.10
PWDISCH		657.56	20.23

Notes:

⁽¹⁾ No measurable LNAPL was identified in the wells. A sheen was noted in MW50-12 and MW52-12.

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

⁽³⁾ Groundwater measurements collected October 28, 2013.

TABLE 3

**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾								
Sample Identification	Statewide	Residential	Non-Residential	Groundwater	Residential	Non-Residential	Residential	Non-Residential	
Sample Date	Default	Drinking	Drinking	Surface Water	Soil Volatilization	Soil Volatilization	Infinite Source	Infinite Source	
Sample Depth	Background	Water	Water	Interface	to Indoor Air	to Indoor Air	Volatile Soil	Volatile Soil	
Sample Type	Level	Protection	Protection	Protection ⁽²⁾	Inhalation	Inhalation	Inhalation	Inhalation	
	a	b	c	d	e	f	g	h	
Volatile Organic Compounds (VOCs)	Units								
1,1,1-Trichloroethane	µg/kg	NA	4000	4000	1800	250000	460000	3800000	4500000
1,1,2,2-Tetrachloroethane	µg/kg	NA	170	700	1600	4300	23000	10000	34000
1,1,2-Trichloroethane	µg/kg	NA	100	100	6600	4600	24000	17000	57000
1,1-Dichloroethane	µg/kg	NA	18000	50000	15000	230000	430000	2100000	2500000
1,1-Dichloroethene	µg/kg	NA	140	140	2600	62	330	1100	3700
1,2,4-Trichlorobenzene	µg/kg	NA	4200	4200	5900	9600000	80100000	28000000	34000000
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NA	10	10	ID	220	1200	260	900
1,2-Dibromoethane ⁽⁵⁾	µg/kg	NA	20	20	110	670	3600	1700	5800
1,2-Dichlorobenzene	µg/kg	NA	14000	14000	280	11000000	20000000	39000000	46000000
1,2-Dichloroethane	µg/kg	NA	100	100	7200	2100	11000	6200	21000
1,2-Dichloropropane	µg/kg	NA	100	100	4600	4000	7400	25000	30000
1,3-Dichlorobenzene	µg/kg	NA	170	480	680	26000	48000	79000	94000
1,4-Dichlorobenzene	µg/kg	NA	1700	1700	360	19000	100000	77000	260000
2-Butanone ⁽⁶⁾	µg/kg	NA	260000	760000	44000	54000000	99000000	29000000	35000000
2-Hexanone	µg/kg	NA	20000	58000	ID	990000	1800000	1100000	1300000
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	NA	36000	100000	ID	37000000	69000000	45000000	53000000
Acetone	µg/kg	NA	15000	42000	34000	290000000	540000000	130000000	160000000
Benzene	µg/kg	NA	100	100	4000	1600	8400	13000	45000
Bromodichloromethane	µg/kg	NA	1600	1600	ID	1200	6400	9100	31000
Bromoform	µg/kg	NA	1600	1600	ID	150000	770000	900000	3100000
Bromomethane (Methyl bromide)	µg/kg	NA	200	580	700	860	1600	11000	13000
Carbon disulfide	µg/kg	NA	16000	46000	ID	76000	140000	1300000	1600000
Carbon tetrachloride	µg/kg	NA	100	100	900	190	990	3500	12000
Chlorobenzene	µg/kg	NA	2000	2000	500	120000	220000	770000	920000
Chloroethane	µg/kg	NA	8600	34000	22000	2900000	5300000	30000000	36000000
Chloroform (Trichloromethane)	µg/kg	NA	1600	1600	7000	7200	38000	45000	150000
Chloromethane (Methyl chloride)	µg/kg	NA	5200	22000	ID	2300	10000	40000	120000
cis-1,2-Dichloroethene	µg/kg	NA	1400	1400	12000	22000	41000	180000	210000
cis-1,3-Dichloropropene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	µg/kg	NA	1600	1600	ID	3900	21000	24000	80000
Dichlorodifluoromethane (CFC-12)	µg/kg	NA	95000	270000	ID	900000	1700000	53000000	63000000
Ethylbenzene	µg/kg	NA	1500	1500	360	87000	460000	720000	2400000
Isopropyl benzene	µg/kg	NA	91000	260000	3200	390000	390000	1700000	2000000
Methyl acetate	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	µg/kg	NA	800	800	140000	9900000	18000000	25000000	30000000
Methylene chloride	µg/kg	NA	100	100	30000	45000	240000	210000	700000
Styrene	µg/kg	NA	2700	2700	2100	250000	1300000	970000	3300000
Tetrachloroethene	µg/kg	NA	100	100	1200	11000	21000	170000	210000
Toluene	µg/kg	NA	16000	16000	5400	330000	610000	2800000	3300000
trans-1,2-Dichloroethene	µg/kg	NA	2000	2000	30000	23000	43000	280000	330000
trans-1,3-Dichloropropene	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/kg	NA	100	100	4000	1000	1900	11000	14000

TABLE 3

**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾								
Sample Identification	Statewide	Residential	Non-Residential	Groundwater	Residential	Non-Residential	Residential	Non-Residential	
Sample Date	Default	Drinking	Drinking	Surface Water	Soil Volatilization	Soil Volatilization	Infinite Source	Infinite Source	
Sample Depth	Background	Water	Water	Interface	to Indoor Air	to Indoor Air	Volatile Soil	Volatile Soil	
Sample Type	Level	Protection	Protection	Protection ⁽²⁾	Inhalation	Inhalation	Inhalation	Inhalation	
	a	b	c	d	e	f	g	h	
VOCs (cont'd)									
Trichlorofluoromethane (CFC-11)	µg/kg	NA	52000	150000	NA	2800000	5100000	92000000	110000000
Trifluorotrichloroethane (Freon 113)	µg/kg	NA	550000	550000	1700	550000	550000	180000000	210000000
Vinyl chloride	µg/kg	NA	40	40	260	270	2800	4200	29000
Xylenes (total)	µg/kg	NA	5600	5600	820	6300000	12000000	46000000	54000000
Semi-Volatile Organic Compounds (SVOCs)									
2-Methylnaphthalene	µg/kg	NA	57000	170000	4200	2700000	4900000	1500000	1800000
Acenaphthene	µg/kg	NA	300000	880000	8700	190000000	350000000	81000000	970000000
Acenaphthylene	µg/kg	NA	5900	17000	ID	1600000	3000000	2200000	2700000
Anthracene	µg/kg	NA	41000	41000	ID	1000000000	1000000000	1400000000	1600000000
Benzo(a)anthracene	µg/kg	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV
Benzo(a)pyrene	µg/kg	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV
Benzo(b)fluoranthene	µg/kg	NA	NLL	NLL	NLL	ID	ID	ID	ID
Benzo(g,h,i)perylene	µg/kg	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV
Benzo(k)fluoranthene	µg/kg	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV
Chrysene	µg/kg	NA	NLL	NLL	NLL	ID	ID	ID	ID
Dibenz(a,h)anthracene	µg/kg	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV
Fluoranthene	µg/kg	NA	730000	730000	5500	1000000000	1000000000	740000000	890000000
Fluorene	µg/kg	NA	390000	890000	5300	580000000	1000000000	130000000	150000000
Indeno(1,2,3-cd)pyrene	µg/kg	NA	NLL	NLL	NLL	NLV	NLV	NLV	NLV
Naphthalene	µg/kg	NA	35000	100000	730	250000	470000	300000	350000
Phenanthrene	µg/kg	NA	56000	160000	2100	2800000	5100000	160000	190000
Pyrene	µg/kg	NA	480000	480000	ID	1000000000	1000000000	650000000	780000000
Metals									
Antimony	µg/kg	NA	4300	4300	94000	NLV	NLV	NLV	NLV
Arsenic	µg/kg	5800	4600	4600	4600	NLV	NLV	NLV	NLV
Barium	µg/kg	75000	1300000	1300000	440000	NLV	NLV	NLV	NLV
Beryllium	µg/kg	NA	51000	51000	84000	NLV	NLV	NLV	NLV
Cadmium	µg/kg	1200	6000	6000	3000	NLV	NLV	NLV	NLV
Chromium	µg/kg	18000	30000	30000	3300	NLV	NLV	NLV	NLV
Cobalt	µg/kg	6800	800	2000	2000	NLV	NLV	NLV	NLV
Copper	µg/kg	32000	5800000	5800000	75000	NLV	NLV	NLV	NLV
Iron	µg/kg	12000000	6000	6000	NA	NLV	NLV	NLV	NLV
Lead	µg/kg	21000	700000	700000	2500000	NLV	NLV	NLV	NLV
Manganese	µg/kg	440000	1000	1000	26000	NLV	NLV	NLV	NLV
Mercury	µg/kg	130	1700	1700	50	48000	89000	52000	62000
Molybdenum	µg/kg	NA	1500	4200	64000	NLV	NLV	NLV	NLV
Nickel	µg/kg	20000	100000	100000	76000	NLV	NLV	NLV	NLV
Selenium	µg/kg	410	4000	4000	400	NLV	NLV	NLV	NLV
Silver	µg/kg	1000	4500	13000	100	NLV	NLV	NLV	NLV
Thallium	µg/kg	NA	2300	2300	4200	NLV	NLV	NLV	NLV
Vanadium	µg/kg	NA	72000	990000	430000	NLV	NLV	NLV	NLV
Zinc	µg/kg	47000	2400000	5000000	170000	NLV	NLV	NLV	NLV

TABLE 3

**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	<i>Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria</i> ⁽¹⁾							
Sample Identification	Statewide	Residential	Non-Residential	Groundwater	Residential	Non-Residential	Residential	Non-Residential
Sample Date	Default	Drinking	Drinking	Surface Water	Soil Volatilization	Soil Volatilization	Infinite Source	Infinite Source
Sample Depth	Background	Water	Water	Interface	to Indoor Air	to Indoor Air	Volatile Soil	Volatile Soil
Sample Type	Level	Protection	Protection	Protection ⁽²⁾	Inhalation	Inhalation	Inhalation	Inhalation
	a	b	c	d	e	f	g	h
<i>Polychlorinated Biphenyls (PCBs)</i>								
Aroclor-1016 (PCB-1016)	µg/kg	NA	NLL	NLL	NLL	3000000	16000000	240000
Aroclor-1221 (PCB-1221)	µg/kg	NA	NLL	NLL	NLL	3000000	16000000	240000
Aroclor-1232 (PCB-1232)	µg/kg	NA	NLL	NLL	NLL	3000000	16000000	240000
Aroclor-1242 (PCB-1242)	µg/kg	NA	NLL	NLL	NLL	3000000	16000000	240000
Aroclor-1248 (PCB-1248)	µg/kg	NA	NLL	NLL	NLL	3000000	16000000	240000
Aroclor-1254 (PCB-1254)	µg/kg	NA	NLL	NLL	NLL	3000000	16000000	240000
Aroclor-1260 (PCB-1260)	µg/kg	NA	NLL	NLL	NLL	3000000	16000000	240000
Total PCBs	µg/kg	NA	NLL	NLL	NLL	3000000	16000000	240000

Notes:

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

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

⁽³⁾ Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).

⁽⁴⁾ Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).

⁽⁵⁾ 1,2-Dibromoethane also known as Ethylene dibromide.

⁽⁶⁾ 2-Butanone also known as Methyl ethyl ketone (MEK).

⁽⁷⁾ 4-Methyl-2-pentanone also known as Methyl isobutyl ketone (MIBK).

J - Estimated concentration.

UJ - Estimated reporting limit.

ID - Insufficient data to develop criterion.

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

-- Parameter was not analyzed.

☐ - Exceeds Generic Cleanup Criteria.

Superscript letter notes the criterion exceeded.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth Sample Type	<u>Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria</u> ⁽¹⁾							
	Residential Finite VSIC for 5 Meter Source Thickness i	Non-Residential Finite VSIC for 5 Meter Source Thickness j	Residential Finite VSIC for 2 Meter Source Thickness k	Non-Residential Finite VSIC for 2 Meter Source Thickness l	Residential Particulate Soil Inhalation m	Non-Residential Particulate Soil Inhalation n	Residential Direct Contact o	Non-Residential Direct Contact p
Volatile Organic Compounds (VOCs)	Units							
1,1,1-Trichloroethane	µg/kg	12000000	15000000	28000000	31000000	67000000000	29000000000	460000
1,1,2,2-Tetrachloroethane	µg/kg	10000	34000	14000	34000	54000000	68000000	53000
1,1,2-Trichloroethane	µg/kg	21000	57000	44000	120000	190000000	250000000	180000
1,1-Dichloroethane	µg/kg	5900000	6000000	14000000	14000000	33000000000	15000000000	27000000
1,1-Dichloroethene	µg/kg	5300	15000	13000	37000	62000000	78000000	200000
1,2,4-Trichlorobenzene	µg/kg	28000000	34000000	28000000	34000000	25000000000	11000000000	990000
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	260	900	260	900	560000	700000	1200
1,2-Dibromoethane ⁽⁵⁾	µg/kg	1700	5800	3300	9800	14000000	18000000	92
1,2-Dichlorobenzene	µg/kg	39000000	46000000	52000000	55000000	100000000000	44000000000	19000000
1,2-Dichloroethane	µg/kg	11000	33000	26000	74000	120000000	150000000	91000
1,2-Dichloropropane	µg/kg	50000	51000	110000	120000	270000000	120000000	140000
1,3-Dichlorobenzene	µg/kg	79000	94000	110000	110000	200000000	88000000	200000
1,4-Dichlorobenzene	µg/kg	77000	260000	110000	340000	450000000	570000000	400000
2-Butanone ⁽⁶⁾	µg/kg	29000000	35000000	35000000	36000000	67000000000	29000000000	27000000
2-Hexanone	µg/kg	1100000	1300000	1400000	1500000	2700000000	1200000000	32000000
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	45000000	53000000	67000000	70000000	140000000000	60000000000	56000000
Acetone	µg/kg	130000000	160000000	190000000	200000000	390000000000	170000000000	23000000
Benzene	µg/kg	34000	99000	79000	230000	380000000	470000000	180000
Bromodichloromethane	µg/kg	9700	31000	19000	57000	84000000	110000000	110000
Bromoform	µg/kg	900000	3100000	900000	3100000	2800000000	3600000000	820000
Bromomethane (Methyl bromide)	µg/kg	57000	57000	140000	140000	330000000	150000000	320000
Carbon disulfide	µg/kg	7900000	8000000	19000000	19000000	47000000000	21000000000	7200000
Carbon tetrachloride	µg/kg	12000	34000	28000	79000	130000000	170000000	96000
Chlorobenzene	µg/kg	990000	1100000	2100000	2100000	4700000000	2100000000	4300000
Chloroethane	µg/kg	120000000	120000000	280000000	280000000	670000000000	290000000000	2600000
Chloroform (Trichloromethane)	µg/kg	120000	340000	270000	790000	1300000000	1600000000	1200000
Chloromethane (Methyl chloride)	µg/kg	410000	1000000	1000000	2500000	4900000000	2600000000	1600000
cis-1,2-Dichloroethene	µg/kg	420000	430000	990000	1000000	2300000000	1000000000	2500000
cis-1,3-Dichloropropene	µg/kg	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/kg	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	µg/kg	24000	80000	33000	98000	130000000	160000000	110000
Dichlorodifluoromethane (CFC-12)	µg/kg	550000000	550000000	1400000000	1400000000	3300000000000	1500000000000	52000000
Ethylbenzene	µg/kg	1000000	3100000	2200000	6500000	10000000000	13000000000	22000000
Isopropyl benzene	µg/kg	1700000	2000000	2800000	3000000	5800000000	2600000000	390000
Methyl acetate	µg/kg	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	µg/kg	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	µg/kg	39000000	41000000	87000000	89000000	200000000000	88000000000	1500000
Methylene chloride	µg/kg	590000	1700000	1400000	4000000	6600000000	8300000000	1300000
Styrene	µg/kg	970000	3300000	1400000	4200000	5500000000	6900000000	400000
Tetrachloroethene	µg/kg	480000	490000	1100000	1100000	2700000000	1200000000	200000
Toluene	µg/kg	5100000	36000000	12000000	36000000	27000000000	21000000000	5000000
trans-1,2-Dichloroethene	µg/kg	830000	840000	2000000	2000000	4700000000	1200000000	3800000
trans-1,3-Dichloropropene	µg/kg	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/kg	25000	25000	57000	58000	130000000	59000000	500000

TABLE 3

**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾								
Sample Identification		Residential	Non-Residential	Residential	Non-Residential	Residential	Non-Residential	Residential	Non-Residential
Sample Date		Finite VSIC for	Finite VSIC for	Finite VSIC for	Finite VSIC for	Particulate	Particulate	Direct	Direct
Sample Depth		5 Meter Source	5 Meter Source	2 Meter Source	2 Meter Source	Soil	Soil	Contact	Contact
Sample Type		Thickness	Thickness	Thickness	Thickness	Inhalation	Inhalation		
		i	j	k	l	m	n	o	p
VOCs (cont'd)									
Trichlorofluoromethane (CFC-11)	µg/kg	630000000	140000000000	1500000000	140000000000	3800000000000	1700000000000	79000000	260000000
Trifluorotrichloroethane (Freon 113)	µg/kg	880000000	890000000	2100000000	2100000000	5100000000000	2300000000000	550000	550000
Vinyl chloride	µg/kg	30000	170000	73000	420000	350000000	890000000	3800	34000
Xylenes (total)	µg/kg	61000000	65000000	130000000	130000000	290000000000	130000000000	410000000	1000000000
Semi-Volatile Organic Compounds (SVOCs)									
2-Methylnaphthalene	µg/kg	1500000	1800000	1500000	1800000	670000000	290000000	8100000	26000000
Acenaphthene	µg/kg	81000000	97000000	81000000	97000000	14000000000	6200000000	41000000	130000000
Acenaphthylene	µg/kg	2200000	2700000	2200000	2700000	2300000000	1000000000	1600000	5200000
Anthracene	µg/kg	1400000000	1600000000	1400000000	1600000000	67000000000	29000000000	230000000	730000000
Benzo(a)anthracene	µg/kg	NLV	NLV	NLV	NLV	ID	ID	20000	80000
Benzo(a)pyrene	µg/kg	NLV	NLV	NLV	NLV	1500000	1900000	2000	8000
Benzo(b)fluoranthene	µg/kg	ID	ID	ID	ID	ID	ID	20000	80000
Benzo(g,h,i)perylene	µg/kg	NLV	NLV	NLV	NLV	800000000	350000000	2500000	7000000
Benzo(k)fluoranthene	µg/kg	NLV	NLV	NLV	NLV	ID	ID	200000	800000
Chrysene	µg/kg	ID	ID	ID	ID	ID	ID	2000000	8000000
Dibenz(a,h)anthracene	µg/kg	NLV	NLV	NLV	NLV	ID	ID	2000	8000
Fluoranthene	µg/kg	740000000	880000000	740000000	880000000	9300000000	4100000000	46000000	130000000
Fluorene	µg/kg	130000000	150000000	130000000	150000000	9300000000	4100000000	27000000	87000000
Indeno(1,2,3-cd)pyrene	µg/kg	NLV	NLV	NLV	NLV	ID	ID	20000	80000
Naphthalene	µg/kg	300000	350000	300000	350000	200000000	88000000	16000000	52000000
Phenanthrene	µg/kg	160000	190000	160000	190000	6700000	2900000	1600000	5200000
Pyrene	µg/kg	650000000	780000000	650000000	780000000	6700000000	2900000000	29000000	84000000
Metals									
Antimony	µg/kg	NLV	NLV	NLV	NLV	13000000	5900000	180000	670000
Arsenic	µg/kg	NLV	NLV	NLV	NLV	720000	910000	7600	37000
Barium	µg/kg	NLV	NLV	NLV	NLV	330000000	150000000	37000000	130000000
Beryllium	µg/kg	NLV	NLV	NLV	NLV	1300000	590000	410000	1600000
Cadmium	µg/kg	NLV	NLV	NLV	NLV	1700000	2200000	550000	2100000
Chromium	µg/kg	NLV	NLV	NLV	NLV	260000	240000	2500000	9200000
Cobalt	µg/kg	NLV	NLV	NLV	NLV	13000000	5900000	2600000	9000000
Copper	µg/kg	NLV	NLV	NLV	NLV	130000000	59000000	20000000	73000000
Iron	µg/kg	NLV	NLV	NLV	NLV	ID	ID	160000000	580000000
Lead	µg/kg	NLV	NLV	NLV	NLV	100000000	44000000	400000	900000
Manganese	µg/kg	NLV	NLV	NLV	NLV	3300000	1500000	25000000	90000000
Mercury	µg/kg	52000	62000	52000	62000	20000000	8800000	160000	580000
Molybdenum	µg/kg	NLV	NLV	NLV	NLV	ID	ID	2600000	9600000
Nickel	µg/kg	NLV	NLV	NLV	NLV	13000000	16000000	40000000	150000000
Selenium	µg/kg	NLV	NLV	NLV	NLV	130000000	59000000	2600000	9600000
Silver	µg/kg	NLV	NLV	NLV	NLV	6700000	2900000	2500000	9000000
Thallium	µg/kg	NLV	NLV	NLV	NLV	13000000	5900000	35000	130000
Vanadium	µg/kg	NLV	NLV	NLV	NLV	ID	ID	750000	5500000
Zinc	µg/kg	NLV	NLV	NLV	NLV	ID	ID	170000000	630000000

TABLE 3

**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	<i>Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria</i> ⁽¹⁾								
Sample Identification	Residential	Non-Residential	Residential	Non-Residential	Residential	Non-Residential	Residential	Non-Residential	
Sample Date	Finite VSIC for	Finite VSIC for	Finite VSIC for	Finite VSIC for	Particulate	Particulate	Direct	Direct	
Sample Depth	5 Meter Source	5 Meter Source	2 Meter Source	2 Meter Source	Soil	Soil	Contact	Contact	
Sample Type	Thickness	Thickness	Thickness	Thickness	Inhalation	Inhalation	o	p	
	i	j	k	l	m	n			
<i>Polychlorinated Biphenyls (PCBs)</i>									
Aroclor-1016 (PCB-1016)	µg/kg	7900000	28000000	7900000	28000000	5200000	6500000	4000	16000
Aroclor-1221 (PCB-1221)	µg/kg	7900000	28000000	7900000	28000000	5200000	6500000	4000	16000
Aroclor-1232 (PCB-1232)	µg/kg	7900000	28000000	7900000	28000000	5200000	6500000	4000	16000
Aroclor-1242 (PCB-1242)	µg/kg	7900000	28000000	7900000	28000000	5200000	6500000	4000	16000
Aroclor-1248 (PCB-1248)	µg/kg	7900000	28000000	7900000	28000000	5200000	6500000	4000	16000
Aroclor-1254 (PCB-1254)	µg/kg	7900000	28000000	7900000	28000000	5200000	6500000	4000	16000
Aroclor-1260 (PCB-1260)	µg/kg	7900000	28000000	7900000	28000000	5200000	6500000	4000	16000
Total PCBs	µg/kg	7900000	28000000	7900000	28000000	5200000	6500000	4000	16000

Notes:

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

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

⁽³⁾ Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).

⁽⁴⁾ Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).

⁽⁵⁾ 1,2-Dibromoethane also known as Ethylene dibromide.

⁽⁶⁾ 2-Butanone also known as Methyl ethyl ketone (MEK).

⁽⁷⁾ 4-Methyl-2-pentanone also known as Methyl isobutyl ketone (MIBK).

J - Estimated concentration.

UJ - Estimated reporting limit.

ID - Insufficient data to develop criterion.

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

-- Parameter was not analyzed.

☐ - Exceeds Generic Cleanup Criteria.

Superscript letter notes the criterion exceeded.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB274-13	SB275-13	SB276-13	SB277-13	SB277-13	SB277-13
Sample Identification	SO-017360-102113-MR-001	SO-017360-102113-MR-003	SO-017360-102113-MR-002	SO-017360-102213-MR-040	SO-017360-102213-MR-041	SO-017360-102213-MR-042
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	(11-13) ft BGS	(11-13) ft BGS	(11-13) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type						
Volatile Organic Compounds (VOCs)						
	Units					
1,1,1-Trichloroethane	µg/kg	-	-	44 U	55 U	48 U
1,1,2,2-Tetrachloroethane	µg/kg	-	-	44 U	55 U	48 U
1,1,2-Trichloroethane	µg/kg	-	-	44 U	55 U	48 U
1,1-Dichloroethane	µg/kg	-	-	44 U	55 U	48 U
1,1-Dichloroethene	µg/kg	-	-	44 U	55 U	48 U
1,2,4-Trichlorobenzene	µg/kg	-	-	44 U	55 U	48 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	-	-	44 U	55 U	48 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	-	-	44 U	55 U	48 U
1,2-Dichlorobenzene	µg/kg	-	-	44 U	55 U	48 U
1,2-Dichloroethane	µg/kg	-	-	44 U	55 U	48 U
1,2-Dichloropropane	µg/kg	-	-	44 U	55 U	48 U
1,3-Dichlorobenzene	µg/kg	-	-	44 U	55 U	48 U
1,4-Dichlorobenzene	µg/kg	-	-	44 U	55 U	48 U
2-Butanone ⁽⁶⁾	µg/kg	-	-	120 J	160 J	130 J
2-Hexanone	µg/kg	-	-	44 U	55 U	48 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	-	-	44 U	55 U	48 U
Acetone	µg/kg	-	-	150 U	180 U	160 U
Benzene	µg/kg	-	-	44 U	55 U	48 U
Bromodichloromethane	µg/kg	-	-	44 U	55 U	48 U
Bromoform	µg/kg	-	-	44 U	55 U	48 U
Bromomethane (Methyl bromide)	µg/kg	-	-	110 U	140 U	120 U
Carbon disulfide	µg/kg	-	-	44 U	55 U	48 U
Carbon tetrachloride	µg/kg	-	-	44 U	55 U	48 U
Chlorobenzene	µg/kg	-	-	44 U	55 U	48 U
Chloroethane	µg/kg	-	-	150 U	180 U	160 U
Chloroform (Trichloromethane)	µg/kg	-	-	44 U	55 U	48 U
Chloromethane (Methyl chloride)	µg/kg	-	-	150 U	180 U	160 U
cis-1,2-Dichloroethene	µg/kg	-	-	44 U	55 U	48 U
cis-1,3-Dichloropropene	µg/kg	-	-	44 U	55 U	48 U
Cyclohexane	µg/kg	-	-	44 U	55 U	41 J
Dibromochloromethane	µg/kg	-	-	44 U	55 U	48 U
Dichlorodifluoromethane (CFC-12)	µg/kg	-	-	44 U	55 U	48 U
Ethylbenzene	µg/kg	-	-	44 U	55 U	48 U
Isopropyl benzene	µg/kg	-	-	44 U	55 U	48 U
Methyl acetate	µg/kg	-	-	130 J	160 J	130 J
Methyl cyclohexane	µg/kg	-	-	110	87	140
Methyl tert butyl ether (MTBE)	µg/kg	-	-	44 U	55 U	48 U
Methylene chloride	µg/kg	-	-	44 U	55 U	48 U
Styrene	µg/kg	-	-	44 U	55 U	48 U
Tetrachloroethene	µg/kg	-	-	44 U	55 U	48 U
Toluene	µg/kg	-	-	44 U	55 U	48 U
trans-1,2-Dichloroethene	µg/kg	-	-	44 U	55 U	48 U
trans-1,3-Dichloropropene	µg/kg	-	-	44 U	55 U	48 U
Trichloroethene	µg/kg	-	-	44 U	55 U	48 U

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		SB274-13	SB275-13	SB276-13	SB277-13	SB277-13	SB277-13
Sample Identification		SO-017360-102113-MR-001	SO-017360-102113-MR-003	SO-017360-102113-MR-002	SO-017360-102213-MR-040	SO-017360-102213-MR-041	SO-017360-102213-MR-042
Sample Date		10/21/2013	10/21/2013	10/21/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth		(11-13) ft BGS	(11-13) ft BGS	(11-13) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type							
VOCs (cont'd)							
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	44 U	55 U	48 U
Trifluorotrichloroethane (Freon 113)	µg/kg	-	-	-	44 U	55 U	48 U
Vinyl chloride	µg/kg	-	-	-	44 U	55 U	48 U
Xylenes (total)	µg/kg	-	-	-	130 U	170 U	140 U
Semi-Volatile Organic Compounds (SVOCs)							
2-Methylnaphthalene	µg/kg	6.8 U	6.9 U	6.7 U	94	46	7.2 U
Acenaphthene	µg/kg	6.8 U	6.9 U	6.7 U	7.7 U	7.5 U	7.2 U
Acenaphthylene	µg/kg	6.8 U	6.9 U	6.7 U	20	7.5 U	7.2 U
Anthracene	µg/kg	6.8 U	6.9 U	6.7 U	75	110	7.2 U
Benzo(a)anthracene	µg/kg	6.8 U	6.9 U	6.7 U	340	410	75
Benzo(a)pyrene	µg/kg	6.8 U	6.9 U	6.7 U	370	420	60
Benzo(b)fluoranthene	µg/kg	6.8 U	6.9 U	6.7 U	540	460	72
Benzo(g,h,i)perylene	µg/kg	6.8 U	6.9 U	6.7 U	280	300	60
Benzo(k)fluoranthene	µg/kg	6.8 U	6.9 U	6.7 U	330	410	53
Chrysene	µg/kg	6.8 U	6.9 U	6.7 U	490	500	69
Dibenz(a,h)anthracene	µg/kg	6.8 U	6.9 U	6.7 U	82	87	7.2 U
Fluoranthene	µg/kg	6.8 U	6.9 U	6.7 U	590	790	110
Fluorene	µg/kg	6.8 U	6.9 U	6.7 U	20	60	7.2 U
Indeno(1,2,3-cd)pyrene	µg/kg	6.8 U	6.9 U	6.7 U	240	250	38
Naphthalene	µg/kg	6.8 U	6.9 U	6.7 U	58	24	7.2 U
Phenanthrene	µg/kg	6.8 U	6.9 U	6.7 U	380	570	67
Pyrene	µg/kg	6.8 U	6.9 U	6.7 U	540	720	90
Metals							
Antimony	µg/kg	-	-	-	560	650 J	260 J
Arsenic	µg/kg	-	-	-	4700	2700	1400
Barium	µg/kg	-	-	-	82000	100000	12000
Beryllium	µg/kg	-	-	-	290 J	210 J	76 J
Cadmium	µg/kg	-	-	-	530	480 J	110 J
Chromium	µg/kg	-	-	-	4900	11000	5100
Cobalt	µg/kg	-	-	-	2500	2500	1600
Copper	µg/kg	-	-	-	31000 J	16000 J	4700 J
Iron	µg/kg	-	-	-	4300000	7100000	3900000
Lead	µg/kg	-	-	-	37000	100000	8500
Manganese	µg/kg	-	-	-	41000 J	140000 J	94000 J
Mercury	µg/kg	-	-	-	23 J	9.9 J	36 J
Molybdenum	µg/kg	-	-	-	1100	930 J	380 J
Nickel	µg/kg	-	-	-	7900	9600	4900
Selenium	µg/kg	-	-	-	410 J	2100 U	190 J
Silver	µg/kg	-	-	-	93 J	39 J	18 J
Thallium	µg/kg	-	-	-	94 J	2100 U	48 J
Vanadium	µg/kg	-	-	-	5100 J	8900 J	6100 J
Zinc	µg/kg	-	-	-	37000	640000^d	110000

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB274-13	SB275-13	SB276-13	SB277-13	SB277-13	SB277-13
Sample Identification	SO-017360-102113-MR-001	SO-017360-102113-MR-003	SO-017360-102113-MR-002	SO-017360-102213-MR-040	SO-017360-102213-MR-041	SO-017360-102213-MR-042
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	(11-13) ft BGS	(11-13) ft BGS	(11-13) ft BGS	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type						

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	93 U	91 U	87 U
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	93 U	91 U	87 U
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	93 U	91 U	87 U
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	93 U	91 U	87 U
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	93 U	91 U	87 U
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	93 U	91 U	87 U
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	93 U	91 U	87 U
Total PCBs	µg/kg	-	-	-	ND	ND	ND

TABLE 3

**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	SB277-13	SB277-13	SB277-13	SB278-13	SB278-13	SB278-13
Sample Identification	SO-017360-102213-MR-043	SO-017360-102213-MR-044	SO-017360-102213-MR-045	SO-017360-102213-MR-047	SO-017360-102213-MR-048	SO-017360-102213-MR-049
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type						
<i>Volatile Organic Compounds (VOCs)</i>	<i>Units</i>					
1,1,1-Trichloroethane	µg/kg	180 U	98 U	66 U	100 U	57 U
1,1,2,2-Tetrachloroethane	µg/kg	180 U	98 U	66 U	100 U	57 U
1,1,2-Trichloroethane	µg/kg	180 U	98 U	66 U	100 U	57 U
1,1-Dichloroethane	µg/kg	180 U	98 U	66 U	100 U	57 U
1,1-Dichloroethene	µg/kg	180 U	98 U	66 U	100 U	57 U
1,2,4-Trichlorobenzene	µg/kg	180 U	98 U	66 U	100 U	57 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	180 U	98 U	66 U	100 U	57 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	180 U	98 U	66 U	100 U	57 U
1,2-Dichlorobenzene	µg/kg	180 U	98 U	66 U	100 U	57 U
1,2-Dichloroethane	µg/kg	180 U	98 U	66 U	100 U	57 U
1,2-Dichloropropane	µg/kg	180 U	98 U	66 U	100 U	57 U
1,3-Dichlorobenzene	µg/kg	180 U	98 U	66 U	100 U	57 U
1,4-Dichlorobenzene	µg/kg	180 U	98 U	66 U	100 U	57 U
2-Butanone ⁽⁶⁾	µg/kg	700 J	370 J	440 U	290 J	380 U
2-Hexanone	µg/kg	180 U	98 U	66 U	100 U	57 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	180 U	98 U	66 U	100 U	57 U
Acetone	µg/kg	1400	510	220 U	340 U	190 U
Benzene	µg/kg	180 U	98 U	66 U	100 U	57 U
Bromodichloromethane	µg/kg	180 U	98 U	66 U	100 U	57 U
Bromoform	µg/kg	180 U	98 U	66 U	100 U	57 U
Bromomethane (Methyl bromide)	µg/kg	440 U	250 U	170 U	250 U	140 U
Carbon disulfide	µg/kg	180 U	98 U	66 U	100 U	57 U
Carbon tetrachloride	µg/kg	180 U	98 U	66 U	100 U	57 U
Chlorobenzene	µg/kg	180 U	98 U	66 U	100 U	57 U
Chloroethane	µg/kg	590 U	330 U	220 U	340 U	190 U
Chloroform (Trichloromethane)	µg/kg	180 U	98 U	66 U	100 U	57 U
Chloromethane (Methyl chloride)	µg/kg	590 U	330 U	220 U	340 U	190 U
cis-1,2-Dichloroethene	µg/kg	180 U	98 U	66 U	100 U	57 U
cis-1,3-Dichloropropene	µg/kg	180 U	98 U	66 U	100 U	57 U
Cyclohexane	µg/kg	180 U	98 U	66 U	100 U	57 U
Dibromochloromethane	µg/kg	180 U	98 U	66 U	100 U	57 U
Dichlorodifluoromethane (CFC-12)	µg/kg	180 U	98 U	66 U	100 U	57 U
Ethylbenzene	µg/kg	180 U	98 U	66 U	100 U	57 U
Isopropyl benzene	µg/kg	180 U	98 U	66 U	100 U	57 U
Methyl acetate	µg/kg	2100	1100	210 J	280 J	150 J
Methyl cyclohexane	µg/kg	180 U	98 U	66 U	230	240
Methyl tert butyl ether (MTBE)	µg/kg	180 U	98 U	66 U	100 U	57 U
Methylene chloride	µg/kg	180 U	98 U	66 U	100 U	57 U
Styrene	µg/kg	180 U	98 U	66 U	100 U	57 U
Tetrachloroethene	µg/kg	180 U	98 U	66 U	100 U	57 U
Toluene	µg/kg	180 U	98 U	66 U	52 J	42 J
trans-1,2-Dichloroethene	µg/kg	180 U	98 U	66 U	100 U	57 U
trans-1,3-Dichloropropene	µg/kg	180 U	98 U	66 U	100 U	57 U
Trichloroethene	µg/kg	180 U	98 U	66 U	100 U	57 U

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		<i>SB277-13</i>	<i>SB277-13</i>	<i>SB277-13</i>	<i>SB278-13</i>	<i>SB278-13</i>	<i>SB278-13</i>
Sample Identification		<i>SO-017360-102213-MR-043</i>	<i>SO-017360-102213-MR-044</i>	<i>SO-017360-102213-MR-045</i>	<i>SO-017360-102213-MR-047</i>	<i>SO-017360-102213-MR-048</i>	<i>SO-017360-102213-MR-049</i>
Sample Date		10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth		(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type							
VOCs (cont'd)							
Trichlorofluoromethane (CFC-11)	µg/kg	180 U	98 U	66 U	100 U	57 U	1000 U
Trifluorotrichloroethane (Freon 113)	µg/kg	180 U	98 U	66 U	100 U	57 U	1000 U
Vinyl chloride	µg/kg	180 U	98 U	66 U	100 U	57 U	1000 U
Xylenes (total)	µg/kg	530 U	300 U	200 U	300 U	140 J	3000 U
Semi-Volatile Organic Compounds (SVOCs)							
2-Methylnaphthalene	µg/kg	81	41	13 U	100	80 U	150 U
Acenaphthene	µg/kg	10 U	8.6 U	13 U	8.1 U	80 U	150 U
Acenaphthylene	µg/kg	10 U	8.6 U	13 U	42	80 U	150 U
Anthracene	µg/kg	28	130	13 U	66	80 U	150 U
Benzo(a)anthracene	µg/kg	140	430	13 U	290	430	150 U
Benzo(a)pyrene	µg/kg	120	420	13 U	360	80 U	150 U
Benzo(b)fluoranthene	µg/kg	130	440	13 U	470	220	150 U
Benzo(g,h,i)perylene	µg/kg	100	260	13 U	240	340	150 U
Benzo(k)fluoranthene	µg/kg	120	380	13 U	350	80 U	150 U
Chrysene	µg/kg	150	500	13 U	500	250	150 U
Dibenz(a,h)anthracene	µg/kg	10 U	59	13 U	68	80 U	150 U
Fluoranthene	µg/kg	230	870	13 U	420	460	150 U
Fluorene	µg/kg	10 U	52	13 U	8.1 U	80 U	150 U
Indeno(1,2,3-cd)pyrene	µg/kg	69	210	13 U	190	80 U	150 U
Naphthalene	µg/kg	54	38	13 U	72	80 U	150 U
Phenanthrene	µg/kg	210	660	13 U	310	500	150 U
Pyrene	µg/kg	210	740	13 U	460	330	150 U
Metals							
Antimony	µg/kg	570 J	400 J	370 J	690	1100 J	150 J
Arsenic	µg/kg	4600	2900	2700 J	33000 ^{bcd}	7900 ^{bcd}	2600
Barium	µg/kg	59000	67000	210000	84000	41000	37000
Beryllium	µg/kg	120 J	170 J	31 J	450 J	450 J	300 J
Cadmium	µg/kg	190 J	130 J	140 J	270	490 J	680
Chromium	µg/kg	8100	7100	5000	8600	31000 ^{bcd}	7500
Cobalt	µg/kg	2000 J	2100 J	940 J	5100	6500	650 J
Copper	µg/kg	8700 J	8700 J	5100	38000 J	51000 J	17000 J
Iron	µg/kg	8300000	7600000	5100000	7100000	8000000	4700000
Lead	µg/kg	3800	5400	220 J	16000	37000	2900
Manganese	µg/kg	130000 J	140000 J	120000	30000 J	130000 J	25000 J
Mercury	µg/kg	76	47	41 J	35 J	38 J	68 J
Molybdenum	µg/kg	2000 J ^b	620 J	1600 J ^b	3100 ^b	8600 ^{bc}	2400 ^b
Nickel	µg/kg	5800	5300	2900 J	22000	16000	8600
Selenium	µg/kg	2500 J ^d	700 J ^d	2000 J ^d	1200 ^d	2200 U	3600 ^d
Silver	µg/kg	2800 U	10 J	3100 U	83 J	260 J	41 J
Thallium	µg/kg	87 J	2300 U	140 J	640	150 J	87 J
Vanadium	µg/kg	13000 J	11000 J	4600 J	12000 J	12000 J	41000 J
Zinc	µg/kg	16000	17000	6100	23000	100000	2800

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB277-13		SB277-13		SB277-13		SB278-13		SB278-13			
Sample Identification	SO-017360-102213-MR-043		SO-017360-102213-MR-044		SO-017360-102213-MR-045		SO-017360-102213-MR-047		SO-017360-102213-MR-048		SO-017360-102213-MR-049	
Sample Date	10/22/2013		10/22/2013		10/22/2013		10/22/2013		10/22/2013		10/22/2013	
Sample Depth	(6-8) ft BGS		(6-8) ft BGS		(8-10) ft BGS		(4-6) ft BGS		(6-8) ft BGS		(8-10) ft BGS	
Sample Type												
Polychlorinated Biphenyls (PCBs)												
Aroclor-1016 (PCB-1016)	µg/kg	120 U		110 U		160 U		100 U		100 U		290 UJ
Aroclor-1221 (PCB-1221)	µg/kg	120 U		110 U		160 U		100 U		100 U		290 UJ
Aroclor-1232 (PCB-1232)	µg/kg	120 U		110 U		160 U		100 U		100 U		290 UJ
Aroclor-1242 (PCB-1242)	µg/kg	120 U		110 U		160 U		100 U		100 U		290 UJ
Aroclor-1248 (PCB-1248)	µg/kg	120 U		110 U		160 U		100 U		100 U		290 UJ
Aroclor-1254 (PCB-1254)	µg/kg	120 U		110 U		160 U		100 U		100 U		290 UJ
Aroclor-1260 (PCB-1260)	µg/kg	120 U		110 U		160 U		100 U		100 U		290 UJ
Total PCBs	µg/kg	ND		ND		ND		ND		ND		ND

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB280-13	SB280-13	SB280-13	SB282-13	SB282-13	SB282-13
Sample Identification	SO-017360-102213-MR-051	SO-017360-102213-MR-052	SO-017360-102213-MR-053	SO-017360-102213-MR-036	SO-017360-102213-MR-037	SO-017360-102213-MR-038
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS
Sample Type						
<i>Volatile Organic Compounds (VOCs)</i>	<i>Units</i>					
1,1,1-Trichloroethane	µg/kg	39 U	34 U	50 U	34 U	48 U
1,1,2,2-Tetrachloroethane	µg/kg	39 U	34 U	50 U	34 U	48 U
1,1,2-Trichloroethane	µg/kg	39 U	34 U	50 U	34 U	48 U
1,1-Dichloroethane	µg/kg	39 U	34 U	50 U	34 U	48 U
1,1-Dichloroethene	µg/kg	39 U	34 U	50 U	34 U	48 U
1,2,4-Trichlorobenzene	µg/kg	39 U	34 U	50 U	34 U	48 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	39 U	34 U	50 U	34 U	48 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	39 U	34 U	50 U	34 U	48 U
1,2-Dichlorobenzene	µg/kg	39 U	34 U	50 U	34 U	48 U
1,2-Dichloroethane	µg/kg	39 U	34 U	50 U	34 U	48 U
1,2-Dichloropropane	µg/kg	39 U	34 U	50 U	34 U	48 U
1,3-Dichlorobenzene	µg/kg	39 U	34 U	50 U	34 U	48 U
1,4-Dichlorobenzene	µg/kg	39 U	34 U	50 U	34 U	48 U
2-Butanone ⁽⁶⁾	µg/kg	96 J	100 J	330 U	220 U	320 U
2-Hexanone	µg/kg	39 U	34 U	50 U	34 U	48 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	39 U	34 U	50 U	34 U	48 U
Acetone	µg/kg	130 U	110 U	170 U	110 U	160 U
Benzene	µg/kg	39 U	34 U	50 U	34 U	48 U
Bromodichloromethane	µg/kg	39 U	34 U	50 U	34 U	48 U
Bromoform	µg/kg	39 U	34 U	50 U	34 U	48 U
Bromomethane (Methyl bromide)	µg/kg	97 U	23 J	120 U	84 U	120 U
Carbon disulfide	µg/kg	39 U	33 J	50 U	34 U	48 U
Carbon tetrachloride	µg/kg	39 U	34 U	50 U	34 U	48 U
Chlorobenzene	µg/kg	39 U	34 U	50 U	34 U	48 U
Chloroethane	µg/kg	130 U	110 U	170 U	110 U	160 U
Chloroform (Trichloromethane)	µg/kg	39 U	34 U	50 U	34 U	48 U
Chloromethane (Methyl chloride)	µg/kg	130 U	56 J	170 U	110 U	160 U
cis-1,2-Dichloroethene	µg/kg	39 U	34 U	50 U	34 U	48 U
cis-1,3-Dichloropropene	µg/kg	39 U	34 U	50 U	34 U	48 U
Cyclohexane	µg/kg	39 U	34 U	50 U	34 U	48 U
Dibromochloromethane	µg/kg	39 U	34 U	50 U	34 U	48 U
Dichlorodifluoromethane (CFC-12)	µg/kg	39 U	34 U	50 U	34 U	48 U
Ethylbenzene	µg/kg	39 U	34 U	50 U	34 U	48 U
Isopropyl benzene	µg/kg	39 U	34 U	50 U	34 U	48 U
Methyl acetate	µg/kg	91 J	97 J	170 J	220 U	320 U
Methyl cyclohexane	µg/kg	39 U	34 U	50 U	34 U	48 U
Methyl tert butyl ether (MTBE)	µg/kg	39 U	34 U	50 U	34 U	48 U
Methylene chloride	µg/kg	39 U	34 U	50 U	34 U	48 U
Styrene	µg/kg	39 U	34 U	50 U	34 U	48 U
Tetrachloroethene	µg/kg	39 U	34 U	50 U	34 U	48 U
Toluene	µg/kg	39 U	34 U	50 U	34 U	48 U
trans-1,2-Dichloroethene	µg/kg	39 U	34 U	50 U	34 U	48 U
trans-1,3-Dichloropropene	µg/kg	39 U	34 U	50 U	34 U	48 U
Trichloroethene	µg/kg	39 U	34 U	50 U	34 U	48 U

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		<i>SB280-13</i>	<i>SB280-13</i>	<i>SB280-13</i>	<i>SB282-13</i>	<i>SB282-13</i>	<i>SB282-13</i>
Sample Identification		<i>SO-017360-102213-MR-051</i>	<i>SO-017360-102213-MR-052</i>	<i>SO-017360-102213-MR-053</i>	<i>SO-017360-102213-MR-036</i>	<i>SO-017360-102213-MR-037</i>	<i>SO-017360-102213-MR-038</i>
Sample Date		10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS
Sample Type							
VOCs (cont'd)							
Trichlorofluoromethane (CFC-11)	µg/kg	39 U	34 U	50 U	34 U	48 U	39 U
Trifluorotrichloroethane (Freon 113)	µg/kg	39 U	34 U	50 U	34 U	48 U	39 U
Vinyl chloride	µg/kg	39 U	34 U	50 U	34 U	48 U	39 U
Xylenes (total)	µg/kg	120 U	100 U	150 U	100 U	150 U	120 U
Semi-Volatile Organic Compounds (SVOCs)							
2-Methylnaphthalene	µg/kg	6.9 U	7.3 U	7.6 U	6.9 U	8.2 U	38
Acenaphthene	µg/kg	6.9 U	7.3 U	7.6 U	6.9 U	8.2 U	7.8 U
Acenaphthylene	µg/kg	6.9 U	7.3 U	7.6 U	6.9 U	8.2 U	7.8 U
Anthracene	µg/kg	6.9 U	7.3 U	7.6 U	6.9 U	8.2 U	7.8 U
Benzo(a)anthracene	µg/kg	6.9 U	7.3 U	7.6 U	77	8.2 U	38
Benzo(a)pyrene	µg/kg	6.9 U	7.3 U	7.6 U	75	8.2 U	7.8 U
Benzo(b)fluoranthene	µg/kg	6.9 U	7.3 U	7.6 U	80	8.2 U	19
Benzo(g,h,i)perylene	µg/kg	6.9 U	7.3 U	7.6 U	140	8.2 U	35
Benzo(k)fluoranthene	µg/kg	6.9 U	7.3 U	7.6 U	68	8.2 U	7.8 U
Chrysene	µg/kg	6.9 U	7.3 U	7.6 U	72	8.2 U	23
Dibenz(a,h)anthracene	µg/kg	6.9 U	7.3 U	7.6 U	6.9 U	8.2 U	7.8 U
Fluoranthene	µg/kg	6.9 U	7.3 U	7.6 U	82	8.2 U	33
Fluorene	µg/kg	6.9 U	7.3 U	7.6 U	6.9 U	8.2 U	7.8 U
Indeno(1,2,3-cd)pyrene	µg/kg	6.9 U	7.3 U	7.6 U	65	8.2 U	7.8 U
Naphthalene	µg/kg	6.9 U	7.3 U	7.6 U	6.9 U	8.2 U	7.8 U
Phenanthrene	µg/kg	6.9 U	7.3 U	21	37	8.2 U	40
Pyrene	µg/kg	6.9 U	7.3 U	7.6 U	78	8.2 U	26
Metals							
Antimony	µg/kg	2900	1700	160 J	1400	82 J	66 J
Arsenic	µg/kg	670	640	1700	630	740	750
Barium	µg/kg	2700	3600	12000	1600 J	37000	32000
Beryllium	µg/kg	7.3 J	8.6 J	76 J	14 J	140 J	100 J
Cadmium	µg/kg	76 J	56 J	120 J	84 J	230	260
Chromium	µg/kg	30000 ^d	12000	4700	31000 ^{bcd}	4200	3900
Cobalt	µg/kg	600	310 J	590	1200	610	650
Copper	µg/kg	6000 J	2700 J	5100 J	6500	3400 J	3400 J
Iron	µg/kg	3900000	2900000	2500000	9300000	2000000	2000000
Lead	µg/kg	13000	36000	3200	31000	3800	4000
Manganese	µg/kg	49000 J	29000 J	25000 J	110000 J	20000 J	23000 J
Mercury	µg/kg	21 J	17 J	37 J	43 U	37 J	28 J
Molybdenum	µg/kg	26000 ^{bc}	11000 ^{bc}	630	35000 ^{bc}	200 J	210 J
Nickel	µg/kg	25000	7700	2300	15000	2900	3100
Selenium	µg/kg	410 U	390 U	700 ^d	390 U	540 ^d	480 ^d
Silver	µg/kg	380 J	450	23 J	320 J	28 J	28 J
Thallium	µg/kg	410 U	12 J	45 J	390 U	81 J	67 J
Vanadium	µg/kg	310 J	97 J	8700 J	390 U	7300 J	6700 J
Zinc	µg/kg	4800	9500	4500	5200	5800	6500

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB280-13		SB280-13		SB280-13		SB282-13		SB282-13			
Sample Identification	SO-017360-102213-MR-051		SO-017360-102213-MR-052		SO-017360-102213-MR-053		SO-017360-102213-MR-036		SO-017360-102213-MR-037		SO-017360-102213-MR-038	
Sample Date	10/22/2013		10/22/2013		10/22/2013		10/22/2013		10/22/2013		10/22/2013	
Sample Depth	(4-6) ft BGS		(6-8) ft BGS		(8-10) ft BGS		(4-6) ft BGS		(6-8) ft BGS		(6-8) ft BGS	
Sample Type												
Polychlorinated Biphenyls (PCBs)												
Aroclor-1016 (PCB-1016)	µg/kg	86 U		91 UJ		95 U		87 U		100 U		98 U
Aroclor-1221 (PCB-1221)	µg/kg	86 U		91 UJ		95 U		87 U		100 U		98 U
Aroclor-1232 (PCB-1232)	µg/kg	86 U		91 UJ		95 U		87 U		100 U		98 U
Aroclor-1242 (PCB-1242)	µg/kg	86 U		91 UJ		95 U		87 U		100 U		98 U
Aroclor-1248 (PCB-1248)	µg/kg	86 U		91 UJ		95 U		87 U		100 U		98 U
Aroclor-1254 (PCB-1254)	µg/kg	86 U		91 UJ		95 U		87 U		100 U		98 U
Aroclor-1260 (PCB-1260)	µg/kg	86 U		91 UJ		95 U		87 U		100 U		98 U
Total PCBs	µg/kg	ND		ND		ND		ND		ND		ND

TABLE 3

**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	<i>SB282-13</i>	<i>SB284-13</i>	<i>SB284-13</i>	<i>SB284-13</i>	<i>SB284-13</i>	<i>SB290-13</i>
Sample Identification	<i>SO-017360-102213-MR-039</i>	<i>SO-017360-102213-MR-030</i>	<i>SO-017360-102213-MR-031</i>	<i>SO-017360-102213-MR-032</i>	<i>SO-017360-102213-MR-033</i>	<i>SB-017360-102113-MR-005</i>
Sample Date	<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/21/2013</i>
Sample Depth	<i>(8-10) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(0-2) ft BGS</i>
Sample Type			<i>Duplicate</i>			
<i>Volatile Organic Compounds (VOCs)</i>	<i>Units</i>					
1,1,1-Trichloroethane	µg/kg	43 U	37 U	38 U	35 U	44 U
1,1,2,2-Tetrachloroethane	µg/kg	43 U	37 U	38 U	35 U	44 U
1,1,2-Trichloroethane	µg/kg	43 U	37 U	38 U	35 U	44 U
1,1-Dichloroethane	µg/kg	43 U	37 U	38 U	35 U	44 U
1,1-Dichloroethene	µg/kg	43 U	37 U	38 U	35 U	44 U
1,2,4-Trichlorobenzene	µg/kg	43 U	37 U	38 U	35 U	44 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	43 U	37 U	38 U	35 U	44 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	43 U	37 U	38 U	35 U	44 U
1,2-Dichlorobenzene	µg/kg	43 U	37 U	38 U	35 U	44 U
1,2-Dichloroethane	µg/kg	43 U	37 U	38 U	35 U	44 U
1,2-Dichloropropane	µg/kg	43 U	37 U	38 U	35 U	44 U
1,3-Dichlorobenzene	µg/kg	43 U	37 U	38 U	35 U	44 U
1,4-Dichlorobenzene	µg/kg	43 U	37 U	38 U	35 U	44 U
2-Butanone ⁽⁶⁾	µg/kg	290 U	250 U	260 U	230 U	290 U
2-Hexanone	µg/kg	43 U	37 U	38 U	35 U	44 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	43 U	37 U	38 U	35 U	44 U
Acetone	µg/kg	140 U	120 U	130 U	120 U	150 U
Benzene	µg/kg	43 U	37 U	38 U	35 U	44 U
Bromodichloromethane	µg/kg	43 U	37 U	38 U	35 U	44 U
Bromoform	µg/kg	43 U	37 U	38 U	35 U	44 U
Bromomethane (Methyl bromide)	µg/kg	110 U	93 U	96 U	87 U	110 U
Carbon disulfide	µg/kg	43 U	37 U	38 U	35 U	44 U
Carbon tetrachloride	µg/kg	43 U	37 U	38 U	35 U	44 U
Chlorobenzene	µg/kg	43 U	37 U	38 U	35 U	44 U
Chloroethane	µg/kg	140 U	120 U	130 U	120 U	150 U
Chloroform (Trichloromethane)	µg/kg	43 U	37 U	38 U	35 U	44 U
Chloromethane (Methyl chloride)	µg/kg	140 U	120 U	130 U	120 U	150 U
cis-1,2-Dichloroethene	µg/kg	43 U	37 U	38 U	35 U	44 U
cis-1,3-Dichloropropene	µg/kg	43 U	37 U	38 U	35 U	44 U
Cyclohexane	µg/kg	43 U	37 U	38 U	35 U	44 U
Dibromochloromethane	µg/kg	43 U	37 U	38 U	35 U	44 U
Dichlorodifluoromethane (CFC-12)	µg/kg	43 U	37 U	38 U	35 U	44 U
Ethylbenzene	µg/kg	43 U	37 U	38 U	35 U	44 U
Isopropyl benzene	µg/kg	43 U	37 U	38 U	35 U	44 U
Methyl acetate	µg/kg	290 U	250 U	260 U	230 U	290 U
Methyl cyclohexane	µg/kg	43 U	37 U	38 U	35 U	44 U
Methyl tert butyl ether (MTBE)	µg/kg	43 U	37 U	38 U	35 U	44 U
Methylene chloride	µg/kg	43 U	37 U	38 U	35 U	44 U
Styrene	µg/kg	43 U	37 U	38 U	35 U	44 U
Tetrachloroethene	µg/kg	43 U	37 U	38 U	35 U	44 U
Toluene	µg/kg	43 U	37 U	38 U	35 U	44 U
trans-1,2-Dichloroethene	µg/kg	43 U	37 U	38 U	35 U	44 U
trans-1,3-Dichloropropene	µg/kg	43 U	37 U	38 U	35 U	44 U
Trichloroethene	µg/kg	43 U	37 U	38 U	35 U	44 U

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB282-13	SB284-13	SB284-13	SB284-13	SB284-13	SB290-13
Sample Identification	SO-017360-102213-MR-039	SO-017360-102213-MR-030	SO-017360-102213-MR-031	SO-017360-102213-MR-032	SO-017360-102213-MR-033	SB-017360-102113-MR-005
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/21/2013
Sample Depth	(8-10) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS
Sample Type			Duplicate			

VOCs (cont'd)

Trichlorofluoromethane (CFC-11)	µg/kg	43 U	37 U	38 U	35 U	44 U	34 U
Trifluorotrichloroethane (Freon 113)	µg/kg	43 U	37 U	38 U	35 U	44 U	34 U
Vinyl chloride	µg/kg	43 U	37 U	38 U	35 U	44 U	34 U
Xylenes (total)	µg/kg	130 U	110 U	120 U	100 U	130 U	100 U

Semi-Volatile Organic Compounds (SVOCs)

2-Methylnaphthalene	µg/kg	7.1 U	7.2 U	7.1 U	7.0 U	7.3 U	-
Acenaphthene	µg/kg	7.1 U	7.2 U	7.1 U	7.0 U	7.3 U	-
Acenaphthylene	µg/kg	7.1 U	7.2 U	7.1 U	7.0 U	7.3 U	-
Anthracene	µg/kg	7.1 U	7.2 U	7.1 U	7.0 U	7.3 U	-
Benzo(a)anthracene	µg/kg	7.1 U	41 J	7.1 U	7.0 U	7.3 U	-
Benzo(a)pyrene	µg/kg	7.1 U	27 J	7.1 U	7.0 U	7.3 U	-
Benzo(b)fluoranthene	µg/kg	7.1 U	32 J	7.1 U	7.0 U	7.3 U	-
Benzo(g,h,i)perylene	µg/kg	31	39 J	7.1 U	7.0 U	7.3 U	-
Benzo(k)fluoranthene	µg/kg	7.1 U	23 J	7.1 U	7.0 U	7.3 U	-
Chrysene	µg/kg	7.1 U	30 J	7.1 U	7.0 U	7.3 U	-
Dibenz(a,h)anthracene	µg/kg	7.1 U	7.2 U	7.1 U	7.0 U	7.3 U	-
Fluoranthene	µg/kg	7.1 U	32 J	7.1 U	7.0 U	7.3 U	-
Fluorene	µg/kg	7.1 U	7.2 U	7.1 U	7.0 U	7.3 U	-
Indeno(1,2,3-cd)pyrene	µg/kg	7.1 U	7.2 U	7.1 U	7.0 U	7.3 U	-
Naphthalene	µg/kg	7.1 U	7.2 U	7.1 U	7.0 U	7.3 U	-
Phenanthrene	µg/kg	7.1 U	29 J	7.1 U	7.0 U	7.3 U	-
Pyrene	µg/kg	7.1 U	29 J	7.1 U	7.0 U	7.3 U	-

Metals

Antimony	µg/kg	69 J	3400 J	990 J	91 J	65 J	-
Arsenic	µg/kg	1500	1600	1700	1200	1400	-
Barium	µg/kg	11000	9600 J	7400 J	6500 J	11000 J	-
Beryllium	µg/kg	160 J	76 J	37 J	120 J	110 J	-
Cadmium	µg/kg	48 J	520	480	29 J	97 J	-
Chromium	µg/kg	4800	15000	22000 ^d	5400	7200	-
Cobalt	µg/kg	2000	1100	1100	1600	2000	-
Copper	µg/kg	6500 J	4500	5100	1200	4900	-
Iron	µg/kg	3700000	7400000	7600000	3800000	5000000	-
Lead	µg/kg	2100	5200	5700	1900	2400	-
Manganese	µg/kg	26000 J	79000 J	95000 J	24000 J	37000 J	-
Mercury	µg/kg	38 J	10 J	13 J	8.6 J	25 J	-
Molybdenum	µg/kg	530	16000 ^{bc}	23000 ^{bc}	200 J	360 J	-
Nickel	µg/kg	3800	12000	17000	3500	5700	-
Selenium	µg/kg	420 ^d	180 J	110 J	84 J	320 J	-
Silver	µg/kg	18 J	1300 ^d	1800 ^d	5.9 J	12 J	-
Thallium	µg/kg	64 J	33 J	28 J	24 J	44 J	-
Vanadium	µg/kg	10000 J	6600	3400	8200	11000	-
Zinc	µg/kg	8300	15000	19000	5400	9400	-

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB282-13	SB284-13	SB284-13	SB284-13	SB284-13	SB284-13	SB290-13
Sample Identification	SO-017360-102213-MR-039	SO-017360-102213-MR-030	SO-017360-102213-MR-031	SO-017360-102213-MR-032	SO-017360-102213-MR-033	SB-017360-102113-MR-005	
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/21/2013	
Sample Depth	(8-10) ft BGS	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	
Sample Type			Duplicate				

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	350 U	86 U	86 U	85 U	93 U	-
Aroclor-1221 (PCB-1221)	µg/kg	350 U	86 U	86 U	85 U	93 U	-
Aroclor-1232 (PCB-1232)	µg/kg	350 U	86 U	86 U	85 U	93 U	-
Aroclor-1242 (PCB-1242)	µg/kg	350 U	86 U	86 U	85 U	93 U	-
Aroclor-1248 (PCB-1248)	µg/kg	350 U	86 U	86 U	85 U	93 U	-
Aroclor-1254 (PCB-1254)	µg/kg	350 U	86 U	86 U	85 U	93 U	-
Aroclor-1260 (PCB-1260)	µg/kg	350 U	86 U	86 U	85 U	93 U	-
Total PCBs	µg/kg	ND	ND	ND	ND	ND	-

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		SB290-13	SB290-13	SB290-13	SB290-13	SB290-13	SB290-13
Sample Identification		SB-017360-102113-MR-006	SB-017360-102113-MR-007	SB-017360-102113-MR-008	SB-017360-102113-MR-010	SB-017360-102113-MR-009	SB-017360-102113-MR-011
Sample Date		10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth		(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(12-14) ft BGS
Sample Type							
Volatile Organic Compounds (VOCs)	Units						
1,1,1-Trichloroethane	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,1,2,2-Tetrachloroethane	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,1,2-Trichloroethane	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,1-Dichloroethane	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,1-Dichloroethene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,2,4-Trichlorobenzene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,2-Dichlorobenzene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,2-Dichloroethane	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,2-Dichloropropane	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,3-Dichlorobenzene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
1,4-Dichlorobenzene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
2-Butanone ⁽⁶⁾	µg/kg	280 U	220 U	220 U	230 U	4400 U	210 U
2-Hexanone	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Acetone	µg/kg	140 U	210	110 U	110 U	2200 U	110 U
Benzene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Bromodichloromethane	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Bromoform	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Bromomethane (Methyl bromide)	µg/kg	100 U	83 U	84 U	86 U	1600 U	80 U
Carbon disulfide	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Carbon tetrachloride	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Chlorobenzene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Chloroethane	µg/kg	140 U	110 U	110 U	110 U	2200 U	110 U
Chloroform (Trichloromethane)	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Chloromethane (Methyl chloride)	µg/kg	140 U	110 U	110 U	110 U	2200 U	110 U
cis-1,2-Dichloroethene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
cis-1,3-Dichloropropene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Cyclohexane	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Dibromochloromethane	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Dichlorodifluoromethane (CFC-12)	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Ethylbenzene	µg/kg	42 U	13 J	15 J	17 J	660 U	32 U
Isopropyl benzene	µg/kg	42 U	15 J	65	77	660 U	32 U
Methyl acetate	µg/kg	280 U	250	220 U	230 U	4400 U	210 U
Methyl cyclohexane	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Methyl tert butyl ether (MTBE)	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Methylene chloride	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Styrene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Tetrachloroethene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Toluene	µg/kg	42 U	22 J	34 U	34 U	660 U	32 U
trans-1,2-Dichloroethene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
trans-1,3-Dichloropropene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Trichloroethene	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		<i>SB290-13</i>	<i>SB290-13</i>	<i>SB290-13</i>	<i>SB290-13</i>	<i>SB290-13</i>	<i>SB290-13</i>
Sample Identification		<i>SB-017360-102113-MR-006</i>	<i>SB-017360-102113-MR-007</i>	<i>SB-017360-102113-MR-008</i>	<i>SB-017360-102113-MR-010</i>	<i>SB-017360-102113-MR-009</i>	<i>SB-017360-102113-MR-011</i>
Sample Date		<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>
Sample Depth		<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(12-14) ft BGS</i>
Sample Type							
VOCs (cont'd)							
Trichlorofluoromethane (CFC-11)	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Trifluorotrichloroethane (Freon 113)	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Vinyl chloride	µg/kg	42 U	33 U	34 U	34 U	660 U	32 U
Xylenes (total)	µg/kg	130 U	51 J	100	120	2000 U	96 U
Semi-Volatile Organic Compounds (SVOCs)							
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-
Metals							
Antimony	µg/kg	-	-	-	-	-	-
Arsenic	µg/kg	-	-	-	-	-	-
Barium	µg/kg	-	-	-	-	-	-
Beryllium	µg/kg	-	-	-	-	-	-
Cadmium	µg/kg	-	-	-	-	-	-
Chromium	µg/kg	-	-	-	-	-	-
Cobalt	µg/kg	-	-	-	-	-	-
Copper	µg/kg	-	-	-	-	-	-
Iron	µg/kg	-	-	-	-	-	-
Lead	µg/kg	-	-	-	-	-	-
Manganese	µg/kg	-	-	-	-	-	-
Mercury	µg/kg	-	-	-	-	-	-
Molybdenum	µg/kg	-	-	-	-	-	-
Nickel	µg/kg	-	-	-	-	-	-
Selenium	µg/kg	-	-	-	-	-	-
Silver	µg/kg	-	-	-	-	-	-
Thallium	µg/kg	-	-	-	-	-	-
Vanadium	µg/kg	-	-	-	-	-	-
Zinc	µg/kg	-	-	-	-	-	-

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB290-13	SB290-13	SB290-13	SB290-13	SB290-13	SB290-13
Sample Identification	SB-017360-102113-MR-006	SB-017360-102113-MR-007	SB-017360-102113-MR-008	SB-017360-102113-MR-010	SB-017360-102113-MR-009	SB-017360-102113-MR-011
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(12-14) ft BGS
Sample Type						

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-
Total PCBs	µg/kg	-	-	-	-	-

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB291-13	SB291-13	SB291-13	SB291-13	SB291-13	SB292-13
Sample Identification	SB-017360-102113-MR-013	SB-017360-102113-MR-014	SB-017360-102113-MR-015	SB-017360-102113-MR-016	SB-017360-102113-MR-017	SB-017360-102113-MR-018
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS
Sample Type						
Volatile Organic Compounds (VOCs)						
	Units					
1,1,1-Trichloroethane	µg/kg	42 U	42 U	38 U	49 U	35 U
1,1,2,2-Tetrachloroethane	µg/kg	42 U	42 U	38 U	49 U	35 U
1,1,2-Trichloroethane	µg/kg	42 U	42 U	38 U	49 U	35 U
1,1-Dichloroethane	µg/kg	42 U	42 U	38 U	49 U	35 U
1,1-Dichloroethene	µg/kg	42 U	42 U	38 U	49 U	35 U
1,2,4-Trichlorobenzene	µg/kg	42 U	42 U	38 U	49 U	35 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	42 U	42 U	38 U	49 U	35 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	42 U	42 U	38 U	49 U	35 U
1,2-Dichlorobenzene	µg/kg	42 U	42 U	38 U	49 U	35 U
1,2-Dichloroethane	µg/kg	42 U	42 U	38 U	49 U	35 U
1,2-Dichloropropane	µg/kg	42 U	42 U	38 U	49 U	35 U
1,3-Dichlorobenzene	µg/kg	42 U	42 U	38 U	49 U	35 U
1,4-Dichlorobenzene	µg/kg	42 U	42 U	38 U	49 U	35 U
2-Butanone ⁽⁶⁾	µg/kg	280 U	280 U	250 U	330 U	230 U
2-Hexanone	µg/kg	42 U	42 U	38 U	49 U	35 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	42 U	42 U	38 U	49 U	35 U
Acetone	µg/kg	140 U	140 U	130 U	160 U	120 U
Benzene	µg/kg	42 U	42 U	38 U	49 U	35 U
Bromodichloromethane	µg/kg	42 U	42 U	38 U	49 U	35 U
Bromoform	µg/kg	42 U	42 U	38 U	49 U	35 U
Bromomethane (Methyl bromide)	µg/kg	100 U	110 U	95 U	120 U	87 U
Carbon disulfide	µg/kg	42 U	42 U	38 U	49 U	35 U
Carbon tetrachloride	µg/kg	42 U	42 U	38 U	49 U	35 U
Chlorobenzene	µg/kg	42 U	42 U	38 U	49 U	35 U
Chloroethane	µg/kg	140 U	140 U	130 U	160 U	120 U
Chloroform (Trichloromethane)	µg/kg	42 U	42 U	38 U	49 U	35 U
Chloromethane (Methyl chloride)	µg/kg	140 U	140 U	130 U	160 U	120 U
cis-1,2-Dichloroethene	µg/kg	42 U	42 U	38 U	49 U	35 U
cis-1,3-Dichloropropene	µg/kg	42 U	42 U	38 U	49 U	35 U
Cyclohexane	µg/kg	42 U	42 U	38 U	49 U	35 U
Dibromochloromethane	µg/kg	42 U	42 U	38 U	49 U	35 U
Dichlorodifluoromethane (CFC-12)	µg/kg	42 U	42 U	38 U	49 U	35 U
Ethylbenzene	µg/kg	42 U	42 U	38 U	49 U	35 U
Isopropyl benzene	µg/kg	42 U	42 U	38 U	49 U	35 U
Methyl acetate	µg/kg	280 U	280 U	250 U	330 U	230 U
Methyl cyclohexane	µg/kg	42 U	42 U	38 U	49 U	35 U
Methyl tert butyl ether (MTBE)	µg/kg	42 U	42 U	38 U	49 U	35 U
Methylene chloride	µg/kg	42 U	42 U	38 U	49 U	35 U
Styrene	µg/kg	42 U	42 U	38 U	49 U	35 U
Tetrachloroethene	µg/kg	42 U	42 U	38 U	49 U	35 U
Toluene	µg/kg	42 U	42 U	38 U	49 U	35 U
trans-1,2-Dichloroethene	µg/kg	42 U	42 U	38 U	49 U	35 U
trans-1,3-Dichloropropene	µg/kg	42 U	42 U	38 U	49 U	35 U
Trichloroethene	µg/kg	480 ^{bc}	410 ^{bc}	1400 ^{bce}	2000 ^{bcef}	35 U
						800 ^{bc}

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		<i>SB291-13</i>	<i>SB291-13</i>	<i>SB291-13</i>	<i>SB291-13</i>	<i>SB291-13</i>	<i>SB292-13</i>
Sample Identification		<i>SB-017360-102113-MR-013</i>	<i>SB-017360-102113-MR-014</i>	<i>SB-017360-102113-MR-015</i>	<i>SB-017360-102113-MR-016</i>	<i>SB-017360-102113-MR-017</i>	<i>SB-017360-102113-MR-018</i>
Sample Date		10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth		(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS
Sample Type							
VOCs (cont'd)							
Trichlorofluoromethane (CFC-11)	µg/kg	42 U	42 U	38 U	49 U	35 U	38 U
Trifluorotrichloroethane (Freon 113)	µg/kg	42 U	42 U	38 U	49 U	35 U	38 U
Vinyl chloride	µg/kg	42 U	42 U	38 U	49 U	35 U	38 U
Xylenes (total)	µg/kg	130 U	130 U	110 U	150 U	100 U	160
Semi-Volatile Organic Compounds (SVOCs)							
2-Methylnaphthalene	µg/kg	-	-	-	-	-	130
Acenaphthene	µg/kg	-	-	-	-	-	29
Acenaphthylene	µg/kg	-	-	-	-	-	170
Anthracene	µg/kg	-	-	-	-	-	230
Benzo(a)anthracene	µg/kg	-	-	-	-	-	590
Benzo(a)pyrene	µg/kg	-	-	-	-	-	920
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	1100
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	1400
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	700
Chrysene	µg/kg	-	-	-	-	-	870
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	280
Fluoranthene	µg/kg	-	-	-	-	-	1100
Fluorene	µg/kg	-	-	-	-	-	33
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	810
Naphthalene	µg/kg	-	-	-	-	-	120
Phenanthrene	µg/kg	-	-	-	-	-	540
Pyrene	µg/kg	-	-	-	-	-	1000
Metals							
Antimony	µg/kg	-	-	-	-	-	7200 ^{bc}
Arsenic	µg/kg	-	-	-	-	-	3900
Barium	µg/kg	-	-	-	-	-	160000 J
Beryllium	µg/kg	-	-	-	-	-	170 J
Cadmium	µg/kg	-	-	-	-	-	2200
Chromium	µg/kg	-	-	-	-	-	63000 ^{bcd}
Cobalt	µg/kg	-	-	-	-	-	10000 ^{bcd}
Copper	µg/kg	-	-	-	-	-	200000 ^d
Iron	µg/kg	-	-	-	-	-	1900000 ^{bc}
Lead	µg/kg	-	-	-	-	-	300000
Manganese	µg/kg	-	-	-	-	-	310000 J
Mercury	µg/kg	-	-	-	-	-	26 J
Molybdenum	µg/kg	-	-	-	-	-	13000 ^{bc}
Nickel	µg/kg	-	-	-	-	-	46000
Selenium	µg/kg	-	-	-	-	-	440 J ^d
Silver	µg/kg	-	-	-	-	-	660 J
Thallium	µg/kg	-	-	-	-	-	2200 U
Vanadium	µg/kg	-	-	-	-	-	11000
Zinc	µg/kg	-	-	-	-	-	190000 ^d

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB291-13	SB291-13	SB291-13	SB291-13	SB291-13	SB292-13
Sample Identification	SB-017360-102113-MR-013	SB-017360-102113-MR-014	SB-017360-102113-MR-015	SB-017360-102113-MR-016	SB-017360-102113-MR-017	SO-017360-102113-MR-018
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS
Sample Type						

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	89 U
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	89 U
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	89 U
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	89 U
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	89 U
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	89 U
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	89 U
Total PCBs	µg/kg	-	-	-	-	ND

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB292-13	SB292-13	SB292-13	SB294-13	SB294-13	SB294-13	
Sample Identification	SO-017360-102113-MR-019	SO-017360-102113-MR-020	SO-017360-102113-MR-021	SO-017360-102113-MR-023	SO-017360-102113-MR-024	SO-017360-102113-MR-025	
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013	
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	
Sample Type							
Volatile Organic Compounds (VOCs)	Units						
1,1,1-Trichloroethane	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,1,2,2-Tetrachloroethane	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,1,2-Trichloroethane	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,1-Dichloroethane	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,1-Dichloroethene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,2,4-Trichlorobenzene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,2-Dichlorobenzene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,2-Dichloroethane	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,2-Dichloropropane	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,3-Dichlorobenzene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
1,4-Dichlorobenzene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
2-Butanone ⁽⁶⁾	µg/kg	220 U	250 U	250 U	270 U	440 U	300 U
2-Hexanone	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Acetone	µg/kg	110 U	120 U	120 U	140 U	220 U	150 U
Benzene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Bromodichloromethane	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Bromoform	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Bromomethane (Methyl bromide)	µg/kg	84 U	93 U	93 U	100 U	170 U	110 U
Carbon disulfide	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Carbon tetrachloride	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Chlorobenzene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Chloroethane	µg/kg	110 U	120 U	120 U	140 U	220 U	150 U
Chloroform (Trichloromethane)	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Chloromethane (Methyl chloride)	µg/kg	110 U	120 U	120 U	140 U	220 U	150 U
cis-1,2-Dichloroethene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
cis-1,3-Dichloropropene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Cyclohexane	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Dibromochloromethane	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Dichlorodifluoromethane (CFC-12)	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Ethylbenzene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Isopropyl benzene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Methyl acetate	µg/kg	220 U	250 U	250 U	130 J	440 U	300 U
Methyl cyclohexane	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Methyl tert butyl ether (MTBE)	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Methylene chloride	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Styrene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Tetrachloroethene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Toluene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
trans-1,2-Dichloroethene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
trans-1,3-Dichloropropene	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Trichloroethene	µg/kg	34 U	37 U	37 U	550 ^{bc}	67 U	45 U

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		SB292-13	SB292-13	SB292-13	SB294-13	SB294-13	SB294-13
Sample Identification		SO-017360-102113-MR-019	SO-017360-102113-MR-020	SO-017360-102113-MR-021	SO-017360-102113-MR-023	SO-017360-102113-MR-024	SO-017360-102113-MR-025
Sample Date		10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS
Sample Type							
VOCs (cont'd)							
Trichlorofluoromethane (CFC-11)	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Trifluorotrichloroethane (Freon 113)	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Vinyl chloride	µg/kg	34 U	37 U	37 U	41 U	67 U	45 U
Xylenes (total)	µg/kg	100 U	110 U	110 U	120 U	200 U	140 U
Semi-Volatile Organic Compounds (SVOCs)							
2-Methylnaphthalene	µg/kg	6.9 U	6.8 U	7.1 U	33	7.0 U	7.0 U
Acenaphthene	µg/kg	6.9 U	6.8 U	7.1 U	7.0 U	7.0 U	7.0 U
Acenaphthylene	µg/kg	6.9 U	6.8 U	7.1 U	7.0 U	7.0 U	7.0 U
Anthracene	µg/kg	6.9 U	6.8 U	7.1 U	7.0 U	7.0 U	7.0 U
Benzo(a)anthracene	µg/kg	6.9 U	6.8 U	7.1 U	63	7.0 U	7.0 U
Benzo(a)pyrene	µg/kg	6.9 U	6.8 U	7.1 U	46	7.0 U	7.0 U
Benzo(b)fluoranthene	µg/kg	6.9 U	6.8 U	7.1 U	66	7.0 U	7.0 U
Benzo(g,h,i)perylene	µg/kg	6.9 U	6.8 U	7.1 U	66	7.0 U	7.0 U
Benzo(k)fluoranthene	µg/kg	6.9 U	6.8 U	7.1 U	42	7.0 U	7.0 U
Chrysene	µg/kg	6.9 U	6.8 U	7.1 U	82	7.0 U	7.0 U
Dibenz(a,h)anthracene	µg/kg	6.9 U	6.8 U	7.1 U	7.0 U	7.0 U	7.0 U
Fluoranthene	µg/kg	6.9 U	6.8 U	7.1 U	68	7.0 U	7.0 U
Fluorene	µg/kg	6.9 U	6.8 U	7.1 U	7.0 U	7.0 U	7.0 U
Indeno(1,2,3-cd)pyrene	µg/kg	6.9 U	6.8 U	7.1 U	36	7.0 U	7.0 U
Naphthalene	µg/kg	6.9 U	6.8 U	7.1 U	22	7.0 U	7.0 U
Phenanthrene	µg/kg	6.9 U	6.8 U	7.1 U	73	7.0 U	7.0 U
Pyrene	µg/kg	6.9 U	6.8 U	7.1 U	70	7.0 U	7.0 U
Metals							
Antimony	µg/kg	110 J	24 J	1800 U	4400 ^{bc}	120 J	31 J
Arsenic	µg/kg	1100	870	550 J	12000 ^{bcdio}	980	1200
Barium	µg/kg	13000 J	5600 J	5500 J	31000 J	11000 J	3900 J
Beryllium	µg/kg	89 J	69 J	130 J	130 J	76 J	87 J
Cadmium	µg/kg	52 J	20 J	730 U	560 J	53 J	27 J
Chromium	µg/kg	6600	5500	7600	490000 ^{bcdmn}	6600	5200
Cobalt	µg/kg	1900	1500	2200	19000 ^{bcd}	1500	1600
Copper	µg/kg	7700	3800	7600	80000 ^d	2800	2000
Iron	µg/kg	5000000	3700000	4500000	82000000 ^{bc}	4600000	4200000
Lead	µg/kg	6700	3300	2000	50000	4200	1900
Manganese	µg/kg	35000 J	28000 J	55000 J	620000 J ^{bcd}	37000 J	29000 J
Mercury	µg/kg	15 J	9.2 J	16 J	22 J	11 J	11 J
Molybdenum	µg/kg	490	42 J	150 J	150000 ^{bcd}	850	150 J
Nickel	µg/kg	4200	3800	7400	1400000 ^{bcd}	17000	3900
Selenium	µg/kg	240 J	190 J	340 J	280 J	170 J	170 J
Silver	µg/kg	80 J	52 J	1800 U	320 J	22 J	390 U
Thallium	µg/kg	45 J	19 J	58 J	1800 U	31 J	24 J
Vanadium	µg/kg	10000	7100	8600	1800 U	8600	8800
Zinc	µg/kg	15000	6500	11000	41000	10000	6300

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB292-13		SB292-13		SB292-13		SB294-13		SB294-13			
Sample Identification	SO-017360-102113-MR-019		SO-017360-102113-MR-020		SO-017360-102113-MR-021		SO-017360-102113-MR-023		SO-017360-102113-MR-024		SO-017360-102113-MR-025	
Sample Date	10/21/2013		10/21/2013		10/21/2013		10/21/2013		10/21/2013		10/21/2013	
Sample Depth	(4-6) ft BGS		(6-8) ft BGS		(8-10) ft BGS		(2-4) ft BGS		(4-6) ft BGS		(6-8) ft BGS	
Sample Type												
Polychlorinated Biphenyls (PCBs)												
Aroclor-1016 (PCB-1016)	µg/kg	84 U		83 U		85 U		88 U		85 U		87 U
Aroclor-1221 (PCB-1221)	µg/kg	84 U		83 U		85 U		88 U		85 U		87 U
Aroclor-1232 (PCB-1232)	µg/kg	84 U		83 U		85 U		88 U		85 U		87 U
Aroclor-1242 (PCB-1242)	µg/kg	84 U		83 U		85 U		88 U		85 U		87 U
Aroclor-1248 (PCB-1248)	µg/kg	84 U		83 U		85 U		88 U		85 U		87 U
Aroclor-1254 (PCB-1254)	µg/kg	84 U		83 U		85 U		88 U		85 U		87 U
Aroclor-1260 (PCB-1260)	µg/kg	84 U		83 U		85 U		88 U		85 U		87 U
Total PCBs	µg/kg	ND		ND		ND		ND		ND		ND

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB294-13	SB294-13	SB295-13	SB295-13	SB295-13	SB295-13
Sample Identification	SO-017360-102113-MR-026	SO-017360-102113-MR-027	SO-017360-102313-MR-068	SO-017360-102313-MR-069	SO-017360-102313-MR-070	SO-017360-102313-MR-071
Sample Date	10/21/2013	10/21/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Sample Depth	(8-10) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type		Duplicate				
Volatile Organic Compounds (VOCs)	Units					
1,1,1-Trichloroethane	µg/kg	37 U	34 U	36 U	40 U	87 U
1,1,2,2-Tetrachloroethane	µg/kg	37 U	34 U	36 U	40 U	87 U
1,1,2-Trichloroethane	µg/kg	37 U	34 U	36 U	40 U	87 U
1,1-Dichloroethane	µg/kg	37 U	34 U	36 U	40 U	87 U
1,1-Dichloroethene	µg/kg	37 U	34 U	36 U	40 U	87 U
1,2,4-Trichlorobenzene	µg/kg	37 U	34 U	36 U	40 U	87 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	37 U	34 U	36 U	40 U	87 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	37 U	34 U	36 U	40 U	87 U
1,2-Dichlorobenzene	µg/kg	37 U	34 U	36 U	40 U	87 U
1,2-Dichloroethane	µg/kg	37 U	34 U	36 U	40 U	87 U
1,2-Dichloropropane	µg/kg	37 U	34 U	36 U	40 U	87 U
1,3-Dichlorobenzene	µg/kg	37 U	34 U	36 U	40 U	87 U
1,4-Dichlorobenzene	µg/kg	37 U	34 U	36 U	40 U	87 U
2-Butanone ⁽⁶⁾	µg/kg	250 U	220 U	240 U	270 U	580 U
2-Hexanone	µg/kg	37 U	34 U	36 U	40 U	87 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	37 U	34 U	36 U	40 U	87 U
Acetone	µg/kg	120 U	110 U	120 U	130 U	290 U
Benzene	µg/kg	37 U	34 U	36 U	40 U	87 U
Bromodichloromethane	µg/kg	37 U	34 U	36 U	40 U	87 U
Bromoform	µg/kg	37 U	34 U	36 U	40 U	87 U
Bromomethane (Methyl bromide)	µg/kg	93 U	84 U	89 U	100 U	220 U
Carbon disulfide	µg/kg	37 U	34 U	36 U	40 U	87 U
Carbon tetrachloride	µg/kg	37 U	34 U	36 U	40 U	87 U
Chlorobenzene	µg/kg	37 U	34 U	36 U	40 U	87 U
Chloroethane	µg/kg	120 U	110 U	120 U	130 U	290 U
Chloroform (Trichloromethane)	µg/kg	37 U	34 U	36 U	40 U	87 U
Chloromethane (Methyl chloride)	µg/kg	120 U	110 U	120 U	130 U	290 U
cis-1,2-Dichloroethene	µg/kg	37 U	34 U	36 U	40 U	87 U
cis-1,3-Dichloropropene	µg/kg	37 U	34 U	36 U	40 U	87 U
Cyclohexane	µg/kg	37 U	34 U	36 U	40 U	87 U
Dibromochloromethane	µg/kg	37 U	34 U	36 U	40 U	87 U
Dichlorodifluoromethane (CFC-12)	µg/kg	37 U	34 U	36 U	40 U	87 U
Ethylbenzene	µg/kg	37 U	34 U	36 U	40 U	87 U
Isopropyl benzene	µg/kg	37 U	34 U	36 U	40 U	87 U
Methyl acetate	µg/kg	250 U	220 U	240 U	270 U	580 U
Methyl cyclohexane	µg/kg	37 U	34 U	36 U	40 U	87 U
Methyl tert butyl ether (MTBE)	µg/kg	37 U	34 U	36 U	40 U	87 U
Methylene chloride	µg/kg	37 U	34 U	36 U	40 U	87 U
Styrene	µg/kg	37 U	34 U	36 U	40 U	87 U
Tetrachloroethene	µg/kg	37 U	34 U	36 U	40 U	87 U
Toluene	µg/kg	37 U	34 U	34 J	40 U	87 U
trans-1,2-Dichloroethene	µg/kg	37 U	34 U	36 U	40 U	87 U
trans-1,3-Dichloropropene	µg/kg	37 U	34 U	36 U	40 U	87 U
Trichloroethene	µg/kg	37 U	34 U	36 U	40 U	87 U
				990 ^{bc}	580 ^{bc}	1300 ^{bce}
						700 ^{bc}

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		SB294-13	SB294-13	SB295-13	SB295-13	SB295-13	SB295-13
Sample Identification		SO-017360-102113-MR-026	SO-017360-102113-MR-027	SO-017360-102313-MR-068	SO-017360-102313-MR-069	SO-017360-102313-MR-070	SO-017360-102313-MR-071
Sample Date		10/21/2013	10/21/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Sample Depth		(8-10) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type			Duplicate				
VOCs (cont'd)							
Trichlorofluoromethane (CFC-11)	µg/kg	37 U	34 U	36 U	40 U	87 U	36 U
Trifluorotrichloroethane (Freon 113)	µg/kg	37 U	34 U	36 U	40 U	87 U	36 U
Vinyl chloride	µg/kg	37 U	34 U	36 U	40 U	87 U	36 U
Xylenes (total)	µg/kg	110 U	100 U	110 U	120 U	260 U	110 U
Semi-Volatile Organic Compounds (SVOCs)							
2-Methylnaphthalene	µg/kg	7.0 U	6.9 U	40	32	350	110
Acenaphthene	µg/kg	7.0 U	6.9 U	7.1 U	7.1 U	73 U	170
Acenaphthylene	µg/kg	7.0 U	6.9 U	24	7.1 U	260	69
Anthracene	µg/kg	7.0 U	6.9 U	100	25	1000	440
Benzo(a)anthracene	µg/kg	7.0 U	6.9 U	330	110	2800	720
Benzo(a)pyrene	µg/kg	7.0 U	6.9 U	400	100	2900 ^p	650
Benzo(b)fluoranthene	µg/kg	7.0 U	6.9 U	400	110	3200	1200
Benzo(g,h,i)perylene	µg/kg	7.0 U	6.9 U	360	110	2000	600
Benzo(k)fluoranthene	µg/kg	7.0 U	6.9 U	360	100	2400	230
Chrysene	µg/kg	7.0 U	6.9 U	400	120	3400	820
Dibenz(a,h)anthracene	µg/kg	7.0 U	6.9 U	63	7.1 U	570	140
Fluoranthene	µg/kg	7.0 U	6.9 U	650	170	4900	1600
Fluorene	µg/kg	7.0 U	6.9 U	25	7.1 U	840	220
Indeno(1,2,3-cd)pyrene	µg/kg	7.0 U	6.9 U	260	78	1400	390
Naphthalene	µg/kg	7.0 U	6.9 U	22	7.1 U	73 U	62
Phenanthrene	µg/kg	7.0 U	6.9 U	400	82	3800 ^d	1300
Pyrene	µg/kg	7.0 U	6.9 U	650	170	4100	1600
Metals							
Antimony	µg/kg	33 J	36 J	1200 J	690 J	460	700
Arsenic	µg/kg	970	1100	3500	4200	6200 ^{bcd}	860
Barium	µg/kg	5100 J	5800 J	46000	37000	59000	170000
Beryllium	µg/kg	110 J	110 J	190 J	170 J	500	53 J
Cadmium	µg/kg	36 J	36 J	820	430 J	66 J	490
Chromium	µg/kg	10000	7000	100000 ^{bcd}	55000 ^{bcd}	7500	10000
Cobalt	µg/kg	2800	2500	8200 ^{bcd}	5400	3100	940
Copper	µg/kg	4300	5000	50000	33000	11000	6300
Iron	µg/kg	5500000	5400000	9300000	11000000	2200000	3400000
Lead	µg/kg	2200	2400	52000 J	46000 J	14000 J	52000 J
Manganese	µg/kg	74000 J	86000 J	350000	270000	30000	54000
Mercury	µg/kg	15 J	11 J	25 J	10 J	95	18 J
Molybdenum	µg/kg	130 J	410 J	20000 ^{bc}	39000 ^{bc}	1200	12000 ^{bc}
Nickel	µg/kg	6600	5400	85000 ^d	41000	11000	8300
Selenium	µg/kg	470 ^d	400 J	2000 U	330 J	180 J	68 J
Silver	µg/kg	390 U	410 U	900 J	260 J	33 J	2000 ^d
Thallium	µg/kg	34 J	33 J	53 J	1700 U	90 J	13 J
Vanadium	µg/kg	11000	9900	6900	6600	5400	1800
Zinc	µg/kg	9800	9900	65000	37000	10000	58000

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB294-13	SB294-13	SB295-13	SB295-13	SB295-13	SB295-13
Sample Identification	SO-017360-102113-MR-026	SO-017360-102113-MR-027	SO-017360-102313-MR-068	SO-017360-102313-MR-069	SO-017360-102313-MR-070	SO-017360-102313-MR-071
Sample Date	10/21/2013	10/21/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Sample Depth	(8-10) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type		Duplicate				

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	87 U	86 U	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/kg	87 U	86 U	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/kg	87 U	86 U	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	87 U	86 U	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	87 U	86 U	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	87 U	86 U	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	87 U	86 U	-	-	-	-
Total PCBs	µg/kg	ND	ND	-	-	-	-

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB297-13	SB297-13	SB297-13	SB297-13	SB297-13	SB299-13
Sample Identification	SO-017360-102313-MR-073	SO-017360-102313-MR-074	SO-017360-102313-MR-075	SO-017360-102313-MR-076	SO-017360-102313-MR-077	SO-017360-102313-MR-062
Sample Date	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Sample Depth	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(2-4) ft BGS
Sample Type					Duplicate	
Volatile Organic Compounds (VOCs)	Units					
1,1,1-Trichloroethane	µg/kg	41 U	49 U	52 U	39 U	46 U
1,1,2,2-Tetrachloroethane	µg/kg	41 U	49 U	52 U	39 U	46 U
1,1,2-Trichloroethane	µg/kg	41 U	49 U	52 U	39 U	46 U
1,1-Dichloroethane	µg/kg	41 U	49 U	52 U	39 U	46 U
1,1-Dichloroethene	µg/kg	41 U	49 U	52 U	39 U	46 U
1,2,4-Trichlorobenzene	µg/kg	41 U	49 U	52 U	39 U	46 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	41 U	49 U	52 U	39 U	46 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	41 U	49 U	52 U	39 U	46 U
1,2-Dichlorobenzene	µg/kg	41 U	49 U	52 U	39 U	46 U
1,2-Dichloroethane	µg/kg	41 U	49 U	52 U	39 U	46 U
1,2-Dichloropropane	µg/kg	41 U	49 U	52 U	39 U	46 U
1,3-Dichlorobenzene	µg/kg	41 U	49 U	52 U	39 U	46 U
1,4-Dichlorobenzene	µg/kg	41 U	49 U	52 U	39 U	46 U
2-Butanone ⁽⁶⁾	µg/kg	270 U	330 U	350 U	260 U	310 U
2-Hexanone	µg/kg	41 U	49 U	52 U	39 U	46 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	41 U	49 U	52 U	39 U	46 U
Acetone	µg/kg	140 U	160 U	170 U	130 U	150 U
Benzene	µg/kg	31 J	49 U	52 U	39 U	46 U
Bromodichloromethane	µg/kg	41 U	49 U	52 U	39 U	46 U
Bromoform	µg/kg	41 U	49 U	52 U	39 U	46 U
Bromomethane (Methyl bromide)	µg/kg	100 U	120 U	130 U	97 U	120 U
Carbon disulfide	µg/kg	41 U	49 U	52 U	39 U	46 U
Carbon tetrachloride	µg/kg	41 U	49 U	52 U	39 U	46 U
Chlorobenzene	µg/kg	41 U	49 U	52 U	39 U	46 U
Chloroethane	µg/kg	140 U	160 U	170 U	130 U	150 U
Chloroform (Trichloromethane)	µg/kg	41 U	49 U	52 U	39 U	46 U
Chloromethane (Methyl chloride)	µg/kg	140 U	160 U	170 U	130 U	150 U
cis-1,2-Dichloroethene	µg/kg	41 U	49 U	52 U	39 U	46 U
cis-1,3-Dichloropropene	µg/kg	41 U	49 U	52 U	39 U	46 U
Cyclohexane	µg/kg	41 U	49 U	52 U	39 U	46 U
Dibromochloromethane	µg/kg	41 U	49 U	52 U	39 U	46 U
Dichlorodifluoromethane (CFC-12)	µg/kg	41 U	49 U	52 U	39 U	46 U
Ethylbenzene	µg/kg	24 J	49 U	52 U	39 U	46 U
Isopropyl benzene	µg/kg	41 U	49 U	52 U	39 U	46 U
Methyl acetate	µg/kg	270 U	330 U	350 U	210 J	280 J
Methyl cyclohexane	µg/kg	140	49 U	52 U	39 U	46 U
Methyl tert butyl ether (MTBE)	µg/kg	41 U	49 U	52 U	39 U	46 U
Methylene chloride	µg/kg	41 U	49 U	52 U	39 U	46 U
Styrene	µg/kg	41 U	49 U	52 U	39 U	46 U
Tetrachloroethene	µg/kg	41 U	49 U	52 U	39 U	46 U
Toluene	µg/kg	110	49 U	52 U	39 U	46 U
trans-1,2-Dichloroethene	µg/kg	41 U	49 U	52 U	39 U	46 U
trans-1,3-Dichloropropene	µg/kg	41 U	49 U	52 U	39 U	46 U
Trichloroethene	µg/kg	2300 ^{bcef}	910 ^{bc}	590 ^{bc}	3000 ^{bcef}	3800 ^{bcef}
						320 ^{bc}

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB297-13	SB297-13	SB297-13	SB297-13	SB297-13	SB299-13
Sample Identification	SO-017360-102313-MR-073	SO-017360-102313-MR-074	SO-017360-102313-MR-075	SO-017360-102313-MR-076	SO-017360-102313-MR-077	SO-017360-102313-MR-062
Sample Date	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Sample Depth	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(2-4) ft BGS
Sample Type					Duplicate	

VOCs (cont'd)

Trichlorofluoromethane (CFC-11)	µg/kg	41 U	49 U	52 U	39 U	46 U	38 U
Trifluorotrichloroethane (Freon 113)	µg/kg	41 U	49 U	52 U	39 U	46 U	38 U
Vinyl chloride	µg/kg	41 U	49 U	52 U	39 U	46 U	38 U
Xylenes (total)	µg/kg	150	150 U	160 U	120 U	140 U	110 U

Semi-Volatile Organic Compounds (SVOCs)

2-Methylnaphthalene	µg/kg	130	120	33	74	83	54
Acenaphthene	µg/kg	7.3 U	100	7.1 U	27	44	7.1 U
Acenaphthylene	µg/kg	7.3 U	36	7.1 U	34	22	110
Anthracene	µg/kg	27	650	36	120	140	140
Benzo(a)anthracene	µg/kg	120	2400	150	560	490	400
Benzo(a)pyrene	µg/kg	130	2600 ^o	130	500	480	620
Benzo(b)fluoranthene	µg/kg	240	2400	140	1300	930	790
Benzo(g,h,i)perylene	µg/kg	86	1500	120	700	430	480
Benzo(k)fluoranthene	µg/kg	63	1900	120	380	230	490
Chrysene	µg/kg	130	2500	170	780	550	590
Dibenz(a,h)anthracene	µg/kg	31	360	20	170	110	110
Fluoranthene	µg/kg	200	5400	270	1500	1300	860
Fluorene	µg/kg	7.3 U	140	7.1 U	25	46	29
Indeno(1,2,3-cd)pyrene	µg/kg	79	1400	79	470	330	410
Naphthalene	µg/kg	75	53	7.1 U	76	66	54
Phenanthrene	µg/kg	180	2000	170	1000	840	320
Pyrene	µg/kg	180	4200	250	840	900	830

Metals

Antimony	µg/kg	370	240 J	130 J	28000 ^{bc}	13000 ^{bc}	1100
Arsenic	µg/kg	4800	3300	1300	17000 ^{bcd}	8100 ^{bcd}	2500
Barium	µg/kg	48000	37000	18000	300000	200000	32000
Beryllium	µg/kg	290	170 J	90 J	190 J	190 J	81 J
Cadmium	µg/kg	210	170 J	97 J	12000 ^{bcd}	5600 ^d	710
Chromium	µg/kg	9900	13000	5200	2000000 ^{bcdmn}	2700000 ^{bcdmno}	58000 ^{bcd}
Cobalt	µg/kg	2800	2700	1700	100000 ^{bcd}	52000 ^{bcd}	5500
Copper	µg/kg	17000	14000	9600	880000 ^d	620000 ^d	50000 J
Iron	µg/kg	7000000	5500000	3800000	140000000 ^{bc}	54000000 ^{bc}	8200000
Lead	µg/kg	38000 J	24000 J	10000 J	2300000 J ^{bcp}	540000 J ^b	81000
Manganese	µg/kg	110000	150000	110000	6200000 ^{bcdmn}	3600000 ^{bcdmn}	210000 J
Mercury	µg/kg	17 J	12 J	9.6 J	83	65	28 J
Molybdenum	µg/kg	1800 ^b	1800 ^b	480	530000 ^{bcd}	330000 ^{bcd}	27000 ^{bc}
Nickel	µg/kg	11000	12000	4100	1900000 ^{bcd}	1700000 ^{bcd}	63000
Selenium	µg/kg	380	310 J	190 J	570 J ^d	2100 U	200 J
Silver	µg/kg	89 J	68 J	52 J	10000 ^{bd}	5700 ^{bd}	2100 ^d
Thallium	µg/kg	120 J	51 J	45 J	49 J	100 J	40 J
Vanadium	µg/kg	9700	7800	5700	17000 J	21000 U	5800 J
Zinc	µg/kg	22000	28000	17000	1000000 ^d	580000 ^d	89000

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB297-13	SB297-13	SB297-13	SB297-13	SB297-13	SB299-13
Sample Identification	SO-017360-102313-MR-073	SO-017360-102313-MR-074	SO-017360-102313-MR-075	SO-017360-102313-MR-076	SO-017360-102313-MR-077	SO-017360-102313-MR-062
Sample Date	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Sample Depth	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(2-4) ft BGS
Sample Type					Duplicate	

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-
Total PCBs	µg/kg	-	-	-	-	-

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB299-13	SB299-13	SB299-13	SB299-13	SB300-13	SB300-13
Sample Identification	SO-017360-102313-MR-063	SO-017360-102313-MR-064	SO-017360-102313-MR-065	SO-017360-102313-MR-066	SO-017360-102213-MR-058	SO-017360-102213-MR-059
Sample Date	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/22/2013	10/22/2013
Sample Depth	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type		Duplicate				
Volatile Organic Compounds (VOCs)						
	<i>Units</i>					
1,1,1-Trichloroethane	µg/kg	53 U	39 U	52 U	39 U	32 U
1,1,2,2-Tetrachloroethane	µg/kg	53 U	39 U	52 U	39 U	32 U
1,1,2-Trichloroethane	µg/kg	53 U	39 U	52 U	39 U	32 U
1,1-Dichloroethane	µg/kg	53 U	39 U	52 U	39 U	32 U
1,1-Dichloroethene	µg/kg	53 U	39 U	52 U	39 U	32 U
1,2,4-Trichlorobenzene	µg/kg	53 U	39 U	52 U	39 U	32 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	53 U	39 U	52 U	39 U	32 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	53 U	39 U	52 U	39 U	32 U
1,2-Dichlorobenzene	µg/kg	53 U	39 U	52 U	39 U	32 U
1,2-Dichloroethane	µg/kg	53 U	39 U	52 U	39 U	32 U
1,2-Dichloropropane	µg/kg	53 U	39 U	52 U	39 U	32 U
1,3-Dichlorobenzene	µg/kg	53 U	39 U	52 U	39 U	32 U
1,4-Dichlorobenzene	µg/kg	53 U	39 U	52 U	39 U	32 U
2-Butanone ⁽⁶⁾	µg/kg	360 U	260 U	350 U	260 U	220 U
2-Hexanone	µg/kg	53 U	39 U	52 U	39 U	32 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	53 U	39 U	52 U	39 U	32 U
Acetone	µg/kg	180 U	130 U	170 U	130 U	110 U
Benzene	µg/kg	53 U	39 U	52 U	39 U	32 U
Bromodichloromethane	µg/kg	53 U	39 U	52 U	39 U	32 U
Bromoform	µg/kg	53 U	39 U	52 U	39 U	32 U
Bromomethane (Methyl bromide)	µg/kg	130 U	99 U	130 U	98 U	81 U
Carbon disulfide	µg/kg	53 U	39 U	52 U	39 U	32 U
Carbon tetrachloride	µg/kg	53 U	39 U	52 U	39 U	32 U
Chlorobenzene	µg/kg	53 U	39 U	52 U	39 U	32 U
Chloroethane	µg/kg	180 U	130 U	170 U	130 U	110 U
Chloroform (Trichloromethane)	µg/kg	53 U	39 U	52 U	39 U	32 U
Chloromethane (Methyl chloride)	µg/kg	180 U	130 U	170 U	130 U	110 U
cis-1,2-Dichloroethene	µg/kg	53 U	120	52 U	39 U	32 U
cis-1,3-Dichloropropene	µg/kg	53 U	39 U	52 U	39 U	32 U
Cyclohexane	µg/kg	53 U	39 U	52 U	39 U	32 U
Dibromochloromethane	µg/kg	53 U	39 U	52 U	39 U	32 U
Dichlorodifluoromethane (CFC-12)	µg/kg	53 U	39 U	52 U	39 U	32 U
Ethylbenzene	µg/kg	53 U	39 U	52 U	39 U	32 U
Isopropyl benzene	µg/kg	53 U	39 U	52 U	39 U	32 U
Methyl acetate	µg/kg	360 U	260 U	350 U	260 U	220 U
Methyl cyclohexane	µg/kg	53 U	39 U	52 U	39 U	32 U
Methyl tert butyl ether (MTBE)	µg/kg	53 U	39 U	52 U	39 U	32 U
Methylene chloride	µg/kg	53 U	39 U	52 U	39 U	32 U
Styrene	µg/kg	53 U	39 U	52 U	39 U	32 U
Tetrachloroethene	µg/kg	53 U	39 U	52 U	39 U	32 U
Toluene	µg/kg	53 U	39 U	52 U	39 U	32 U
trans-1,2-Dichloroethene	µg/kg	53 U	64	52 U	39 U	32 U
trans-1,3-Dichloropropene	µg/kg	53 U	39 U	52 U	39 U	32 U
Trichloroethene	µg/kg	17000 ^{bcdelgh}	15000 ^{bcdelgh}	11000 ^{bcdel}	1100 ^{bce}	320 ^{bc}

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB299-13	SB299-13	SB299-13	SB299-13	SB300-13	SB300-13
Sample Identification	SO-017360-102313-MR-063	SO-017360-102313-MR-064	SO-017360-102313-MR-065	SO-017360-102313-MR-066	SO-017360-102213-MR-058	SO-017360-102213-MR-059
Sample Date	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/22/2013	10/22/2013
Sample Depth	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type		Duplicate				

VOCs (cont'd)

Trichlorofluoromethane (CFC-11)	µg/kg	53 U	39 U	52 U	39 U	32 U	36 U
Trifluorotrichloroethane (Freon 113)	µg/kg	53 U	39 U	52 U	39 U	32 U	36 U
Vinyl chloride	µg/kg	53 U	39 U	52 U	39 U	32 U	36 U
Xylenes (total)	µg/kg	160 U	120 U	160 U	120 U	97 U	110 U

Semi-Volatile Organic Compounds (SVOCs)

2-Methylnaphthalene	µg/kg	33	33	7.3 U	7.1 UJ	56	140 U
Acenaphthene	µg/kg	43	36	55	7.1 UJ	7.2 U	140 U
Acenaphthylene	µg/kg	7.5 U	7.4 U	7.3 U	7.1 UJ	120	140 U
Anthracene	µg/kg	63	50	40	7.1 UJ	710	660
Benzo(a)anthracene	µg/kg	600	430	470	61 J	2200	1500
Benzo(a)pyrene	µg/kg	330	290	470	73 J	2700 ^o	1100
Benzo(b)fluoranthene	µg/kg	2600	1700	1700	110 J	2700	1200
Benzo(g,h,i)perylene	µg/kg	1200	880	1100	47 J	1600	1100
Benzo(k)fluoranthene	µg/kg	1200	930	1100	29 J	2500	1100
Chrysene	µg/kg	2300	1600	1400	54 J	2400	1200
Dibenz(a,h)anthracene	µg/kg	470	340	410	22 J	340	140 U
Fluoranthene	µg/kg	1400	1100	950	100 J	5000	2800
Fluorene	µg/kg	7.5 U	7.4 U	7.3 U	7.1 UJ	260	140 U
Indeno(1,2,3-cd)pyrene	µg/kg	850	650	890	50 J	1400	600
Naphthalene	µg/kg	84	66	130	7.1 UJ	36	140 U
Phenanthrene	µg/kg	1200	860	870	40 J	2700 ^d	1700
Pyrene	µg/kg	950	660	620	94 J	4200	1900

Metals

Antimony	µg/kg	48000 ^{bc}	51000 ^{bc}	81000 ^{bc}	460 J	270 J	360 J
Arsenic	µg/kg	22000 ^{bcd}	21000 ^{bcd}	25000 ^{bcd}	1500 J	2000 J	3000
Barium	µg/kg	1300000 ^d	1200000 ^d	1800000 ^{bcd}	58000	23000	27000
Beryllium	µg/kg	170 J	150 J	190 J	150 J	120 J	180 J
Cadmium	µg/kg	22000 ^{bcd}	24000 ^{bcd}	28000 ^{bcd}	220 J	160 J	180 J
Chromium	µg/kg	1200000 ^{bcdmn}	1300000 ^{bcdmn}	1600000 ^{bcdmn}	29000 ^d	12000	9200
Cobalt	µg/kg	190000 ^{bcd}	250000 ^{bcd}	180000 ^{bcd}	3800	2400	2500
Copper	µg/kg	5800000 ^d	5000000 ^d	8800000 ^{bcd}	31000	15000 J	8600 J
Iron	µg/kg	140000000 ^{bc}	130000000 ^{bc}	160000000 ^{bc}	6800000	5200000	5700000
Lead	µg/kg	1800000 ^{jbcop}	4400000 ^{jbcop}	6600000 ^{jbcop}	30000 J	14000	14000
Manganese	µg/kg	4100000 ^{bcdmn}	4000000 ^{bcdmn}	6800000 ^{bcdmn}	160000	140000 J	110000 J
Mercury	µg/kg	37 J	40	26 J	18 J	26 J	34 J
Molybdenum	µg/kg	630000 ^{bcd}	610000 ^{bcd}	670000 ^{bcd}	8600 ^{bc}	2900 ^b	2000 ^b
Nickel	µg/kg	1500000 ^{bcd}	2000000 ^{bcd}	1800000 ^{bcd}	26000	9900	7600
Selenium	µg/kg	420 J ^d	540 J ^d	700 J ^d	2000 U	2100 U	1900 U
Silver	µg/kg	11000 ^{bd}	11000 ^{bd}	13000 ^{bd}	120 J	180 J	180 J
Thallium	µg/kg	85 J	77 J	70 J	58 J	58 J	56 J
Vanadium	µg/kg	110000 ^b	83000 ^b	91000 ^b	8600	7500 J	8400 J
Zinc	µg/kg	4000000 ^{bd}	4700000 ^{bd}	6200000 ^{bcd}	72000	25000	77000

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB299-13	SB299-13	SB299-13	SB299-13	SB300-13	SB300-13
Sample Identification	SO-017360-102313-MR-063	SO-017360-102313-MR-064	SO-017360-102313-MR-065	SO-017360-102313-MR-066	SO-017360-102213-MR-058	SO-017360-102213-MR-059
Sample Date	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/22/2013	10/22/2013
Sample Depth	(4-6) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type		Duplicate				

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/kg	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-
Total PCBs	µg/kg	-	-	-	-	-

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB300-13	SB300-13
Sample Identification	SO-017360-102213-MR-060	SO-017360-102213-MR-061
Sample Date	10/22/2013	10/22/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS
Sample Type		

Volatile Organic Compounds (VOCs)	Units		
1,1,1-Trichloroethane	µg/kg	82 U	35 U
1,1,2,2-Tetrachloroethane	µg/kg	82 U	35 U
1,1,2-Trichloroethane	µg/kg	82 U	35 U
1,1-Dichloroethane	µg/kg	82 U	35 U
1,1-Dichloroethene	µg/kg	82 U	35 U
1,2,4-Trichlorobenzene	µg/kg	82 U	35 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	82 U	35 U
1,2-Dibromoethane ⁽⁵⁾	µg/kg	82 U	35 U
1,2-Dichlorobenzene	µg/kg	82 U	35 U
1,2-Dichloroethane	µg/kg	82 U	35 U
1,2-Dichloropropane	µg/kg	82 U	35 U
1,3-Dichlorobenzene	µg/kg	82 U	35 U
1,4-Dichlorobenzene	µg/kg	82 U	35 U
2-Butanone ⁽⁶⁾	µg/kg	540 U	230 U
2-Hexanone	µg/kg	82 U	35 U
4-Methyl-2-pentanone ⁽⁷⁾	µg/kg	82 U	35 U
Acetone	µg/kg	270 U	120 U
Benzene	µg/kg	82 U	35 U
Bromodichloromethane	µg/kg	82 U	35 U
Bromoform	µg/kg	82 U	35 U
Bromomethane (Methyl bromide)	µg/kg	200 U	86 U
Carbon disulfide	µg/kg	82 U	35 U
Carbon tetrachloride	µg/kg	82 U	35 U
Chlorobenzene	µg/kg	82 U	35 U
Chloroethane	µg/kg	270 U	120 U
Chloroform (Trichloromethane)	µg/kg	82 U	35 U
Chloromethane (Methyl chloride)	µg/kg	270 U	120 U
cis-1,2-Dichloroethene	µg/kg	82 U	35 U
cis-1,3-Dichloropropene	µg/kg	82 U	35 U
Cyclohexane	µg/kg	82 U	35 U
Dibromochloromethane	µg/kg	82 U	35 U
Dichlorodifluoromethane (CFC-12)	µg/kg	82 U	35 U
Ethylbenzene	µg/kg	82 U	35 U
Isopropyl benzene	µg/kg	82 U	35 U
Methyl acetate	µg/kg	540 U	230 U
Methyl cyclohexane	µg/kg	82 U	35 U
Methyl tert butyl ether (MTBE)	µg/kg	82 U	35 U
Methylene chloride	µg/kg	82 U	35 U
Styrene	µg/kg	82 U	35 U
Tetrachloroethene	µg/kg	82 U	35 U
Toluene	µg/kg	82 U	35 U
trans-1,2-Dichloroethene	µg/kg	82 U	35 U
trans-1,3-Dichloropropene	µg/kg	82 U	35 U
Trichloroethene	µg/kg	3600 ^{bcef}	35 U

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	SB300-13	SB300-13
Sample Identification	SO-017360-102213-MR-060	SO-017360-102213-MR-061
Sample Date	10/22/2013	10/22/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS
Sample Type		

VOCs (cont'd)

Trichlorofluoromethane (CFC-11)	µg/kg	82 U	35 U
Trifluorotrichloroethane (Freon 113)	µg/kg	82 U	35 U
Vinyl chloride	µg/kg	82 U	35 U
Xylenes (total)	µg/kg	250 U	100 U

Semi-Volatile Organic Compounds (SVOCs)

2-Methylnaphthalene	µg/kg	49	7.0 U
Acenaphthene	µg/kg	7.0 U	7.0 U
Acenaphthylene	µg/kg	7.0 U	7.0 U
Anthracene	µg/kg	7.0 U	20
Benzo(a)anthracene	µg/kg	7.0 U	73
Benzo(a)pyrene	µg/kg	7.0 U	58
Benzo(b)fluoranthene	µg/kg	7.0 U	54
Benzo(g,h,i)perylene	µg/kg	7.0 U	56
Benzo(k)fluoranthene	µg/kg	7.0 U	55
Chrysene	µg/kg	7.0 U	65
Dibenz(a,h)anthracene	µg/kg	7.0 U	7.0 U
Fluoranthene	µg/kg	7.0 U	120
Fluorene	µg/kg	7.0 U	7.0 U
Indeno(1,2,3-cd)pyrene	µg/kg	7.0 U	31
Naphthalene	µg/kg	33	7.0 U
Phenanthrene	µg/kg	45	82
Pyrene	µg/kg	7.0 U	110

Metals

Antimony	µg/kg	160 J	52 J
Arsenic	µg/kg	10000 ^{bcd}	2300
Barium	µg/kg	76000	17000
Beryllium	µg/kg	370 J	130 J
Cadmium	µg/kg	48 J	54 J
Chromium	µg/kg	3700	7000
Cobalt	µg/kg	4000	2500
Copper	µg/kg	13000 J	7400 J
Iron	µg/kg	10000000	6900000
Lead	µg/kg	950	9100
Manganese	µg/kg	16000 J	160000 J
Mercury	µg/kg	20 J	32 J
Molybdenum	µg/kg	1300	320 J
Nickel	µg/kg	8300	6700
Selenium	µg/kg	670 ^d	350 J
Silver	µg/kg	12 J	9.5 J
Thallium	µg/kg	77 J	46 J
Vanadium	µg/kg	6200 J	11000 J
Zinc	µg/kg	3800	16000

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>SB300-13</i>	<i>SB300-13</i>
Sample Identification	<i>SO-017360-102213-MR-060</i>	<i>SO-017360-102213-MR-061</i>
Sample Date	<i>10/22/2013</i>	<i>10/22/2013</i>
Sample Depth	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>
Sample Type		

Polychlorinated Biphenyls (PCBs)

Aroclor-1016 (PCB-1016)	µg/kg	-	-
Aroclor-1221 (PCB-1221)	µg/kg	-	-
Aroclor-1232 (PCB-1232)	µg/kg	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-
Total PCBs	µg/kg	-	-

TABLE 4

**SUMMARY OF SOIL SAMPLE TCLP ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	Resource		SB279-13	SB281-13	SB285-13	SB286-13	SB287-13	SB288-13
Sample Identification	Conservation		SO-017360-102213-MR-054	SO-017360-102213-MR-050	SO-017360-102213-MR-029	SO-017360-102213-MR-035	SO-017360-102213-MR-055	SO-017360-102213-MR-057
Sample Date	and Recovery		10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	Act ⁽¹⁾		(0-4) ft BGS	(0-4) ft BGS	(0-4) ft BGS	(0-4) ft BGS	(0-4) ft BGS	(0-4) ft BGS
	a							
TCLP - Metals		Units						
Arsenic	mg/L	5	0.010 U	0.010 U	0.010 U	0.010 U	0.0097 J	0.010 U
Barium	mg/L	100	0.57	0.82	0.32	0.30	0.22	0.27
Cadmium	mg/L	1	0.036	0.0068	0.040	0.0077	0.0041	0.0055
Chromium	mg/L	5	0.0029 J	0.089	0.0055 J	0.021	0.0042 J	0.0093 J
Lead	mg/L	5	0.087	0.025	0.0049 J	0.0021 J	0.0055 J	0.27
Mercury	mg/L	0.2	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Selenium	mg/L	1	0.020 U	0.0047 J	0.020 U	0.020 U	0.0046 J	0.0044 J
Silver	mg/L	5	0.0050 U	0.0050 U	0.0058	0.00042 J	0.0020 J	0.0050 U
TCLP - Semi-Volatile Organic Compounds (SVOCs)								
1,4-Dichlorobenzene	mg/L	7.5	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/L	400	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/L	2	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/L	0.13	--	--	--	--	--	--
2-Methylphenol	mg/L	200	--	--	--	--	--	--
3-Methylphenol	mg/L	200	--	--	--	--	--	--
4-Methylphenol	mg/L	200	--	--	--	--	--	--
Hexachlorobenzene	mg/L	0.13	--	--	--	--	--	--
Hexachlorobutadiene	mg/L	0.5	--	--	--	--	--	--
Hexachloroethane	mg/L	3	--	--	--	--	--	--
Nitrobenzene	mg/L	2	--	--	--	--	--	--
Pentachlorophenol	mg/L	100	--	--	--	--	--	--
Pyridine	mg/L	5	--	--	--	--	--	--
TCLP - Volatile Organic Compounds (VOCs)								
1,1-Dichloroethene	mg/L	0.7	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U
1,2-Dichloroethane	mg/L	0.5	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U
2-Butanone ⁽²⁾	mg/L	200	0.2 U	--	0.2 U	0.2 U	0.2 U	0.2 U
Benzene	mg/L	0.5	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U
Carbon tetrachloride	mg/L	0.5	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U
Chlorobenzene	mg/L	100	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U
Chloroform (Trichloromethane)	mg/L	6	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U
Tetrachloroethene	mg/L	0.7	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U
Trichloroethene	mg/L	0.5	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U
Vinyl chloride	mg/L	0.2	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U

Notes:

⁽¹⁾ Resource Conservation and Recovery Act Criteria for the toxicity characteristic (40 CFR 261.24).

⁽²⁾ 2-Butanone also known as Methyl ethyl ketone (MEK).

TCLP - Toxicity Characteristic Leaching Procedure

U - Not detected at the associated reporting limit.

J - Estimated concentration.

-- Parameter was not analyzed.

TABLE 4

**SUMMARY OF SOIL SAMPLE TCLP ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	Resource	<i>SB289-13</i>	<i>SB290-13</i>	<i>SB291-13</i>	<i>SB296-13</i>	<i>SB298-13</i>	<i>SB303-13</i>
Sample Identification	Conservation	<i>SO-017360-102213-MR-056</i>	<i>SB-017360-102113-MR-004</i>	<i>SB-017360-102113-MR-012</i>	<i>SO-017360-102313-MR-067</i>	<i>SO-017360-102313-MR-072</i>	<i>SO-17360-112013-MR-001</i>
Sample Date	and Recovery	<i>10/22/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/23/2013</i>	<i>10/23/2013</i>	<i>11/20/2013</i>
Sample Depth	Act ⁽¹⁾ a	<i>(0-4) ft BGS</i>	<i>(0-4) ft BGS</i>	<i>(0-4) ft BGS</i>	<i>(0-4) ft BGS</i>	<i>(0-4) ft BGS</i>	<i>(0-4) ft BGS</i>
TCLP - Metals							
	Units						
Arsenic	mg/L	5	0.010 U	0.010 U	0.010 U	0.010 U	--
Barium	mg/L	100	0.19	0.41	0.49	0.60	--
Cadmium	mg/L	1	0.0047	0.013	0.0049	0.034	--
Chromium	mg/L	5	0.0026 J	0.0022 J	0.0056 J	0.0025 J	--
Lead	mg/L	5	0.0068 J	0.018	0.019	0.16	0.012
Mercury	mg/L	0.2	0.0020 U	0.00012 J	0.00014 J	0.00011 J	--
Selenium	mg/L	1	0.0046 J	0.0045 J	0.0070 J	0.020 U	--
Silver	mg/L	5	0.0050 U	0.0050 U	0.0050 U	0.0050 U	--
TCLP - Semi-Volatile Organic Compounds (SVOCs)							
1,4-Dichlorobenzene	mg/L	7.5	--	0.1 U	0.1 U	0.1 U	--
2,4,5-Trichlorophenol	mg/L	400	--	0.1 U	0.1 U	0.1 U	--
2,4,6-Trichlorophenol	mg/L	2	--	0.1 U	0.1 U	0.1 U	--
2,4-Dinitrotoluene	mg/L	0.13	--	0.1 U	0.1 U	0.1 U	--
2-Methylphenol	mg/L	200	--	0.1 U	0.1 U	0.1 U	--
3-Methylphenol	mg/L	200	--	0.1 U	0.1 U	0.1 U	--
4-Methylphenol	mg/L	200	--	0.1 U	0.1 U	0.1 U	--
Hexachlorobenzene	mg/L	0.13	--	0.1 U	0.1 U	0.1 U	--
Hexachlorobutadiene	mg/L	0.5	--	0.1 U	0.1 U	0.1 U	--
Hexachloroethane	mg/L	3	--	0.1 U	0.1 U	0.1 U	--
Nitrobenzene	mg/L	2	--	0.1 U	0.1 U	0.1 U	--
Pentachlorophenol	mg/L	100	--	0.4 U	0.4 U	0.4 U	--
Pyridine	mg/L	5	--	0.4 U	0.4 U	0.4 U	--
TCLP - Volatile Organic Compounds (VOCs)							
1,1-Dichloroethene	mg/L	0.7	0.02 U	--	0.02 U	0.02 U	--
1,2-Dichloroethane	mg/L	0.5	0.02 U	--	0.02 U	0.02 U	--
2-Butanone ⁽²⁾	mg/L	200	0.2 U	--	0.2 U	0.2 U	--
Benzene	mg/L	0.5	0.02 U	--	0.02 U	0.02 U	--
Carbon tetrachloride	mg/L	0.5	0.02 U	--	0.02 U	0.02 U	--
Chlorobenzene	mg/L	100	0.02 U	--	0.02 U	0.02 U	--
Chloroform (Trichloromethane)	mg/L	6	0.02 U	--	0.02 U	0.02 U	--
Tetrachloroethene	mg/L	0.7	0.02 U	--	0.02 U	0.02 U	--
Trichloroethene	mg/L	0.5	0.02 U	--	0.02 U	0.044	--
Vinyl chloride	mg/L	0.2	0.02 U	--	0.02 U	0.02 U	--

Notes:

⁽¹⁾ Resource Conservation and Recovery Act Criteria for the toxicity characteristic (40 CFR 261.24).

⁽²⁾ 2-Butanone also known as Methyl ethyl ketone (MEK).

TCLP - Toxicity Characteristic Leaching Procedure

U - Not detected at the associated reporting limit.

J - Estimated concentration.

-- Parameter was not analyzed.

TABLE 4

**SUMMARY OF SOIL SAMPLE TCLP ANALYTICAL RESULTS
STAGE VI SITE-WIDE INVESTIGATION
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location	Resource	<i>SB302-13</i>	<i>SB305-13</i>	<i>SB304-13</i>
Sample Identification	Conservation	<i>SO-17360-112013-MR-002</i>	<i>SO-17360-112013-MR-003</i>	<i>SO-17360-112013-MR-004</i>
Sample Date	and Recovery	<i>11/20/2013</i>	<i>11/20/2013</i>	<i>11/20/2013</i>
Sample Depth	Act ⁽¹⁾	<i>(0-4) ft BGS</i>	<i>(0-4) ft BGS</i>	<i>(0-4) ft BGS</i>
	a			
<i>TCLP - Metals</i>				
	<i>Units</i>			
Arsenic	mg/L	5	--	--
Barium	mg/L	100	--	--
Cadmium	mg/L	1	--	--
Chromium	mg/L	5	--	--
Lead	mg/L	5	2.4	0.027
Mercury	mg/L	0.2	--	--
Selenium	mg/L	1	--	--
Silver	mg/L	5	--	--
<i>TCLP - Semi-Volatile Organic Compounds (SVOCs)</i>				
1,4-Dichlorobenzene	mg/L	7.5	--	--
2,4,5-Trichlorophenol	mg/L	400	--	--
2,4,6-Trichlorophenol	mg/L	2	--	--
2,4-Dinitrotoluene	mg/L	0.13	--	--
2-Methylphenol	mg/L	200	--	--
3-Methylphenol	mg/L	200	--	--
4-Methylphenol	mg/L	200	--	--
Hexachlorobenzene	mg/L	0.13	--	--
Hexachlorobutadiene	mg/L	0.5	--	--
Hexachloroethane	mg/L	3	--	--
Nitrobenzene	mg/L	2	--	--
Pentachlorophenol	mg/L	100	--	--
Pyridine	mg/L	5	--	--
<i>TCLP - Volatile Organic Compounds (VOCs)</i>				
1,1-Dichloroethene	mg/L	0.7	--	--
1,2-Dichloroethane	mg/L	0.5	--	--
2-Butanone ⁽²⁾	mg/L	200	--	--
Benzene	mg/L	0.5	--	--
Carbon tetrachloride	mg/L	0.5	--	--
Chlorobenzene	mg/L	100	--	--
Chloroform (Trichloromethane)	mg/L	6	--	--
Tetrachloroethene	mg/L	0.7	--	--
Trichloroethene	mg/L	0.5	--	--
Vinyl chloride	mg/L	0.2	--	--

Notes:

⁽¹⁾ Resource Conservation and Recovery Act Criteria for the toxicity characteristic (40 CFR 261.24).

⁽²⁾ 2-Butanone also known as Methyl ethyl ketone (MEK).

TCLP - Toxicity Characteristic Leaching Procedure

U - Not detected at the associated reporting limit.

J - Estimated concentration.

-- Parameter was not analyzed.

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

		<i>Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria</i> ⁽²⁾								
		Residential Drinking Water a	Non-Residential Drinking Water b	Groundwater Surface Water Interface ⁽²⁾ c	Residential Groundwater Volatilization to Indoor Air Inhalation d	Non-Residential Groundwater Volatilization to Indoor Air Inhalation e	Water Solubility f	Flammability and Explosivity Screening Levels g	Residential Health Based Drinking Water h	Non-Residential Health Based Drinking Water i
<i>Volatile Organic Compounds (VOCs)</i>	<i>Units</i>									
1,1,1-Trichloroethane	µg/L	200	200	89	660000	1300000	1330000	ID	NA	NA
1,1,2,2-Tetrachloroethane	µg/L	8.5	35	78	12000	77000	2970000	ID	NA	NA
1,1,2-Trichloroethane	µg/L	5	5	330	17000	110000	4420000	NA	NA	NA
1,1-Dichloroethane	µg/L	880	2500	740	1000000	2300000	5060000	380000	NA	NA
1,1-Dichloroethene	µg/L	7	7	130	200	1300	2250000	97000	NA	NA
1,2,4-Trichlorobenzene	µg/L	70	70	99	300000	300000	300000	NA	NA	NA
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.2	0.2	NA	220	1200	1230	NA	NA	NA
1,2-Dibromoethane ⁽³⁾	µg/L	0.05	0.05	5.7	2400	15000	4200000	ID	NA	NA
1,2-Dichlorobenzene	µg/L	600	600	13	160000	160000	156000	NA	NA	NA
1,2-Dichloroethane	µg/L	5	5	360	9600	59000	8520000	2500000	NA	NA
1,2-Dichloropropane	µg/L	5	5	230	16000	36000	2800000	550000	NA	NA
1,3-Dichlorobenzene	µg/L	6.6	19	28	18000	41000	111000	ID	NA	NA
1,4-Dichlorobenzene	µg/L	75	75	17	16000	74000	73800	NA	NA	NA
2-Butanone ⁽⁴⁾	µg/L	13000	38000	2200	240000000	240000000	240000000	ID	NA	NA
2-Hexanone	µg/L	1000	2900	ID	4200000	8700000	16000000	NA	NA	NA
4-Methyl-2-pentanone ⁽⁵⁾	µg/L	1800	5200	ID	20000000	20000000	20000000	ID	NA	NA
Acetone	µg/L	730	2100	1700	1000000000	1000000000	1000000000	15000000	NA	NA
Benzene	µg/L	5	5	200	5600	35000	1750000	68000	NA	NA
Bromodichloromethane	µg/L	80	80	ID	4800	37000	6740000	ID	NA	NA
Bromoform	µg/L	80	80	ID	470000	3100000	3100000	ID	NA	NA
Bromomethane (Methyl bromide)	µg/L	10	29	35	4000	9000	14500000	ID	NA	NA
Carbon disulfide	µg/L	800	2300	ID	250000	550000	1190000	13000	NA	NA
Carbon tetrachloride	µg/L	5	5	45	370	2400	793000	ID	NA	NA
Chlorobenzene	µg/L	100	100	25	210000	470000	472000	160000	NA	NA
Chloroethane	µg/L	430	1700	1100	5700000	5700000	5740000	110000	NA	NA
Chloroform (Trichloromethane)	µg/L	80	80	350	28000	180000	7920000	ID	NA	NA
Chloromethane (Methyl chloride)	µg/L	260	1100	ID	8600	45000	6340000	36000	NA	NA
cis-1,2-Dichloroethene	µg/L	70	70	620	93000	210000	3500000	530000	NA	NA
cis-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	µg/L	80	80	ID	14000	110000	2600000	ID	NA	NA
Dichlorodifluoromethane (CFC-12)	µg/L	1700	4800	ID	220000	300000	300000	ID	NA	NA
Ethylbenzene	µg/L	74	74	18	110000	170000	169000	43000	700	700
Isopropyl benzene	µg/L	800	2300	28	56000	56000	56000	29000	NA	NA
Methyl acetate	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	µg/L	40	40	7100	47000000	47000000	46800000	ID	240	690
Methylene chloride	µg/L	5	5	1500	220000	1400000	17000000	ID	NA	NA
Styrene	µg/L	100	100	80	170000	310000	310000	140000	NA	NA

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<i>Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria⁽²⁾</i>										
	Residential Drinking Water a	Non-Residential Drinking Water b	Groundwater Surface Water Interface ⁽²⁾ c	Residential Groundwater Volatilization to Indoor Air Inhalation d	Non-Residential Groundwater Volatilization to Indoor Air Inhalation e	Water Solubility f	Flammability and Explosivity Screening Levels g	Residential Health Based Drinking Water h	Non-Residential Health Based Drinking Water i	
VOCs (cont'd)										
Tetrachloroethene	µg/L	5	5	60	25000	170000	200000	ID	NA	NA
Toluene	µg/L	790	790	270	530000	530000	526000	61000	1000	10000
trans-1,2-Dichloroethene	µg/L	100	100	1500	85000	200000	6300000	NA	NA	NA
trans-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	5	200	2200	4900	1100000	ID	NA	NA
Trichlorofluoromethane (CFC-11)	µg/L	2600	7300	NA	1100000	1100000	1100000	ID	NA	NA
Trifluorotrchloroethane (Freon 113)	µg/L	170000	170000	32	170000	170000	170000	ID	NA	NA
Vinyl chloride	µg/L	2	2	13	1100	13000	2760000	33000	NA	NA
Xylenes (total)	µg/L	280	280	41	190000	190000	186000	70000	10000	10000
Semi-Volatile Organic Compounds (SVOCs)										
2,2'-Oxybis(1-chloropropane) ⁽⁶⁾	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	µg/L	730	2100	NA	NLV	NLV	1200000	ID	NA	NA
2,4,6-Trichlorophenol	µg/L	120	470	5	NLV	NLV	800000	ID	NA	NA
2,4-Dichlorophenol	µg/L	73	210	11	NLV	NLV	4500000	ID	NA	NA
2,4-Dimethylphenol	µg/L	370	1000	380	NLV	NLV	7870000	ID	NA	NA
2,4-Dinitrophenol	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	µg/L	7.7	32	NA	NLV	NLV	270000	ID	NA	NA
2,6-Dinitrotoluene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	µg/L	1800	5200	NA	ID	ID	6740	ID	NA	NA
2-Chlorophenol	µg/L	45	130	18	ID	ID	22000000	ID	NA	NA
2-Methylnaphthalene	µg/L	260	750	19	25000	25000	24600	ID	NA	NA
2-Methylphenol	µg/L	370	1000	30	NLV	NLV	28000000	NA	NA	NA
2-Nitroaniline	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	µg/L	20	58	ID	NLV	NLV	2500000	ID	NA	NA
3,3'-Dichlorobenzidine	µg/L	1.1	4.3	0.3	NLV	NLV	3110	ID	NA	NA
3-Nitroaniline	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	µg/L	20	20	NA	NLV	NLV	200000	ID	NA	NA
4-Bromophenyl phenyl ether	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	µg/L	150	420	7.4	NLV	NLV	3900000	ID	NA	NA
4-Chloroaniline	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	µg/L	370	1000	30	NLV	NLV	28000000	NA	NA	NA
4-Nitroaniline	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	µg/L	1300	3800	38	4200	4200	4240	ID	NA	NA
Acenaphthylene	µg/L	52	150	ID	3900	3900	3930	ID	NA	NA
Acetophenone	µg/L	1500	4400	NA	6100000	6100000	6100000	ID	NA	NA
Anthracene	µg/L	43	43	ID	43	43	43.4	ID	NA	NA

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria⁽²⁾

	Residential Drinking Water a	Non-Residential Drinking Water b	Groundwater Surface Water Interface ⁽²⁾ c	Residential Groundwater Volatilization to Indoor Air Inhalation d	Non-Residential Groundwater Volatilization to Indoor Air Inhalation e	Water Solubility f	Flammability and Explosivity Screening Levels g	Residential Health Based Drinking Water h	Non-Residential Health Based Drinking Water i
SVOCs (cont'd)									
Atrazine	µg/L 3	3	7.3	NLV	NLV	70000	ID	NA	NA
Benzaldehyde	µg/L NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	µg/L 2.1	8.5	ID	NLV	NLV	9.4	ID	NA	NA
Benzo(a)pyrene	µg/L 5	5	ID	NLV	NLV	1.62	ID	NA	NA
Benzo(b)fluoranthene	µg/L 1.5	1.5	ID	ID	ID	1.5	ID	NA	NA
Benzo(g,h,i)perylene	µg/L 1	1	NA	NLV	NLV	0.26	ID	NA	NA
Benzo(k)fluoranthene	µg/L 1	1	NA	NLV	NLV	0.8	ID	NA	NA
Biphenyl (1,1-Biphenyl)	µg/L NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	µg/L NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	µg/L 2	8.3	1	38000	210000	17200000	17000000	NA	NA
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L 6	6	25	NLV	NLV	340	NA	NA	NA
Butyl benzylphthalate (BBP)	µg/L 1200	2700	67	NLV	NLV	2690	ID	NA	NA
Caprolactam	µg/L 5800	17000	NA	NLV	NLV	5250000000	NA	NA	NA
Carbazole	µg/L 85	350	10	NLV	NLV	7480	ID	NA	NA
Chrysene	µg/L 1.6	1.6	ID	ID	ID	1.6	ID	NA	NA
Dibenz(a,h)anthracene	µg/L 2	2	ID	NLV	NLV	2.49	ID	NA	NA
Dibenzofuran	µg/L ID	ID	4	10000	10000	10000	ID	NA	NA
Diethyl phthalate	µg/L 5500	16000	110	NLV	NLV	1080000	NA	NA	NA
Dimethyl phthalate	µg/L 73000	210000	NA	NLV	NLV	4190000	NA	NA	NA
Di-n-butylphthalate (DBP)	µg/L 880	2500	9.7	NLV	NLV	11200	NA	NA	NA
Di-n-octyl phthalate (DnOP)	µg/L 130	380	ID	NLV	NLV	3000	ID	NA	NA
Fluoranthene	µg/L 210	210	1.6	210	210	206	ID	NA	NA
Fluorene	µg/L 880	2000	12	2000	2000	1980	ID	NA	NA
Hexachlorobenzene	µg/L 1	1	0.2	440	3000	6200	ID	NA	NA
Hexachlorobutadiene	µg/L 15	42	0.053	1600	3200	3230	ID	NA	NA
Hexachlorocyclopentadiene	µg/L 50	50	ID	130	420	1800	ID	NA	NA
Hexachloroethane	µg/L 7.3	21	6.7	27000	50000	50000	ID	NA	NA
Indeno(1,2,3-cd)pyrene	µg/L 2	2	ID	NLV	NLV	0.022	ID	NA	NA
Isophorone	µg/L 770	3100	1300	NLV	NLV	12000000	NA	NA	NA
Naphthalene	µg/L 520	1500	11	31000	31000	31000	NA	NA	NA
Nitrobenzene	µg/L 3.4	9.6	180	280000	550000	2090000	NA	NA	NA
N-Nitrosodi-n-propylamine	µg/L 5	5	NA	NLV	NLV	9890000	ID	NA	NA
N-Nitrosodiphenylamine	µg/L 270	1100	NA	NLV	NLV	35100	ID	NA	NA
Pentachlorophenol	µg/L 1	1	1.8	NLV	NLV	1850000	ID	NA	NA
Phenanthrene	µg/L 52	150	2	1000	1000	1000	ID	NA	NA
Phenol	µg/L 4400	13000	450	NLV	NLV	82800000	NA	NA	NA
Pyrene	µg/L 140	140	ID	140	140	135	ID	NA	NA

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria⁽¹⁾

		Residential Drinking Water a	Non-Residential Drinking Water b	Groundwater Surface Water Interface ⁽²⁾ c	Residential Groundwater Volatilization to Indoor Air Inhalation d	Non-Residential Groundwater Volatilization to Indoor Air Inhalation e	Water Solubility f	Flammability and Explosivity Screening Levels g	Residential Health Based Drinking Water h	Non-Residential Health Based Drinking Water i
Metals										
Antimony	µg/L	6	6	130	NLV	NLV	NA	ID	NA	NA
Arsenic	µg/L	10	10	10	NLV	NLV	NA	ID	NA	NA
Barium	µg/L	2000	2000	670	NLV	NLV	NA	ID	NA	NA
Beryllium	µg/L	4	4	6.7	NLV	NLV	NA	ID	NA	NA
Cadmium	µg/L	5	5	2.5	NLV	NLV	NA	ID	NA	NA
Chromium	µg/L	100	100	11	NLV	NLV	NA	ID	NA	NA
Chromium VI (hexavalent)	µg/L	100	100	11	NLV	NLV	NA	ID	NA	NA
Cobalt	µg/L	40	100	100	NLV	NLV	NA	ID	NA	NA
Copper	µg/L	1000	1000	13	NLV	NLV	NA	ID	1400	4000
Lead	µg/L	4	4	14	NLV	NLV	NA	ID	NA	NA
Manganese	µg/L	50	50	1300	NLV	NLV	NA	ID	860	2500
Mercury	µg/L	2	2	0.0013	56	56	56	ID	NA	NA
Molybdenum	µg/L	73	210	3200	NLV	NLV	NA	ID	NA	NA
Nickel	µg/L	100	100	73	NLV	NLV	NA	ID	NA	NA
Selenium	µg/L	50	50	5	NLV	NLV	NA	ID	NA	NA
Silver	µg/L	34	98	0.2	NLV	NLV	NA	ID	NA	NA
Thallium	µg/L	2	2	3.7	NLV	NLV	NA	ID	NA	NA
Vanadium	µg/L	4.5	62	27	NLV	NLV	NA	ID	NA	NA
Zinc	µg/L	2400	5000	170	NLV	NLV	NA	ID	NA	NA

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

-- Parameter was not analyzed.

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

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 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 1	AOI 11	AOI 11	AOI 15.3	AOI 16.1	AOI 16.3
Sample Location	MW49-13	MW41-12	MW41-12	MW29-12	MW42-12	MW36-12
Sample Identification	WG-17360-103113-MR-031	WG-17360-110113-EB-039	WG-17360-110113-EB-040	WG-17360-103113-MR-032	WG-17360-110413-EB-048	WG-17360-110413-EB-053
Sample Date	10/31/2013	11/1/2013	11/1/2013	10/31/2013	11/4/2013	11/4/2013
Sample Type			Duplicate			
Sample Depth	34-39 ft BGS	18.3-28.3 ft BGS	18.3-28.3 ft BGS	11.4-21.4 ft BGS	21-31 ft BGS	19.5-29.5 ft BGS

Volatile Organic Compounds (VOCs)**Units**

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 (Ethylene dibromide)	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 (Methyl ethyl ketone) (MEK)	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 (Methyl isobutyl ketone) (MIBK)	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	0.26 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	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	1.4
Isopropyl benzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	0.35 J
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	330 ^{abc}	1.0 U	1.0 U	1.3	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J
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	2.2	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	2.4	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	1.5 J

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 1	AOI 11	AOI 11	AOI 15.3	AOI 16.1	AOI 16.3
Sample Location	MW49-13	MW41-12	MW41-12	MW29-12	MW42-12	MW36-12
Sample Identification	WG-17360-103113-MR-031	WG-17360-110113-EB-039	WG-17360-110113-EB-040	WG-17360-103113-MR-032	WG-17360-110413-EB-048	WG-17360-110413-EB-053
Sample Date	10/31/2013	11/1/2013	11/1/2013	10/31/2013	11/4/2013	11/4/2013
Sample Type			Duplicate			
Sample Depth	34-39 ft BGS	18.3-28.3 ft BGS	18.3-28.3 ft BGS	11.4-21.4 ft BGS	21-31 ft BGS	19.5-29.5 ft BGS

Semi-Volatile Organic Compounds (SVOCs)

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	-	-	-	-	-
3,3'-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-Methylphenol	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	-	-	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 1	AOI 11	AOI 11	AOI 15.3	AOI 16.1	AOI 16.3
Sample Location	MW49-13	MW41-12	MW41-12	MW29-12	MW42-12	MW36-12
Sample Identification	WG-17360-103113-MR-031	WG-17360-110113-EB-039	WG-17360-110113-EB-040	WG-17360-103113-MR-032	WG-17360-110413-EB-048	WG-17360-110413-EB-053
Sample Date	10/31/2013	11/1/2013	11/1/2013	10/31/2013	11/4/2013	11/4/2013
Sample Type			Duplicate			
Sample Depth	34-39 ft BGS	18.3-28.3 ft BGS	18.3-28.3 ft BGS	11.4-21.4 ft BGS	21-31 ft BGS	19.5-29.5 ft BGS

SVOCs (cont'd)

Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-
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	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-
Copper	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

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 16.4	AOI 17.1	AOI 17.2	AOI 19	AOI 19	AOI 25
Sample Location	MW31-12	MW43-12	MW53-12	MW38-12	MW38-12	87-10
Sample Identification	WG-17360-110413-MR-042	WG-17360-110413-EB-049	WG-17360-103113-MR-029	WG-17360-110513-MR-057	WG-17360-110513-MR-061	WG-17360-103013-MR-015
Sample Date	11/4/2013	11/4/2013	10/31/2013	11/5/2013	11/5/2013	10/30/2013
Sample Type					Duplicate	
Sample Depth	12.2-22.2 ft BGS	15-25 ft BGS	13-23 ft BGS	20-30 ft BGS	20-30 ft BGS	29-32 ft BGS

Volatile Organic Compounds (VOCs)**Units**

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	1.1	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	0.94 J	0.93 J	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 (Ethylene dibromide)	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 (Methyl ethyl ketone) (MEK)	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 (Methyl isobutyl ketone) (MIBK)	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	5.5	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	16	0.81 J
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	6.8 ^{ab}	2.7	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	1.4	1.0 U	1.0 U	5.1 ^{ab}	5.1 ^{ab}
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	11 ^{ab}	11 ^{ab}
Xylenes (total)	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 16.4	AOI 17.1	AOI 17.2	AOI 19	AOI 19	AOI 25
Sample Location	MW31-12	MW43-12	MW53-12	MW38-12	MW38-12	87-10
Sample Identification	WG-17360-110413-MR-042	WG-17360-110413-EB-049	WG-17360-103113-MR-029	WG-17360-110513-MR-057	WG-17360-110513-MR-061	WG-17360-103013-MR-015
Sample Date	11/4/2013	11/4/2013	10/31/2013	11/5/2013	11/5/2013	10/30/2013
Sample Type					Duplicate	
Sample Depth	12.2-22.2 ft BGS	15-25 ft BGS	13-23 ft BGS	20-30 ft BGS	20-30 ft BGS	29-32 ft BGS

Semi-Volatile Organic Compounds (SVOCs)

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	-	-	-	-	-
3,3'-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-Methylphenol	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	-	-	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 16.4	AOI 17.1	AOI 17.2	AOI 19	AOI 19	AOI 25
Sample Location	MW31-12	MW43-12	MW53-12	MW38-12	MW38-12	87-10
Sample Identification	WG-17360-110413-MR-042	WG-17360-110413-EB-049	WG-17360-103113-MR-029	WG-17360-110513-MR-057	WG-17360-110513-MR-061	WG-17360-103013-MR-015
Sample Date	11/4/2013	11/4/2013	10/31/2013	11/5/2013	11/5/2013	10/30/2013
Sample Type					Duplicate	
Sample Depth	12.2-22.2 ft BGS	15-25 ft BGS	13-23 ft BGS	20-30 ft BGS	20-30 ft BGS	29-32 ft BGS

SVOCs (cont'd)

Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-
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	0.15 J	-	-	5 U	5 U	-
Arsenic	ug/L	5 U	-	-	7.2	6.8	-
Barium	ug/L	37	-	-	130	130	-
Beryllium	ug/L	2 U	-	-	2 U	2 U	-
Cadmium	ug/L	0.27 J	-	-	2 U	0.76 J	-
Chromium	ug/L	1 J	-	-	5 U	5 U	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-
Cobalt	ug/L	0.97 J	-	-	0.46 J	1.2 J	-
Copper	ug/L	1.8 J	-	-	1.6 J	1.4 J	-
Lead	ug/L	0.21 J	-	-	0.55 J	5 U	-
Manganese	ug/L	29	-	-	72 ^{ab}	72 ^{ab}	-
Mercury	ug/L	0.2 U	-	-	0.2 U	0.2 U	-
Molybdenum	ug/L	3.4 J	-	-	0.52 J	0.5 J	-
Nickel	ug/L	2.8 J	-	-	11	13	-
Selenium	ug/L	1.4 J	-	-	5 U	5 U	-
Silver	ug/L	5 U	-	-	5 U	5 U	-
Thallium	ug/L	5 U	-	-	5 U	5 U	-
Vanadium	ug/L	5 U	-	-	5 U	5 U	-
Zinc	ug/L	2.1 J	-	-	2 J	10 U	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25
Sample Location	87-11	87-11	87-13	C-1	C-2	C-3	MW4-03
Sample Identification	WG-17360-103013-MR-016	WG-17360-103013-MR-017	WG-17360-102813-MR-004	SW-17360-102913-MR-024	SW-17360-102813-EB-002	SW-17360-102813-EB-001	WG-17360-102913-MR-013
Sample Date	10/30/2013	10/30/2013	10/28/2013	10/29/2013	10/28/2013	10/28/2013	10/29/2013
Sample Type	Duplicate						
Sample Depth	30-33 ft BGS	30-33 ft BGS	40-43 ft BGS				52-57 ft BGS

Volatile Organic Compounds (VOCs)**Units**

1,1,1-Trichloroethane	ug/L	0.78 J	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	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	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	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	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	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	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	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	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	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	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	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	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	ug/L	50 U	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	1.0 U
Bromodichloromethane	ug/L	1.0 U	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	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.0 U	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	5.0 U
Carbon tetrachloride	ug/L	1.0 U	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	1.0 U
Chloroethane	ug/L	5.0 U	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	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	8.3	9.2	1.0 U	1.0 U	1.4	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	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	1.0 U
Dibromochloromethane	ug/L	5.0 U	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	5.0 U
Ethylbenzene	ug/L	1.0 U	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	5.0 U
Methyl acetate	ug/L	10 U	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	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	5.0 U
Methylene chloride	ug/L	5.0 U	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	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	2.2	1.0 U	2.9
Toluene	ug/L	1.0 U	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	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	17 ^{ab}	19 ^{ab}	1.0 U	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	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	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	1.0 U
Xylenes (total)	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25
Sample Location	87-11	87-11	87-13	C-1	C-2	C-3	MW4-03
Sample Identification	WG-17360-103013-MR-016	WG-17360-103013-MR-017	WG-17360-102813-MR-004	SW-17360-102913-MR-024	SW-17360-102813-EB-002	SW-17360-102813-EB-001	WG-17360-102913-MR-013
Sample Date	10/30/2013	10/30/2013	10/28/2013	10/29/2013	10/28/2013	10/28/2013	10/29/2013
Sample Type		Duplicate					
Sample Depth	30-33 ft BGS	30-33 ft BGS	40-43 ft BGS				52-57 ft BGS

Semi-Volatile Organic Compounds (SVOCs)

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	-	-	-	-	-	-
3,3'-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-Methylphenol	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	-	-	-	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25
Sample Location	87-11	87-11	87-13	C-1	C-2	C-3	MW4-03
Sample Identification	WG-17360-103013-MR-016	WG-17360-103013-MR-017	WG-17360-102813-MR-004	SW-17360-102913-MR-024	SW-17360-102813-EB-002	SW-17360-102813-EB-001	WG-17360-102913-MR-013
Sample Date	10/30/2013	10/30/2013	10/28/2013	10/29/2013	10/28/2013	10/28/2013	10/29/2013
Sample Type	Duplicate						
Sample Depth	30-33 ft BGS	30-33 ft BGS	40-43 ft BGS				52-57 ft BGS

SVOCs (cont'd)

Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-
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	0.083 J	0.086 J	-	-	-	-
Arsenic	ug/L	5 U	5 U	-	-	-	-
Barium	ug/L	110	120	-	-	-	-
Beryllium	ug/L	2 U	2 U	-	-	-	-
Cadmium	ug/L	0.54 J	0.35 J	-	-	-	-
Chromium	ug/L	5 U	5 U	-	-	-	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-
Cobalt	ug/L	0.65 J	0.67 J	-	-	-	-
Copper	ug/L	1.1 J	0.92 J	-	-	-	-
Lead	ug/L	0.99 J	0.3 J	-	-	-	-
Manganese	ug/L	74 ^{ab}	77 ^{ab}	-	-	-	-
Mercury	ug/L	0.2 U	0.2 U	-	-	-	-
Molybdenum	ug/L	0.2 J	0.22 J	-	-	-	-
Nickel	ug/L	4 J	4 J	-	-	-	-
Selenium	ug/L	1 J	0.86 J	-	-	-	-
Silver	ug/L	5 U	5 U	-	-	-	-
Thallium	ug/L	5 U	5 U	-	-	-	-
Vanadium	ug/L	5 U	5 U	-	-	-	-
Zinc	ug/L	1100 J ^c	550 J ^c	-	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25
Sample Location	MW5-03	MW6-03	MW8-04	MW8-04	MW9-04	MW10-04
Sample Identification	WG-17360-102813-MR-005	WG-17360-102813-MR-003	WG-17360-102813-MR-006	WG-17360-102813-MR-007	WG-17360-102913-MR-014	WG-17360-103013-MR-020
Sample Date	10/28/2013	10/28/2013	10/28/2013	10/28/2013	10/29/2013	10/30/2013
Sample Type				Duplicate		
Sample Depth	30-35 ft BGS	13-18 ft BGS	30-35 ft BGS	30-35 ft BGS	43-48 ft BGS	33-38 ft BGS

Volatile Organic Compounds (VOCs)	Units					
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 (Ethylene dibromide)	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 (Methyl ethyl ketone) (MEK)	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 (Methyl isobutyl ketone) (MIBK)	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	25	1.0 U	4.8	4.9	1.0
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	1.0 U	1.0 U	1.0 U	1.0 U	4.3
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 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25
Sample Location	MW5-03	MW6-03	MW8-04	MW8-04	MW9-04	MW10-04
Sample Identification	WG-17360-102813-MR-005	WG-17360-102813-MR-003	WG-17360-102813-MR-006	WG-17360-102813-MR-007	WG-17360-102913-MR-014	WG-17360-103013-MR-020
Sample Date	10/28/2013	10/28/2013	10/28/2013	10/28/2013	10/29/2013	10/30/2013
Sample Type				Duplicate		
Sample Depth	30-35 ft BGS	13-18 ft BGS	30-35 ft BGS	30-35 ft BGS	43-48 ft BGS	33-38 ft BGS

Semi-Volatile Organic Compounds (SVOCs)

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	-	-	-	-	-
3,3'-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-Methylphenol	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	-	-	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25
Sample Location	MW5-03	MW6-03	MW8-04	MW8-04	MW9-04	MW10-04
Sample Identification	WG-17360-102813-MR-005	WG-17360-102813-MR-003	WG-17360-102813-MR-006	WG-17360-102813-MR-007	WG-17360-102913-MR-014	WG-17360-103013-MR-020
Sample Date	10/28/2013	10/28/2013	10/28/2013	10/28/2013	10/29/2013	10/30/2013
Sample Type				Duplicate		
Sample Depth	30-35 ft BGS	13-18 ft BGS	30-35 ft BGS	30-35 ft BGS	43-48 ft BGS	33-38 ft BGS

SVOCs (cont'd)

Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-
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	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-
Copper	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

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 3	AOI 25, AOI 3
Sample Location	MW1-03	MW2-03	MW2-03	MW30-12	88-2	88-3
Sample Identification	WG-17360-103113-MR-030	WG-17360-110513-EB-063	WG-17360-110513-EB-064	WG-17360-103113-MR-033	WG-17360-102913-MR-010	WG-17360-102913-MR-009
Sample Date	10/31/2013	11/5/2013	11/5/2013	10/31/2013	10/29/2013	10/29/2013
Sample Type			Duplicate			
Sample Depth	30-35 ft BGS	22-27 ft BGS	22-27 ft BGS	25-30 ft BGS	26-29 ft BGS	27-30 ft BGS

Volatile Organic Compounds (VOCs)**Units**

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 (Ethylene dibromide)	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 (Methyl ethyl ketone) (MEK)	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 (Methyl isobutyl ketone) (MIBK)	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	2.2	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	320 ^{abc}	7.0 ^{ab}	6.8 ^{ab}	6.0 ^{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	1.7	1.0	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	3.0 U	3.0 U

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 3	AOI 25, AOI 3
Sample Location	MW1-03	MW2-03	MW2-03	MW30-12	88-2	88-3
Sample Identification	WG-17360-103113-MR-030	WG-17360-110513-EB-063	WG-17360-110513-EB-064	WG-17360-103113-MR-033	WG-17360-102913-MR-010	WG-17360-102913-MR-009
Sample Date	10/31/2013	11/5/2013	11/5/2013	10/31/2013	10/29/2013	10/29/2013
Sample Type	Duplicate					
Sample Depth	30-35 ft BGS	22-27 ft BGS	22-27 ft BGS	25-30 ft BGS	26-29 ft BGS	27-30 ft BGS

Semi-Volatile Organic Compounds (SVOCs)

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	-	-	-	-	-
3,3'-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-Methylphenol	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	-	-	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 3	AOI 25, AOI 3
Sample Location	MW1-03	MW2-03	MW2-03	MW30-12	88-2	88-3
Sample Identification	WG-17360-103113-MR-030	WG-17360-110513-EB-063	WG-17360-110513-EB-064	WG-17360-103113-MR-033	WG-17360-102913-MR-010	WG-17360-102913-MR-009
Sample Date	10/31/2013	11/5/2013	11/5/2013	10/31/2013	10/29/2013	10/29/2013
Sample Type			Duplicate			
Sample Depth	30-35 ft BGS	22-27 ft BGS	22-27 ft BGS	25-30 ft BGS	26-29 ft BGS	27-30 ft BGS

SVOCs (cont'd)

Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-
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	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-
Copper	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

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 4.1	AOI 25, AOI 4.1
Sample Location	88-4	MW11D-04	MW11S-05	MW17-06	MW13-04	MW15-04
Sample Identification	WG-17360-102913-MR-008	WG-17360-103013-MR-018	WG-17360-103013-MR-019	WG-17360-102913-MR-011	WG-17360-110513-EB-065	WG-17360-110113-EB-035
Sample Date	10/29/2013	10/30/2013	10/30/2013	10/29/2013	11/5/2013	11/1/2013
Sample Type						
Sample Depth	18-21 ft BGS	40-45 ft BGS	5-10 ft BGS	51-56 ft BGS	25-30 ft BGS	25-30 ft BGS

Volatile Organic Compounds (VOCs)	Units					
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	4.0
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 (Ethylene dibromide)	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 (Methyl ethyl ketone) (MEK)	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 (Methyl isobutyl ketone) (MIBK)	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	0.76 J	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	57	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	92 ^{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	1.2	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	1.7	1.0 U	9.4 ^{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 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 4.1	AOI 25, AOI 4.1
Sample Location	88-4	MW11D-04	MW11S-05	MW17-06	MW13-04	MW15-04
Sample Identification	WG-17360-102913-MR-008	WG-17360-103013-MR-018	WG-17360-103013-MR-019	WG-17360-102913-MR-011	WG-17360-110513-EB-065	WG-17360-110113-EB-035
Sample Date	10/29/2013	10/30/2013	10/30/2013	10/29/2013	11/5/2013	11/1/2013
Sample Type						
Sample Depth	18-21 ft BGS	40-45 ft BGS	5-10 ft BGS	51-56 ft BGS	25-30 ft BGS	25-30 ft BGS

Semi-Volatile Organic Compounds (SVOCs)

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	-	-	-	-	-
3,3'-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-Methylphenol	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	-	-	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 4.1	AOI 25, AOI 4.1
Sample Location	88-4	MW11D-04	MW11S-05	MW17-06	MW13-04	MW15-04
Sample Identification	WG-17360-102913-MR-008	WG-17360-103013-MR-018	WG-17360-103013-MR-019	WG-17360-102913-MR-011	WG-17360-110513-EB-065	WG-17360-110113-EB-035
Sample Date	10/29/2013	10/30/2013	10/30/2013	10/29/2013	11/5/2013	11/1/2013
Sample Type						
Sample Depth	18-21 ft BGS	40-45 ft BGS	5-10 ft BGS	51-56 ft BGS	25-30 ft BGS	25-30 ft BGS

SVOCs (cont'd)

Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-
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	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-
Copper	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

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

		AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.3
Sample Location		MW33-12	MW34-12	MW35-12	MW37-12	MW39-12	MW40-12	86-3
Sample Identification		WG-17360-110413-MR-043	WG-17360-110413-MR-046	WG-17360-110413-MR-045	WG-17360-110413-EB-052	WG-17360-110413-EB-051	WG-17360-110413-EB-050	WG-17360-103113-MR-025
Sample Date		11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	10/31/2013
Sample Type								
Sample Depth		31-36 ft BGS	14.4-24.4 ft BGS	24.6-29.6 ft BGS	19.4-29.4 ft BGS	35.4-40.4 ft BGS	45-50 ft BGS	41.5-46.5 ft BGS
Volatile Organic Compounds (VOCs)		Units						
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	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	1.0 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	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	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	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	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	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	ug/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	ug/L	50 U	50 U	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	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	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	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	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	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	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	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	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.1	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	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	2.2	1.0 U	1.0
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	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	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	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	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	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	5.0 U	5.0 U
Methyl acetate	ug/L	10 U	10 U	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	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	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	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	2.3	1.0 U	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	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	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	1.0 U	1.0 U
Trichloroethene	ug/L	1.7	4.9					
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	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	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.2	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	3.0 U	3.0 U

29 ^{ab}	12 ^{ab}	5.9 ^{ab}	7.2 ^{ab}	7.2 ^{ab}

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.3
Sample Location	MW33-12	MW34-12	MW35-12	MW37-12	MW39-12	MW40-12	86-3
Sample Identification	WG-17360-110413-MR-043	WG-17360-110413-MR-046	WG-17360-110413-MR-045	WG-17360-110413-EB-052	WG-17360-110413-EB-051	WG-17360-110413-EB-050	WG-17360-103113-MR-025
Sample Date	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	10/31/2013
Sample Type							
Sample Depth	31-36 ft BGS	14.4-24.4 ft BGS	24.6-29.6 ft BGS	19.4-29.4 ft BGS	35.4-40.4 ft BGS	45-50 ft BGS	41.5-46.5 ft BGS

Semi-Volatile Organic Compounds (SVOCs)

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	-	-	-	-	-	-
3,3'-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-Methylphenol	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	-	-	-	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.3
Sample Location	MW33-12	MW34-12	MW35-12	MW37-12	MW39-12	MW40-12	86-3
Sample Identification	WG-17360-110413-MR-043	WG-17360-110413-MR-046	WG-17360-110413-MR-045	WG-17360-110413-EB-052	WG-17360-110413-EB-051	WG-17360-110413-EB-050	WG-17360-103113-MR-025
Sample Date	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	10/31/2013
Sample Type							
Sample Depth	31-36 ft BGS	14.4-24.4 ft BGS	24.6-29.6 ft BGS	19.4-29.4 ft BGS	35.4-40.4 ft BGS	45-50 ft BGS	41.5-46.5 ft BGS

SVOCs (cont'd)

Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-
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	0.23 J	0.11 J	-	0.073 J	0.076 J	-	-
Arsenic	ug/L	0.74 J	5 U	-	5 U	5 U	-	-
Barium	ug/L	39	29	-	100	65	-	-
Beryllium	ug/L	2 U	2 U	-	2 U	2 U	-	-
Cadmium	ug/L	0.43 J	0.47 J	-	0.47 J	0.6 J	-	-
Chromium	ug/L	5 U	2.1 J	-	1.5 J	5 U	-	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-	-
Cobalt	ug/L	4.8 J	2.2 J	-	11	11	-	-
Copper	ug/L	3.2 J	3.2 J	-	5.2	6.4	-	-
Lead	ug/L	0.18 J	0.51 J	-	0.45 J	0.35 J	-	-
Manganese	ug/L	360 ^{ab}	15 U	-	250 ^{ab}	150 ^{ab}	-	-
Mercury	ug/L	0.2 U	0.2 U	-	0.2 U	0.2 U	-	-
Molybdenum	ug/L	8.6	38	-	0.58 J	6.1	-	-
Nickel	ug/L	7.6	3.1 J	-	9.5	9.7	-	-
Selenium	ug/L	0.94 J	2.4 J	-	1.4 J	1.1 J	-	-
Silver	ug/L	5 U	5 U	-	5 U	5 U	-	-
Thallium	ug/L	5 U	5 U	-	5 U	5 U	-	-
Vanadium	ug/L	5 U	1.4 J	-	0.22 J	0.37 J	-	-
Zinc	ug/L	1.2 J	3 J	-	4.6 J	3.8 J	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 27
Sample Location	87-8	87-8	87-9	MW7-03	PWDISCH	MW27-11
Sample Identification	WG-17360-103113-MR-026	WG-17360-103113-MR-027	WG-17360-103013-MR-021	WG-17360-103013-MR-022	WG-17360-103013-MR-023	WG-17360-110113-EB-036
Sample Date	10/31/2013	10/31/2013	10/30/2013	10/30/2013	10/30/2013	11/1/2013
Sample Type	Duplicate					
Sample Depth	19.7-22.7 ft BGS	19.7-22.7 ft BGS	50.5-53.5 ft BGS	36-41 ft BGS	45-55 ft BGS	12.5-17.5 ft BGS

Volatile Organic Compounds (VOCs)	Units					
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 (Ethylene dibromide)	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 (Methyl ethyl ketone) (MEK)	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 (Methyl isobutyl ketone) (MIBK)	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	0.88 J	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	1.0 U	1.0 U	1.6	1.2	1.8
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 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 27
Sample Location	87-8	87-8	87-9	MW7-03	PWDISCH	MW27-11
Sample Identification	WG-17360-103113-MR-026	WG-17360-103113-MR-027	WG-17360-103013-MR-021	WG-17360-103013-MR-022	WG-17360-103013-MR-023	WG-17360-110113-EB-036
Sample Date	10/31/2013	10/31/2013	10/30/2013	10/30/2013	10/30/2013	11/1/2013
Sample Type	Duplicate					
Sample Depth	19.7-22.7 ft BGS	19.7-22.7 ft BGS	50.5-53.5 ft BGS	36-41 ft BGS	45-55 ft BGS	12.5-17.5 ft BGS

Semi-Volatile Organic Compounds (SVOCs)

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	-	-	-	-	-
3,3'-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-Methylphenol	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	-	-	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 27
Sample Location	87-8	87-8	87-9	MW7-03	PWDISCH	MW27-11
Sample Identification	WG-17360-103113-MR-026	WG-17360-103113-MR-027	WG-17360-103013-MR-021	WG-17360-103013-MR-022	WG-17360-103013-MR-023	WG-17360-110113-EB-036
Sample Date	10/31/2013	10/31/2013	10/30/2013	10/30/2013	10/30/2013	11/1/2013
Sample Type	Duplicate					
Sample Depth	19.7-22.7 ft BGS	19.7-22.7 ft BGS	50.5-53.5 ft BGS	36-41 ft BGS	45-55 ft BGS	12.5-17.5 ft BGS

SVOCs (cont'd)

Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-
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	-	-	-	-	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-
Copper	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

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI		AOI 3	AOI 31	AOI 4.1	AOI 6	AOI 6	AOI 6	AOI 6
Sample Location		MW48-13	MW57-13	MW58-13	MW45-12	MW50-12	MW51-12	MW52-12
Sample Identification		WG-17360-102913-MR-012	WG-17360-110413-MR-041	WG-17360-110113-EB-038	WG-17360-110513-MR-060	WG-17360-110513-MR-059	WG-17360-110513-EB-056	WG-17360-110513-EB-054
Sample Date		10/29/2013	11/4/2013	11/1/2013	11/5/2013	11/5/2013	11/5/2013	11/5/2013
Sample Type								
Sample Depth		46-51 ft BGS	10-20 ft BGS	13.5-18.5 ft BGS	19.1-29.1 ft BGS	17-27 ft BGS	17-27 ft BGS	16.7-26.7 ft BGS
Volatile Organic Compounds (VOCs)		Units						
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	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	1.0 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	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	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	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	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	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	3.5 J
2-Hexanone	ug/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	50 U	50 U	50 U	50 U	50 U	4.3 J
Acetone	ug/L	50 U	50 U	50 U	50 U	50 U	8.2 J	13 J
Benzene	ug/L	1.0 U	1.0 U	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	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	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	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	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	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	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	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	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	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.65 J	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	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	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	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	5.0 U	5.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9
Isopropyl benzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.8 J
Methyl acetate	ug/L	10 U	10 U	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	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	0.83 J	5.0 U	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	5.0 U	5.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.9	5.3 nd	2.6	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.29 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	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	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.1	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	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	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	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	3.0 U	1.6 J

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 3	AOI 31	AOI 4.1	AOI 6	AOI 6	AOI 6	AOI 6
Sample Location	MW48-13	MW57-13	MW58-13	MW45-12	MW50-12	MW51-12	MW52-12
Sample Identification	WG-17360-102913-MR-012	WG-17360-110413-MR-041	WG-17360-110113-EB-038	WG-17360-110513-MR-060	WG-17360-110513-MR-059	WG-17360-110513-EB-056	WG-17360-110513-EB-054
Sample Date	10/29/2013	11/4/2013	11/1/2013	11/5/2013	11/5/2013	11/5/2013	11/5/2013
Sample Type							
Sample Depth	46-51 ft BGS	10-20 ft BGS	13.5-18.5 ft BGS	19.1-29.1 ft BGS	17-27 ft BGS	17-27 ft BGS	16.7-26.7 ft BGS
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	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	-	-	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U
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	-	-	20 U	20 U	20 U	20 U
2-Nitrophenol	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	-	-	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	ug/L	-	-	20 U	20 U	20 U	20 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	-	-	20 U	20 U	20 U	20 U
4-Chlorophenyl phenyl ether	ug/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	ug/L	-	-	5.0 U	5.0 U	5.0 U	1.3 J
4-Nitroaniline	ug/L	-	-	20 U	20 U	20 U	20 U
4-Nitrophenol	ug/L	-	-	20 U	20 U	20 U	20 U
Acenaphthene	ug/L	-	-	5.0 U	5.0 U	5.0 U	1.1 J
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	1.6 J
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	0.65 J
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	-	-	10 U	10 U	10 U	10 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	0.85 J
Diethyl phthalate	ug/L	-	-	20 U	20 U	20 U	20 U
Dimethyl phthalate	ug/L	-	-	20 U	20 U	20 U	20 U
Di-n-butylphthalate (DBP)	ug/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI		AOI 3	AOI 31	AOI 4.1	AOI 6	AOI 6	AOI 6	AOI 6
Sample Location		MW48-13	MW57-13	MW58-13	MW45-12	MW50-12	MW51-12	MW52-12
Sample Identification		WG-17360-102913-MR-012	WG-17360-110413-MR-041	WG-17360-110113-EB-038	WG-17360-110513-MR-060	WG-17360-110513-MR-059	WG-17360-110513-EB-056	WG-17360-110513-EB-054
Sample Date		10/29/2013	11/4/2013	11/1/2013	11/5/2013	11/5/2013	11/5/2013	11/5/2013
Sample Type								
Sample Depth		46-51 ft BGS	10-20 ft BGS	13.5-18.5 ft BGS	19.1-29.1 ft BGS	17-27 ft BGS	17-27 ft BGS	16.7-26.7 ft BGS
SVOCs (cont'd)								
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	2.7 J
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	-	-	-	20 U	20 U	20 U	20 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	7.9
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	-	-	-	20 U	20 U	20 U	20 U
Phenanthrene	ug/L	-	-	-	5.0 U	5.0 U	5.0 U	2.1 J ^c
Phenol	ug/L	-	-	-	5.0 U	5.0 U	5.0 U	1.2 J
Pyrene	ug/L	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Metals								
Antimony	ug/L	-	-	-	0.11 J	-	-	-
Arsenic	ug/L	-	-	-	1.9 J	-	-	-
Barium	ug/L	-	-	-	120	-	-	-
Beryllium	ug/L	-	-	-	2 U	-	-	-
Cadmium	ug/L	-	-	-	1 J	-	-	-
Chromium	ug/L	-	-	-	0.45 J	-	-	-
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	0.9 J	-	-	-
Copper	ug/L	-	-	-	2.7 J	-	-	-
Lead	ug/L	-	-	-	5 U	-	-	-
Manganese	ug/L	-	-	-	390 ^{ab}	-	-	-
Mercury	ug/L	-	-	-	0.2 U	-	-	-
Molybdenum	ug/L	-	-	-	1.8 J	-	-	-
Nickel	ug/L	-	-	-	16	-	-	-
Selenium	ug/L	-	-	-	0.71 J	-	-	-
Silver	ug/L	-	-	-	5 U	-	-	-
Thallium	ug/L	-	-	-	5 U	-	-	-
Vanadium	ug/L	-	-	-	5 U	-	-	-
Zinc	ug/L	-	-	-	10 U	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 6	AOI 6, AOI 25, AOI 1, AOI 4.1	AOI 6, AOI 25, AOI 19, AOI 4.1	AOI 6, AOI 25, AOI 4.1	AOI 6, AOI 25, AOI 4.1	AOI 6, AOI 25, AOI 4.1
Sample Location	MW52-12	85-6	MW44-12	85-1	85-2	85-7
Sample Identification	WG-17360-110513-EB-055	WG-17360-110513-EB-062	WG-17360-110513-MR-058	WG-17360-110113-EB-037	WG-17360-110113-EB-034	WG-17360-110413-EB-047
Sample Date	11/5/2013	11/5/2013	11/5/2013	11/1/2013	11/1/2013	11/4/2013
Sample Type	Duplicate					
Sample Depth	16.7-26.7 ft BGS	19.5-24.5 ft BGS	18.5-28.5 ft BGS	15.5-20.5 ft BGS	13.5-18.5 ft BGS	20.6-25.6 ft BGS

Volatile Organic Compounds (VOCs)**Units**

1,1,1-Trichloroethane	ug/L	-	1.0 U	1.0 U	1.0 U	4.7	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	0.92 J	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 (Ethylene dibromide)	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	1.9	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 (Methyl ethyl ketone) (MEK)	ug/L	-	25 U	19 J	25 U	25 U	25 U
2-Hexanone	ug/L	-	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	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	2.5	2.2	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	1.7	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	-	5.0 U	2.4 J	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	-	7.1 ^{ab}	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	-	1.5	1.0 U	1.0 U	1.0 U	1.6
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	3.4	3.0 U	3.0 U	3.0 U

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 6	AOI 6, AOI 25, AOI 1, AOI 4.1	AOI 6, AOI 25, AOI 19, AOI 4.1	AOI 6, AOI 25, AOI 4.1	AOI 6, AOI 25, AOI 4.1	AOI 6, AOI 25, AOI 4.1
Sample Location	MW52-12	85-6	MW44-12	85-1	85-2	85-7
Sample Identification	WG-17360-110513-EB-055	WG-17360-110513-EB-062	WG-17360-110513-MR-058	WG-17360-110113-EB-037	WG-17360-110113-EB-034	WG-17360-110413-EB-047
Sample Date	11/5/2013	11/5/2013	11/5/2013	11/1/2013	11/1/2013	11/4/2013
Sample Type	Duplicate					
Sample Depth	16.7-26.7 ft BGS	19.5-24.5 ft BGS	18.5-28.5 ft BGS	15.5-20.5 ft BGS	13.5-18.5 ft BGS	20.6-25.6 ft BGS

Semi-Volatile Organic Compounds (SVOCs)

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	10 U	10 U	10 U	-	-	-
2,4-Dimethylphenol	ug/L	5.0 U	5.0 U	2.0 J	-	-	-
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	20 U	20 U	20 U	-	-	-
2-Nitrophenol	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	20 U	20 U	20 U	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	20 U	20 U	20 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	20 U	20 U	20 U	-	-	-
4-Chlorophenyl phenyl ether	ug/L	5.0 U	5.0 U	5.0 U	-	-	-
4-Methylphenol	ug/L	5.0 U	5.0 U	5.0 U	-	-	-
4-Nitroaniline	ug/L	20 U	20 U	20 U	-	-	-
4-Nitrophenol	ug/L	20 U	20 U	20 U	-	-	-
Acenaphthene	ug/L	1.0 J	5.0 U	5.0 U	-	-	-
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	0.83 J	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	1.9 J	10 U	1.2 J	-	-	-
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	1.1 J	5.0 U	5.0 U	-	-	-
Diethyl phthalate	ug/L	20 U	20 U	20 U	-	-	-
Dimethyl phthalate	ug/L	20 U	20 U	20 U	-	-	-
Di-n-butylphthalate (DBP)	ug/L	0.82 J	5.0 U	5.0 U	-	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 6	AOI 6, AOI 25, AOI 1, AOI 4.1	AOI 6, AOI 25, AOI 19, AOI 4.1	AOI 6, AOI 25, AOI 4.1	AOI 6, AOI 25, AOI 4.1	AOI 6, AOI 25, AOI 4.1
Sample Location	MW52-12	85-6	MW44-12	85-1	85-2	85-7
Sample Identification	WG-17360-110513-EB-055	WG-17360-110513-EB-062	WG-17360-110513-MR-058	WG-17360-110113-EB-037	WG-17360-110113-EB-034	WG-17360-110413-EB-047
Sample Date	11/5/2013	11/5/2013	11/5/2013	11/1/2013	11/1/2013	11/4/2013
Sample Type	Duplicate					
Sample Depth	16.7-26.7 ft BGS	19.5-24.5 ft BGS	18.5-28.5 ft BGS	15.5-20.5 ft BGS	13.5-18.5 ft BGS	20.6-25.6 ft BGS

SVOCs (cont'd)

Di-n-octyl phthalate (DnOP)	ug/L	5.0 U	5.0 U	5.0 U	-	-	-
Fluoranthene	ug/L	1.1 J	5.0 U	5.0 U	-	-	-
Fluorene	ug/L	3.4 J	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	20 U	20 U	20 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	7.4	5.0 U	1.1 J	-	-	-
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	20 U	20 U	20 U	-	-	-
Phenanthrene	ug/L	2.0 J	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	-	-	0.16 J	-	0.3 J	0.083 J
Arsenic	ug/L	-	-	39 ^{abc}	-	5 U	5 U
Barium	ug/L	-	-	100	-	84	66
Beryllium	ug/L	-	-	2 U	-	2 U	2 U
Cadmium	ug/L	-	-	0.72 J	-	0.36 J	0.31 J
Chromium	ug/L	-	-	0.47 J	-	5 U	0.59 J
Chromium VI (hexavalent)	ug/L	-	-	-	-	-	-
Cobalt	ug/L	-	-	2.1 J	-	1 J	1.4 J
Copper	ug/L	-	-	3.9 J	-	4.5 J	2.3 J
Lead	ug/L	-	-	0.84 J	-	0.33 J	0.58 J
Manganese	ug/L	-	-	270 ^{ab}	-	52 ^{ab}	5 U
Mercury	ug/L	-	-	0.2 U	-	0.2 U	0.2 U
Molybdenum	ug/L	-	-	3 J	-	8.2	0.68 J
Nickel	ug/L	-	-	16	-	5.5	4.1 J
Selenium	ug/L	-	-	0.7 J	-	2.3 J	1.9 J
Silver	ug/L	-	-	5 U	-	5 U	5 U
Thallium	ug/L	-	-	0.29 J	-	5 U	5 U
Vanadium	ug/L	-	-	0.54 J	-	1.9 J	0.43 J
Zinc	ug/L	-	-	10 U	-	50	140

TABLE 5

**SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

AOI	AOI 6, AOI 25, AOI 4.1	AOI 7.1, AOI 26.2	AOI 8.2
Sample Location	MW46-12	MW32-12	MW28-12
Sample Identification	WG-17360-110513-EB-066	WG-17360-110413-MR-044	WG-17360-103113-MR-028
Sample Date	11/5/2013	11/4/2013	10/31/2013
Sample Type			
Sample Depth	20.2-30.2 ft BGS	13.9-23.9 ft BGS	14-19 ft BGS

Volatile Organic Compounds (VOCs)	Units			
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
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.3
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	2.5	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	3.0 U	3.0 U	3.0 U

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 6, AOI 25, AOI 4.1	AOI 7.1, AOI 26.2	AOI 8.2
Sample Location	MW46-12	MW32-12	MW28-12
Sample Identification	WG-17360-110513-EB-066	WG-17360-110413-MR-044	WG-17360-103113-MR-028
Sample Date	11/5/2013	11/4/2013	10/31/2013
Sample Type			
Sample Depth	20.2-30.2 ft BGS	13.9-23.9 ft BGS	14-19 ft BGS

Semi-Volatile Organic Compounds (SVOCs)

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	10 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	20 U	-	-
2-Nitrophenol	ug/L	5.0 U	-	-
3,3'-Dichlorobenzidine	ug/L	5.0 U	-	-
3-Nitroaniline	ug/L	20 U	-	-
4,6-Dinitro-2-methylphenol	ug/L	20 U	-	-
4-Bromophenyl phenyl ether	ug/L	5.0 U	-	-
4-Chloro-3-methylphenol	ug/L	5.0 U	-	-
4-Chloroaniline	ug/L	20 U	-	-
4-Chlorophenyl phenyl ether	ug/L	5.0 U	-	-
4-Methylphenol	ug/L	5.0 U	-	-
4-Nitroaniline	ug/L	20 U	-	-
4-Nitrophenol	ug/L	20 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	10 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	20 U	-	-
Dimethyl phthalate	ug/L	20 U	-	-
Di-n-butylphthalate (DBP)	ug/L	5.0 U	-	-

TABLE 5

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 6, AOI 25, AOI 4.1	AOI 7.1, AOI 26.2	AOI 8.2
Sample Location	MW46-12	MW32-12	MW28-12
Sample Identification	WG-17360-110513-EB-066	WG-17360-110413-MR-044	WG-17360-103113-MR-028
Sample Date	11/5/2013	11/4/2013	10/31/2013
Sample Type			
Sample Depth	20.2-30.2 ft BGS	13.9-23.9 ft BGS	14-19 ft BGS

SVOCs (cont'd)

Di-n-octyl phthalate (DnOP)	ug/L	5.0 U	-	-
Fluoranthene	ug/L	5.0 U	-	-
Fluorene	ug/L	5.0 U	-	-
Hexachlorobenzene	ug/L	5.0 U	-	-
Hexachlorobutadiene	ug/L	5.0 U	-	-
Hexachlorocyclopentadiene	ug/L	20 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 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	20 U	-	-
Phenanthrene	ug/L	5.0 U	-	-
Phenol	ug/L	5.0 U	-	-
Pyrene	ug/L	5.0 U	-	-

Metals

Antimony	ug/L	0.052 J	-	-
Arsenic	ug/L	5 U	-	-
Barium	ug/L	48	-	-
Beryllium	ug/L	2 U	-	-
Cadmium	ug/L	0.93 J	-	-
Chromium	ug/L	1.1 J	-	-
Chromium VI (hexavalent)	ug/L	20 U	-	-
Cobalt	ug/L	1.9 J	-	-
Copper	ug/L	2.3 J	-	-
Lead	ug/L	5 U	-	-
Manganese	ug/L	6.3	-	-
Mercury	ug/L	0.2 U	-	-
Molybdenum	ug/L	0.31 J	-	-
Nickel	ug/L	12	-	-
Selenium	ug/L	1.6 J	-	-
Silver	ug/L	5 U	-	-
Thallium	ug/L	5 U	-	-
Vanadium	ug/L	5 U	-	-
Zinc	ug/L	10 U	-	-

TABLE 6

SUMMARY OF BOREHOLE WATER SAMPLE ANALYTICAL RESULTS
SITE-WIDE INVESTIGATION - STAGE VI
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Michigan Act 451, Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels: Residential and Non-Residential Generic Cleanup Criteria ⁽¹⁾

	Residential Drinking Water a	Non-Residential Drinking Water b	Groundwater Surface Water Interface ⁽²⁾ c	Residential Groundwater Volatilization to Indoor Air Inhalation d	Non-Residential Groundwater Volatilization to Indoor Air Inhalation e	Water Solubility f	Flammability and Explosivity Screening Levels g
Volatile Organic Compounds (VOCs)	Units						
1,1,1-Trichloroethane	µg/L	200	200	89	660000	1300000	ID
1,1,2,2-Tetrachloroethane	µg/L	8.5	35	78	12000	77000	ID
1,1,2-Trichloroethane	µg/L	5	5	330	17000	110000	4420000
1,1-Dichloroethane	µg/L	880	2500	740	1000000	2300000	5060000
1,1-Dichloroethene	µg/L	7	7	130	200	1300	2250000
1,2,4-Trichlorobenzene	µg/L	70	70	99	300000	300000	300000
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.2	0.2	NA	220	1200	1230
1,2-Dibromoethane ⁽³⁾	µg/L	0.05	0.05	5.7	2400	15000	4200000
1,2-Dichlorobenzene	µg/L	600	600	13	160000	160000	156000
1,2-Dichloroethane	µg/L	5	5	360	9600	59000	8520000
1,2-Dichloropropane	µg/L	5	5	230	16000	36000	2800000
1,3-Dichlorobenzene	µg/L	6.6	19	28	18000	41000	111000
1,4-Dichlorobenzene	µg/L	75	75	17	16000	74000	73800
2-Butanone ⁽⁴⁾	µg/L	13000	38000	2200	240000000	240000000	240000000
2-Hexanone	µg/L	1000	2900	ID	4200000	8700000	16000000
4-Methyl-2-pentanone ⁽⁵⁾	µg/L	1800	5200	ID	20000000	20000000	20000000
Acetone	µg/L	730	2100	1700	1000000000	1000000000	15000000
Benzene	µg/L	5	5	200	5600	35000	1750000
Bromodichloromethane	µg/L	80	80	ID	4800	37000	6740000
Bromoform	µg/L	80	80	ID	470000	3100000	3100000
Bromomethane (Methyl bromide)	µg/L	10	29	35	4000	9000	14500000
Carbon disulfide	µg/L	800	2300	ID	250000	550000	1190000
Carbon tetrachloride	µg/L	5	5	45	370	2400	793000
Chlorobenzene	µg/L	100	100	25	210000	470000	472000
Chloroethane	µg/L	430	1700	1100	5700000	5700000	5740000
Chloroform (Trichloromethane)	µg/L	80	80	350	28000	180000	7920000
Chloromethane (Methyl chloride)	µg/L	260	1100	ID	8600	45000	6340000
cis-1,2-Dichloroethene	µg/L	70	70	620	93000	210000	3500000
cis-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	NA	NA
Cyclohexane	µg/L	NA	NA	NA	NA	NA	NA
Dibromochloromethane	µg/L	80	80	ID	14000	110000	2600000
Dichlorodifluoromethane (CFC-12)	µg/L	1700	4800	ID	220000	300000	300000
Ethylbenzene	µg/L	74	74	18	110000	170000	169000
Isopropyl benzene	µg/L	800	2300	28	56000	56000	56000
Methyl acetate	µg/L	NA	NA	NA	NA	NA	NA
Methyl cyclohexane	µg/L	NA	NA	NA	NA	NA	NA
Methyl tert butyl ether (MTBE)	µg/L	40	40	7100	47000000	47000000	46800000
Methylene chloride	µg/L	5	5	1500	220000	1400000	17000000
Styrene	µg/L	100	100	80	170000	310000	310000
Tetrachloroethene	µg/L	5	5	60	25000	170000	200000
Toluene	µg/L	790	790	270	530000	530000	526000
trans-1,2-Dichloroethene	µg/L	100	100	1500	85000	200000	6300000
trans-1,3-Dichloropropene	µg/L	NA	NA	NA	NA	NA	NA
Trichloroethene	µg/L	5	5	200	2200	4900	1100000
Trichlorofluoromethane (CFC-11)	µg/L	2600	7300	NA	1100000	1100000	1100000
Trifluorotrichloroethane (Freon 113)	µg/L	170000	170000	32	170000	170000	170000
Vinyl chloride	µg/L	2	2	13	1100	13000	2760000
Xylenes (total)	µg/L	280	280	41	190000	190000	186000

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

-- Parameter was not analyzed.

U - Not present at or above the associated value.

J - Estimated concentration.

UI - Estimated reporting limit.

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.

SUMMARY OF BOREHOLE WATER SAMPLE ANALYTICAL RESULTS
SITE-WIDE INVESTIGATION - STAGE VI
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	<i>TW300-13</i>	<i>TW300-13</i>
Sample Identification	<i>GW-017360-102313-MR-078</i>	<i>GW-017360-102313-MR-079</i>
Sample Date	<i>10/23/2013</i>	<i>10/23/2013</i>
Sample Type		<i>Duplicate</i>
Sample Depth	<i>(15 - 20) ft. BGS</i>	<i>(15 - 20) ft. BGS</i>

<i>Volatile Organic Compounds (VOCs)</i>	<i>Units</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
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	0.92 J	0.96 J
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	3.5	3.4
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U
Trifluorotrchloroethane (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 7

SUMMARY OF SURFACE WATER SAMPLE ANALYTICAL RESULTS
FALL 2013 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

AOI	AOI 25	AOI 25	AOI 25
Sample Location	C-1	C-2	C-3
Sample Identification	SW-17360-102913-MR-024	SW-17360-102813-EB-002	SW-17360-102813-EB-001
Sample Date	10/29/2013	10/28/2013	10/28/2013
Sample Type			
Sample Depth			
Volatile Organic Compounds (VOCs)			
	Units		
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 ⁽¹⁾	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 ⁽²⁾	ug/L	25 U	25 U
2-Hexanone	ug/L	50 U	50 U
4-Methyl-2-pentanone ⁽³⁾	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
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	1.4
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	2.2	2.9
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	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U
Trifluorotrchloroethane (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

Notes:

⁽¹⁾ 1,2-Dibromoethane also known as ethylene dibromide⁽²⁾ 2-butanone also known as methyl ethyl ketone (MEK)⁽³⁾ 4-methyl-2-pentanone also known as methyl isobutyl ketone (MIBK)

U - Not present at or above the associated value.

Attachment A

Stratigraphic Soil Boring Logs and Well Construction Details



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB274-13
DATE COMPLETED: October 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 510351.38 EASTING: 12773870.48 GROUND SURFACE	678.18						
2	SP-SAND, few fine gravel, loose, fine to medium grained, poorly graded, brown, moist		CONCRETE	1DP		80		0.0
4	- concrete debris at 3.5ft BGS							0.0
6	SP-SAND, with fine gravel, loose to compact, fine to medium grained, poorly graded, brown, moist	673.18	BACKFILLED WITH BENTONITE CHIPS	2DP		90		0.0
8								0.0
10	SP-SAND, loose to compact, fine grained, poorly graded, light brown, moist, slight mottling	669.18						0.0
12	SP-SAND, trace silt, slightly compact, fine grained, poorly graded, light brown, moist	668.18		11-13'-001 3DP		60		0.0
14	- wet at 14.0ft BGS	664.18						0.0
16	END OF BOREHOLE @ 15.0ft BGS							
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB275-13
DATE COMPLETED: October 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 510320.32 EASTING: 12773916.02 GROUND SURFACE	679.49						
2	SP/GP-SAND AND GRAVEL, loose, fine to medium sand, fine to coarse gravel, poorly graded, gray and brown, moist	678.49	CONCRETE	1DP		60		1.0
4	SP-SAND, with fine gravel, loose, fine to medium grained, poorly graded, brown, moist							0.8
6	ASPHALT DEBRIS	674.99 674.49	BACKFILLED WITH BENTONITE CHIPS					1.1
8	SC-CLAYEY SAND, compact, stiff, fine to medium grained, poorly graded, red brown, moist	672.49 671.99		2DP		50		0.7
10	SP-SAND, with fine to coarse gravel, loose, fine to coarse grained, poorly graded, gray, brown and red brown, moist - light brown at 10.0ft BGS							0.6
12				11-13'-003 3DP		60		0.4
14	SP-SAND, loose, fine to coarse grained, poorly graded, light brown, moist - wet at 14.0ft BGS	666.49						0.9
16	END OF BOREHOLE @ 15.0ft BGS	664.49						
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB276-13
DATE COMPLETED: October 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 510268.81 EASTING: 12773869.79 GROUND SURFACE	678.58						
2	SP/GP-SAND AND GRAVEL, trace asphalt debris, loose, fine sand, fine to coarse gravel, poorly graded, dark brown, moist	678.08	CONCRETE	1DP		80		0.0
4	SP-SAND, with fine gravel, loose, fine to medium grained, poorly graded, brown, moist							0.0
6	SP-SAND, with fine to coarse gravel, loose, fine to coarse grained, poorly graded, light brown, moist	674.08	BACKFILLED WITH BENTONITE CHIPS	2DP		80		0.0
8	- trace black sand, fine to coarse grained at 8.0ft BGS							0.0
10								0.0
12				11-13'-002 3DP		75		0.0
14	- cobble at 13.5ft BGS	665.08						
16	SP/GP-SAND AND GRAVEL, slightly compact, medium to coarse sand, fine gravel, poorly graded, red brown, moist to wet	664.58						
18	SP-SAND, trace silt, slightly compact, fine grained, poorly graded, light and red brown, wet, slightly mottled	663.58						
20	- trace black sand, fine grained at 15.0ft BGS							
22	END OF BOREHOLE @ 15.0ft BGS							
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB277-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512167.57 EASTING: 12772788.38 GROUND SURFACE	671.85						
	ASPHALT	671.52	CONCRETE	0-2' -040				0.0
2	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, black, moist	669.85		1DP 2-4' -041		60		0.0
4	SP-SAND, with fine gravel, loose, fine to coarse grained, poorly graded, dark brown, moist	668.35		4-6' -042				0.0
6	SP-SAND, loose, fine to medium grained, poorly graded, brown, moist - trace slag at 5.0ft BGS	666.35	BACKFILLED WITH BENTONITE CHIPS	6-8' -043 2DP		50		0.0
8	PT-PEAT, compact, fine grained, poorly graded, black and red brown, moist	663.85		8-10' -044				0.0
10	ML-SILT, compact, fine grained, poorly graded, light gray, light brown and red brown, very moist, stratified							
	END OF BOREHOLE @ 10.0ft BGS	661.85						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB278-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512144.35 EASTING: 12772812.56 GROUND SURFACE	672.29						
	ASPHALT	671.96	CONCRETE					0.0
2	SP-SAND, with slag, with fine to coarse gravel, loose, fine to coarse grained, poorly graded, dark brown and black, moist	670.29		1DP		60		0.0
4	SP-SAND AND SLAG, trace brick debris, loose, fine to coarse grained, poorly graded, dark brown and black, moist							0.0
6			BACKFILLED WITH BENTONITE CHIPS	4-6' -047				0.0
8	COBBLE	665.29 665.04		6-8' -048 2DP		80		0.0
10	PT-PEAT, compact, fine grained, poorly graded, black, moist, some wood debris			8-10' -049				0.0
10	END OF BOREHOLE @ 10.0ft BGS	662.29						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB279-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512123.32 EASTING: 12772782.08 GROUND SURFACE	671.54						
	ASPHALT	671.37	CONCRETE					
2	SP-SAND, with fine to coarse gravel, with slag, loose, fine to coarse grained, poorly graded, dark brown, moist	670.04	BACKFILLED WITH BENTONITE CHIPS	0-4' -054 1DP		80		0.0
4	SP-SAND, loose, fine to medium grained, poorly graded, dark brown, moist - brown at 2.0ft BGS	668.54 667.54						0.0
6	FILL, trace brown fine grained sand, gravel, glass, slag, cinder	666.54						
8	SP-SAND, some slag, loose, fine to coarse grained, poorly graded, mix of brown, gray, light brown and red brown							
	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB280-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512122.79 EASTING: 12772800.57 GROUND SURFACE	672.02						
	ASPHALT	671.77	CONCRETE					
2	SP-SAND, with slag, with fine to coarse gravel, loose, fine to coarse grained, poorly graded, dark brown, moist	670.52		1DP		60		0.0
4	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, black, moist	668.52						0.0
6	SP-SAND, loose, fine to medium grained, poorly graded, light brown, moist - brown at 5.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -051				0.0
8	- red brown at 7.5ft BGS	664.02		6-8' -052 2DP		80		0.0
10	PT-PEAT, compact, fine grained, poorly graded, black, moist, trace wood debris	663.02		8-10' -053				0.0
10	SP-SAND, loose, fine to medium grained, poorly graded, light gray brown, moist	662.02						
12	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB281-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512122.18 EASTING: 12772811.47 GROUND SURFACE	672.52						
	ASPHALT	672.27	CONCRETE					
2	SP-SAND, with slag, with fine to coarse gravel, loose, fine to coarse grained, poorly graded, dark brown and black, moist	671.02	BACKFILLED WITH BENTONITE CHIPS	0-4' -050 100		75		0.0
4	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, black and dark brown, moist	669.52						0.0
	SP-SAND, with slag, with fine to coarse gravel, loose, fine to coarse grained, poorly graded, red brown, moist - dark brown at 3.5ft BGS	668.52 668.27 667.77 667.52						
6	CONCRETE DEBRIS							
8	SP-SAND, loose, fine to coarse grained, poorly graded, dark brown, moist							
10	SP-SAND, loose, fine to medium grained, poorly graded, light brown, moist							
	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GPJ CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB282-13
DATE COMPLETED: October 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512114.09 EASTING: 12772834.48 GROUND SURFACE	672.98						
	CONCRETE		CONCRETE					
2	SP-SAND AND SLAG, loose, fine to medium grained, poorly graded, black, moist	672.31		1DP		60		0.0
4	SP-SAND, loose, fine to medium grained, poorly graded, brown, moist	668.98						0.0
6	PT-PEAT, compact, fine grained, poorly graded, black, moist, some wood debris	667.98	BACKFILLED WITH BENTONITE CHIPS	4-6' -036				0.0
8	SP-SAND, loose, fine to medium grained, poorly graded, light gray, moist - brown at 9.0ft BGS	665.48		6-8' -037/ 038 2DP		80		0.0
10	END OF BOREHOLE @ 10.0ft BGS	662.98		8-10' -039				0.0
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB283-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512110.06 EASTING: 12772857.92 GROUND SURFACE	673.63						
	CONCRETE	672.96	CONCRETE					
2	SP-SAND, with slag, loose, fine to medium grained, poorly graded, dark gray and black, moist	672.63						
	SP-SAND, loose, fine grained, poorly graded, light brown, moist	670.13	BACKFILLED WITH BENTONITE CHIPS	04'-034 1DP		60		0.0
4	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, black, moist	669.63						0.0
	SP-SAND, loose to compact, fine grained, dark brown, moist	668.63						0.0
	- brown at 4.5ft BGS							
6	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB284-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512111.61 EASTING: 12772866.51 GROUND SURFACE	673.86						
	CONCRETE		CONCRETE					
2	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, black, moist	673.19						0.0
4	SP-SAND, loose, fine to medium grained, poorly graded, light brown, moist - brown at 4.0ft BGS - red brown at 4.8ft BGS - brown at 5.0ft BGS	671.36		1DP		60		0.0
6			BACKFILLED WITH BENTONITE CHIPS	4-6' -030/ 031				0.0
8				6-8' -032 2DP		80		0.0
10	SP-SAND, loose to compact, fine to coarse grained, poorly graded, light brown and brown, moist to wet END OF BOREHOLE @ 10.0ft BGS	664.86 663.86		8-10' -033				0.0
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB285-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512089.94 EASTING: 12772866.88 GROUND SURFACE	673.84						
	CONCRETE		CONCRETE					
2	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, black, moist	673.17						0.0
	CONCRETE DEBRIS	671.34				60		0.0
4	SP-SAND, loose, fine to medium grained, poorly graded, light brown, moist - brown at 4.5ft BGS	671.09	BACKFILLED WITH BENTONITE CHIPS	0-4' -029 1DP				0.0
6	END OF BOREHOLE @ 5.0ft BGS	668.84						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB286-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512087.12 EASTING: 12772829.05 GROUND SURFACE	673.00						
	CONCRETE		CONCRETE					
2	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, red brown and black, moist	672.13						
			BACKFILLED WITH BENTONITE CHIPS	0-4' -035 1DP		60		0.0
4	SP-SAND, loose, fine to medium grained, poorly graded, light brown, moist - red brown at 4.3ft BGS	670.00						0.0
		668.50						0.0
6	SM-SILTY SAND, compact, fine grained, poorly graded, gray and red brown, moist, stratified - slag and asphalt debris at 5.0ft BGS	668.00						
8	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB287-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512092.46 EASTING: 12772792.19 GROUND SURFACE	672.13						
	ASPHALT	671.88	CONCRETE					
2	SP-SAND, with fine to coarse gravel, loose, fine to coarse grained, poorly graded, brown, moist	671.38						
4	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, moist	669.13	BACKFILLED WITH BENTONITE CHIPS	0-4' -055 1DP		60		0.0
6	SP-SAND, loose, fine to medium grained, poorly graded, light brown, moist	667.13						0.0
6	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB288-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512062.91 EASTING: 12772784.59 GROUND SURFACE	671.76						
	ASPHALT	671.59	CONCRETE					
2	SP-SAND, with fine to coarse gravel, loose, fine to coarse grained, poorly graded, brown, moist	671.26	BACKFILLED WITH BENTONITE CHIPS	0-4' -057 1DP		60		0.0
4	SP-SAND, trace slag, loose, fine to medium grained, poorly graded, brown, moist - concrete debris from 3.5 to 3.8ft BGS - dark brown at 3.8ft BGS							0.0
6	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, black, moist	667.01						
	END OF BOREHOLE @ 5.0ft BGS	666.76						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB289-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512049.16 EASTING: 12772794.18 GROUND SURFACE	672.05						
	ASPHALT	671.80	CONCRETE					
2	SP-SAND, with fine to coarse gravel, loose, fine to coarse grained, poorly graded, gray brown, moist	671.30	BACKFILLED WITH BENTONITE CHIPS	0-4' -056 1DP				0.0
4	SP-SAND, trace slag, loose, fine to medium grained, poorly graded, brown, moist							0.0
6	END OF BOREHOLE @ 5.0ft BGS	667.05						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB290-13
DATE COMPLETED: October 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512054.5 EASTING: 12772829.09 GROUND SURFACE	673.22						
	ASPHALT	672.97	CONCRETE					
2	SP/GP-SAND AND GRAVEL, loose, fine to medium sand, fine gravel, poorly graded, brown, moist	672.22		0-4'-004 1DP		50		0.7
4	SLAG, with fine to medium sand, loose, poorly graded, black	669.72						244
	SP-SAND, with fine gravel, loose, fine to medium grained, poorly graded, brown, moist	668.47						192
6	FILL, cobble, glass debris, metal wire debris, slag	667.72	BACKFILLED WITH BENTONITE CHIPS					
	SP-SAND, with fine gravel, loose, fine to medium grained, poorly graded, black and gray, moist	666.72		2DP		50		4.2
8	GW-GRAVEL AND COBBLE	666.22						48.9
10	SP-SAND, loose, fine to medium grained, poorly graded, gray, very moist, with chemical odor							14.1
12				3DP		50		29.9
14	- moist to wet at 13.0ft BGS - wet at 14.0ft BGS							
16	END OF BOREHOLE @ 15.0ft BGS	658.22						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB291-13
DATE COMPLETED: October 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512059.54 EASTING: 12772860.09 GROUND SURFACE	673.81						
	CONCRETE		CONCRETE					
	SLAG, black	672.98		0-2' -012/013				0.5
2	SP-SAND, loose, fine grained, poorly graded, red brown and brown, moist	672.81		1DP 2-4' -014		60		0.4
4	SP-SAND AND SLAG, loose, fine grained, poorly graded, red brown and brown, moist - cobble at 4.0ft BGS	671.81		4-6' -015				2.6
6			BACKFILLED WITH BENTONITE CHIPS	6-8' -016 2DP		50		5.8
8				8-10' -017				2.9
10	SP-SAND, loose, fine grained, poorly graded, gray and gray brown, moist	664.81						
	END OF BOREHOLE @ 10.0ft BGS	663.81						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB292-13
DATE COMPLETED: October 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512035.78 EASTING: 12772873.77 GROUND SURFACE	674.16						
	CONCRETE		CONCRETE					
		673.33						0.4
2	SP-SAND AND SLAG, some glass debris, loose, fine to medium grained, poorly graded, dark brown, moist	672.66		1DP 2-4' -018		60		0.0
4	SP-SAND, compact, fine grained, poorly graded, red brown, moist	672.16		4-6' -019				0.0
	SP-SAND, loose, fine grained, poorly graded, dark brown, moist	669.16	BACKFILLED WITH BENTONITE CHIPS	6-8' -020 2DP		50		0.0
6	- dark brown and red brown at 3.5ft BGS - cobble, light brown at 4.5ft BGS			8-10' -021				0.0
8	SP-SAND, trace fine gravel, loose to compact, fine grained, poorly graded, light brown, moist							
10	END OF BOREHOLE @ 10.0ft BGS	664.16						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB293-13
DATE COMPLETED: October 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512044.89 EASTING: 12772883.02 GROUND SURFACE	674.34						
	CONCRETE		CONCRETE					
2	SP-SAND AND SLAG, loose, fine to medium grained, poorly graded, gray and black, moist	673.51						
4	SP-SAND, loose, fine to medium grained, poorly graded, red brown and brown, moist	671.84	BACKFILLED WITH BENTONITE CHIPS	0-4' -022 1DP		25		0.0
6	END OF BOREHOLE @ 5.0ft BGS	669.34						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB294-13
DATE COMPLETED: October 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	NORTHING: 512055.19 EASTING: 12772889.07 GROUND SURFACE	674.52						
	CONCRETE		CONCRETE					
2	SP-SAND, trace fine gravel, loose, fine grained, poorly graded, brown, moist	673.69						10.0
	SLAG AND COBBLE	672.52						
4	SP-SAND, with metal debris, trace fine gravel, loose, fine to medium grained, poorly graded, bright orange brown, moist	671.52		1DP 2-4' -023		60		6.4
6	SP-SAND, loose, fine grained, poorly graded, brown, moist	670.02	BACKFILLED WITH BENTONITE CHIPS	4-6' -024				3.4
8				6-8' -025 2DP		80		2.0
10	END OF BOREHOLE @ 10.0ft BGS	664.52		8-10' -026/ 027				0.2
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB295-13
DATE COMPLETED: October 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512081.58 EASTING: 12772992.75 GROUND SURFACE	676.27						
2	SP/GP-SAND AND GRAVEL, loose, fine to coarse sand, fine to coarse gravel, poorly graded, light brown to gray, moist	675.27	CONCRETE	1DP 2-4' -068		60		0.0
4	SP-SAND, some slag, with fine to coarse gravel, loose, fine to medium grained, brown, moist	672.77		4-6' -069				0.1
6	SLAG, some fine to coarse dark brown sand, loose, poorly graded, moist		BACKFILLED WITH BENTONITE CHIPS	6-8' -070 2DP		60		1.7
8	- wood debris, slight odor at 7.0ft BGS	668.77		8-10' -071				7.6
10	SP-SAND, with fine gravel, with concrete debris, loose, fine to coarse grained, poorly graded, light brown, moist	667.52						
12	SP-SAND, with fine to coarse gravel, compact, fine to medium grained, poorly graded, moist, slight odor	666.27						
14	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB296-13
DATE COMPLETED: October 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512086.3 EASTING: 12772992.84 GROUND SURFACE	676.18						
2	SP/GP-SAND AND GRAVEL, loose, fine to coarse sand, fine gravel, poorly graded, light brown, moist	675.68	CONCRETE	0-4' -067 1DP		80		0.0
4	SP-SAND, with fine to coarse gravel, trace slag, loose, fine to coarse grained, brown, moist - light brown at 1.5ft BGS - brown and black at 3.5ft BGS	671.68 671.18	BACKFILLED WITH BENTONITE CHIPS					0.1
6	SP/GP-SAND AND GRAVEL, loose, fine to coarse sand, fine to coarse gravel, poorly graded, light brown, moist							
8	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14

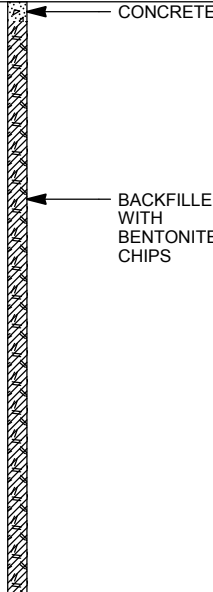


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB297-13
DATE COMPLETED: October 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512080.87 EASTING: 12773014.24 GROUND SURFACE	676.38						
2	SP/GP-SAND AND GRAVEL, loose, fine to coarse sand, fine to coarse gravel, poorly graded, light brown, moist	675.38		1DP 2-4' -073		60		0.6
4	SP-SAND, with fine to coarse gravel, loose, fine to medium grained, poorly graded, brown, moist	673.38		4-6' -074				0.0
6	SP-SAND, with fine to coarse gravel, with slag, loose, fine to medium grained, poorly graded, brown and black, moist	671.38		6-8' -075 2DP		50		0.1
8	SP-SAND, with fine gravel, trace slag, loose, fine to medium grained, poorly graded, brown, moist	668.38		8-10' -076/ 077				0.1
10	SLUDGE-LIKE DEBRIS, white	666.63						0.0
12	PT-PEAT, compact, fine grained, poorly graded, black, moist, trace organic material	665.38		3DP				0.0
14	SP-SAND, with fine gravel, compact, fine to medium grained, poorly graded, dark brown, moist	662.88						0.1
16	SP-SAND, loose, fine to medium grained, poorly graded, light brown, very moist	661.88 661.38						
18	END OF BOREHOLE @ 15.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14

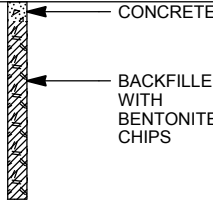


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB298-13
DATE COMPLETED: October 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512093.69 EASTING: 12773010.1 GROUND SURFACE	676.53						
2	SP/GP-SAND AND GRAVEL, loose, fine to coarse sand, fine to coarse gravel, poorly graded, light brown, moist	675.53	 CONCRETE BACKFILLED WITH BENTONITE CHIPS	0-4' -072 1DP		80		0.1 0.0
	SP-SAND, with fine gravel, loose, fine to coarse grained, poorly graded, brown, moist - with slag at 1.5ft BGS	674.78 674.53						
4	SLAG	673.53						
6	SP-SAND, trace cinders, loose, fine to medium grained, poorly graded, brown, light brown, red brown and black, moist, stratified	671.53						
8	SP-SAND, with slag, loose, fine to coarse grained, poorly graded, brown and red brown, moist - cobble at 4.0ft BGS							
10	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB299-13
DATE COMPLETED: October 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512103.17 EASTING: 12772992.5 GROUND SURFACE	676.13						
2	SP/GP-SAND AND GRAVEL, trace brick debris, loose, fine to medium sand, fine to coarse gravel, poorly graded, gray brown, moist	675.13	CONCRETE					0.1
4	SP-SAND, with fine to coarse gravel, loose to compact, fine to medium grained, poorly graded, brown, moist	673.63 673.13		1DP 2-4' -062		80		0.2
6	CONCRETE DEBRIS	671.63		4-6' -063/064				0.7
8	SP-SAND, trace fine gravel, loose, fine to medium grained, poorly graded, light brown, moist - brown at 3.8ft BGS		BACKFILLED WITH BENTONITE CHIPS	6-8' -065 2DP		80		0.1
10	SP-SAND, with slag, trace fine gravel, loose to compact, fine to medium grained, poorly graded, dark brown	668.13 667.88		8-10' -066				0.0
12	SLAG	666.13						
14	SP-SAND, with fine to coarse gravel, loose to compact, fine to medium grained, poorly graded, brown							
16	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14

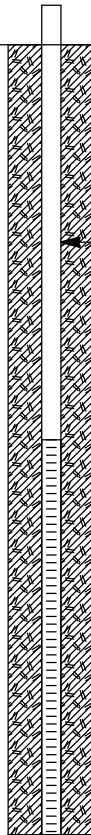


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB300-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512126.5 EASTING: 12772991.81 GROUND SURFACE	676.12						
2	SP/GP-SAND AND GRAVEL, trace brick debris, loose, fine to coarse sand, fine to coarse gravel, poorly graded, light brown, moist	674.62		1DP 2-4' -058		60		0.0
4	SP-SAND, with slag, with fine to coarse gravel, loose, fine to coarse grained, poorly graded, brown, moist	672.12 671.87		4-6' -059				0.0
	ASPHALT DEBRIS	671.37 671.12		6-8' -060 2DP		80		0.0
6	SP-SAND, with fine to coarse gravel, trace slag, loose, fine to coarse grained, poorly graded, brown, moist - red brown at 4.75ft BGS	668.62		8-10' -061				0.0
8	SP-SAND, loose, fine to medium grained, poorly graded, light brown, moist	666.12						0.0
10	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, black and red brown, moist	664.12						0.0
12	SP-SAND, trace fine to coarse gravel, compact, fine to medium grained, brown, moist	662.12		3DP		80		0.0
14	PT-PEAT, compact, fine grained, poorly graded, black, moist							0.0
16	SP-SAND, compact, fine to medium grained, poorly graded, brown, moist							0.0
18	SP-SAND, loose, compact, fine to coarse grained, light brown, moist			4DP		80		0.0
20	- wet at 18.0ft BGS							0.0
20	END OF BOREHOLE @ 20.0ft BGS	656.12						0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB301-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 512151.62 EASTING: 12772813.36 GROUND SURFACE	672.39						
	ASPHALT	672.14	CONCRETE					
2	SP-SAND, with slag, trace brick debris, loose, fine to coarse grained, poorly graded, black and dark brown, moist		BACKFILLED WITH BENTONITE CHIPS	0-4' -046 1DP		60		0.0
4								0.0
6	SP-SAND, trace gravel, loose, fine to medium grained, poorly graded, brown, moist	667.89 667.39						
6	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB302-13
DATE COMPLETED: November 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.67						
	CONCRETE DEBRIS, and gravel	1.00						0.2
2	SP-SAND AND SLAG, loose, fine to coarse grained sand, poorly graded, black, moist	1.50						
	SP-SAND, slightly compact, fine grained, poorly graded, black, moist	2.00				80		0.4
4	SP-SAND, trace fine gravel, trace slag, loose, fine to coarse grained, poorly graded, dark brown and red brown, moist							
	- cinders at 4.0ft BGS							
6	- cloth/rags at 4.8ft BGS							
8	END OF BOREHOLE @ 5.0ft BGS	5.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB303-13
DATE COMPLETED: November 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.67		0-4' -001 1DP		50		0.0
	CONCRETE DEBRIS, and gravel	1.00						
2	SP-SAND, and slag, trace glass, loose, fine to coarse grained sand, poorly graded, black, moist	2.00						
		3.00						
4	BRICK DEBRIS	4.00						
	CONCRETE DEBRIS, trace light brown fine grained sand	5.00						
6	SP-SAND, loose, fine to medium grained, poorly graded, light brown							
	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT

HOLE DESIGNATION: SB304-13

PROJECT NUMBER: 017360

DATE COMPLETED: November 20, 2013

CLIENT: RACER TRUST

DRILLING METHOD: DIRECT PUSH

LOCATION: WYOMING, MI

FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE							
2	SP-SAND, and slag, trace fine gravel, loose, fine to coarse grained sand, poorly graded, mix of brown, red brown and black, moist	0.67						0.1
4						60		0.1
6	END OF BOREHOLE @ 5.0ft BGS	5.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB305-13
DATE COMPLETED: November 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.67		0-4' -003 1DP		75		0.1
	GP-GRAVEL	1.00						
2	SP-SAND, and slag, loose, fine to coarse grained sand, poorly graded, black, moist	2.00						
	SP-SAND, with slag, with gravel, slightly compact, fine to medium grained sand, fine gravel, poorly graded, brown, moist	3.00 3.50						
4	CONCRETE DEBRIS	5.00						
6	SP-SAND, loose, fine to medium grained, poorly graded, brown, moist							
	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB306-13
DATE COMPLETED: November 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.67	 BACKFILLED WITH BENTONITE CHIPS	0-4' -007 1DP		50		0.0
	GP-GRAVEL	0.83						
2	SP-SAND, and slag, loose, fine to coarse grained, poorly graded, black, moist	2.50						
4	SP-SAND, loose, fine to medium grained, poorly graded, light brown, moist	2.75						
	SP-SAND, with slag, loose, fine to coarse grained, poorly graded, black and red brown, moist	5.00						
6	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB307-13
DATE COMPLETED: November 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.67						
2	SP-SAND, and slag, trace fine gravel, loose, fine to coarse grained sand, poorly graded, black							0.1
4	- wood debris from 4.0 to 4.3ft BGS	4.50				50		0.4
	BRICK DEBRIS	5.00						
6	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB308-13
DATE COMPLETED: November 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.67	 BACKFILLED WITH BENTONITE CHIPS	0-4' -005 1DP		50		0.0
	GP-GRAVEL	1.00						
2	SP-SAND, and slag, trace fine grave, loose, fine to coarse grained, poorly graded, dark brown and black, moist							
4		4.50						
	SP-SAND, loose, fine to medium grained, poorly graded, light brown, moist	5.00						
6	END OF BOREHOLE @ 5.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 12/8/14



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB309-13
DATE COMPLETED: November 20, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.67						
	GP-GRAVEL	1.00						0.1
2	SP-SAND, loose, fine to medium grained, poorly graded, black, moist	1.50						
	SP-SAND, loose, fine to medium grained, poorly graded, brown, moist	2.00				40		0.2
4	SP-SAND, and slag, trace fine gravel, loose, fine to coarse grained, dark brown/black							
6	END OF BOREHOLE @ 5.0ft BGS	5.00						
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12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017360-T05WIN GP J CRA_CORP.GDT 1/28/14

Attachment B

Analytical Laboratory Data



27-Nov-2013

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

Re: **Former GRMP (017360-T02Y13)**

Work Order: **13111115**

Dear Rawa,

ALS Environmental received 4 samples on 20-Nov-2013 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 10.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior 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 (017360-T02Y13)
Work Order: 13111115

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>
13111115-01	SO-17360-112013-MR-001	Tclp Extract		11/20/13 12:15	11/20/13 14:52	☐
13111115-02	SO-17360-112013-MR-002	Tclp Extract		11/20/13 12:25	11/20/13 14:52	☐
13111115-03	SO-17360-112013-MR-003	Tclp Extract		11/20/13 12:35	11/20/13 14:52	☐
13111115-04	SO-17360-112013-MR-004	Tclp Extract		11/20/13 12:45	11/20/13 14:52	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (017360-T02Y13)
WorkOrder: 13111115

**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

<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
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

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

ALS Group USA, Corp

Date: 27-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (017360-T02Y13)
Sample ID: SO-17360-112013-MR-001
Collection Date: 11/20/13 12:15 PM

Work Order: 13111115
Lab ID: 13111115-01
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS ANALYSIS BY ICP-MS			SW6020A			Prep: SW3005A / 11/24/13	Analyst: ML
<u>BatchID:</u> 53603							
Lead	0.012		0.00027	0.010	mg/L	1	11/25/13 22:04

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

ALS Group USA, Corp

Date: 27-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (017360-T02Y13)
Sample ID: SO-17360-112013-MR-002
Collection Date: 11/20/13 12:25 PM

Work Order: 13111115
Lab ID: 13111115-02
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS ANALYSIS BY ICP-MS			SW6020A			Prep: SW3005A / 11/24/13	Analyst: ML
<u>BatchID:</u> 53603							
Lead	2.4		0.00027	0.010	mg/L	1	11/25/13 22:10

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

ALS Group USA, Corp

Date: 27-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (017360-T02Y13)
Sample ID: SO-17360-112013-MR-003
Collection Date: 11/20/13 12:35 PM

Work Order: 13111115
Lab ID: 13111115-03
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS ANALYSIS BY ICP-MS			SW6020A		Prep: SW3005A / 11/24/13	Analyst: ML	
<u>BatchID:</u> 53603							
Lead	0.027		0.00027	0.010	mg/L	1	11/25/13 22:17

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

ALS Group USA, Corp

Date: 27-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (017360-T02Y13)
Sample ID: SO-17360-112013-MR-004
Collection Date: 11/20/13 12:45 PM

Work Order: 13111115
Lab ID: 13111115-04
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS ANALYSIS BY ICP-MS			SW6020A			Prep: SW3005A / 11/24/13	Analyst: ML
<u>BatchID:</u> 53603							
Lead	3.2		0.00027	0.010	mg/L	1	11/25/13 22:23

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

Client: Conestoga-Rovers & Associates
Work Order: 13111115
Project: Former GRMP (017360-T02Y13)

QC BATCH REPORT

Batch ID: **53603** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-53603-53603				Units: mg/L		Analysis Date: 11/25/13 09:19 PM		
Client ID:		Run ID: ICPMS1_131125A				SeqNo: 2555625		Prep Date: 11/24/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	U	0.0050								

LCS		Sample ID: LCS-53603-53603				Units: mg/L		Analysis Date: 11/25/13 09:57 PM		
Client ID:		Run ID: ICPMS1_131125A				SeqNo: 2555630		Prep Date: 11/24/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	0.09606	0.0050	0.1	0	96.1	80-120	0			

MS		Sample ID: 13111128-22AMS				Units: mg/L		Analysis Date: 11/25/13 10:42 PM		
Client ID:		Run ID: ICPMS1_131125A				SeqNo: 2555661		Prep Date: 11/24/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	0.09942	0.0050	0.1	0.0001468	99.3	75-125	0			

MSD		Sample ID: 13111128-22AMSD				Units: mg/L		Analysis Date: 11/25/13 10:48 PM		
Client ID:		Run ID: ICPMS1_131125A				SeqNo: 2555662		Prep Date: 11/24/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	0.09987	0.0050	0.1	0.0001468	99.7	75-125	0.09942	0.452	20	

The following samples were analyzed in this batch:

13111115-01A	13111115-02A	13111115-03A
13111115-04A		



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

Phone: (734) 453-5123

Fax: (734) 453-5201

1311115
COC NO.: **PL-12341**

PAGE 1 OF 2

(See Reverse Side for Instructions)

[illegible]

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

2 CRA Form: COC-10A (20110804)

Sample Receipt Checklist

Client Name: **CRA - PLYMOUTH**

Date/Time Received: **20-Nov-13 14:52**

Work Order: **13111115**

Received by: **AB**

Checklist completed by Diane Shaw 20-Nov-13
eSignature Date

Reviewed by: Tom Bramish 20-Nov-13
eSignature Date

Matrices: Soil

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>3.4 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>11/20/2013 3:51:11 PM</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:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



12-Nov-2013

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

Re: **Former GRMP (17360-T02Y13)**

Work Order: **13101246**

Dear Rawa,

ALS Environmental received 63 samples on 23-Oct-2013 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 272.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior 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-T02Y13)
Work Order: 13101246

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>
13101246-01	SO-017360-102113-MR-001	Soil		10/21/13 10:20	10/23/13 16:25	☐
13101246-02	SO-017360-102113-MR-002	Soil		10/21/13 10:50	10/23/13 16:25	☐
13101246-03	SO-017360-102113-MR-003	Soil		10/21/13 11:35	10/23/13 16:25	☐
13101246-04	SO-017360-102113-MR-018	Soil		10/21/13 15:15	10/23/13 16:25	☐
13101246-05	SO-017360-102113-MR-019	Soil		10/21/13 15:20	10/23/13 16:25	☐
13101246-06	SO-017360-102113-MR-020	Soil		10/21/13 15:25	10/23/13 16:25	☐
13101246-07	SO-017360-102113-MR-021	Soil		10/21/13 15:30	10/23/13 16:25	☐
13101246-08	SO-017360-102113-MR-023	Soil		10/21/13 16:05	10/23/13 16:25	☐
13101246-09	SO-017360-102113-MR-024	Soil		10/21/13 16:10	10/23/13 16:25	☐
13101246-10	SO-017360-102113-MR-025	Soil		10/21/13 16:20	10/23/13 16:25	☐
13101246-11	SO-017360-102113-MR-026	Soil		10/21/13 16:25	10/23/13 16:25	☐
13101246-12	SO-017360-102113-MR-027	Soil		10/21/13 16:30	10/23/13 16:25	☐
13101246-13	SO-017360-102213-MR-029	Tclp Extract		10/22/13 09:45	10/23/13 16:25	☐
13101246-14	SO-017360-102213-MR-030	Soil		10/22/13 10:05	10/23/13 16:25	☐
13101246-15	SO-017360-102213-MR-031	Soil		10/22/13 10:10	10/23/13 16:25	☐
13101246-16	SO-017360-102213-MR-032	Soil		10/22/13 10:15	10/23/13 16:25	☐
13101246-17	SO-017360-102213-MR-033	Soil		10/22/13 10:20	10/23/13 16:25	☐
13101246-18	SO-017360-102213-MR-035	Tclp Extract		10/22/13 10:50	10/23/13 16:25	☐
13101246-19	SO-017360-102213-MR-036	Soil		10/22/13 11:30	10/23/13 16:25	☐
13101246-20	SO-017360-102213-MR-037	Soil		10/22/13 11:35	10/23/13 16:25	☐
13101246-21	SO-017360-102213-MR-038	Soil		10/22/13 11:40	10/23/13 16:25	☐
13101246-22	SO-017360-102213-MR-039	Soil		10/22/13 11:45	10/23/13 16:25	☐
13101246-23	SO-017360-102213-MR-040	Soil		10/22/13 13:05	10/23/13 16:25	☐
13101246-24	SO-017360-102213-MR-041	Soil		10/22/13 13:10	10/23/13 16:25	☐
13101246-25	SO-017360-102213-MR-042	Soil		10/22/13 13:15	10/23/13 16:25	☐
13101246-26	SO-017360-102213-MR-043	Soil		10/22/13 13:20	10/23/13 16:25	☐
13101246-27	SO-017360-102213-MR-044	Soil		10/22/13 13:25	10/23/13 16:25	☐
13101246-28	SO-017360-102213-MR-045	Soil		10/22/13 13:30	10/23/13 16:25	☐
13101246-29	SO-017360-102213-MR-047	Soil		10/22/13 14:00	10/23/13 16:25	☐
13101246-30	SO-017360-102213-MR-048	Soil		10/22/13 14:05	10/23/13 16:25	☐
13101246-31	SO-017360-102213-MR-049	Soil		10/22/13 14:10	10/23/13 16:25	☐
13101246-32	SO-017360-102213-MR-050	Tclp Extract		10/22/13 14:20	10/23/13 16:25	☐
13101246-33	SO-017360-102213-MR-051	Soil		10/22/13 14:45	10/23/13 16:25	☐
13101246-34	SO-017360-102213-MR-052	Soil		10/22/13 14:50	10/23/13 16:25	☐
13101246-35	SO-017360-102213-MR-053	Soil		10/22/13 14:55	10/23/13 16:25	☐
13101246-36	SO-017360-102213-MR-054	Tclp Extract		10/22/13 15:15	10/23/13 16:25	☐
13101246-37	SO-017360-102213-MR-055	Tclp Extract		10/22/13 15:25	10/23/13 16:25	☐
13101246-38	SO-017360-102213-MR-056	Tclp Extract		10/22/13 15:40	10/23/13 16:25	☐
13101246-39	SO-017360-102213-MR-057	Tclp Extract		10/22/13 15:55	10/23/13 16:25	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Work Order: 13101246

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>
13101246-40	SO-017360-102213-MR-058	Soil		10/22/13 16:30	10/23/13 16:25	☐
13101246-41	SO-017360-102213-MR-059	Soil		10/22/13 16:35	10/23/13 16:25	☐
13101246-42	SO-017360-102213-MR-060	Soil		10/22/13 16:40	10/23/13 16:25	☐
13101246-43	SO-017360-102213-MR-061	Soil		10/22/13 16:45	10/23/13 16:25	☐
13101246-44	SO-017360-102313-MR-062	Soil		10/23/13 10:00	10/23/13 16:25	☐
13101246-45	SO-017360-102313-MR-063	Soil		10/23/13 10:05	10/23/13 16:25	☐
13101246-46	SO-017360-102313-MR-064	Soil		10/23/13 10:10	10/23/13 16:25	☐
13101246-47	SO-017360-102313-MR-065	Soil		10/23/13 10:15	10/23/13 16:25	☐
13101246-48	SO-017360-102313-MR-066	Soil		10/23/13 10:20	10/23/13 16:25	☐
13101246-49	SO-017360-102313-MR-067	Tclp Extract		10/23/13 10:40	10/23/13 16:25	☐
13101246-50	SO-017360-102313-MR-068	Soil		10/23/13 11:15	10/23/13 16:25	☐
13101246-51	SO-017360-102313-MR-069	Soil		10/23/13 11:20	10/23/13 16:25	☐
13101246-52	SO-017360-102313-MR-070	Soil		10/23/13 11:25	10/23/13 16:25	☐
13101246-53	SO-017360-102313-MR-071	Soil		10/23/13 11:30	10/23/13 16:25	☐
13101246-54	SO-017360-102313-MR-072	Tclp Extract		10/23/13 11:50	10/23/13 16:25	☐
13101246-55	SO-017360-102313-MR-073	Soil		10/23/13 12:10	10/23/13 16:25	☐
13101246-56	SO-017360-102313-MR-074	Soil		10/23/13 12:15	10/23/13 16:25	☐
13101246-57	SO-017360-102313-MR-075	Soil		10/23/13 12:20	10/23/13 16:25	☐
13101246-58	SO-017360-102313-MR-076	Soil		10/23/13 12:25	10/23/13 16:25	☐
13101246-59	SO-017360-102313-MR-077	Soil		10/23/13 12:30	10/23/13 16:25	☐
13101246-60	GW-017360-102313-MR-078	Water		10/23/13 13:40	10/23/13 16:25	☐
13101246-61	GW-017360-102313-MR-079	Water		10/23/13 13:45	10/23/13 16:25	☐
13101246-62	TB-017360-102313-MR-080	Soil		10/23/13	10/23/13 16:25	☐
13101246-63	TB-017360-102313-MR-081	Water		10/23/13	10/23/13 16:25	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
WorkOrder: 13101246

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

<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
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Work Order: 13101246

Case Narrative**Analytical Comments:**

Batch 52689, Method SVO_8270_S, Sample 13101246-31A: The SVOC analysis was run at a dilution due to matrix interference.

Batch 52693, Method PCB_8082_S, Sample 13101246-31A: One or more PCB surrogates recoveries are out of range low due to matrix interference.

Batch 52693, Method PCB_8082_S, Sample 13101246-34A: One or more PCB surrogates recoveries are out of range low due to matrix interference.

Batch 52701, Method ICP_6020_S, Sample 13101246-04A: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52701, Method ICP_6020_S, Sample 13101246-07A: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52701, Method ICP_6020_S, Sample 13101246-08A: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52747, Method ICP_6020_S, Sample 13101246-24A: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52747, Method ICP_6020_S, Sample 13101246-26A: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52747, Method ICP_6020_S, Sample 13101246-27A: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52747, Method ICP_6020_S, Sample 13101246-28A: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52747, Method ICP_6020_S, Sample 13101246-30A: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52747, Method ICP_6020_S, Sample 13101246-40B: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52747, Method ICP_6020_S, Sample 13101246-41B: The metals reporting limits are

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Work Order: 13101246

Case Narrative

elevated due to dilution for high concentrations of non-target analytes.

Batch 52750, Method ICP_6020_S, Sample 13101246-45B: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52750, Method ICP_6020_S, Sample 13101246-46B: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52750, Method ICP_6020_S, Sample 13101246-47B: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52750, Method ICP_6020_S, Sample 13101246-50B: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52750, Method ICP_6020_S, Sample 13101246-51B: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52750, Method ICP_6020_S, Sample 13101246-56B: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

Batch 52750, Method ICP_6020_S, Sample 13101246-58B: The metals reporting limits are elevated due to dilution for high concentrations of non-target analytes.

The positive results for Acetone, Methylcyclohexane, and Methyl acetate should be considered as sample artifacts and not inherent in the samples themselves, unless historical data from the site indicates otherwise. There were no observances of these analytes in the associated method blanks, therefore lab contamination is not suspected. The exact source of the artifacts are not able to be determined, but potential causes could be any of the following: sample collection equipment and procedures, sample storage and transport, and/or background laboratory levels due to routine analytical procedures or factors affecting the air handling system within the laboratory. These analytes are commonly found at low levels in environmental samples and positive results should be considered as estimated.

QC Comments:

Batch 52701, Method ICP_6020_S, Sample 13101246-16AMS: The MS and/or MSD recovery was above the upper control limit. The corresponding results in the parent sample may be biased high for Barium and Manganese.

Batch 52747, Method ICP_6020_S, Sample 13101246-22AMS: The MS and/or MSD recovery

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Work Order: 13101246

Case Narrative

was above the upper control limit. The corresponding result in the parent sample may be biased high for Vanadium.

Batch 52747, Method ICP_6020_S, Sample 13101246-22AMSD: The MS and/or MSD recovery was above the upper control limit. The corresponding results in the parent sample may be biased high for Manganese, Vanadium, and Zinc.

Batch 52747, Method ICP_6020_S, Sample 13101246-22AMS: The MS and/or MSD recovery was below the control limit. The corresponding results in the parent sample may be biased low for Beryllium, Copper, and Selenium.

Batch 52750, Method ICP_6020_S, Sample 13101246-48BMS: The MS and/or MSD recovery was above the upper control limit. The corresponding results in the parent sample may be biased high for Molybdenum and Vanadium.

Batch 52750, Method ICP_6020_S, Sample 13101246-48BMS: The MS and/or MSD recovery was below the lower control limit. The corresponding results in the parent sample may be biased low for Chromium, Lead, and Nickel.

Batch 52731, Method SVO_8270_S, Sample 13101246-48A MS: Spike failure due to extraction anomaly; all other QC and parent sample surrogates were within control limits.

Batch 52677, Method VOC_8260_S, Sample 13101246-48C MS: The MS and/or MSD recovery was below the control limit. The corresponding result in the parent sample may be biased low for Trichloroethene.

Batch R129392A, Method VOC_8260_W, Sample VLCSW1-131028: The LCS recovery was outside of the lower control limit but within the Sporadic Marginal Exceedence limit. No qualification is necessary for Chloromethane.

Batch R129392A, Method VOC_8260_W, Sample 13101246-60A MS: The MS and/or MSD recovery was above the upper control limit for several compounds. The corresponding results in the parent sample were non-detect. No qualification is required.

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-001
Collection Date: 10/21/13 10:20 AM

Work Order: 13101246
Lab ID: 13101246-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52635</u>							
2-Methylnaphthalene	U		2.8	6.8	µg/Kg-dry	1	10/26/13 11:55
Acenaphthene	U		1.0	6.8	µg/Kg-dry	1	10/26/13 11:55
Acenaphthylene	U		1.2	6.8	µg/Kg-dry	1	10/26/13 11:55
Anthracene	U		1.3	6.8	µg/Kg-dry	1	10/26/13 11:55
Benzo(a)anthracene	U		1.3	6.8	µg/Kg-dry	1	10/26/13 11:55
Benzo(a)pyrene	U		2.2	6.8	µg/Kg-dry	1	10/26/13 11:55
Benzo(b)fluoranthene	U		2.0	6.8	µg/Kg-dry	1	10/26/13 11:55
Benzo(g,h,i)perylene	U		2.7	6.8	µg/Kg-dry	1	10/26/13 11:55
Benzo(k)fluoranthene	U		1.4	6.8	µg/Kg-dry	1	10/26/13 11:55
Chrysene	U		1.6	6.8	µg/Kg-dry	1	10/26/13 11:55
Dibenzo(a,h)anthracene	U		2.5	6.8	µg/Kg-dry	1	10/26/13 11:55
Fluoranthene	U		2.4	6.8	µg/Kg-dry	1	10/26/13 11:55
Fluorene	U		2.3	6.8	µg/Kg-dry	1	10/26/13 11:55
Indeno(1,2,3-cd)pyrene	U		2.3	6.8	µg/Kg-dry	1	10/26/13 11:55
Naphthalene	U		2.5	6.8	µg/Kg-dry	1	10/26/13 11:55
Phenanthrene	U		1.4	6.8	µg/Kg-dry	1	10/26/13 11:55
Pyrene	U		2.3	6.8	µg/Kg-dry	1	10/26/13 11:55
Surr: 2-Fluorobiphenyl	78.7			12-100	%REC	1	10/26/13 11:55
Surr: 4-Terphenyl-d14	116			25-137	%REC	1	10/26/13 11:55
Surr: Nitrobenzene-d5	77.7			37-107	%REC	1	10/26/13 11:55
MOISTURE			A2540 G				Analyst: MEB
<u>BatchID: R129317</u>							
Moisture	2.1		0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-002
Collection Date: 10/21/13 10:50 AM

Work Order: 13101246
Lab ID: 13101246-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52635</u>							
2-Methylnaphthalene	U		2.8	6.7	µg/Kg-dry	1	10/26/13 12:18
Acenaphthene	U		1.0	6.7	µg/Kg-dry	1	10/26/13 12:18
Acenaphthylene	U		1.2	6.7	µg/Kg-dry	1	10/26/13 12:18
Anthracene	U		1.3	6.7	µg/Kg-dry	1	10/26/13 12:18
Benzo(a)anthracene	U		1.3	6.7	µg/Kg-dry	1	10/26/13 12:18
Benzo(a)pyrene	U		2.2	6.7	µg/Kg-dry	1	10/26/13 12:18
Benzo(b)fluoranthene	U		2.0	6.7	µg/Kg-dry	1	10/26/13 12:18
Benzo(g,h,i)perylene	U		2.6	6.7	µg/Kg-dry	1	10/26/13 12:18
Benzo(k)fluoranthene	U		1.4	6.7	µg/Kg-dry	1	10/26/13 12:18
Chrysene	U		1.6	6.7	µg/Kg-dry	1	10/26/13 12:18
Dibenzo(a,h)anthracene	U		2.5	6.7	µg/Kg-dry	1	10/26/13 12:18
Fluoranthene	U		2.3	6.7	µg/Kg-dry	1	10/26/13 12:18
Fluorene	U		2.3	6.7	µg/Kg-dry	1	10/26/13 12:18
Indeno(1,2,3-cd)pyrene	U		2.2	6.7	µg/Kg-dry	1	10/26/13 12:18
Naphthalene	U		2.5	6.7	µg/Kg-dry	1	10/26/13 12:18
Phenanthrene	U		1.3	6.7	µg/Kg-dry	1	10/26/13 12:18
Pyrene	U		2.3	6.7	µg/Kg-dry	1	10/26/13 12:18
Surr: 2-Fluorobiphenyl	83.8			12-100	%REC	1	10/26/13 12:18
Surr: 4-Terphenyl-d14	118			25-137	%REC	1	10/26/13 12:18
Surr: Nitrobenzene-d5	79.0			37-107	%REC	1	10/26/13 12:18
MOISTURE			A2540 G				Analyst: MEB
<u>BatchID: R129317</u>							
Moisture	3.1		0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-003
Collection Date: 10/21/13 11:35 AM

Work Order: 13101246
Lab ID: 13101246-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52635</u>							
2-Methylnaphthalene	U		2.9	6.9	µg/Kg-dry	1	10/26/13 12:40
Acenaphthene	U		1.0	6.9	µg/Kg-dry	1	10/26/13 12:40
Acenaphthylene	U		1.3	6.9	µg/Kg-dry	1	10/26/13 12:40
Anthracene	U		1.4	6.9	µg/Kg-dry	1	10/26/13 12:40
Benzo(a)anthracene	U		1.4	6.9	µg/Kg-dry	1	10/26/13 12:40
Benzo(a)pyrene	U		2.2	6.9	µg/Kg-dry	1	10/26/13 12:40
Benzo(b)fluoranthene	U		2.0	6.9	µg/Kg-dry	1	10/26/13 12:40
Benzo(g,h,i)perylene	U		2.7	6.9	µg/Kg-dry	1	10/26/13 12:40
Benzo(k)fluoranthene	U		1.5	6.9	µg/Kg-dry	1	10/26/13 12:40
Chrysene	U		1.6	6.9	µg/Kg-dry	1	10/26/13 12:40
Dibenzo(a,h)anthracene	U		2.6	6.9	µg/Kg-dry	1	10/26/13 12:40
Fluoranthene	U		2.4	6.9	µg/Kg-dry	1	10/26/13 12:40
Fluorene	U		2.3	6.9	µg/Kg-dry	1	10/26/13 12:40
Indeno(1,2,3-cd)pyrene	U		2.3	6.9	µg/Kg-dry	1	10/26/13 12:40
Naphthalene	U		2.5	6.9	µg/Kg-dry	1	10/26/13 12:40
Phenanthrene	U		1.4	6.9	µg/Kg-dry	1	10/26/13 12:40
Pyrene	U		2.3	6.9	µg/Kg-dry	1	10/26/13 12:40
Surr: 2-Fluorobiphenyl	84.2			12-100	%REC	1	10/26/13 12:40
Surr: 4-Terphenyl-d14	118			25-137	%REC	1	10/26/13 12:40
Surr: Nitrobenzene-d5	80.8			37-107	%REC	1	10/26/13 12:40
MOISTURE			A2540 G				Analyst: MEB
<u>BatchID: R129317</u>							
Moisture	5.6		0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-018
Collection Date: 10/21/13 03:15 PM

Work Order: 13101246
Lab ID: 13101246-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/25/13	Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		51	89	µg/Kg-dry	1	10/28/13 14:26
Aroclor 1221	U		51	89	µg/Kg-dry	1	10/28/13 14:26
Aroclor 1232	U		51	89	µg/Kg-dry	1	10/28/13 14:26
Aroclor 1242	U		51	89	µg/Kg-dry	1	10/28/13 14:26
Aroclor 1248	U		51	89	µg/Kg-dry	1	10/28/13 14:26
Aroclor 1254	U		33	89	µg/Kg-dry	1	10/28/13 14:26
Aroclor 1260	U		33	89	µg/Kg-dry	1	10/28/13 14:26
Surr: Decachlorobiphenyl	51.1			40-140	%REC	1	10/28/13 14:26
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/25/13	Analyst: LR
<u>BatchID: 52652</u>							
Mercury	0.026	J	0.00068	0.034	mg/Kg-dry	1	10/25/13 19:47
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/26/13	Analyst: ML
<u>BatchID: 52701</u>							
Antimony	7.2		0.0088	2.2	mg/Kg-dry	5	10/31/13 00:25
Arsenic	3.9		0.30	2.2	mg/Kg-dry	5	10/31/13 00:25
Barium	160		0.061	2.2	mg/Kg-dry	5	10/31/13 00:25
Beryllium	0.17	J	0.018	0.88	mg/Kg-dry	5	10/31/13 00:25
Cadmium	2.2		0.0088	0.88	mg/Kg-dry	5	10/31/13 00:25
Chromium	63		0.36	2.2	mg/Kg-dry	5	10/31/13 00:25
Cobalt	10		0.0088	2.2	mg/Kg-dry	5	10/31/13 00:25
Copper	200		0.43	2.2	mg/Kg-dry	5	10/31/13 00:25
Iron	19,000		7.3	35	mg/Kg-dry	5	10/31/13 00:25
Lead	300		0.0088	2.2	mg/Kg-dry	5	10/31/13 00:25
Manganese	310		0.19	2.2	mg/Kg-dry	5	10/31/13 00:25
Molybdenum	13		0.096	2.2	mg/Kg-dry	5	10/31/13 00:25
Nickel	46		0.22	2.2	mg/Kg-dry	5	10/31/13 00:25
Selenium	0.44	J	0.28	2.2	mg/Kg-dry	5	10/31/13 00:25
Silver	0.66	J	0.0088	2.2	mg/Kg-dry	5	10/31/13 00:25
Thallium	U		0.053	2.2	mg/Kg-dry	5	10/31/13 00:25
Vanadium	11		0.13	2.2	mg/Kg-dry	5	10/31/13 00:25
Zinc	190		0.18	4.4	mg/Kg-dry	5	10/31/13 00:25
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	130		3.1	7.4	µg/Kg-dry	1	10/26/13 19:50
Acenaphthene	29		1.1	7.4	µg/Kg-dry	1	10/26/13 19:50
Acenaphthylene	170		1.3	7.4	µg/Kg-dry	1	10/26/13 19:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-018
Collection Date: 10/21/13 03:15 PM

Work Order: 13101246
Lab ID: 13101246-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	230		1.5	7.4	µg/Kg-dry	1	10/26/13 19:50
Benzo(a)anthracene	590		1.5	7.4	µg/Kg-dry	1	10/26/13 19:50
Benzo(a)pyrene	920		2.4	7.4	µg/Kg-dry	1	10/26/13 19:50
Benzo(b)fluoranthene	1,100		2.2	7.4	µg/Kg-dry	1	10/26/13 19:50
Benzo(g,h,i)perylene	1,400		2.9	7.4	µg/Kg-dry	1	10/26/13 19:50
Benzo(k)fluoranthene	700		1.6	7.4	µg/Kg-dry	1	10/26/13 19:50
Chrysene	870		1.8	7.4	µg/Kg-dry	1	10/26/13 19:50
Dibenzo(a,h)anthracene	280		2.7	7.4	µg/Kg-dry	1	10/26/13 19:50
Fluoranthene	1,100		2.6	7.4	µg/Kg-dry	1	10/26/13 19:50
Fluorene	33		2.5	7.4	µg/Kg-dry	1	10/26/13 19:50
Indeno(1,2,3-cd)pyrene	810		2.4	7.4	µg/Kg-dry	1	10/26/13 19:50
Naphthalene	120		2.7	7.4	µg/Kg-dry	1	10/26/13 19:50
Phenanthrene	540		1.5	7.4	µg/Kg-dry	1	10/26/13 19:50
Pyrene	1,000		2.5	7.4	µg/Kg-dry	1	10/26/13 19:50
Surr: 2-Fluorobiphenyl	81.2			12-100	%REC	1	10/26/13 19:50
Surr: 4-Terphenyl-d14	107			25-137	%REC	1	10/26/13 19:50
Surr: Nitrobenzene-d5	69.0			37-107	%REC	1	10/26/13 19:50

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U	14	38	µg/Kg-dry	1	11/05/13 22:23
1,1,2,2-Tetrachloroethane	U	17	38	µg/Kg-dry	1	11/05/13 22:23
1,1,2-Trichloroethane	U	13	38	µg/Kg-dry	1	11/05/13 22:23
1,1,2-Trichlorotrifluoroethane	U	14	38	µg/Kg-dry	1	11/05/13 22:23
1,1-Dichloroethane	U	14	38	µg/Kg-dry	1	11/05/13 22:23
1,1-Dichloroethene	U	16	38	µg/Kg-dry	1	11/05/13 22:23
1,2,4-Trichlorobenzene	U	20	38	µg/Kg-dry	1	11/05/13 22:23
1,2-Dibromo-3-chloropropane	U	18	38	µg/Kg-dry	1	11/05/13 22:23
1,2-Dibromoethane	U	15	38	µg/Kg-dry	1	11/05/13 22:23
1,2-Dichlorobenzene	U	15	38	µg/Kg-dry	1	11/05/13 22:23
1,2-Dichloroethane	U	18	38	µg/Kg-dry	1	11/05/13 22:23
1,2-Dichloropropane	U	13	38	µg/Kg-dry	1	11/05/13 22:23
1,3-Dichlorobenzene	U	15	38	µg/Kg-dry	1	11/05/13 22:23
1,4-Dichlorobenzene	U	14	38	µg/Kg-dry	1	11/05/13 22:23
2-Butanone	U	94	250	µg/Kg-dry	1	11/05/13 22:23
2-Hexanone	U	9.3	38	µg/Kg-dry	1	11/05/13 22:23
4-Methyl-2-pentanone	U	13	38	µg/Kg-dry	1	11/05/13 22:23
Acetone	U	80	130	µg/Kg-dry	1	11/05/13 22:23
Benzene	U	15	38	µg/Kg-dry	1	11/05/13 22:23
Bromodichloromethane	U	8.5	38	µg/Kg-dry	1	11/05/13 22:23

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-018
Collection Date: 10/21/13 03:15 PM

Work Order: 13101246
Lab ID: 13101246-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		7.5	38	µg/Kg-dry	1	11/05/13 22:23
Bromomethane	U		15	95	µg/Kg-dry	1	11/05/13 22:23
Carbon disulfide	U		19	38	µg/Kg-dry	1	11/05/13 22:23
Carbon tetrachloride	U		11	38	µg/Kg-dry	1	11/05/13 22:23
Chlorobenzene	U		15	38	µg/Kg-dry	1	11/05/13 22:23
Chloroethane	U		80	130	µg/Kg-dry	1	11/05/13 22:23
Chloroform	U		16	38	µg/Kg-dry	1	11/05/13 22:23
Chloromethane	U		21	130	µg/Kg-dry	1	11/05/13 22:23
cis-1,2-Dichloroethene	U		15	38	µg/Kg-dry	1	11/05/13 22:23
cis-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	11/05/13 22:23
Cyclohexane	U		17	38	µg/Kg-dry	1	11/05/13 22:23
Dibromochloromethane	U		7.0	38	µg/Kg-dry	1	11/05/13 22:23
Dichlorodifluoromethane	U		17	38	µg/Kg-dry	1	11/05/13 22:23
Ethylbenzene	U		14	38	µg/Kg-dry	1	11/05/13 22:23
Isopropylbenzene	U		16	38	µg/Kg-dry	1	11/05/13 22:23
Methyl acetate	110	J	51	250	µg/Kg-dry	1	11/05/13 22:23
Methyl tert-butyl ether	U		16	38	µg/Kg-dry	1	11/05/13 22:23
Methylcyclohexane	250		18	38	µg/Kg-dry	1	11/05/13 22:23
Methylene chloride	U		15	38	µg/Kg-dry	1	11/05/13 22:23
Styrene	U		14	38	µg/Kg-dry	1	11/05/13 22:23
Tetrachloroethene	U		17	38	µg/Kg-dry	1	11/05/13 22:23
Toluene	100		14	38	µg/Kg-dry	1	11/05/13 22:23
trans-1,2-Dichloroethene	U		12	38	µg/Kg-dry	1	11/05/13 22:23
trans-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	11/05/13 22:23
Trichloroethene	800		18	38	µg/Kg-dry	1	11/05/13 22:23
Trichlorofluoromethane	U		10	38	µg/Kg-dry	1	11/05/13 22:23
Vinyl chloride	U		17	38	µg/Kg-dry	1	11/05/13 22:23
Xylenes, Total	160		45	110	µg/Kg-dry	1	11/05/13 22:23
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	11/05/13 22:23
Surr: 4-Bromofluorobenzene	96.5			70-130	%REC	1	11/05/13 22:23
Surr: Dibromofluoromethane	100			70-130	%REC	1	11/05/13 22:23
Surr: Toluene-d8	98.8			70-130	%REC	1	11/05/13 22:23
MOISTURE			A2540 G				Analyst: MEB
BatchID: R129317							
Moisture	9.7		0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-019
Collection Date: 10/21/13 03:20 PM

Work Order: 13101246
Lab ID: 13101246-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 10/25/13		Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		48	84	µg/Kg-dry	1	10/28/13 14:42
Aroclor 1221	U		48	84	µg/Kg-dry	1	10/28/13 14:42
Aroclor 1232	U		48	84	µg/Kg-dry	1	10/28/13 14:42
Aroclor 1242	U		48	84	µg/Kg-dry	1	10/28/13 14:42
Aroclor 1248	U		48	84	µg/Kg-dry	1	10/28/13 14:42
Aroclor 1254	U		31	84	µg/Kg-dry	1	10/28/13 14:42
Aroclor 1260	U		31	84	µg/Kg-dry	1	10/28/13 14:42
Surr: Decachlorobiphenyl	76.1			40-140	%REC	1	10/28/13 14:42
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 10/25/13		Analyst: LR
<u>BatchID: 52652</u>							
Mercury	0.015	J	0.00064	0.032	mg/Kg-dry	1	10/25/13 19:49
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 10/26/13		Analyst: ML
<u>BatchID: 52701</u>							
Antimony	0.11	J	0.0016	0.39	mg/Kg-dry	1	11/01/13 18:20
Arsenic	1.1		0.053	0.39	mg/Kg-dry	1	11/01/13 18:20
Barium	13		0.011	0.39	mg/Kg-dry	1	11/01/13 18:20
Beryllium	0.089	J	0.0031	0.16	mg/Kg-dry	1	11/01/13 18:20
Cadmium	0.052	J	0.0016	0.16	mg/Kg-dry	1	11/01/13 18:20
Chromium	6.6		0.064	0.39	mg/Kg-dry	1	11/01/13 18:20
Cobalt	1.9		0.0016	0.39	mg/Kg-dry	1	11/01/13 18:20
Copper	7.7		0.076	0.39	mg/Kg-dry	1	11/01/13 18:20
Iron	5,000		1.3	6.2	mg/Kg-dry	1	11/01/13 18:20
Lead	6.7		0.0016	0.39	mg/Kg-dry	1	11/01/13 18:20
Manganese	35		0.034	0.39	mg/Kg-dry	1	11/01/13 18:20
Molybdenum	0.49		0.017	0.39	mg/Kg-dry	1	11/01/13 18:20
Nickel	4.2		0.039	0.39	mg/Kg-dry	1	11/01/13 18:20
Selenium	0.24	J	0.050	0.39	mg/Kg-dry	1	11/01/13 18:20
Silver	0.080	J	0.0016	0.39	mg/Kg-dry	1	11/01/13 18:20
Thallium	0.045	J	0.0093	0.39	mg/Kg-dry	1	11/01/13 18:20
Vanadium	10		0.023	0.39	mg/Kg-dry	1	11/01/13 18:20
Zinc	15		0.033	0.78	mg/Kg-dry	1	11/01/13 18:20
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		2.9	6.9	µg/Kg-dry	1	10/26/13 05:05
Acenaphthene	U		1.0	6.9	µg/Kg-dry	1	10/26/13 05:05
Acenaphthylene	U		1.3	6.9	µg/Kg-dry	1	10/26/13 05:05

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-019
Collection Date: 10/21/13 03:20 PM

Work Order: 13101246
Lab ID: 13101246-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene		U	1.4	6.9	µg/Kg-dry	1	10/26/13 05:05
Benzo(a)anthracene		U	1.4	6.9	µg/Kg-dry	1	10/26/13 05:05
Benzo(a)pyrene		U	2.2	6.9	µg/Kg-dry	1	10/26/13 05:05
Benzo(b)fluoranthene		U	2.0	6.9	µg/Kg-dry	1	10/26/13 05:05
Benzo(g,h,i)perylene		U	2.7	6.9	µg/Kg-dry	1	10/26/13 05:05
Benzo(k)fluoranthene		U	1.5	6.9	µg/Kg-dry	1	10/26/13 05:05
Chrysene		U	1.6	6.9	µg/Kg-dry	1	10/26/13 05:05
Dibenzo(a,h)anthracene		U	2.6	6.9	µg/Kg-dry	1	10/26/13 05:05
Fluoranthene		U	2.4	6.9	µg/Kg-dry	1	10/26/13 05:05
Fluorene		U	2.3	6.9	µg/Kg-dry	1	10/26/13 05:05
Indeno(1,2,3-cd)pyrene		U	2.3	6.9	µg/Kg-dry	1	10/26/13 05:05
Naphthalene		U	2.5	6.9	µg/Kg-dry	1	10/26/13 05:05
Phenanthrene		U	1.4	6.9	µg/Kg-dry	1	10/26/13 05:05
Pyrene		U	2.3	6.9	µg/Kg-dry	1	10/26/13 05:05
Surr: 2-Fluorobiphenyl	81.1			12-100	%REC	1	10/26/13 05:05
Surr: 4-Terphenyl-d14	115			25-137	%REC	1	10/26/13 05:05
Surr: Nitrobenzene-d5	80.3			37-107	%REC	1	10/26/13 05:05

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U	13	34	µg/Kg-dry	1	11/04/13 21:09
1,1,2,2-Tetrachloroethane	U	15	34	µg/Kg-dry	1	11/04/13 21:09
1,1,2-Trichloroethane	U	12	34	µg/Kg-dry	1	11/04/13 21:09
1,1,2-Trichlorotrifluoroethane	U	12	34	µg/Kg-dry	1	11/04/13 21:09
1,1-Dichloroethane	U	12	34	µg/Kg-dry	1	11/04/13 21:09
1,1-Dichloroethene	U	14	34	µg/Kg-dry	1	11/04/13 21:09
1,2,4-Trichlorobenzene	U	17	34	µg/Kg-dry	1	11/04/13 21:09
1,2-Dibromo-3-chloropropane	U	16	34	µg/Kg-dry	1	11/04/13 21:09
1,2-Dibromoethane	U	13	34	µg/Kg-dry	1	11/04/13 21:09
1,2-Dichlorobenzene	U	13	34	µg/Kg-dry	1	11/04/13 21:09
1,2-Dichloroethane	U	16	34	µg/Kg-dry	1	11/04/13 21:09
1,2-Dichloropropane	U	11	34	µg/Kg-dry	1	11/04/13 21:09
1,3-Dichlorobenzene	U	13	34	µg/Kg-dry	1	11/04/13 21:09
1,4-Dichlorobenzene	U	13	34	µg/Kg-dry	1	11/04/13 21:09
2-Butanone	U	83	220	µg/Kg-dry	1	11/04/13 21:09
2-Hexanone	U	8.2	34	µg/Kg-dry	1	11/04/13 21:09
4-Methyl-2-pentanone	U	11	34	µg/Kg-dry	1	11/04/13 21:09
Acetone	U	71	110	µg/Kg-dry	1	11/04/13 21:09
Benzene	U	13	34	µg/Kg-dry	1	11/04/13 21:09
Bromodichloromethane	U	7.5	34	µg/Kg-dry	1	11/04/13 21:09

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-019
Collection Date: 10/21/13 03:20 PM

Work Order: 13101246
Lab ID: 13101246-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		6.6	34	µg/Kg-dry	1	11/04/13 21:09
Bromomethane	U		13	84	µg/Kg-dry	1	11/04/13 21:09
Carbon disulfide	U		17	34	µg/Kg-dry	1	11/04/13 21:09
Carbon tetrachloride	U		9.5	34	µg/Kg-dry	1	11/04/13 21:09
Chlorobenzene	U		14	34	µg/Kg-dry	1	11/04/13 21:09
Chloroethane	U		71	110	µg/Kg-dry	1	11/04/13 21:09
Chloroform	U		14	34	µg/Kg-dry	1	11/04/13 21:09
Chloromethane	U		19	110	µg/Kg-dry	1	11/04/13 21:09
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	11/04/13 21:09
cis-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	11/04/13 21:09
Cyclohexane	U		15	34	µg/Kg-dry	1	11/04/13 21:09
Dibromochloromethane	U		6.2	34	µg/Kg-dry	1	11/04/13 21:09
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	11/04/13 21:09
Ethylbenzene	U		12	34	µg/Kg-dry	1	11/04/13 21:09
Isopropylbenzene	U		14	34	µg/Kg-dry	1	11/04/13 21:09
Methyl acetate	U		45	220	µg/Kg-dry	1	11/04/13 21:09
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	11/04/13 21:09
Methylcyclohexane	U		16	34	µg/Kg-dry	1	11/04/13 21:09
Methylene chloride	U		13	34	µg/Kg-dry	1	11/04/13 21:09
Styrene	U		12	34	µg/Kg-dry	1	11/04/13 21:09
Tetrachloroethene	U		15	34	µg/Kg-dry	1	11/04/13 21:09
Toluene	U		13	34	µg/Kg-dry	1	11/04/13 21:09
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	11/04/13 21:09
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	11/04/13 21:09
Trichloroethene	U		16	34	µg/Kg-dry	1	11/04/13 21:09
Trichlorofluoromethane	U		9.2	34	µg/Kg-dry	1	11/04/13 21:09
Vinyl chloride	U		15	34	µg/Kg-dry	1	11/04/13 21:09
Xylenes, Total	U		40	100	µg/Kg-dry	1	11/04/13 21:09
Surr: 1,2-Dichloroethane-d4	99.0			70-130	%REC	1	11/04/13 21:09
Surr: 4-Bromofluorobenzene	98.0			70-130	%REC	1	11/04/13 21:09
Surr: Dibromofluoromethane	98.6			70-130	%REC	1	11/04/13 21:09
Surr: Toluene-d8	99.0			70-130	%REC	1	11/04/13 21:09

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129317

Moisture	5.6	0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-020
Collection Date: 10/21/13 03:25 PM

Work Order: 13101246
Lab ID: 13101246-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 10/25/13		Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		47	83	µg/Kg-dry	1	10/28/13 14:59
Aroclor 1221	U		47	83	µg/Kg-dry	1	10/28/13 14:59
Aroclor 1232	U		47	83	µg/Kg-dry	1	10/28/13 14:59
Aroclor 1242	U		47	83	µg/Kg-dry	1	10/28/13 14:59
Aroclor 1248	U		47	83	µg/Kg-dry	1	10/28/13 14:59
Aroclor 1254	U		31	83	µg/Kg-dry	1	10/28/13 14:59
Aroclor 1260	U		31	83	µg/Kg-dry	1	10/28/13 14:59
Surr: Decachlorobiphenyl	92.1			40-140	%REC	1	10/28/13 14:59
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 10/25/13		Analyst: LR
<u>BatchID: 52652</u>							
Mercury	0.0092	J	0.00069	0.034	mg/Kg-dry	1	10/25/13 19:51
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 10/26/13		Analyst: ML
<u>BatchID: 52701</u>							
Antimony	0.024	J	0.0015	0.37	mg/Kg-dry	1	11/01/13 18:26
Arsenic	0.87		0.050	0.37	mg/Kg-dry	1	11/01/13 18:26
Barium	5.6		0.010	0.37	mg/Kg-dry	1	11/01/13 18:26
Beryllium	0.069	J	0.0030	0.15	mg/Kg-dry	1	11/01/13 18:26
Cadmium	0.020	J	0.0015	0.15	mg/Kg-dry	1	11/01/13 18:26
Chromium	5.5		0.061	0.37	mg/Kg-dry	1	11/01/13 18:26
Cobalt	1.5		0.0015	0.37	mg/Kg-dry	1	11/01/13 18:26
Copper	3.8		0.072	0.37	mg/Kg-dry	1	11/01/13 18:26
Iron	3,700		1.2	5.9	mg/Kg-dry	1	11/01/13 18:26
Lead	3.3		0.0015	0.37	mg/Kg-dry	1	11/01/13 18:26
Manganese	28		0.033	0.37	mg/Kg-dry	1	11/01/13 18:26
Molybdenum	0.042	J	0.016	0.37	mg/Kg-dry	1	11/01/13 18:26
Nickel	3.8		0.037	0.37	mg/Kg-dry	1	11/01/13 18:26
Selenium	0.19	J	0.047	0.37	mg/Kg-dry	1	11/01/13 18:26
Silver	0.052	J	0.0015	0.37	mg/Kg-dry	1	11/01/13 18:26
Thallium	0.019	J	0.0089	0.37	mg/Kg-dry	1	11/01/13 18:26
Vanadium	7.1		0.022	0.37	mg/Kg-dry	1	11/01/13 18:26
Zinc	6.5		0.031	0.74	mg/Kg-dry	1	11/01/13 18:26
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		2.8	6.8	µg/Kg-dry	1	10/26/13 05:27
Acenaphthene	U		1.0	6.8	µg/Kg-dry	1	10/26/13 05:27
Acenaphthylene	U		1.2	6.8	µg/Kg-dry	1	10/26/13 05:27

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-020
Collection Date: 10/21/13 03:25 PM

Work Order: 13101246
Lab ID: 13101246-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene		U	1.3	6.8	µg/Kg-dry	1	10/26/13 05:27
Benzo(a)anthracene		U	1.3	6.8	µg/Kg-dry	1	10/26/13 05:27
Benzo(a)pyrene		U	2.2	6.8	µg/Kg-dry	1	10/26/13 05:27
Benzo(b)fluoranthene		U	2.0	6.8	µg/Kg-dry	1	10/26/13 05:27
Benzo(g,h,i)perylene		U	2.7	6.8	µg/Kg-dry	1	10/26/13 05:27
Benzo(k)fluoranthene		U	1.4	6.8	µg/Kg-dry	1	10/26/13 05:27
Chrysene		U	1.6	6.8	µg/Kg-dry	1	10/26/13 05:27
Dibenzo(a,h)anthracene		U	2.5	6.8	µg/Kg-dry	1	10/26/13 05:27
Fluoranthene		U	2.4	6.8	µg/Kg-dry	1	10/26/13 05:27
Fluorene		U	2.3	6.8	µg/Kg-dry	1	10/26/13 05:27
Indeno(1,2,3-cd)pyrene		U	2.3	6.8	µg/Kg-dry	1	10/26/13 05:27
Naphthalene		U	2.5	6.8	µg/Kg-dry	1	10/26/13 05:27
Phenanthrene		U	1.4	6.8	µg/Kg-dry	1	10/26/13 05:27
Pyrene		U	2.3	6.8	µg/Kg-dry	1	10/26/13 05:27
Surr: 2-Fluorobiphenyl	80.4			12-100	%REC	1	10/26/13 05:27
Surr: 4-Terphenyl-d14	117			25-137	%REC	1	10/26/13 05:27
Surr: Nitrobenzene-d5	78.1			37-107	%REC	1	10/26/13 05:27

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U	14	37	µg/Kg-dry	1	11/04/13 17:55
1,1,2,2-Tetrachloroethane	U	16	37	µg/Kg-dry	1	11/04/13 17:55
1,1,2-Trichloroethane	U	13	37	µg/Kg-dry	1	11/04/13 17:55
1,1,2-Trichlorotrifluoroethane	U	14	37	µg/Kg-dry	1	11/04/13 17:55
1,1-Dichloroethane	U	14	37	µg/Kg-dry	1	11/04/13 17:55
1,1-Dichloroethene	U	16	37	µg/Kg-dry	1	11/04/13 17:55
1,2,4-Trichlorobenzene	U	19	37	µg/Kg-dry	1	11/04/13 17:55
1,2-Dibromo-3-chloropropane	U	18	37	µg/Kg-dry	1	11/04/13 17:55
1,2-Dibromoethane	U	15	37	µg/Kg-dry	1	11/04/13 17:55
1,2-Dichlorobenzene	U	15	37	µg/Kg-dry	1	11/04/13 17:55
1,2-Dichloroethane	U	18	37	µg/Kg-dry	1	11/04/13 17:55
1,2-Dichloropropane	U	12	37	µg/Kg-dry	1	11/04/13 17:55
1,3-Dichlorobenzene	U	15	37	µg/Kg-dry	1	11/04/13 17:55
1,4-Dichlorobenzene	U	14	37	µg/Kg-dry	1	11/04/13 17:55
2-Butanone	U	92	250	µg/Kg-dry	1	11/04/13 17:55
2-Hexanone	U	9.1	37	µg/Kg-dry	1	11/04/13 17:55
4-Methyl-2-pentanone	U	13	37	µg/Kg-dry	1	11/04/13 17:55
Acetone	U	79	120	µg/Kg-dry	1	11/04/13 17:55
Benzene	U	15	37	µg/Kg-dry	1	11/04/13 17:55
Bromodichloromethane	U	8.4	37	µg/Kg-dry	1	11/04/13 17:55

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-020
Collection Date: 10/21/13 03:25 PM

Work Order: 13101246
Lab ID: 13101246-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		7.3	37	µg/Kg-dry	1	11/04/13 17:55
Bromomethane	U		14	93	µg/Kg-dry	1	11/04/13 17:55
Carbon disulfide	U		18	37	µg/Kg-dry	1	11/04/13 17:55
Carbon tetrachloride	U		11	37	µg/Kg-dry	1	11/04/13 17:55
Chlorobenzene	U		15	37	µg/Kg-dry	1	11/04/13 17:55
Chloroethane	U		79	120	µg/Kg-dry	1	11/04/13 17:55
Chloroform	U		15	37	µg/Kg-dry	1	11/04/13 17:55
Chloromethane	U		21	120	µg/Kg-dry	1	11/04/13 17:55
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	11/04/13 17:55
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	11/04/13 17:55
Cyclohexane	U		17	37	µg/Kg-dry	1	11/04/13 17:55
Dibromochloromethane	U		6.9	37	µg/Kg-dry	1	11/04/13 17:55
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	11/04/13 17:55
Ethylbenzene	U		14	37	µg/Kg-dry	1	11/04/13 17:55
Isopropylbenzene	U		16	37	µg/Kg-dry	1	11/04/13 17:55
Methyl acetate	U		50	250	µg/Kg-dry	1	11/04/13 17:55
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	11/04/13 17:55
Methylcyclohexane	U		17	37	µg/Kg-dry	1	11/04/13 17:55
Methylene chloride	U		15	37	µg/Kg-dry	1	11/04/13 17:55
Styrene	U		14	37	µg/Kg-dry	1	11/04/13 17:55
Tetrachloroethene	U		17	37	µg/Kg-dry	1	11/04/13 17:55
Toluene	U		14	37	µg/Kg-dry	1	11/04/13 17:55
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	11/04/13 17:55
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	11/04/13 17:55
Trichloroethene	U		17	37	µg/Kg-dry	1	11/04/13 17:55
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	11/04/13 17:55
Vinyl chloride	U		17	37	µg/Kg-dry	1	11/04/13 17:55
Xylenes, Total	U		44	110	µg/Kg-dry	1	11/04/13 17:55
Surr: 1,2-Dichloroethane-d4	99.6			70-130	%REC	1	11/04/13 17:55
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	11/04/13 17:55
Surr: Dibromofluoromethane	99.7			70-130	%REC	1	11/04/13 17:55
Surr: Toluene-d8	98.4			70-130	%REC	1	11/04/13 17:55

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129317

Moisture	3.6	0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-021
Collection Date: 10/21/13 03:30 PM

Work Order: 13101246
Lab ID: 13101246-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/25/13	Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		48	85	µg/Kg-dry	1	10/28/13 15:15
Aroclor 1221	U		48	85	µg/Kg-dry	1	10/28/13 15:15
Aroclor 1232	U		48	85	µg/Kg-dry	1	10/28/13 15:15
Aroclor 1242	U		48	85	µg/Kg-dry	1	10/28/13 15:15
Aroclor 1248	U		48	85	µg/Kg-dry	1	10/28/13 15:15
Aroclor 1254	U		31	85	µg/Kg-dry	1	10/28/13 15:15
Aroclor 1260	U		31	85	µg/Kg-dry	1	10/28/13 15:15
Surr: Decachlorobiphenyl	68.1			40-140	%REC	1	10/28/13 15:15
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.016	J	0.00081	0.040	mg/Kg-dry	1	10/30/13 14:42
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/26/13	Analyst: ML
<u>BatchID: 52701</u>							
Antimony	0.061	J	0.0073	1.8	mg/Kg-dry	5	10/31/13 02:24
Arsenic	0.55	J	0.25	1.8	mg/Kg-dry	5	10/31/13 02:24
Barium	5.5		0.051	1.8	mg/Kg-dry	5	10/31/13 02:24
Beryllium	0.13	J	0.015	0.73	mg/Kg-dry	5	10/31/13 02:24
Cadmium	0.042	J	0.0073	0.73	mg/Kg-dry	5	10/31/13 02:24
Chromium	7.6		0.30	1.8	mg/Kg-dry	5	10/31/13 02:24
Cobalt	2.2		0.0073	1.8	mg/Kg-dry	5	10/31/13 02:24
Copper	7.6		0.36	1.8	mg/Kg-dry	5	10/31/13 02:24
Iron	4,500		6.1	29	mg/Kg-dry	5	10/31/13 02:24
Lead	2.0		0.0073	1.8	mg/Kg-dry	5	10/31/13 02:24
Manganese	55		0.16	1.8	mg/Kg-dry	5	10/31/13 02:24
Molybdenum	0.15	J	0.080	1.8	mg/Kg-dry	5	10/31/13 02:24
Nickel	7.4		0.18	1.8	mg/Kg-dry	5	10/31/13 02:24
Selenium	0.34	J	0.23	1.8	mg/Kg-dry	5	10/31/13 02:24
Silver	0.017	J	0.0073	1.8	mg/Kg-dry	5	10/31/13 02:24
Thallium	0.058	J	0.044	1.8	mg/Kg-dry	5	10/31/13 02:24
Vanadium	8.6		0.11	1.8	mg/Kg-dry	5	10/31/13 02:24
Zinc	11		0.15	3.7	mg/Kg-dry	5	10/31/13 02:24
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		2.9	7.1	µg/Kg-dry	1	10/26/13 05:50
Acenaphthene	U		1.1	7.1	µg/Kg-dry	1	10/26/13 05:50
Acenaphthylene	U		1.3	7.1	µg/Kg-dry	1	10/26/13 05:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-021
Collection Date: 10/21/13 03:30 PM

Work Order: 13101246
Lab ID: 13101246-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.4	7.1	µg/Kg-dry	1	10/26/13 05:50
Benzo(a)anthracene	U		1.4	7.1	µg/Kg-dry	1	10/26/13 05:50
Benzo(a)pyrene	U		2.3	7.1	µg/Kg-dry	1	10/26/13 05:50
Benzo(b)fluoranthene	U		2.1	7.1	µg/Kg-dry	1	10/26/13 05:50
Benzo(g,h,i)perylene	U		2.8	7.1	µg/Kg-dry	1	10/26/13 05:50
Benzo(k)fluoranthene	U		1.5	7.1	µg/Kg-dry	1	10/26/13 05:50
Chrysene	U		1.7	7.1	µg/Kg-dry	1	10/26/13 05:50
Dibenzo(a,h)anthracene	U		2.6	7.1	µg/Kg-dry	1	10/26/13 05:50
Fluoranthene	U		2.5	7.1	µg/Kg-dry	1	10/26/13 05:50
Fluorene	U		2.4	7.1	µg/Kg-dry	1	10/26/13 05:50
Indeno(1,2,3-cd)pyrene	U		2.4	7.1	µg/Kg-dry	1	10/26/13 05:50
Naphthalene	U		2.6	7.1	µg/Kg-dry	1	10/26/13 05:50
Phenanthrene	U		1.4	7.1	µg/Kg-dry	1	10/26/13 05:50
Pyrene	U		2.4	7.1	µg/Kg-dry	1	10/26/13 05:50
Surr: 2-Fluorobiphenyl	79.9			12-100	%REC	1	10/26/13 05:50
Surr: 4-Terphenyl-d14	126			25-137	%REC	1	10/26/13 05:50
Surr: Nitrobenzene-d5	75.6			37-107	%REC	1	10/26/13 05:50

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	11/04/13 18:19
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	11/04/13 18:19
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	11/04/13 18:19
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	11/04/13 18:19
1,1-Dichloroethane	U		14	37	µg/Kg-dry	1	11/04/13 18:19
1,1-Dichloroethene	U		16	37	µg/Kg-dry	1	11/04/13 18:19
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	11/04/13 18:19
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	11/04/13 18:19
1,2-Dibromoethane	U		15	37	µg/Kg-dry	1	11/04/13 18:19
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	11/04/13 18:19
1,2-Dichloroethane	U		18	37	µg/Kg-dry	1	11/04/13 18:19
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	11/04/13 18:19
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	11/04/13 18:19
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	11/04/13 18:19
2-Butanone	U		92	250	µg/Kg-dry	1	11/04/13 18:19
2-Hexanone	U		9.1	37	µg/Kg-dry	1	11/04/13 18:19
4-Methyl-2-pentanone	U		13	37	µg/Kg-dry	1	11/04/13 18:19
Acetone	U		79	120	µg/Kg-dry	1	11/04/13 18:19
Benzene	U		15	37	µg/Kg-dry	1	11/04/13 18:19
Bromodichloromethane	U		8.4	37	µg/Kg-dry	1	11/04/13 18:19

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-021
Collection Date: 10/21/13 03:30 PM

Work Order: 13101246
Lab ID: 13101246-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		7.3	37	µg/Kg-dry	1	11/04/13 18:19
Bromomethane	U		14	93	µg/Kg-dry	1	11/04/13 18:19
Carbon disulfide	U		18	37	µg/Kg-dry	1	11/04/13 18:19
Carbon tetrachloride	U		11	37	µg/Kg-dry	1	11/04/13 18:19
Chlorobenzene	U		15	37	µg/Kg-dry	1	11/04/13 18:19
Chloroethane	U		79	120	µg/Kg-dry	1	11/04/13 18:19
Chloroform	U		15	37	µg/Kg-dry	1	11/04/13 18:19
Chloromethane	U		21	120	µg/Kg-dry	1	11/04/13 18:19
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	11/04/13 18:19
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	11/04/13 18:19
Cyclohexane	U		17	37	µg/Kg-dry	1	11/04/13 18:19
Dibromochloromethane	U		6.9	37	µg/Kg-dry	1	11/04/13 18:19
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	11/04/13 18:19
Ethylbenzene	U		14	37	µg/Kg-dry	1	11/04/13 18:19
Isopropylbenzene	U		16	37	µg/Kg-dry	1	11/04/13 18:19
Methyl acetate	U		50	250	µg/Kg-dry	1	11/04/13 18:19
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	11/04/13 18:19
Methylcyclohexane	U		17	37	µg/Kg-dry	1	11/04/13 18:19
Methylene chloride	U		15	37	µg/Kg-dry	1	11/04/13 18:19
Styrene	U		14	37	µg/Kg-dry	1	11/04/13 18:19
Tetrachloroethene	U		17	37	µg/Kg-dry	1	11/04/13 18:19
Toluene	U		14	37	µg/Kg-dry	1	11/04/13 18:19
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	11/04/13 18:19
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	11/04/13 18:19
Trichloroethene	U		17	37	µg/Kg-dry	1	11/04/13 18:19
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	11/04/13 18:19
Vinyl chloride	U		17	37	µg/Kg-dry	1	11/04/13 18:19
Xylenes, Total	U		44	110	µg/Kg-dry	1	11/04/13 18:19
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	11/04/13 18:19
Surr: 4-Bromofluorobenzene	97.2			70-130	%REC	1	11/04/13 18:19
Surr: Dibromofluoromethane	99.7			70-130	%REC	1	11/04/13 18:19
Surr: Toluene-d8	98.8			70-130	%REC	1	11/04/13 18:19

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129317

Moisture	6.1	0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-023
Collection Date: 10/21/13 04:05 PM

Work Order: 13101246
Lab ID: 13101246-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 10/25/13		Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		50	88	µg/Kg-dry	1	10/28/13 15:31
Aroclor 1221	U		50	88	µg/Kg-dry	1	10/28/13 15:31
Aroclor 1232	U		50	88	µg/Kg-dry	1	10/28/13 15:31
Aroclor 1242	U		50	88	µg/Kg-dry	1	10/28/13 15:31
Aroclor 1248	U		50	88	µg/Kg-dry	1	10/28/13 15:31
Aroclor 1254	U		32	88	µg/Kg-dry	1	10/28/13 15:31
Aroclor 1260	U		32	88	µg/Kg-dry	1	10/28/13 15:31
Surr: Decachlorobiphenyl	60.1			40-140	%REC	1	10/28/13 15:31
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 10/28/13		Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.022	J	0.00080	0.040	mg/Kg-dry	1	10/30/13 14:44
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 10/26/13		Analyst: ML
<u>BatchID: 52701</u>							
Antimony	4.4		0.0074	1.8	mg/Kg-dry	5	10/31/13 02:30
Arsenic	12		0.25	1.8	mg/Kg-dry	5	10/31/13 02:30
Barium	31		0.051	1.8	mg/Kg-dry	5	10/31/13 02:30
Beryllium	0.13	J	0.015	0.74	mg/Kg-dry	5	10/31/13 02:30
Cadmium	0.56	J	0.0074	0.74	mg/Kg-dry	5	10/31/13 02:30
Chromium	490		0.30	1.8	mg/Kg-dry	5	10/31/13 02:30
Cobalt	19		0.0074	1.8	mg/Kg-dry	5	10/31/13 02:30
Copper	80		0.36	1.8	mg/Kg-dry	5	10/31/13 02:30
Lead	50		0.0074	1.8	mg/Kg-dry	5	10/31/13 02:30
Manganese	620		0.16	1.8	mg/Kg-dry	5	10/31/13 02:30
Molybdenum	150		0.081	1.8	mg/Kg-dry	5	10/31/13 02:30
Selenium	0.28	J	0.24	1.8	mg/Kg-dry	5	10/31/13 02:30
Silver	0.32	J	0.0074	1.8	mg/Kg-dry	5	10/31/13 02:30
Thallium	U		0.044	1.8	mg/Kg-dry	5	10/31/13 02:30
Vanadium	U		0.11	1.8	mg/Kg-dry	5	10/31/13 02:30
Zinc	41		0.15	3.7	mg/Kg-dry	5	10/31/13 02:30
<u>BatchID: 52701</u>							
Iron	82,000		24	120	mg/Kg-dry	20	11/04/13 21:55
Nickel	1,400		0.74	7.4	mg/Kg-dry	20	11/04/13 21:55
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	33		2.9	7.0	µg/Kg-dry	1	10/26/13 16:04
Acenaphthene	U		1.1	7.0	µg/Kg-dry	1	10/26/13 16:04

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-023
Collection Date: 10/21/13 04:05 PM

Work Order: 13101246
Lab ID: 13101246-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		1.3	7.0	µg/Kg-dry	1	10/26/13 16:04
Anthracene	U		1.4	7.0	µg/Kg-dry	1	10/26/13 16:04
Benzo(a)anthracene	63		1.4	7.0	µg/Kg-dry	1	10/26/13 16:04
Benzo(a)pyrene	46		2.3	7.0	µg/Kg-dry	1	10/26/13 16:04
Benzo(b)fluoranthene	66		2.1	7.0	µg/Kg-dry	1	10/26/13 16:04
Benzo(g,h,i)perylene	66		2.8	7.0	µg/Kg-dry	1	10/26/13 16:04
Benzo(k)fluoranthene	42		1.5	7.0	µg/Kg-dry	1	10/26/13 16:04
Chrysene	82		1.7	7.0	µg/Kg-dry	1	10/26/13 16:04
Dibenzo(a,h)anthracene	U		2.6	7.0	µg/Kg-dry	1	10/26/13 16:04
Fluoranthene	68		2.5	7.0	µg/Kg-dry	1	10/26/13 16:04
Fluorene	U		2.4	7.0	µg/Kg-dry	1	10/26/13 16:04
Indeno(1,2,3-cd)pyrene	36		2.3	7.0	µg/Kg-dry	1	10/26/13 16:04
Naphthalene	22		2.6	7.0	µg/Kg-dry	1	10/26/13 16:04
Phenanthrene	73		1.4	7.0	µg/Kg-dry	1	10/26/13 16:04
Pyrene	70		2.4	7.0	µg/Kg-dry	1	10/26/13 16:04
Surr: 2-Fluorobiphenyl	85.4			12-100	%REC	1	10/26/13 16:04
Surr: 4-Terphenyl-d14	118			25-137	%REC	1	10/26/13 16:04
Surr: Nitrobenzene-d5	75.9			37-107	%REC	1	10/26/13 16:04

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U		16	41	µg/Kg-dry	1	11/04/13 18:43
1,1,2,2-Tetrachloroethane	U		18	41	µg/Kg-dry	1	11/04/13 18:43
1,1,2-Trichloroethane	U		15	41	µg/Kg-dry	1	11/04/13 18:43
1,1,2-Trichlorotrifluoroethane	U		15	41	µg/Kg-dry	1	11/04/13 18:43
1,1-Dichloroethane	U		15	41	µg/Kg-dry	1	11/04/13 18:43
1,1-Dichloroethene	U		17	41	µg/Kg-dry	1	11/04/13 18:43
1,2,4-Trichlorobenzene	U		21	41	µg/Kg-dry	1	11/04/13 18:43
1,2-Dibromo-3-chloropropane	U		20	41	µg/Kg-dry	1	11/04/13 18:43
1,2-Dibromoethane	U		16	41	µg/Kg-dry	1	11/04/13 18:43
1,2-Dichlorobenzene	U		16	41	µg/Kg-dry	1	11/04/13 18:43
1,2-Dichloroethane	U		20	41	µg/Kg-dry	1	11/04/13 18:43
1,2-Dichloropropane	U		14	41	µg/Kg-dry	1	11/04/13 18:43
1,3-Dichlorobenzene	U		17	41	µg/Kg-dry	1	11/04/13 18:43
1,4-Dichlorobenzene	U		16	41	µg/Kg-dry	1	11/04/13 18:43
2-Butanone	U		100	270	µg/Kg-dry	1	11/04/13 18:43
2-Hexanone	U		10	41	µg/Kg-dry	1	11/04/13 18:43
4-Methyl-2-pentanone	U		14	41	µg/Kg-dry	1	11/04/13 18:43
Acetone	U		87	140	µg/Kg-dry	1	11/04/13 18:43
Benzene	U		17	41	µg/Kg-dry	1	11/04/13 18:43

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-023
Collection Date: 10/21/13 04:05 PM

Work Order: 13101246
Lab ID: 13101246-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	U		9.2	41	µg/Kg-dry	1	11/04/13 18:43
Bromoform	U		8.1	41	µg/Kg-dry	1	11/04/13 18:43
Bromomethane	U		16	100	µg/Kg-dry	1	11/04/13 18:43
Carbon disulfide	U		20	41	µg/Kg-dry	1	11/04/13 18:43
Carbon tetrachloride	U		12	41	µg/Kg-dry	1	11/04/13 18:43
Chlorobenzene	U		17	41	µg/Kg-dry	1	11/04/13 18:43
Chloroethane	U		88	140	µg/Kg-dry	1	11/04/13 18:43
Chloroform	U		17	41	µg/Kg-dry	1	11/04/13 18:43
Chloromethane	U		23	140	µg/Kg-dry	1	11/04/13 18:43
cis-1,2-Dichloroethene	U		17	41	µg/Kg-dry	1	11/04/13 18:43
cis-1,3-Dichloropropene	U		14	41	µg/Kg-dry	1	11/04/13 18:43
Cyclohexane	U		19	41	µg/Kg-dry	1	11/04/13 18:43
Dibromochloromethane	U		7.6	41	µg/Kg-dry	1	11/04/13 18:43
Dichlorodifluoromethane	U		19	41	µg/Kg-dry	1	11/04/13 18:43
Ethylbenzene	U		15	41	µg/Kg-dry	1	11/04/13 18:43
Isopropylbenzene	U		18	41	µg/Kg-dry	1	11/04/13 18:43
Methyl acetate	130	J	55	270	µg/Kg-dry	1	11/04/13 18:43
Methyl tert-butyl ether	U		17	41	µg/Kg-dry	1	11/04/13 18:43
Methylcyclohexane	U		19	41	µg/Kg-dry	1	11/04/13 18:43
Methylene chloride	U		16	41	µg/Kg-dry	1	11/04/13 18:43
Styrene	U		15	41	µg/Kg-dry	1	11/04/13 18:43
Tetrachloroethene	U		18	41	µg/Kg-dry	1	11/04/13 18:43
Toluene	U		15	41	µg/Kg-dry	1	11/04/13 18:43
trans-1,2-Dichloroethene	U		13	41	µg/Kg-dry	1	11/04/13 18:43
trans-1,3-Dichloropropene	U		14	41	µg/Kg-dry	1	11/04/13 18:43
Trichloroethene	550		19	41	µg/Kg-dry	1	11/04/13 18:43
Trichlorofluoromethane	U		11	41	µg/Kg-dry	1	11/04/13 18:43
Vinyl chloride	U		19	41	µg/Kg-dry	1	11/04/13 18:43
Xylenes, Total	U		49	120	µg/Kg-dry	1	11/04/13 18:43
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	11/04/13 18:43
Surr: 4-Bromofluorobenzene	99.7			70-130	%REC	1	11/04/13 18:43
Surr: Dibromofluoromethane	98.9			70-130	%REC	1	11/04/13 18:43
Surr: Toluene-d8	99.0			70-130	%REC	1	11/04/13 18:43

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129317

Moisture	6.4	0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-024
Collection Date: 10/21/13 04:10 PM

Work Order: 13101246
Lab ID: 13101246-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/25/13	Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		48	85	µg/Kg-dry	1	10/28/13 15:47
Aroclor 1221	U		48	85	µg/Kg-dry	1	10/28/13 15:47
Aroclor 1232	U		48	85	µg/Kg-dry	1	10/28/13 15:47
Aroclor 1242	U		48	85	µg/Kg-dry	1	10/28/13 15:47
Aroclor 1248	U		48	85	µg/Kg-dry	1	10/28/13 15:47
Aroclor 1254	U		31	85	µg/Kg-dry	1	10/28/13 15:47
Aroclor 1260	U		31	85	µg/Kg-dry	1	10/28/13 15:47
Surr: Decachlorobiphenyl	57.1			40-140	%REC	1	10/28/13 15:47
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.011	J	0.00080	0.040	mg/Kg-dry	1	10/30/13 14:47
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/26/13	Analyst: ML
<u>BatchID: 52701</u>							
Antimony	0.12	J	0.0015	0.37	mg/Kg-dry	1	11/01/13 18:32
Arsenic	0.98		0.050	0.37	mg/Kg-dry	1	11/01/13 18:32
Barium	11		0.010	0.37	mg/Kg-dry	1	11/01/13 18:32
Beryllium	0.076	J	0.0030	0.15	mg/Kg-dry	1	11/01/13 18:32
Cadmium	0.053	J	0.0015	0.15	mg/Kg-dry	1	11/01/13 18:32
Chromium	6.6		0.061	0.37	mg/Kg-dry	1	11/01/13 18:32
Cobalt	1.5		0.0015	0.37	mg/Kg-dry	1	11/01/13 18:32
Copper	2.8		0.072	0.37	mg/Kg-dry	1	11/01/13 18:32
Iron	4,600		1.2	5.9	mg/Kg-dry	1	11/01/13 18:32
Lead	4.2		0.0015	0.37	mg/Kg-dry	1	11/01/13 18:32
Manganese	37		0.032	0.37	mg/Kg-dry	1	11/01/13 18:32
Molybdenum	0.85		0.016	0.37	mg/Kg-dry	1	11/01/13 18:32
Nickel	17		0.037	0.37	mg/Kg-dry	1	11/01/13 18:32
Selenium	0.17	J	0.047	0.37	mg/Kg-dry	1	11/01/13 18:32
Silver	0.022	J	0.0015	0.37	mg/Kg-dry	1	11/01/13 18:32
Thallium	0.031	J	0.0089	0.37	mg/Kg-dry	1	11/01/13 18:32
Vanadium	8.6		0.022	0.37	mg/Kg-dry	1	11/01/13 18:32
Zinc	10		0.031	0.74	mg/Kg-dry	1	11/01/13 18:32
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		2.9	7.0	µg/Kg-dry	1	10/26/13 06:13
Acenaphthene	U		1.0	7.0	µg/Kg-dry	1	10/26/13 06:13
Acenaphthylene	U		1.3	7.0	µg/Kg-dry	1	10/26/13 06:13

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-024
Collection Date: 10/21/13 04:10 PM

Work Order: 13101246
Lab ID: 13101246-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.4	7.0	µg/Kg-dry	1	10/26/13 06:13
Benzo(a)anthracene	U		1.4	7.0	µg/Kg-dry	1	10/26/13 06:13
Benzo(a)pyrene	U		2.3	7.0	µg/Kg-dry	1	10/26/13 06:13
Benzo(b)fluoranthene	U		2.0	7.0	µg/Kg-dry	1	10/26/13 06:13
Benzo(g,h,i)perylene	U		2.7	7.0	µg/Kg-dry	1	10/26/13 06:13
Benzo(k)fluoranthene	U		1.5	7.0	µg/Kg-dry	1	10/26/13 06:13
Chrysene	U		1.7	7.0	µg/Kg-dry	1	10/26/13 06:13
Dibenzo(a,h)anthracene	U		2.6	7.0	µg/Kg-dry	1	10/26/13 06:13
Fluoranthene	U		2.4	7.0	µg/Kg-dry	1	10/26/13 06:13
Fluorene	U		2.3	7.0	µg/Kg-dry	1	10/26/13 06:13
Indeno(1,2,3-cd)pyrene	U		2.3	7.0	µg/Kg-dry	1	10/26/13 06:13
Naphthalene	U		2.6	7.0	µg/Kg-dry	1	10/26/13 06:13
Phenanthrene	U		1.4	7.0	µg/Kg-dry	1	10/26/13 06:13
Pyrene	U		2.4	7.0	µg/Kg-dry	1	10/26/13 06:13
Surr: 2-Fluorobiphenyl	77.9			12-100	%REC	1	10/26/13 06:13
Surr: 4-Terphenyl-d14	121			25-137	%REC	1	10/26/13 06:13
Surr: Nitrobenzene-d5	71.7			37-107	%REC	1	10/26/13 06:13

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U		25	67	µg/Kg-dry	1	11/04/13 19:07
1,1,2,2-Tetrachloroethane	U		29	67	µg/Kg-dry	1	11/04/13 19:07
1,1,2-Trichloroethane	U		24	67	µg/Kg-dry	1	11/04/13 19:07
1,1,2-Trichlorotrifluoroethane	U		25	67	µg/Kg-dry	1	11/04/13 19:07
1,1-Dichloroethane	U		24	67	µg/Kg-dry	1	11/04/13 19:07
1,1-Dichloroethene	U		28	67	µg/Kg-dry	1	11/04/13 19:07
1,2,4-Trichlorobenzene	U		34	67	µg/Kg-dry	1	11/04/13 19:07
1,2-Dibromo-3-chloropropane	U		32	67	µg/Kg-dry	1	11/04/13 19:07
1,2-Dibromoethane	U		26	67	µg/Kg-dry	1	11/04/13 19:07
1,2-Dichlorobenzene	U		27	67	µg/Kg-dry	1	11/04/13 19:07
1,2-Dichloroethane	U		32	67	µg/Kg-dry	1	11/04/13 19:07
1,2-Dichloropropane	U		22	67	µg/Kg-dry	1	11/04/13 19:07
1,3-Dichlorobenzene	U		27	67	µg/Kg-dry	1	11/04/13 19:07
1,4-Dichlorobenzene	U		25	67	µg/Kg-dry	1	11/04/13 19:07
2-Butanone	U		160	440	µg/Kg-dry	1	11/04/13 19:07
2-Hexanone	U		16	67	µg/Kg-dry	1	11/04/13 19:07
4-Methyl-2-pentanone	U		22	67	µg/Kg-dry	1	11/04/13 19:07
Acetone	U		140	220	µg/Kg-dry	1	11/04/13 19:07
Benzene	U		27	67	µg/Kg-dry	1	11/04/13 19:07
Bromodichloromethane	U		15	67	µg/Kg-dry	1	11/04/13 19:07

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-024
Collection Date: 10/21/13 04:10 PM

Work Order: 13101246
Lab ID: 13101246-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		13	67	µg/Kg-dry	1	11/04/13 19:07
Bromomethane	U		25	170	µg/Kg-dry	1	11/04/13 19:07
Carbon disulfide	U		33	67	µg/Kg-dry	1	11/04/13 19:07
Carbon tetrachloride	U		19	67	µg/Kg-dry	1	11/04/13 19:07
Chlorobenzene	U		27	67	µg/Kg-dry	1	11/04/13 19:07
Chloroethane	U		140	220	µg/Kg-dry	1	11/04/13 19:07
Chloroform	U		27	67	µg/Kg-dry	1	11/04/13 19:07
Chloromethane	U		37	220	µg/Kg-dry	1	11/04/13 19:07
cis-1,2-Dichloroethene	U		27	67	µg/Kg-dry	1	11/04/13 19:07
cis-1,3-Dichloropropene	U		23	67	µg/Kg-dry	1	11/04/13 19:07
Cyclohexane	U		30	67	µg/Kg-dry	1	11/04/13 19:07
Dibromochloromethane	U		12	67	µg/Kg-dry	1	11/04/13 19:07
Dichlorodifluoromethane	U		30	67	µg/Kg-dry	1	11/04/13 19:07
Ethylbenzene	U		25	67	µg/Kg-dry	1	11/04/13 19:07
Isopropylbenzene	U		29	67	µg/Kg-dry	1	11/04/13 19:07
Methyl acetate	U		89	440	µg/Kg-dry	1	11/04/13 19:07
Methyl tert-butyl ether	U		28	67	µg/Kg-dry	1	11/04/13 19:07
Methylcyclohexane	U		31	67	µg/Kg-dry	1	11/04/13 19:07
Methylene chloride	U		26	67	µg/Kg-dry	1	11/04/13 19:07
Styrene	U		25	67	µg/Kg-dry	1	11/04/13 19:07
Tetrachloroethene	U		30	67	µg/Kg-dry	1	11/04/13 19:07
Toluene	U		25	67	µg/Kg-dry	1	11/04/13 19:07
trans-1,2-Dichloroethene	U		20	67	µg/Kg-dry	1	11/04/13 19:07
trans-1,3-Dichloropropene	U		22	67	µg/Kg-dry	1	11/04/13 19:07
Trichloroethene	U		31	67	µg/Kg-dry	1	11/04/13 19:07
Trichlorofluoromethane	U		18	67	µg/Kg-dry	1	11/04/13 19:07
Vinyl chloride	U		30	67	µg/Kg-dry	1	11/04/13 19:07
Xylenes, Total	U		79	200	µg/Kg-dry	1	11/04/13 19:07
Surr: 1,2-Dichloroethane-d4	98.6			70-130	%REC	1	11/04/13 19:07
Surr: 4-Bromofluorobenzene	95.9			70-130	%REC	1	11/04/13 19:07
Surr: Dibromofluoromethane	99.4			70-130	%REC	1	11/04/13 19:07
Surr: Toluene-d8	100			70-130	%REC	1	11/04/13 19:07

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129317

Moisture	4.5	0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-025
Collection Date: 10/21/13 04:20 PM

Work Order: 13101246
Lab ID: 13101246-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 10/25/13		Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		49	87	µg/Kg-dry	1	10/28/13 16:04
Aroclor 1221	U		49	87	µg/Kg-dry	1	10/28/13 16:04
Aroclor 1232	U		49	87	µg/Kg-dry	1	10/28/13 16:04
Aroclor 1242	U		49	87	µg/Kg-dry	1	10/28/13 16:04
Aroclor 1248	U		49	87	µg/Kg-dry	1	10/28/13 16:04
Aroclor 1254	U		32	87	µg/Kg-dry	1	10/28/13 16:04
Aroclor 1260	U		32	87	µg/Kg-dry	1	10/28/13 16:04
Surr: Decachlorobiphenyl	60.1			40-140	%REC	1	10/28/13 16:04
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 10/28/13		Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.011	J	0.00068	0.034	mg/Kg-dry	1	10/30/13 14:55
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 10/26/13		Analyst: ML
<u>BatchID: 52701</u>							
Antimony	0.031	J	0.0016	0.39	mg/Kg-dry	1	11/01/13 20:20
Arsenic	1.2		0.053	0.39	mg/Kg-dry	1	11/01/13 20:20
Barium	3.9		0.011	0.39	mg/Kg-dry	1	11/01/13 20:20
Beryllium	0.087	J	0.0031	0.16	mg/Kg-dry	1	11/01/13 20:20
Cadmium	0.027	J	0.0016	0.16	mg/Kg-dry	1	11/01/13 20:20
Chromium	5.2		0.064	0.39	mg/Kg-dry	1	11/01/13 20:20
Cobalt	1.6		0.0016	0.39	mg/Kg-dry	1	11/01/13 20:20
Copper	2.0		0.077	0.39	mg/Kg-dry	1	11/01/13 20:20
Iron	4,200		1.3	6.3	mg/Kg-dry	1	11/01/13 20:20
Lead	1.9		0.0016	0.39	mg/Kg-dry	1	11/01/13 20:20
Manganese	29		0.034	0.39	mg/Kg-dry	1	11/01/13 20:20
Molybdenum	0.15	J	0.017	0.39	mg/Kg-dry	1	11/01/13 20:20
Nickel	3.9		0.039	0.39	mg/Kg-dry	1	11/01/13 20:20
Selenium	0.17	J	0.050	0.39	mg/Kg-dry	1	11/01/13 20:20
Silver	0.0066	J	0.0016	0.39	mg/Kg-dry	1	11/01/13 20:20
Thallium	0.024	J	0.0094	0.39	mg/Kg-dry	1	11/01/13 20:20
Vanadium	8.8		0.023	0.39	mg/Kg-dry	1	11/01/13 20:20
Zinc	6.3		0.033	0.78	mg/Kg-dry	1	11/01/13 20:20
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		2.9	7.0	µg/Kg-dry	1	10/26/13 06:35
Acenaphthene	U		1.0	7.0	µg/Kg-dry	1	10/26/13 06:35
Acenaphthylene	U		1.3	7.0	µg/Kg-dry	1	10/26/13 06:35

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-025
Collection Date: 10/21/13 04:20 PM

Work Order: 13101246
Lab ID: 13101246-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.4	7.0	µg/Kg-dry	1	10/26/13 06:35
Benzo(a)anthracene	U		1.4	7.0	µg/Kg-dry	1	10/26/13 06:35
Benzo(a)pyrene	U		2.3	7.0	µg/Kg-dry	1	10/26/13 06:35
Benzo(b)fluoranthene	U		2.0	7.0	µg/Kg-dry	1	10/26/13 06:35
Benzo(g,h,i)perylene	U		2.7	7.0	µg/Kg-dry	1	10/26/13 06:35
Benzo(k)fluoranthene	U		1.5	7.0	µg/Kg-dry	1	10/26/13 06:35
Chrysene	U		1.7	7.0	µg/Kg-dry	1	10/26/13 06:35
Dibenzo(a,h)anthracene	U		2.6	7.0	µg/Kg-dry	1	10/26/13 06:35
Fluoranthene	U		2.4	7.0	µg/Kg-dry	1	10/26/13 06:35
Fluorene	U		2.3	7.0	µg/Kg-dry	1	10/26/13 06:35
Indeno(1,2,3-cd)pyrene	U		2.3	7.0	µg/Kg-dry	1	10/26/13 06:35
Naphthalene	U		2.6	7.0	µg/Kg-dry	1	10/26/13 06:35
Phenanthrene	U		1.4	7.0	µg/Kg-dry	1	10/26/13 06:35
Pyrene	U		2.3	7.0	µg/Kg-dry	1	10/26/13 06:35
Surr: 2-Fluorobiphenyl	80.1			12-100	%REC	1	10/26/13 06:35
Surr: 4-Terphenyl-d14	121			25-137	%REC	1	10/26/13 06:35
Surr: Nitrobenzene-d5	74.2			37-107	%REC	1	10/26/13 06:35

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U		17	45	µg/Kg-dry	1	11/04/13 19:32
1,1,2,2-Tetrachloroethane	U		20	45	µg/Kg-dry	1	11/04/13 19:32
1,1,2-Trichloroethane	U		16	45	µg/Kg-dry	1	11/04/13 19:32
1,1,2-Trichlorotrifluoroethane	U		17	45	µg/Kg-dry	1	11/04/13 19:32
1,1-Dichloroethane	U		17	45	µg/Kg-dry	1	11/04/13 19:32
1,1-Dichloroethene	U		19	45	µg/Kg-dry	1	11/04/13 19:32
1,2,4-Trichlorobenzene	U		24	45	µg/Kg-dry	1	11/04/13 19:32
1,2-Dibromo-3-chloropropane	U		22	45	µg/Kg-dry	1	11/04/13 19:32
1,2-Dibromoethane	U		18	45	µg/Kg-dry	1	11/04/13 19:32
1,2-Dichlorobenzene	U		18	45	µg/Kg-dry	1	11/04/13 19:32
1,2-Dichloroethane	U		22	45	µg/Kg-dry	1	11/04/13 19:32
1,2-Dichloropropane	U		15	45	µg/Kg-dry	1	11/04/13 19:32
1,3-Dichlorobenzene	U		18	45	µg/Kg-dry	1	11/04/13 19:32
1,4-Dichlorobenzene	U		17	45	µg/Kg-dry	1	11/04/13 19:32
2-Butanone	U		110	300	µg/Kg-dry	1	11/04/13 19:32
2-Hexanone	U		11	45	µg/Kg-dry	1	11/04/13 19:32
4-Methyl-2-pentanone	U		15	45	µg/Kg-dry	1	11/04/13 19:32
Acetone	U		96	150	µg/Kg-dry	1	11/04/13 19:32
Benzene	U		18	45	µg/Kg-dry	1	11/04/13 19:32
Bromodichloromethane	U		10	45	µg/Kg-dry	1	11/04/13 19:32

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-025
Collection Date: 10/21/13 04:20 PM

Work Order: 13101246
Lab ID: 13101246-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		9.0	45	µg/Kg-dry	1	11/04/13 19:32
Bromomethane	U		17	110	µg/Kg-dry	1	11/04/13 19:32
Carbon disulfide	U		23	45	µg/Kg-dry	1	11/04/13 19:32
Carbon tetrachloride	U		13	45	µg/Kg-dry	1	11/04/13 19:32
Chlorobenzene	U		19	45	µg/Kg-dry	1	11/04/13 19:32
Chloroethane	U		97	150	µg/Kg-dry	1	11/04/13 19:32
Chloroform	U		19	45	µg/Kg-dry	1	11/04/13 19:32
Chloromethane	U		25	150	µg/Kg-dry	1	11/04/13 19:32
cis-1,2-Dichloroethene	U		18	45	µg/Kg-dry	1	11/04/13 19:32
cis-1,3-Dichloropropene	U		16	45	µg/Kg-dry	1	11/04/13 19:32
Cyclohexane	U		20	45	µg/Kg-dry	1	11/04/13 19:32
Dibromochloromethane	U		8.4	45	µg/Kg-dry	1	11/04/13 19:32
Dichlorodifluoromethane	U		21	45	µg/Kg-dry	1	11/04/13 19:32
Ethylbenzene	U		17	45	µg/Kg-dry	1	11/04/13 19:32
Isopropylbenzene	U		20	45	µg/Kg-dry	1	11/04/13 19:32
Methyl acetate	U		61	300	µg/Kg-dry	1	11/04/13 19:32
Methyl tert-butyl ether	U		19	45	µg/Kg-dry	1	11/04/13 19:32
Methylcyclohexane	U		21	45	µg/Kg-dry	1	11/04/13 19:32
Methylene chloride	U		18	45	µg/Kg-dry	1	11/04/13 19:32
Styrene	U		17	45	µg/Kg-dry	1	11/04/13 19:32
Tetrachloroethene	U		20	45	µg/Kg-dry	1	11/04/13 19:32
Toluene	U		17	45	µg/Kg-dry	1	11/04/13 19:32
trans-1,2-Dichloroethene	U		14	45	µg/Kg-dry	1	11/04/13 19:32
trans-1,3-Dichloropropene	U		15	45	µg/Kg-dry	1	11/04/13 19:32
Trichloroethene	U		21	45	µg/Kg-dry	1	11/04/13 19:32
Trichlorofluoromethane	U		13	45	µg/Kg-dry	1	11/04/13 19:32
Vinyl chloride	U		21	45	µg/Kg-dry	1	11/04/13 19:32
Xylenes, Total	U		54	140	µg/Kg-dry	1	11/04/13 19:32
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	11/04/13 19:32
Surr: 4-Bromofluorobenzene	99.3			70-130	%REC	1	11/04/13 19:32
Surr: Dibromofluoromethane	101			70-130	%REC	1	11/04/13 19:32
Surr: Toluene-d8	99.8			70-130	%REC	1	11/04/13 19:32

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129317

Moisture	4.7	0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-026
Collection Date: 10/21/13 04:25 PM

Work Order: 13101246
Lab ID: 13101246-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/25/13	Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		49	87	µg/Kg-dry	1	10/28/13 16:20
Aroclor 1221	U		49	87	µg/Kg-dry	1	10/28/13 16:20
Aroclor 1232	U		49	87	µg/Kg-dry	1	10/28/13 16:20
Aroclor 1242	U		49	87	µg/Kg-dry	1	10/28/13 16:20
Aroclor 1248	U		49	87	µg/Kg-dry	1	10/28/13 16:20
Aroclor 1254	U		32	87	µg/Kg-dry	1	10/28/13 16:20
Aroclor 1260	U		32	87	µg/Kg-dry	1	10/28/13 16:20
Surr: Decachlorobiphenyl	83.1			40-140	%REC	1	10/28/13 16:20
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.015	J	0.00075	0.038	mg/Kg-dry	1	10/30/13 14:57
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/26/13	Analyst: ML
<u>BatchID: 52701</u>							
Antimony	0.033	J	0.0015	0.39	mg/Kg-dry	1	11/01/13 20:26
Arsenic	0.97		0.053	0.39	mg/Kg-dry	1	11/01/13 20:26
Barium	5.1		0.011	0.39	mg/Kg-dry	1	11/01/13 20:26
Beryllium	0.11	J	0.0031	0.15	mg/Kg-dry	1	11/01/13 20:26
Cadmium	0.036	J	0.0015	0.15	mg/Kg-dry	1	11/01/13 20:26
Chromium	10		0.063	0.39	mg/Kg-dry	1	11/01/13 20:26
Cobalt	2.8		0.0015	0.39	mg/Kg-dry	1	11/01/13 20:26
Copper	4.3		0.076	0.39	mg/Kg-dry	1	11/01/13 20:26
Iron	5,500		1.3	6.2	mg/Kg-dry	1	11/01/13 20:26
Lead	2.2		0.0015	0.39	mg/Kg-dry	1	11/01/13 20:26
Manganese	74		0.034	0.39	mg/Kg-dry	1	11/01/13 20:26
Molybdenum	0.13	J	0.017	0.39	mg/Kg-dry	1	11/01/13 20:26
Nickel	6.6		0.039	0.39	mg/Kg-dry	1	11/01/13 20:26
Selenium	0.47		0.049	0.39	mg/Kg-dry	1	11/01/13 20:26
Silver	0.0071	J	0.0015	0.39	mg/Kg-dry	1	11/01/13 20:26
Thallium	0.034	J	0.0093	0.39	mg/Kg-dry	1	11/01/13 20:26
Vanadium	11		0.023	0.39	mg/Kg-dry	1	11/01/13 20:26
Zinc	9.8		0.032	0.77	mg/Kg-dry	1	11/01/13 20:26
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		2.9	7.0	µg/Kg-dry	1	10/26/13 06:58
Acenaphthene	U		1.0	7.0	µg/Kg-dry	1	10/26/13 06:58
Acenaphthylene	U		1.3	7.0	µg/Kg-dry	1	10/26/13 06:58

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-026
Collection Date: 10/21/13 04:25 PM

Work Order: 13101246
Lab ID: 13101246-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene		U	1.4	7.0	µg/Kg-dry	1	10/26/13 06:58
Benzo(a)anthracene		U	1.4	7.0	µg/Kg-dry	1	10/26/13 06:58
Benzo(a)pyrene		U	2.3	7.0	µg/Kg-dry	1	10/26/13 06:58
Benzo(b)fluoranthene		U	2.1	7.0	µg/Kg-dry	1	10/26/13 06:58
Benzo(g,h,i)perylene		U	2.7	7.0	µg/Kg-dry	1	10/26/13 06:58
Benzo(k)fluoranthene		U	1.5	7.0	µg/Kg-dry	1	10/26/13 06:58
Chrysene		U	1.7	7.0	µg/Kg-dry	1	10/26/13 06:58
Dibenzo(a,h)anthracene		U	2.6	7.0	µg/Kg-dry	1	10/26/13 06:58
Fluoranthene		U	2.4	7.0	µg/Kg-dry	1	10/26/13 06:58
Fluorene		U	2.4	7.0	µg/Kg-dry	1	10/26/13 06:58
Indeno(1,2,3-cd)pyrene		U	2.3	7.0	µg/Kg-dry	1	10/26/13 06:58
Naphthalene		U	2.6	7.0	µg/Kg-dry	1	10/26/13 06:58
Phenanthrene		U	1.4	7.0	µg/Kg-dry	1	10/26/13 06:58
Pyrene		U	2.4	7.0	µg/Kg-dry	1	10/26/13 06:58
Surr: 2-Fluorobiphenyl	82.4			12-100	%REC	1	10/26/13 06:58
Surr: 4-Terphenyl-d14	118			25-137	%REC	1	10/26/13 06:58
Surr: Nitrobenzene-d5	79.5			37-107	%REC	1	10/26/13 06:58

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U	14	37	µg/Kg-dry	1	11/04/13 19:56
1,1,2,2-Tetrachloroethane	U	16	37	µg/Kg-dry	1	11/04/13 19:56
1,1,2-Trichloroethane	U	13	37	µg/Kg-dry	1	11/04/13 19:56
1,1,2-Trichlorotrifluoroethane	U	14	37	µg/Kg-dry	1	11/04/13 19:56
1,1-Dichloroethane	U	14	37	µg/Kg-dry	1	11/04/13 19:56
1,1-Dichloroethene	U	16	37	µg/Kg-dry	1	11/04/13 19:56
1,2,4-Trichlorobenzene	U	19	37	µg/Kg-dry	1	11/04/13 19:56
1,2-Dibromo-3-chloropropane	U	18	37	µg/Kg-dry	1	11/04/13 19:56
1,2-Dibromoethane	U	15	37	µg/Kg-dry	1	11/04/13 19:56
1,2-Dichlorobenzene	U	15	37	µg/Kg-dry	1	11/04/13 19:56
1,2-Dichloroethane	U	18	37	µg/Kg-dry	1	11/04/13 19:56
1,2-Dichloropropane	U	12	37	µg/Kg-dry	1	11/04/13 19:56
1,3-Dichlorobenzene	U	15	37	µg/Kg-dry	1	11/04/13 19:56
1,4-Dichlorobenzene	U	14	37	µg/Kg-dry	1	11/04/13 19:56
2-Butanone	U	92	250	µg/Kg-dry	1	11/04/13 19:56
2-Hexanone	U	9.1	37	µg/Kg-dry	1	11/04/13 19:56
4-Methyl-2-pentanone	U	13	37	µg/Kg-dry	1	11/04/13 19:56
Acetone	U	79	120	µg/Kg-dry	1	11/04/13 19:56
Benzene	U	15	37	µg/Kg-dry	1	11/04/13 19:56
Bromodichloromethane	U	8.3	37	µg/Kg-dry	1	11/04/13 19:56

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-026
Collection Date: 10/21/13 04:25 PM

Work Order: 13101246
Lab ID: 13101246-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		7.3	37	µg/Kg-dry	1	11/04/13 19:56
Bromomethane	U		14	93	µg/Kg-dry	1	11/04/13 19:56
Carbon disulfide	U		18	37	µg/Kg-dry	1	11/04/13 19:56
Carbon tetrachloride	U		11	37	µg/Kg-dry	1	11/04/13 19:56
Chlorobenzene	U		15	37	µg/Kg-dry	1	11/04/13 19:56
Chloroethane	U		79	120	µg/Kg-dry	1	11/04/13 19:56
Chloroform	U		15	37	µg/Kg-dry	1	11/04/13 19:56
Chloromethane	U		21	120	µg/Kg-dry	1	11/04/13 19:56
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	11/04/13 19:56
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	11/04/13 19:56
Cyclohexane	U		17	37	µg/Kg-dry	1	11/04/13 19:56
Dibromochloromethane	U		6.9	37	µg/Kg-dry	1	11/04/13 19:56
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	11/04/13 19:56
Ethylbenzene	U		14	37	µg/Kg-dry	1	11/04/13 19:56
Isopropylbenzene	U		16	37	µg/Kg-dry	1	11/04/13 19:56
Methyl acetate	U		50	250	µg/Kg-dry	1	11/04/13 19:56
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	11/04/13 19:56
Methylcyclohexane	U		17	37	µg/Kg-dry	1	11/04/13 19:56
Methylene chloride	U		15	37	µg/Kg-dry	1	11/04/13 19:56
Styrene	U		14	37	µg/Kg-dry	1	11/04/13 19:56
Tetrachloroethene	U		17	37	µg/Kg-dry	1	11/04/13 19:56
Toluene	U		14	37	µg/Kg-dry	1	11/04/13 19:56
trans-1,2-Dichloroethene	U		11	37	µg/Kg-dry	1	11/04/13 19:56
trans-1,3-Dichloropropene	U		12	37	µg/Kg-dry	1	11/04/13 19:56
Trichloroethene	U		17	37	µg/Kg-dry	1	11/04/13 19:56
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	11/04/13 19:56
Vinyl chloride	U		17	37	µg/Kg-dry	1	11/04/13 19:56
Xylenes, Total	U		44	110	µg/Kg-dry	1	11/04/13 19:56
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	11/04/13 19:56
Surr: 4-Bromofluorobenzene	96.5			70-130	%REC	1	11/04/13 19:56
Surr: Dibromofluoromethane	98.8			70-130	%REC	1	11/04/13 19:56
Surr: Toluene-d8	100			70-130	%REC	1	11/04/13 19:56

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129317

Moisture	7.2	0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-027
Collection Date: 10/21/13 04:30 PM

Work Order: 13101246
Lab ID: 13101246-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/25/13	Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		49	86	µg/Kg-dry	1	10/28/13 16:36
Aroclor 1221	U		49	86	µg/Kg-dry	1	10/28/13 16:36
Aroclor 1232	U		49	86	µg/Kg-dry	1	10/28/13 16:36
Aroclor 1242	U		49	86	µg/Kg-dry	1	10/28/13 16:36
Aroclor 1248	U		49	86	µg/Kg-dry	1	10/28/13 16:36
Aroclor 1254	U		31	86	µg/Kg-dry	1	10/28/13 16:36
Aroclor 1260	U		31	86	µg/Kg-dry	1	10/28/13 16:36
Surr: Decachlorobiphenyl	87.1			40-140	%REC	1	10/28/13 16:36
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.011	J	0.00084	0.042	mg/Kg-dry	1	10/30/13 14:59
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/26/13	Analyst: ML
<u>BatchID: 52701</u>							
Antimony	0.036	J	0.0016	0.41	mg/Kg-dry	1	11/01/13 20:33
Arsenic	1.1		0.056	0.41	mg/Kg-dry	1	11/01/13 20:33
Barium	5.8		0.011	0.41	mg/Kg-dry	1	11/01/13 20:33
Beryllium	0.11	J	0.0033	0.16	mg/Kg-dry	1	11/01/13 20:33
Cadmium	0.036	J	0.0016	0.16	mg/Kg-dry	1	11/01/13 20:33
Chromium	7.0		0.067	0.41	mg/Kg-dry	1	11/01/13 20:33
Cobalt	2.5		0.0016	0.41	mg/Kg-dry	1	11/01/13 20:33
Copper	5.0		0.080	0.41	mg/Kg-dry	1	11/01/13 20:33
Iron	5,400		1.4	6.6	mg/Kg-dry	1	11/01/13 20:33
Lead	2.4		0.0016	0.41	mg/Kg-dry	1	11/01/13 20:33
Manganese	86		0.036	0.41	mg/Kg-dry	1	11/01/13 20:33
Molybdenum	0.41	J	0.018	0.41	mg/Kg-dry	1	11/01/13 20:33
Nickel	5.4		0.041	0.41	mg/Kg-dry	1	11/01/13 20:33
Selenium	0.40	J	0.052	0.41	mg/Kg-dry	1	11/01/13 20:33
Silver	0.0064	J	0.0016	0.41	mg/Kg-dry	1	11/01/13 20:33
Thallium	0.033	J	0.0098	0.41	mg/Kg-dry	1	11/01/13 20:33
Vanadium	9.9		0.025	0.41	mg/Kg-dry	1	11/01/13 20:33
Zinc	9.9		0.034	0.82	mg/Kg-dry	1	11/01/13 20:33
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		2.9	6.9	µg/Kg-dry	1	10/26/13 07:21
Acenaphthene	U		1.0	6.9	µg/Kg-dry	1	10/26/13 07:21
Acenaphthylene	U		1.3	6.9	µg/Kg-dry	1	10/26/13 07:21

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-027
Collection Date: 10/21/13 04:30 PM

Work Order: 13101246
Lab ID: 13101246-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.4	6.9	µg/Kg-dry	1	10/26/13 07:21
Benzo(a)anthracene	U		1.4	6.9	µg/Kg-dry	1	10/26/13 07:21
Benzo(a)pyrene	U		2.3	6.9	µg/Kg-dry	1	10/26/13 07:21
Benzo(b)fluoranthene	U		2.0	6.9	µg/Kg-dry	1	10/26/13 07:21
Benzo(g,h,i)perylene	U		2.7	6.9	µg/Kg-dry	1	10/26/13 07:21
Benzo(k)fluoranthene	U		1.5	6.9	µg/Kg-dry	1	10/26/13 07:21
Chrysene	U		1.6	6.9	µg/Kg-dry	1	10/26/13 07:21
Dibenzo(a,h)anthracene	U		2.6	6.9	µg/Kg-dry	1	10/26/13 07:21
Fluoranthene	U		2.4	6.9	µg/Kg-dry	1	10/26/13 07:21
Fluorene	U		2.3	6.9	µg/Kg-dry	1	10/26/13 07:21
Indeno(1,2,3-cd)pyrene	U		2.3	6.9	µg/Kg-dry	1	10/26/13 07:21
Naphthalene	U		2.6	6.9	µg/Kg-dry	1	10/26/13 07:21
Phenanthrene	U		1.4	6.9	µg/Kg-dry	1	10/26/13 07:21
Pyrene	U		2.3	6.9	µg/Kg-dry	1	10/26/13 07:21
Surr: 2-Fluorobiphenyl	77.0			12-100	%REC	1	10/26/13 07:21
Surr: 4-Terphenyl-d14	114			25-137	%REC	1	10/26/13 07:21
Surr: Nitrobenzene-d5	74.2			37-107	%REC	1	10/26/13 07:21

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	11/04/13 20:20
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	11/04/13 20:20
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	11/04/13 20:20
1,1,2-Trichlorotrifluoroethane	U		12	34	µg/Kg-dry	1	11/04/13 20:20
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	11/04/13 20:20
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	11/04/13 20:20
1,2,4-Trichlorobenzene	U		17	34	µg/Kg-dry	1	11/04/13 20:20
1,2-Dibromo-3-chloropropane	U		16	34	µg/Kg-dry	1	11/04/13 20:20
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	11/04/13 20:20
1,2-Dichlorobenzene	U		13	34	µg/Kg-dry	1	11/04/13 20:20
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	11/04/13 20:20
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	11/04/13 20:20
1,3-Dichlorobenzene	U		14	34	µg/Kg-dry	1	11/04/13 20:20
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	11/04/13 20:20
2-Butanone	U		83	220	µg/Kg-dry	1	11/04/13 20:20
2-Hexanone	U		8.3	34	µg/Kg-dry	1	11/04/13 20:20
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	11/04/13 20:20
Acetone	U		71	110	µg/Kg-dry	1	11/04/13 20:20
Benzene	U		14	34	µg/Kg-dry	1	11/04/13 20:20
Bromodichloromethane	U		7.6	34	µg/Kg-dry	1	11/04/13 20:20

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-027
Collection Date: 10/21/13 04:30 PM

Work Order: 13101246
Lab ID: 13101246-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		6.6	34	µg/Kg-dry	1	11/04/13 20:20
Bromomethane	U		13	84	µg/Kg-dry	1	11/04/13 20:20
Carbon disulfide	U		17	34	µg/Kg-dry	1	11/04/13 20:20
Carbon tetrachloride	U		9.6	34	µg/Kg-dry	1	11/04/13 20:20
Chlorobenzene	U		14	34	µg/Kg-dry	1	11/04/13 20:20
Chloroethane	U		72	110	µg/Kg-dry	1	11/04/13 20:20
Chloroform	U		14	34	µg/Kg-dry	1	11/04/13 20:20
Chloromethane	U		19	110	µg/Kg-dry	1	11/04/13 20:20
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	11/04/13 20:20
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	11/04/13 20:20
Cyclohexane	U		15	34	µg/Kg-dry	1	11/04/13 20:20
Dibromochloromethane	U		6.2	34	µg/Kg-dry	1	11/04/13 20:20
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	11/04/13 20:20
Ethylbenzene	U		13	34	µg/Kg-dry	1	11/04/13 20:20
Isopropylbenzene	U		15	34	µg/Kg-dry	1	11/04/13 20:20
Methyl acetate	U		45	220	µg/Kg-dry	1	11/04/13 20:20
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	11/04/13 20:20
Methylcyclohexane	U		16	34	µg/Kg-dry	1	11/04/13 20:20
Methylene chloride	U		13	34	µg/Kg-dry	1	11/04/13 20:20
Styrene	U		13	34	µg/Kg-dry	1	11/04/13 20:20
Tetrachloroethene	U		15	34	µg/Kg-dry	1	11/04/13 20:20
Toluene	U		13	34	µg/Kg-dry	1	11/04/13 20:20
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	11/04/13 20:20
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	11/04/13 20:20
Trichloroethene	U		16	34	µg/Kg-dry	1	11/04/13 20:20
Trichlorofluoromethane	U		9.3	34	µg/Kg-dry	1	11/04/13 20:20
Vinyl chloride	U		15	34	µg/Kg-dry	1	11/04/13 20:20
Xylenes, Total	U		40	100	µg/Kg-dry	1	11/04/13 20:20
Surr: 1,2-Dichloroethane-d4	99.6			70-130	%REC	1	11/04/13 20:20
Surr: 4-Bromofluorobenzene	98.0			70-130	%REC	1	11/04/13 20:20
Surr: Dibromofluoromethane	99.3			70-130	%REC	1	11/04/13 20:20
Surr: Toluene-d8	99.4			70-130	%REC	1	11/04/13 20:20

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129317

Moisture	6.0	0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-029
Collection Date: 10/22/13 09:45 AM

Work Order: 13101246
Lab ID: 13101246-13
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA			SW7470A			Prep: SW7470 / 10/28/13	Analyst: LR
BatchID: <u>52724</u>							
Mercury	U		0.000080	0.0020	mg/L	1	10/29/13 14:33
TCLP METALS ANALYSIS BY ICP-MS			SW6020A			Prep: SW3005A / 10/27/13	Analyst: RH
BatchID: <u>52720</u>							
Arsenic	U		0.0072	0.010	mg/L	1	10/28/13 18:59
Barium	0.32		0.0027	0.050	mg/L	1	10/28/13 18:59
Cadmium	0.040		0.00034	0.0020	mg/L	1	10/28/13 18:59
Chromium	0.0055	J	0.00042	0.020	mg/L	1	10/28/13 18:59
Lead	0.0049	J	0.00027	0.010	mg/L	1	10/28/13 18:59
Selenium	U		0.0041	0.020	mg/L	1	10/28/13 18:59
Silver	0.0058		0.00025	0.0050	mg/L	1	10/28/13 18:59
TCLP VOLATILE ORGANICS			SW8260			Leachate: SW1311 / 11/4/13	Analyst: BG
BatchID: <u>R129907</u>							
1,1-Dichloroethene	U		2.3	20	µg/L	20	11/05/13 21:08
1,2-Dichloroethane	U		2.2	20	µg/L	20	11/05/13 21:08
2-Butanone	U		13	200	µg/L	20	11/05/13 21:08
Benzene	U		2.9	20	µg/L	20	11/05/13 21:08
Carbon tetrachloride	U		3.3	20	µg/L	20	11/05/13 21:08
Chlorobenzene	U		2.4	20	µg/L	20	11/05/13 21:08
Chloroform	U		2.9	20	µg/L	20	11/05/13 21:08
Tetrachloroethene	U		2.0	20	µg/L	20	11/05/13 21:08
Trichloroethene	U		3.1	20	µg/L	20	11/05/13 21:08
Vinyl chloride	U		3.0	20	µg/L	20	11/05/13 21:08
Surr: 1,2-Dichloroethane-d4	97.4			70-130	%REC	20	11/05/13 21:08
Surr: 4-Bromofluorobenzene	96.5			70-130	%REC	20	11/05/13 21:08
Surr: Dibromofluoromethane	93.6			70-130	%REC	20	11/05/13 21:08
Surr: Toluene-d8	97.2			70-130	%REC	20	11/05/13 21:08

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-030
Collection Date: 10/22/13 10:05 AM

Work Order: 13101246
Lab ID: 13101246-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/25/13	Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		49	86	µg/Kg-dry	1	10/28/13 17:25
Aroclor 1221	U		49	86	µg/Kg-dry	1	10/28/13 17:25
Aroclor 1232	U		49	86	µg/Kg-dry	1	10/28/13 17:25
Aroclor 1242	U		49	86	µg/Kg-dry	1	10/28/13 17:25
Aroclor 1248	U		49	86	µg/Kg-dry	1	10/28/13 17:25
Aroclor 1254	U		32	86	µg/Kg-dry	1	10/28/13 17:25
Aroclor 1260	U		32	86	µg/Kg-dry	1	10/28/13 17:25
Surr: Decachlorobiphenyl	94.1			40-140	%REC	1	10/28/13 17:25
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.010	J	0.00074	0.037	mg/Kg-dry	1	10/30/13 15:01
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/26/13	Analyst: ML
<u>BatchID: 52701</u>							
Antimony	3.4		0.0016	0.39	mg/Kg-dry	1	11/01/13 20:39
Arsenic	1.6		0.053	0.39	mg/Kg-dry	1	11/01/13 20:39
Barium	9.6		0.011	0.39	mg/Kg-dry	1	11/01/13 20:39
Beryllium	0.076	J	0.0031	0.16	mg/Kg-dry	1	11/01/13 20:39
Cadmium	0.52		0.0016	0.16	mg/Kg-dry	1	11/01/13 20:39
Chromium	15		0.064	0.39	mg/Kg-dry	1	11/01/13 20:39
Cobalt	1.1		0.0016	0.39	mg/Kg-dry	1	11/01/13 20:39
Copper	4.5		0.077	0.39	mg/Kg-dry	1	11/01/13 20:39
Iron	7,400		1.3	6.3	mg/Kg-dry	1	11/01/13 20:39
Lead	5.2		0.0016	0.39	mg/Kg-dry	1	11/01/13 20:39
Manganese	79		0.034	0.39	mg/Kg-dry	1	11/01/13 20:39
Molybdenum	16		0.017	0.39	mg/Kg-dry	1	11/01/13 20:39
Nickel	12		0.039	0.39	mg/Kg-dry	1	11/01/13 20:39
Selenium	0.18	J	0.050	0.39	mg/Kg-dry	1	11/01/13 20:39
Silver	1.3		0.0016	0.39	mg/Kg-dry	1	11/01/13 20:39
Thallium	0.033	J	0.0094	0.39	mg/Kg-dry	1	11/01/13 20:39
Vanadium	6.6		0.023	0.39	mg/Kg-dry	1	11/01/13 20:39
Zinc	15		0.033	0.78	mg/Kg-dry	1	11/01/13 20:39
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		3.0	7.2	µg/Kg-dry	1	10/26/13 13:48
Acenaphthene	U		1.1	7.2	µg/Kg-dry	1	10/26/13 13:48
Acenaphthylene	U		1.3	7.2	µg/Kg-dry	1	10/26/13 13:48

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-030
Collection Date: 10/22/13 10:05 AM

Work Order: 13101246
Lab ID: 13101246-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.4	7.2	µg/Kg-dry	1	10/26/13 13:48
Benzo(a)anthracene	41		1.4	7.2	µg/Kg-dry	1	10/26/13 13:48
Benzo(a)pyrene	27		2.3	7.2	µg/Kg-dry	1	10/26/13 13:48
Benzo(b)fluoranthene	32		2.1	7.2	µg/Kg-dry	1	10/26/13 13:48
Benzo(g,h,i)perylene	39		2.8	7.2	µg/Kg-dry	1	10/26/13 13:48
Benzo(k)fluoranthene	23		1.5	7.2	µg/Kg-dry	1	10/26/13 13:48
Chrysene	30		1.7	7.2	µg/Kg-dry	1	10/26/13 13:48
Dibenzo(a,h)anthracene	U		2.7	7.2	µg/Kg-dry	1	10/26/13 13:48
Fluoranthene	32		2.5	7.2	µg/Kg-dry	1	10/26/13 13:48
Fluorene	U		2.4	7.2	µg/Kg-dry	1	10/26/13 13:48
Indeno(1,2,3-cd)pyrene	U		2.4	7.2	µg/Kg-dry	1	10/26/13 13:48
Naphthalene	U		2.6	7.2	µg/Kg-dry	1	10/26/13 13:48
Phenanthrene	29		1.4	7.2	µg/Kg-dry	1	10/26/13 13:48
Pyrene	29		2.4	7.2	µg/Kg-dry	1	10/26/13 13:48
Surr: 2-Fluorobiphenyl	80.3			12-100	%REC	1	10/26/13 13:48
Surr: 4-Terphenyl-d14	108			25-137	%REC	1	10/26/13 13:48
Surr: Nitrobenzene-d5	78.7			37-107	%REC	1	10/26/13 13:48

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U		14	37	µg/Kg-dry	1	11/04/13 20:45
1,1,2,2-Tetrachloroethane	U		16	37	µg/Kg-dry	1	11/04/13 20:45
1,1,2-Trichloroethane	U		13	37	µg/Kg-dry	1	11/04/13 20:45
1,1,2-Trichlorotrifluoroethane	U		14	37	µg/Kg-dry	1	11/04/13 20:45
1,1-Dichloroethane	U		14	37	µg/Kg-dry	1	11/04/13 20:45
1,1-Dichloroethene	U		16	37	µg/Kg-dry	1	11/04/13 20:45
1,2,4-Trichlorobenzene	U		19	37	µg/Kg-dry	1	11/04/13 20:45
1,2-Dibromo-3-chloropropane	U		18	37	µg/Kg-dry	1	11/04/13 20:45
1,2-Dibromoethane	U		15	37	µg/Kg-dry	1	11/04/13 20:45
1,2-Dichlorobenzene	U		15	37	µg/Kg-dry	1	11/04/13 20:45
1,2-Dichloroethane	U		18	37	µg/Kg-dry	1	11/04/13 20:45
1,2-Dichloropropane	U		12	37	µg/Kg-dry	1	11/04/13 20:45
1,3-Dichlorobenzene	U		15	37	µg/Kg-dry	1	11/04/13 20:45
1,4-Dichlorobenzene	U		14	37	µg/Kg-dry	1	11/04/13 20:45
2-Butanone	U		92	250	µg/Kg-dry	1	11/04/13 20:45
2-Hexanone	U		9.2	37	µg/Kg-dry	1	11/04/13 20:45
4-Methyl-2-pentanone	U		13	37	µg/Kg-dry	1	11/04/13 20:45
Acetone	U		79	120	µg/Kg-dry	1	11/04/13 20:45
Benzene	U		15	37	µg/Kg-dry	1	11/04/13 20:45
Bromodichloromethane	U		8.4	37	µg/Kg-dry	1	11/04/13 20:45

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-030
Collection Date: 10/22/13 10:05 AM

Work Order: 13101246
Lab ID: 13101246-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		7.4	37	µg/Kg-dry	1	11/04/13 20:45
Bromomethane	U		14	93	µg/Kg-dry	1	11/04/13 20:45
Carbon disulfide	U		19	37	µg/Kg-dry	1	11/04/13 20:45
Carbon tetrachloride	U		11	37	µg/Kg-dry	1	11/04/13 20:45
Chlorobenzene	U		15	37	µg/Kg-dry	1	11/04/13 20:45
Chloroethane	U		79	120	µg/Kg-dry	1	11/04/13 20:45
Chloroform	U		15	37	µg/Kg-dry	1	11/04/13 20:45
Chloromethane	U		21	120	µg/Kg-dry	1	11/04/13 20:45
cis-1,2-Dichloroethene	U		15	37	µg/Kg-dry	1	11/04/13 20:45
cis-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	11/04/13 20:45
Cyclohexane	U		17	37	µg/Kg-dry	1	11/04/13 20:45
Dibromochloromethane	U		6.9	37	µg/Kg-dry	1	11/04/13 20:45
Dichlorodifluoromethane	U		17	37	µg/Kg-dry	1	11/04/13 20:45
Ethylbenzene	U		14	37	µg/Kg-dry	1	11/04/13 20:45
Isopropylbenzene	U		16	37	µg/Kg-dry	1	11/04/13 20:45
Methyl acetate	U		50	250	µg/Kg-dry	1	11/04/13 20:45
Methyl tert-butyl ether	U		16	37	µg/Kg-dry	1	11/04/13 20:45
Methylcyclohexane	U		17	37	µg/Kg-dry	1	11/04/13 20:45
Methylene chloride	U		15	37	µg/Kg-dry	1	11/04/13 20:45
Styrene	U		14	37	µg/Kg-dry	1	11/04/13 20:45
Tetrachloroethene	U		17	37	µg/Kg-dry	1	11/04/13 20:45
Toluene	U		14	37	µg/Kg-dry	1	11/04/13 20:45
trans-1,2-Dichloroethene	U		12	37	µg/Kg-dry	1	11/04/13 20:45
trans-1,3-Dichloropropene	U		13	37	µg/Kg-dry	1	11/04/13 20:45
Trichloroethene	U		17	37	µg/Kg-dry	1	11/04/13 20:45
Trichlorofluoromethane	U		10	37	µg/Kg-dry	1	11/04/13 20:45
Vinyl chloride	U		17	37	µg/Kg-dry	1	11/04/13 20:45
Xylenes, Total	U		44	110	µg/Kg-dry	1	11/04/13 20:45
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	11/04/13 20:45
Surr: 4-Bromofluorobenzene	97.4			70-130	%REC	1	11/04/13 20:45
Surr: Dibromofluoromethane	100			70-130	%REC	1	11/04/13 20:45
Surr: Toluene-d8	99.2			70-130	%REC	1	11/04/13 20:45

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129317

Moisture	7.4	0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-031
Collection Date: 10/22/13 10:10 AM

Work Order: 13101246
Lab ID: 13101246-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 10/25/13		Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		49	86	µg/Kg-dry	1	10/28/13 17:41
Aroclor 1221	U		49	86	µg/Kg-dry	1	10/28/13 17:41
Aroclor 1232	U		49	86	µg/Kg-dry	1	10/28/13 17:41
Aroclor 1242	U		49	86	µg/Kg-dry	1	10/28/13 17:41
Aroclor 1248	U		49	86	µg/Kg-dry	1	10/28/13 17:41
Aroclor 1254	U		32	86	µg/Kg-dry	1	10/28/13 17:41
Aroclor 1260	U		32	86	µg/Kg-dry	1	10/28/13 17:41
Surr: Decachlorobiphenyl	92.1			40-140	%REC	1	10/28/13 17:41
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 10/28/13		Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.013	J	0.00078	0.039	mg/Kg-dry	1	10/30/13 15:03
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 10/26/13		Analyst: ML
<u>BatchID: 52701</u>							
Antimony	0.99		0.0015	0.38	mg/Kg-dry	1	11/01/13 20:45
Arsenic	1.7		0.051	0.38	mg/Kg-dry	1	11/01/13 20:45
Barium	7.4		0.011	0.38	mg/Kg-dry	1	11/01/13 20:45
Beryllium	0.037	J	0.0030	0.15	mg/Kg-dry	1	11/01/13 20:45
Cadmium	0.48		0.0015	0.15	mg/Kg-dry	1	11/01/13 20:45
Chromium	22		0.062	0.38	mg/Kg-dry	1	11/01/13 20:45
Cobalt	1.1		0.0015	0.38	mg/Kg-dry	1	11/01/13 20:45
Copper	5.1		0.074	0.38	mg/Kg-dry	1	11/01/13 20:45
Iron	7,600		1.3	6.0	mg/Kg-dry	1	11/01/13 20:45
Lead	5.7		0.0015	0.38	mg/Kg-dry	1	11/01/13 20:45
Manganese	95		0.033	0.38	mg/Kg-dry	1	11/01/13 20:45
Molybdenum	23		0.017	0.38	mg/Kg-dry	1	11/01/13 20:45
Nickel	17		0.038	0.38	mg/Kg-dry	1	11/01/13 20:45
Selenium	0.11	J	0.048	0.38	mg/Kg-dry	1	11/01/13 20:45
Silver	1.8		0.0015	0.38	mg/Kg-dry	1	11/01/13 20:45
Thallium	0.028	J	0.0090	0.38	mg/Kg-dry	1	11/01/13 20:45
Vanadium	3.4		0.023	0.38	mg/Kg-dry	1	11/01/13 20:45
Zinc	19		0.032	0.75	mg/Kg-dry	1	11/01/13 20:45
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		2.9	7.1	µg/Kg-dry	1	10/26/13 08:06
Acenaphthene	U		1.1	7.1	µg/Kg-dry	1	10/26/13 08:06
Acenaphthylene	U		1.3	7.1	µg/Kg-dry	1	10/26/13 08:06

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-031
Collection Date: 10/22/13 10:10 AM

Work Order: 13101246
Lab ID: 13101246-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene		U	1.4	7.1	µg/Kg-dry	1	10/26/13 08:06
Benzo(a)anthracene		U	1.4	7.1	µg/Kg-dry	1	10/26/13 08:06
Benzo(a)pyrene		U	2.3	7.1	µg/Kg-dry	1	10/26/13 08:06
Benzo(b)fluoranthene		U	2.1	7.1	µg/Kg-dry	1	10/26/13 08:06
Benzo(g,h,i)perylene		U	2.8	7.1	µg/Kg-dry	1	10/26/13 08:06
Benzo(k)fluoranthene		U	1.5	7.1	µg/Kg-dry	1	10/26/13 08:06
Chrysene		U	1.7	7.1	µg/Kg-dry	1	10/26/13 08:06
Dibenzo(a,h)anthracene		U	2.7	7.1	µg/Kg-dry	1	10/26/13 08:06
Fluoranthene		U	2.5	7.1	µg/Kg-dry	1	10/26/13 08:06
Fluorene		U	2.4	7.1	µg/Kg-dry	1	10/26/13 08:06
Indeno(1,2,3-cd)pyrene		U	2.4	7.1	µg/Kg-dry	1	10/26/13 08:06
Naphthalene		U	2.6	7.1	µg/Kg-dry	1	10/26/13 08:06
Phenanthrene		U	1.4	7.1	µg/Kg-dry	1	10/26/13 08:06
Pyrene		U	2.4	7.1	µg/Kg-dry	1	10/26/13 08:06
Surr: 2-Fluorobiphenyl	81.1			12-100	%REC	1	10/26/13 08:06
Surr: 4-Terphenyl-d14	112			25-137	%REC	1	10/26/13 08:06
Surr: Nitrobenzene-d5	79.3			37-107	%REC	1	10/26/13 08:06

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: BG

BatchID: 52808

1,1,1-Trichloroethane	U	15	38	µg/Kg-dry	1	11/05/13 08:10
1,1,2,2-Tetrachloroethane	U	17	38	µg/Kg-dry	1	11/05/13 08:10
1,1,2-Trichloroethane	U	14	38	µg/Kg-dry	1	11/05/13 08:10
1,1,2-Trichlorotrifluoroethane	U	14	38	µg/Kg-dry	1	11/05/13 08:10
1,1-Dichloroethane	U	14	38	µg/Kg-dry	1	11/05/13 08:10
1,1-Dichloroethene	U	16	38	µg/Kg-dry	1	11/05/13 08:10
1,2,4-Trichlorobenzene	U	20	38	µg/Kg-dry	1	11/05/13 08:10
1,2-Dibromo-3-chloropropane	U	19	38	µg/Kg-dry	1	11/05/13 08:10
1,2-Dibromoethane	U	15	38	µg/Kg-dry	1	11/05/13 08:10
1,2-Dichlorobenzene	U	15	38	µg/Kg-dry	1	11/05/13 08:10
1,2-Dichloroethane	U	18	38	µg/Kg-dry	1	11/05/13 08:10
1,2-Dichloropropane	U	13	38	µg/Kg-dry	1	11/05/13 08:10
1,3-Dichlorobenzene	U	15	38	µg/Kg-dry	1	11/05/13 08:10
1,4-Dichlorobenzene	U	15	38	µg/Kg-dry	1	11/05/13 08:10
2-Butanone	U	95	260	µg/Kg-dry	1	11/05/13 08:10
2-Hexanone	U	9.4	38	µg/Kg-dry	1	11/05/13 08:10
4-Methyl-2-pentanone	U	13	38	µg/Kg-dry	1	11/05/13 08:10
Acetone	U	81	130	µg/Kg-dry	1	11/05/13 08:10
Benzene	U	15	38	µg/Kg-dry	1	11/05/13 08:10
Bromodichloromethane	U	8.6	38	µg/Kg-dry	1	11/05/13 08:10

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-031
Collection Date: 10/22/13 10:10 AM

Work Order: 13101246
Lab ID: 13101246-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		7.6	38	µg/Kg-dry	1	11/05/13 08:10
Bromomethane	U		15	96	µg/Kg-dry	1	11/05/13 08:10
Carbon disulfide	U		19	38	µg/Kg-dry	1	11/05/13 08:10
Carbon tetrachloride	U		11	38	µg/Kg-dry	1	11/05/13 08:10
Chlorobenzene	U		16	38	µg/Kg-dry	1	11/05/13 08:10
Chloroethane	U		82	130	µg/Kg-dry	1	11/05/13 08:10
Chloroform	U		16	38	µg/Kg-dry	1	11/05/13 08:10
Chloromethane	U		21	130	µg/Kg-dry	1	11/05/13 08:10
cis-1,2-Dichloroethene	U		16	38	µg/Kg-dry	1	11/05/13 08:10
cis-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	11/05/13 08:10
Cyclohexane	U		17	38	µg/Kg-dry	1	11/05/13 08:10
Dibromochloromethane	U		7.1	38	µg/Kg-dry	1	11/05/13 08:10
Dichlorodifluoromethane	U		17	38	µg/Kg-dry	1	11/05/13 08:10
Ethylbenzene	U		14	38	µg/Kg-dry	1	11/05/13 08:10
Isopropylbenzene	U		17	38	µg/Kg-dry	1	11/05/13 08:10
Methyl acetate	U		52	260	µg/Kg-dry	1	11/05/13 08:10
Methyl tert-butyl ether	U		16	38	µg/Kg-dry	1	11/05/13 08:10
Methylcyclohexane	U		18	38	µg/Kg-dry	1	11/05/13 08:10
Methylene chloride	U		15	38	µg/Kg-dry	1	11/05/13 08:10
Styrene	U		14	38	µg/Kg-dry	1	11/05/13 08:10
Tetrachloroethene	U		17	38	µg/Kg-dry	1	11/05/13 08:10
Toluene	U		14	38	µg/Kg-dry	1	11/05/13 08:10
trans-1,2-Dichloroethene	U		12	38	µg/Kg-dry	1	11/05/13 08:10
trans-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	11/05/13 08:10
Trichloroethene	U		18	38	µg/Kg-dry	1	11/05/13 08:10
Trichlorofluoromethane	U		11	38	µg/Kg-dry	1	11/05/13 08:10
Vinyl chloride	U		17	38	µg/Kg-dry	1	11/05/13 08:10
Xylenes, Total	U		45	120	µg/Kg-dry	1	11/05/13 08:10
Surr: 1,2-Dichloroethane-d4	98.3			70-130	%REC	1	11/05/13 08:10
Surr: 4-Bromofluorobenzene	94.0			70-130	%REC	1	11/05/13 08:10
Surr: Dibromofluoromethane	92.8			70-130	%REC	1	11/05/13 08:10
Surr: Toluene-d8	98.6			70-130	%REC	1	11/05/13 08:10

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129317

Moisture	7.6	0.025	0.050	% of sample	1	10/25/13 16:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-032
Collection Date: 10/22/13 10:15 AM

Work Order: 13101246
Lab ID: 13101246-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 10/25/13		Analyst: JD
BatchID: 52664							
Aroclor 1016	U		48	85	µg/Kg-dry	1	10/28/13 17:58
Aroclor 1221	U		48	85	µg/Kg-dry	1	10/28/13 17:58
Aroclor 1232	U		48	85	µg/Kg-dry	1	10/28/13 17:58
Aroclor 1242	U		48	85	µg/Kg-dry	1	10/28/13 17:58
Aroclor 1248	U		48	85	µg/Kg-dry	1	10/28/13 17:58
Aroclor 1254	U		31	85	µg/Kg-dry	1	10/28/13 17:58
Aroclor 1260	U		31	85	µg/Kg-dry	1	10/28/13 17:58
Surr: Decachlorobiphenyl	99.1			40-140	%REC	1	10/28/13 17:58
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 10/28/13		Analyst: LR
BatchID: 52718							
Mercury	0.0086	J	0.00077	0.038	mg/Kg-dry	1	10/29/13 13:07
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 10/26/13		Analyst: ML
BatchID: 52701							
Antimony	0.091	J	0.0016	0.39	mg/Kg-dry	1	11/04/13 22:01
Arsenic	1.2		0.053	0.39	mg/Kg-dry	1	11/04/13 22:01
Barium	6.5		0.011	0.39	mg/Kg-dry	1	11/04/13 22:01
Cadmium	0.029	J	0.0016	0.16	mg/Kg-dry	1	11/04/13 22:01
Chromium	5.4		0.064	0.39	mg/Kg-dry	1	11/04/13 22:01
Cobalt	1.6		0.0016	0.39	mg/Kg-dry	1	11/04/13 22:01
Copper	1.2		0.076	0.39	mg/Kg-dry	1	11/04/13 22:01
Iron	3,800		1.3	6.2	mg/Kg-dry	1	11/04/13 22:01
Lead	1.9		0.0016	0.39	mg/Kg-dry	1	11/04/13 22:01
Manganese	24		0.034	0.39	mg/Kg-dry	1	11/04/13 22:01
Molybdenum	0.20	J	0.017	0.39	mg/Kg-dry	1	11/04/13 22:01
Nickel	3.5		0.039	0.39	mg/Kg-dry	1	11/04/13 22:01
Selenium	0.084	J	0.050	0.39	mg/Kg-dry	1	11/04/13 22:01
Silver	0.0059	J	0.0016	0.39	mg/Kg-dry	1	11/04/13 22:01
Thallium	0.024	J	0.0094	0.39	mg/Kg-dry	1	11/04/13 22:01
Vanadium	8.2		0.023	0.39	mg/Kg-dry	1	11/04/13 22:01
Zinc	5.4		0.033	0.78	mg/Kg-dry	1	11/04/13 22:01
BatchID: 52701							
Beryllium	0.12	J	0.016	0.78	mg/Kg-dry	5	10/29/13 16:33
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 10/25/13		Analyst: HL
BatchID: 52635							
2-Methylnaphthalene	U		2.9	7.0	µg/Kg-dry	1	10/28/13 11:25
Acenaphthene	U		1.0	7.0	µg/Kg-dry	1	10/28/13 11:25

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-032
Collection Date: 10/22/13 10:15 AM

Work Order: 13101246
Lab ID: 13101246-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	U		1.3	7.0	µg/Kg-dry	1	10/28/13 11:25
Anthracene	U		1.4	7.0	µg/Kg-dry	1	10/28/13 11:25
Benzo(a)anthracene	U		1.4	7.0	µg/Kg-dry	1	10/28/13 11:25
Benzo(a)pyrene	U		2.3	7.0	µg/Kg-dry	1	10/28/13 11:25
Benzo(b)fluoranthene	U		2.1	7.0	µg/Kg-dry	1	10/28/13 11:25
Benzo(g,h,i)perylene	U		2.8	7.0	µg/Kg-dry	1	10/28/13 11:25
Benzo(k)fluoranthene	U		1.5	7.0	µg/Kg-dry	1	10/28/13 11:25
Chrysene	U		1.7	7.0	µg/Kg-dry	1	10/28/13 11:25
Dibenzo(a,h)anthracene	U		2.6	7.0	µg/Kg-dry	1	10/28/13 11:25
Fluoranthene	U		2.5	7.0	µg/Kg-dry	1	10/28/13 11:25
Fluorene	U		2.4	7.0	µg/Kg-dry	1	10/28/13 11:25
Indeno(1,2,3-cd)pyrene	U		2.3	7.0	µg/Kg-dry	1	10/28/13 11:25
Naphthalene	U		2.6	7.0	µg/Kg-dry	1	10/28/13 11:25
Phenanthrene	U		1.4	7.0	µg/Kg-dry	1	10/28/13 11:25
Pyrene	U		2.4	7.0	µg/Kg-dry	1	10/28/13 11:25
Surr: 2-Fluorobiphenyl	76.4			12-100	%REC	1	10/28/13 11:25
Surr: 4-Terphenyl-d14	94.1			25-137	%REC	1	10/28/13 11:25
Surr: Nitrobenzene-d5	81.4			37-107	%REC	1	10/28/13 11:25

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: BG

BatchID: 52808

1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	11/05/13 08:35
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	11/05/13 08:35
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	11/05/13 08:35
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	11/05/13 08:35
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	11/05/13 08:35
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	11/05/13 08:35
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	11/05/13 08:35
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	11/05/13 08:35
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	11/05/13 08:35
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	11/05/13 08:35
1,2-Dichloroethane	U		16	35	µg/Kg-dry	1	11/05/13 08:35
1,2-Dichloropropane	U		12	35	µg/Kg-dry	1	11/05/13 08:35
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	11/05/13 08:35
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	11/05/13 08:35
2-Butanone	U		86	230	µg/Kg-dry	1	11/05/13 08:35
2-Hexanone	U		8.5	35	µg/Kg-dry	1	11/05/13 08:35
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	11/05/13 08:35
Acetone	U		74	120	µg/Kg-dry	1	11/05/13 08:35
Benzene	U		14	35	µg/Kg-dry	1	11/05/13 08:35

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-032
Collection Date: 10/22/13 10:15 AM

Work Order: 13101246
Lab ID: 13101246-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	U		7.8	35	µg/Kg-dry	1	11/05/13 08:35
Bromoform	U		6.9	35	µg/Kg-dry	1	11/05/13 08:35
Bromomethane	U		13	87	µg/Kg-dry	1	11/05/13 08:35
Carbon disulfide	U		17	35	µg/Kg-dry	1	11/05/13 08:35
Carbon tetrachloride	U		9.9	35	µg/Kg-dry	1	11/05/13 08:35
Chlorobenzene	U		14	35	µg/Kg-dry	1	11/05/13 08:35
Chloroethane	U		74	120	µg/Kg-dry	1	11/05/13 08:35
Chloroform	U		14	35	µg/Kg-dry	1	11/05/13 08:35
Chloromethane	U		19	120	µg/Kg-dry	1	11/05/13 08:35
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	11/05/13 08:35
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	11/05/13 08:35
Cyclohexane	U		16	35	µg/Kg-dry	1	11/05/13 08:35
Dibromochloromethane	U		6.4	35	µg/Kg-dry	1	11/05/13 08:35
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	11/05/13 08:35
Ethylbenzene	U		13	35	µg/Kg-dry	1	11/05/13 08:35
Isopropylbenzene	U		15	35	µg/Kg-dry	1	11/05/13 08:35
Methyl acetate	U		47	230	µg/Kg-dry	1	11/05/13 08:35
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	11/05/13 08:35
Methylcyclohexane	U		16	35	µg/Kg-dry	1	11/05/13 08:35
Methylene chloride	U		14	35	µg/Kg-dry	1	11/05/13 08:35
Styrene	U		13	35	µg/Kg-dry	1	11/05/13 08:35
Tetrachloroethene	U		15	35	µg/Kg-dry	1	11/05/13 08:35
Toluene	U		13	35	µg/Kg-dry	1	11/05/13 08:35
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	11/05/13 08:35
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	11/05/13 08:35
Trichloroethene	U		16	35	µg/Kg-dry	1	11/05/13 08:35
Trichlorofluoromethane	U		9.6	35	µg/Kg-dry	1	11/05/13 08:35
Vinyl chloride	U		16	35	µg/Kg-dry	1	11/05/13 08:35
Xylenes, Total	U		41	100	µg/Kg-dry	1	11/05/13 08:35
Surr: 1,2-Dichloroethane-d4	96.2			70-130	%REC	1	11/05/13 08:35
Surr: 4-Bromofluorobenzene	96.0			70-130	%REC	1	11/05/13 08:35
Surr: Dibromofluoromethane	89.8			70-130	%REC	1	11/05/13 08:35
Surr: Toluene-d8	99.5			70-130	%REC	1	11/05/13 08:35

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	6.3	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-033
Collection Date: 10/22/13 10:20 AM

Work Order: 13101246
Lab ID: 13101246-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/25/13	Analyst: JD
<u>BatchID: 52664</u>							
Aroclor 1016	U		53	93	µg/Kg-dry	1	10/28/13 18:46
Aroclor 1221	U		53	93	µg/Kg-dry	1	10/28/13 18:46
Aroclor 1232	U		53	93	µg/Kg-dry	1	10/28/13 18:46
Aroclor 1242	U		53	93	µg/Kg-dry	1	10/28/13 18:46
Aroclor 1248	U		53	93	µg/Kg-dry	1	10/28/13 18:46
Aroclor 1254	U		34	93	µg/Kg-dry	1	10/28/13 18:46
Aroclor 1260	U		34	93	µg/Kg-dry	1	10/28/13 18:46
Surr: Decachlorobiphenyl	97.1			40-140	%REC	1	10/28/13 18:46
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.025	J	0.00084	0.042	mg/Kg-dry	1	10/30/13 15:05
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/26/13	Analyst: ML
<u>BatchID: 52701</u>							
Antimony	0.065	J	0.0017	0.42	mg/Kg-dry	1	11/01/13 20:51
Arsenic	1.4		0.057	0.42	mg/Kg-dry	1	11/01/13 20:51
Barium	11		0.012	0.42	mg/Kg-dry	1	11/01/13 20:51
Beryllium	0.11	J	0.0033	0.17	mg/Kg-dry	1	11/01/13 20:51
Cadmium	0.097	J	0.0017	0.17	mg/Kg-dry	1	11/01/13 20:51
Chromium	7.2		0.069	0.42	mg/Kg-dry	1	11/01/13 20:51
Cobalt	2.0		0.0017	0.42	mg/Kg-dry	1	11/01/13 20:51
Copper	4.9		0.082	0.42	mg/Kg-dry	1	11/01/13 20:51
Iron	5,000		1.4	6.7	mg/Kg-dry	1	11/01/13 20:51
Lead	2.4		0.0017	0.42	mg/Kg-dry	1	11/01/13 20:51
Manganese	37		0.037	0.42	mg/Kg-dry	1	11/01/13 20:51
Molybdenum	0.36	J	0.018	0.42	mg/Kg-dry	1	11/01/13 20:51
Nickel	5.7		0.042	0.42	mg/Kg-dry	1	11/01/13 20:51
Selenium	0.32	J	0.054	0.42	mg/Kg-dry	1	11/01/13 20:51
Silver	0.012	J	0.0017	0.42	mg/Kg-dry	1	11/01/13 20:51
Thallium	0.044	J	0.010	0.42	mg/Kg-dry	1	11/01/13 20:51
Vanadium	11		0.025	0.42	mg/Kg-dry	1	11/01/13 20:51
Zinc	9.4		0.035	0.84	mg/Kg-dry	1	11/01/13 20:51
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		3.0	7.3	µg/Kg-dry	1	10/26/13 07:43
Acenaphthene	U		1.1	7.3	µg/Kg-dry	1	10/26/13 07:43
Acenaphthylene	U		1.3	7.3	µg/Kg-dry	1	10/26/13 07:43

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-033
Collection Date: 10/22/13 10:20 AM

Work Order: 13101246
Lab ID: 13101246-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.4	7.3	µg/Kg-dry	1	10/26/13 07:43
Benzo(a)anthracene	U		1.4	7.3	µg/Kg-dry	1	10/26/13 07:43
Benzo(a)pyrene	U		2.4	7.3	µg/Kg-dry	1	10/26/13 07:43
Benzo(b)fluoranthene	U		2.1	7.3	µg/Kg-dry	1	10/26/13 07:43
Benzo(g,h,i)perylene	U		2.9	7.3	µg/Kg-dry	1	10/26/13 07:43
Benzo(k)fluoranthene	U		1.5	7.3	µg/Kg-dry	1	10/26/13 07:43
Chrysene	U		1.7	7.3	µg/Kg-dry	1	10/26/13 07:43
Dibenzo(a,h)anthracene	U		2.7	7.3	µg/Kg-dry	1	10/26/13 07:43
Fluoranthene	U		2.5	7.3	µg/Kg-dry	1	10/26/13 07:43
Fluorene	U		2.4	7.3	µg/Kg-dry	1	10/26/13 07:43
Indeno(1,2,3-cd)pyrene	U		2.4	7.3	µg/Kg-dry	1	10/26/13 07:43
Naphthalene	U		2.7	7.3	µg/Kg-dry	1	10/26/13 07:43
Phenanthrene	U		1.5	7.3	µg/Kg-dry	1	10/26/13 07:43
Pyrene	U		2.5	7.3	µg/Kg-dry	1	10/26/13 07:43
Surr: 2-Fluorobiphenyl	84.2			12-100	%REC	1	10/26/13 07:43
Surr: 4-Terphenyl-d14	115			25-137	%REC	1	10/26/13 07:43
Surr: Nitrobenzene-d5	80.3			37-107	%REC	1	10/26/13 07:43

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: BG

BatchID: 52808

1,1,1-Trichloroethane	U		17	44	µg/Kg-dry	1	11/05/13 08:59
1,1,2,2-Tetrachloroethane	U		19	44	µg/Kg-dry	1	11/05/13 08:59
1,1,2-Trichloroethane	U		16	44	µg/Kg-dry	1	11/05/13 08:59
1,1,2-Trichlorotrifluoroethane	U		16	44	µg/Kg-dry	1	11/05/13 08:59
1,1-Dichloroethane	U		16	44	µg/Kg-dry	1	11/05/13 08:59
1,1-Dichloroethene	U		19	44	µg/Kg-dry	1	11/05/13 08:59
1,2,4-Trichlorobenzene	U		23	44	µg/Kg-dry	1	11/05/13 08:59
1,2-Dibromo-3-chloropropane	U		22	44	µg/Kg-dry	1	11/05/13 08:59
1,2-Dibromoethane	U		17	44	µg/Kg-dry	1	11/05/13 08:59
1,2-Dichlorobenzene	U		18	44	µg/Kg-dry	1	11/05/13 08:59
1,2-Dichloroethane	U		21	44	µg/Kg-dry	1	11/05/13 08:59
1,2-Dichloropropane	U		15	44	µg/Kg-dry	1	11/05/13 08:59
1,3-Dichlorobenzene	U		18	44	µg/Kg-dry	1	11/05/13 08:59
1,4-Dichlorobenzene	U		17	44	µg/Kg-dry	1	11/05/13 08:59
2-Butanone	U		110	290	µg/Kg-dry	1	11/05/13 08:59
2-Hexanone	U		11	44	µg/Kg-dry	1	11/05/13 08:59
4-Methyl-2-pentanone	U		15	44	µg/Kg-dry	1	11/05/13 08:59
Acetone	U		94	150	µg/Kg-dry	1	11/05/13 08:59
Benzene	U		18	44	µg/Kg-dry	1	11/05/13 08:59
Bromodichloromethane	U		9.9	44	µg/Kg-dry	1	11/05/13 08:59

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-033
Collection Date: 10/22/13 10:20 AM

Work Order: 13101246
Lab ID: 13101246-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		8.7	44	µg/Kg-dry	1	11/05/13 08:59
Bromomethane	U		17	110	µg/Kg-dry	1	11/05/13 08:59
Carbon disulfide	U		22	44	µg/Kg-dry	1	11/05/13 08:59
Carbon tetrachloride	U		13	44	µg/Kg-dry	1	11/05/13 08:59
Chlorobenzene	U		18	44	µg/Kg-dry	1	11/05/13 08:59
Chloroethane	U		94	150	µg/Kg-dry	1	11/05/13 08:59
Chloroform	U		18	44	µg/Kg-dry	1	11/05/13 08:59
Chloromethane	U		25	150	µg/Kg-dry	1	11/05/13 08:59
cis-1,2-Dichloroethene	U		18	44	µg/Kg-dry	1	11/05/13 08:59
cis-1,3-Dichloropropene	U		15	44	µg/Kg-dry	1	11/05/13 08:59
Cyclohexane	U		20	44	µg/Kg-dry	1	11/05/13 08:59
Dibromochloromethane	U		8.2	44	µg/Kg-dry	1	11/05/13 08:59
Dichlorodifluoromethane	U		20	44	µg/Kg-dry	1	11/05/13 08:59
Ethylbenzene	U		16	44	µg/Kg-dry	1	11/05/13 08:59
Isopropylbenzene	U		19	44	µg/Kg-dry	1	11/05/13 08:59
Methyl acetate	U		59	290	µg/Kg-dry	1	11/05/13 08:59
Methyl tert-butyl ether	U		19	44	µg/Kg-dry	1	11/05/13 08:59
Methylcyclohexane	U		20	44	µg/Kg-dry	1	11/05/13 08:59
Methylene chloride	U		17	44	µg/Kg-dry	1	11/05/13 08:59
Styrene	U		16	44	µg/Kg-dry	1	11/05/13 08:59
Tetrachloroethene	U		20	44	µg/Kg-dry	1	11/05/13 08:59
Toluene	U		17	44	µg/Kg-dry	1	11/05/13 08:59
trans-1,2-Dichloroethene	U		14	44	µg/Kg-dry	1	11/05/13 08:59
trans-1,3-Dichloropropene	U		15	44	µg/Kg-dry	1	11/05/13 08:59
Trichloroethene	U		21	44	µg/Kg-dry	1	11/05/13 08:59
Trichlorofluoromethane	U		12	44	µg/Kg-dry	1	11/05/13 08:59
Vinyl chloride	U		20	44	µg/Kg-dry	1	11/05/13 08:59
Xylenes, Total	U		52	130	µg/Kg-dry	1	11/05/13 08:59
Surr: 1,2-Dichloroethane-d4	97.5			70-130	%REC	1	11/05/13 08:59
Surr: 4-Bromofluorobenzene	97.2			70-130	%REC	1	11/05/13 08:59
Surr: Dibromofluoromethane	91.3			70-130	%REC	1	11/05/13 08:59
Surr: Toluene-d8	98.0			70-130	%REC	1	11/05/13 08:59

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	11	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-035
Collection Date: 10/22/13 10:50 AM

Work Order: 13101246
Lab ID: 13101246-18
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA							
			SW7470A			Prep: SW7470 / 10/28/13	Analyst: LR
BatchID: <u>52724</u>							
Mercury	U		0.000080	0.0020	mg/L	1	10/29/13 14:35
TCLP METALS ANALYSIS BY ICP-MS							
			SW6020A			Prep: SW3005A / 10/27/13	Analyst: RH
BatchID: <u>52720</u>							
Arsenic	U		0.0072	0.010	mg/L	1	10/28/13 19:04
Barium	0.30		0.0027	0.050	mg/L	1	10/28/13 19:04
Cadmium	0.0077		0.00034	0.0020	mg/L	1	10/28/13 19:04
Chromium	0.021		0.00042	0.020	mg/L	1	10/28/13 19:04
Lead	0.0021	J	0.00027	0.010	mg/L	1	10/28/13 19:04
Selenium	U		0.0041	0.020	mg/L	1	10/28/13 19:04
Silver	0.00042	J	0.00025	0.0050	mg/L	1	10/28/13 19:04
TCLP VOLATILE ORGANICS							
			SW8260			Leachate: SW1311 / 11/4/13	Analyst: RS
BatchID: <u>R129805</u>							
1,1-Dichloroethene	U		3.9	20	µg/L	20	11/04/13 21:25
1,2-Dichloroethane	U		3.0	20	µg/L	20	11/04/13 21:25
2-Butanone	U		7.1	200	µg/L	20	11/04/13 21:25
Benzene	U		3.6	20	µg/L	20	11/04/13 21:25
Carbon tetrachloride	U		3.2	20	µg/L	20	11/04/13 21:25
Chlorobenzene	U		2.9	20	µg/L	20	11/04/13 21:25
Chloroform	U		3.8	20	µg/L	20	11/04/13 21:25
Tetrachloroethene	U		2.7	20	µg/L	20	11/04/13 21:25
Trichloroethene	U		3.8	20	µg/L	20	11/04/13 21:25
Vinyl chloride	U		5.6	20	µg/L	20	11/04/13 21:25
Surr: 1,2-Dichloroethane-d4	93.8			70-130	%REC	20	11/04/13 21:25
Surr: 4-Bromofluorobenzene	93.0			70-130	%REC	20	11/04/13 21:25
Surr: Dibromofluoromethane	97.9			70-130	%REC	20	11/04/13 21:25
Surr: Toluene-d8	97.1			70-130	%REC	20	11/04/13 21:25

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-036
Collection Date: 10/22/13 11:30 AM

Work Order: 13101246
Lab ID: 13101246-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		49	87	µg/Kg-dry	1	10/28/13 22:50
Aroclor 1221	U		49	87	µg/Kg-dry	1	10/28/13 22:50
Aroclor 1232	U		49	87	µg/Kg-dry	1	10/28/13 22:50
Aroclor 1242	U		49	87	µg/Kg-dry	1	10/28/13 22:50
Aroclor 1248	U		49	87	µg/Kg-dry	1	10/28/13 22:50
Aroclor 1254	U		32	87	µg/Kg-dry	1	10/28/13 22:50
Aroclor 1260	U		32	87	µg/Kg-dry	1	10/28/13 22:50
Surr: Decachlorobiphenyl	71.1			40-140	%REC	1	10/28/13 22:50
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.0071	J	0.00086	0.043	mg/Kg-dry	1	10/30/13 15:07
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/26/13	Analyst: ML
<u>BatchID: 52701</u>							
Antimony	1.4		0.0016	0.39	mg/Kg-dry	1	11/01/13 05:53
Arsenic	0.63		0.053	0.39	mg/Kg-dry	1	11/01/13 05:53
Barium	1.6		0.011	0.39	mg/Kg-dry	1	11/01/13 05:53
Beryllium	0.014	J	0.0031	0.16	mg/Kg-dry	1	11/01/13 05:53
Cadmium	0.084	J	0.0016	0.16	mg/Kg-dry	1	11/01/13 05:53
Chromium	31		0.064	0.39	mg/Kg-dry	1	11/01/13 05:53
Cobalt	1.2		0.0016	0.39	mg/Kg-dry	1	11/01/13 05:53
Copper	6.5		0.076	0.39	mg/Kg-dry	1	11/01/13 05:53
Iron	9,300		1.3	6.2	mg/Kg-dry	1	11/01/13 05:53
Lead	31		0.0016	0.39	mg/Kg-dry	1	11/01/13 05:53
Manganese	110		0.034	0.39	mg/Kg-dry	1	11/01/13 05:53
Molybdenum	35		0.017	0.39	mg/Kg-dry	1	11/01/13 05:53
Nickel	15		0.039	0.39	mg/Kg-dry	1	11/01/13 05:53
Selenium	U		0.050	0.39	mg/Kg-dry	1	11/01/13 05:53
Silver	0.32	J	0.0016	0.39	mg/Kg-dry	1	11/01/13 05:53
Thallium	U		0.0093	0.39	mg/Kg-dry	1	11/01/13 05:53
Vanadium	U		0.023	0.39	mg/Kg-dry	1	11/01/13 05:53
Zinc	5.2		0.033	0.78	mg/Kg-dry	1	11/01/13 05:53
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		2.9	6.9	µg/Kg-dry	1	10/26/13 14:11
Acenaphthene	U		1.0	6.9	µg/Kg-dry	1	10/26/13 14:11
Acenaphthylene	U		1.3	6.9	µg/Kg-dry	1	10/26/13 14:11

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-036
Collection Date: 10/22/13 11:30 AM

Work Order: 13101246
Lab ID: 13101246-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.4	6.9	µg/Kg-dry	1	10/26/13 14:11
Benzo(a)anthracene	77		1.4	6.9	µg/Kg-dry	1	10/26/13 14:11
Benzo(a)pyrene	75		2.3	6.9	µg/Kg-dry	1	10/26/13 14:11
Benzo(b)fluoranthene	80		2.0	6.9	µg/Kg-dry	1	10/26/13 14:11
Benzo(g,h,i)perylene	140		2.7	6.9	µg/Kg-dry	1	10/26/13 14:11
Benzo(k)fluoranthene	68		1.5	6.9	µg/Kg-dry	1	10/26/13 14:11
Chrysene	72		1.6	6.9	µg/Kg-dry	1	10/26/13 14:11
Dibenzo(a,h)anthracene	U		2.6	6.9	µg/Kg-dry	1	10/26/13 14:11
Fluoranthene	82		2.4	6.9	µg/Kg-dry	1	10/26/13 14:11
Fluorene	U		2.3	6.9	µg/Kg-dry	1	10/26/13 14:11
Indeno(1,2,3-cd)pyrene	65		2.3	6.9	µg/Kg-dry	1	10/26/13 14:11
Naphthalene	U		2.5	6.9	µg/Kg-dry	1	10/26/13 14:11
Phenanthrene	37		1.4	6.9	µg/Kg-dry	1	10/26/13 14:11
Pyrene	78		2.3	6.9	µg/Kg-dry	1	10/26/13 14:11
Surr: 2-Fluorobiphenyl	84.1			12-100	%REC	1	10/26/13 14:11
Surr: 4-Terphenyl-d14	119			25-137	%REC	1	10/26/13 14:11
Surr: Nitrobenzene-d5	79.0			37-107	%REC	1	10/26/13 14:11

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: BG

BatchID: 52808

1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	11/05/13 09:24
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	11/05/13 09:24
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	11/05/13 09:24
1,1,2-Trichlorotrifluoroethane	U		12	34	µg/Kg-dry	1	11/05/13 09:24
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	11/05/13 09:24
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	11/05/13 09:24
1,2,4-Trichlorobenzene	U		17	34	µg/Kg-dry	1	11/05/13 09:24
1,2-Dibromo-3-chloropropane	U		16	34	µg/Kg-dry	1	11/05/13 09:24
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	11/05/13 09:24
1,2-Dichlorobenzene	U		13	34	µg/Kg-dry	1	11/05/13 09:24
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	11/05/13 09:24
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	11/05/13 09:24
1,3-Dichlorobenzene	U		13	34	µg/Kg-dry	1	11/05/13 09:24
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	11/05/13 09:24
2-Butanone	U		83	220	µg/Kg-dry	1	11/05/13 09:24
2-Hexanone	U		8.2	34	µg/Kg-dry	1	11/05/13 09:24
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	11/05/13 09:24
Acetone	U		71	110	µg/Kg-dry	1	11/05/13 09:24
Benzene	U		13	34	µg/Kg-dry	1	11/05/13 09:24
Bromodichloromethane	U		7.5	34	µg/Kg-dry	1	11/05/13 09:24

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-036
Collection Date: 10/22/13 11:30 AM

Work Order: 13101246
Lab ID: 13101246-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		6.6	34	µg/Kg-dry	1	11/05/13 09:24
Bromomethane	U		13	84	µg/Kg-dry	1	11/05/13 09:24
Carbon disulfide	U		17	34	µg/Kg-dry	1	11/05/13 09:24
Carbon tetrachloride	U		9.5	34	µg/Kg-dry	1	11/05/13 09:24
Chlorobenzene	U		14	34	µg/Kg-dry	1	11/05/13 09:24
Chloroethane	U		71	110	µg/Kg-dry	1	11/05/13 09:24
Chloroform	U		14	34	µg/Kg-dry	1	11/05/13 09:24
Chloromethane	U		19	110	µg/Kg-dry	1	11/05/13 09:24
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	11/05/13 09:24
cis-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	11/05/13 09:24
Cyclohexane	U		15	34	µg/Kg-dry	1	11/05/13 09:24
Dibromochloromethane	U		6.2	34	µg/Kg-dry	1	11/05/13 09:24
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	11/05/13 09:24
Ethylbenzene	U		12	34	µg/Kg-dry	1	11/05/13 09:24
Isopropylbenzene	U		14	34	µg/Kg-dry	1	11/05/13 09:24
Methyl acetate	U		45	220	µg/Kg-dry	1	11/05/13 09:24
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	11/05/13 09:24
Methylcyclohexane	U		16	34	µg/Kg-dry	1	11/05/13 09:24
Methylene chloride	U		13	34	µg/Kg-dry	1	11/05/13 09:24
Styrene	U		12	34	µg/Kg-dry	1	11/05/13 09:24
Tetrachloroethene	U		15	34	µg/Kg-dry	1	11/05/13 09:24
Toluene	U		13	34	µg/Kg-dry	1	11/05/13 09:24
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	11/05/13 09:24
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	11/05/13 09:24
Trichloroethene	U		16	34	µg/Kg-dry	1	11/05/13 09:24
Trichlorofluoromethane	U		9.2	34	µg/Kg-dry	1	11/05/13 09:24
Vinyl chloride	U		15	34	µg/Kg-dry	1	11/05/13 09:24
Xylenes, Total	U		40	100	µg/Kg-dry	1	11/05/13 09:24
Surr: 1,2-Dichloroethane-d4	95.8			70-130	%REC	1	11/05/13 09:24
Surr: 4-Bromofluorobenzene	96.0			70-130	%REC	1	11/05/13 09:24
Surr: Dibromofluoromethane	91.6			70-130	%REC	1	11/05/13 09:24
Surr: Toluene-d8	99.4			70-130	%REC	1	11/05/13 09:24

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	5.5	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-037
Collection Date: 10/22/13 11:35 AM

Work Order: 13101246
Lab ID: 13101246-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 10/27/13		Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		58	100	µg/Kg-dry	1	10/28/13 23:07
Aroclor 1221	U		58	100	µg/Kg-dry	1	10/28/13 23:07
Aroclor 1232	U		58	100	µg/Kg-dry	1	10/28/13 23:07
Aroclor 1242	U		58	100	µg/Kg-dry	1	10/28/13 23:07
Aroclor 1248	U		58	100	µg/Kg-dry	1	10/28/13 23:07
Aroclor 1254	U		38	100	µg/Kg-dry	1	10/28/13 23:07
Aroclor 1260	U		38	100	µg/Kg-dry	1	10/28/13 23:07
Surr: Decachlorobiphenyl	79.1			40-140	%REC	1	10/28/13 23:07
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 10/28/13		Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.037	J	0.00092	0.046	mg/Kg-dry	1	10/30/13 15:09
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 10/28/13		Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.082	J	0.0016	0.41	mg/Kg-dry	1	10/30/13 20:49
Arsenic	0.74		0.055	0.41	mg/Kg-dry	1	10/30/13 20:49
Barium	37		0.011	0.41	mg/Kg-dry	1	10/30/13 20:49
Beryllium	0.14	J	0.0032	0.16	mg/Kg-dry	1	10/30/13 20:49
Cadmium	0.23		0.0016	0.16	mg/Kg-dry	1	10/30/13 20:49
Chromium	4.2		0.067	0.41	mg/Kg-dry	1	10/30/13 20:49
Cobalt	0.61		0.0016	0.41	mg/Kg-dry	1	10/30/13 20:49
Copper	3.4		0.080	0.41	mg/Kg-dry	1	10/30/13 20:49
Iron	2,000		1.4	6.5	mg/Kg-dry	1	10/30/13 20:49
Lead	3.8		0.0016	0.41	mg/Kg-dry	1	10/30/13 20:49
Manganese	20		0.036	0.41	mg/Kg-dry	1	10/30/13 20:49
Molybdenum	0.20	J	0.018	0.41	mg/Kg-dry	1	10/30/13 20:49
Nickel	2.9		0.041	0.41	mg/Kg-dry	1	10/30/13 20:49
Selenium	0.54		0.052	0.41	mg/Kg-dry	1	10/30/13 20:49
Silver	0.028	J	0.0016	0.41	mg/Kg-dry	1	10/30/13 20:49
Thallium	0.081	J	0.0097	0.41	mg/Kg-dry	1	10/30/13 20:49
Vanadium	7.3		0.024	0.41	mg/Kg-dry	1	10/30/13 20:49
Zinc	5.8		0.034	0.81	mg/Kg-dry	1	10/30/13 20:49
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		3.4	8.2	µg/Kg-dry	1	10/26/13 13:25
Acenaphthene	U		1.2	8.2	µg/Kg-dry	1	10/26/13 13:25
Acenaphthylene	U		1.5	8.2	µg/Kg-dry	1	10/26/13 13:25

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-037
Collection Date: 10/22/13 11:35 AM

Work Order: 13101246
Lab ID: 13101246-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.6	8.2	µg/Kg-dry	1	10/26/13 13:25
Benzo(a)anthracene	U		1.6	8.2	µg/Kg-dry	1	10/26/13 13:25
Benzo(a)pyrene	U		2.7	8.2	µg/Kg-dry	1	10/26/13 13:25
Benzo(b)fluoranthene	U		2.4	8.2	µg/Kg-dry	1	10/26/13 13:25
Benzo(g,h,i)perylene	U		3.2	8.2	µg/Kg-dry	1	10/26/13 13:25
Benzo(k)fluoranthene	U		1.7	8.2	µg/Kg-dry	1	10/26/13 13:25
Chrysene	U		1.9	8.2	µg/Kg-dry	1	10/26/13 13:25
Dibenzo(a,h)anthracene	U		3.0	8.2	µg/Kg-dry	1	10/26/13 13:25
Fluoranthene	U		2.9	8.2	µg/Kg-dry	1	10/26/13 13:25
Fluorene	U		2.7	8.2	µg/Kg-dry	1	10/26/13 13:25
Indeno(1,2,3-cd)pyrene	U		2.7	8.2	µg/Kg-dry	1	10/26/13 13:25
Naphthalene	U		3.0	8.2	µg/Kg-dry	1	10/26/13 13:25
Phenanthrene	U		1.6	8.2	µg/Kg-dry	1	10/26/13 13:25
Pyrene	U		2.8	8.2	µg/Kg-dry	1	10/26/13 13:25
Surr: 2-Fluorobiphenyl	77.6			12-100	%REC	1	10/26/13 13:25
Surr: 4-Terphenyl-d14	111			25-137	%REC	1	10/26/13 13:25
Surr: Nitrobenzene-d5	73.0			37-107	%REC	1	10/26/13 13:25

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: BG

BatchID: 52808

1,1,1-Trichloroethane	U		18	48	µg/Kg-dry	1	11/05/13 09:49
1,1,2,2-Tetrachloroethane	U		21	48	µg/Kg-dry	1	11/05/13 09:49
1,1,2-Trichloroethane	U		17	48	µg/Kg-dry	1	11/05/13 09:49
1,1,2-Trichlorotrifluoroethane	U		18	48	µg/Kg-dry	1	11/05/13 09:49
1,1-Dichloroethane	U		18	48	µg/Kg-dry	1	11/05/13 09:49
1,1-Dichloroethene	U		20	48	µg/Kg-dry	1	11/05/13 09:49
1,2,4-Trichlorobenzene	U		25	48	µg/Kg-dry	1	11/05/13 09:49
1,2-Dibromo-3-chloropropane	U		24	48	µg/Kg-dry	1	11/05/13 09:49
1,2-Dibromoethane	U		19	48	µg/Kg-dry	1	11/05/13 09:49
1,2-Dichlorobenzene	U		19	48	µg/Kg-dry	1	11/05/13 09:49
1,2-Dichloroethane	U		23	48	µg/Kg-dry	1	11/05/13 09:49
1,2-Dichloropropane	U		16	48	µg/Kg-dry	1	11/05/13 09:49
1,3-Dichlorobenzene	U		19	48	µg/Kg-dry	1	11/05/13 09:49
1,4-Dichlorobenzene	U		18	48	µg/Kg-dry	1	11/05/13 09:49
2-Butanone	U		120	320	µg/Kg-dry	1	11/05/13 09:49
2-Hexanone	U		12	48	µg/Kg-dry	1	11/05/13 09:49
4-Methyl-2-pentanone	U		16	48	µg/Kg-dry	1	11/05/13 09:49
Acetone	U		100	160	µg/Kg-dry	1	11/05/13 09:49
Benzene	U		19	48	µg/Kg-dry	1	11/05/13 09:49
Bromodichloromethane	U		11	48	µg/Kg-dry	1	11/05/13 09:49

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-037
Collection Date: 10/22/13 11:35 AM

Work Order: 13101246
Lab ID: 13101246-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		9.6	48	µg/Kg-dry	1	11/05/13 09:49
Bromomethane	U		19	120	µg/Kg-dry	1	11/05/13 09:49
Carbon disulfide	U		24	48	µg/Kg-dry	1	11/05/13 09:49
Carbon tetrachloride	U		14	48	µg/Kg-dry	1	11/05/13 09:49
Chlorobenzene	U		20	48	µg/Kg-dry	1	11/05/13 09:49
Chloroethane	U		100	160	µg/Kg-dry	1	11/05/13 09:49
Chloroform	U		20	48	µg/Kg-dry	1	11/05/13 09:49
Chloromethane	U		27	160	µg/Kg-dry	1	11/05/13 09:49
cis-1,2-Dichloroethene	U		20	48	µg/Kg-dry	1	11/05/13 09:49
cis-1,3-Dichloropropene	U		17	48	µg/Kg-dry	1	11/05/13 09:49
Cyclohexane	U		22	48	µg/Kg-dry	1	11/05/13 09:49
Dibromochloromethane	U		9.0	48	µg/Kg-dry	1	11/05/13 09:49
Dichlorodifluoromethane	U		22	48	µg/Kg-dry	1	11/05/13 09:49
Ethylbenzene	U		18	48	µg/Kg-dry	1	11/05/13 09:49
Isopropylbenzene	U		21	48	µg/Kg-dry	1	11/05/13 09:49
Methyl acetate	U		65	320	µg/Kg-dry	1	11/05/13 09:49
Methyl tert-butyl ether	U		21	48	µg/Kg-dry	1	11/05/13 09:49
Methylcyclohexane	U		22	48	µg/Kg-dry	1	11/05/13 09:49
Methylene chloride	U		19	48	µg/Kg-dry	1	11/05/13 09:49
Styrene	U		18	48	µg/Kg-dry	1	11/05/13 09:49
Tetrachloroethene	U		22	48	µg/Kg-dry	1	11/05/13 09:49
Toluene	U		18	48	µg/Kg-dry	1	11/05/13 09:49
trans-1,2-Dichloroethene	U		15	48	µg/Kg-dry	1	11/05/13 09:49
trans-1,3-Dichloropropene	U		16	48	µg/Kg-dry	1	11/05/13 09:49
Trichloroethene	U		23	48	µg/Kg-dry	1	11/05/13 09:49
Trichlorofluoromethane	U		13	48	µg/Kg-dry	1	11/05/13 09:49
Vinyl chloride	U		22	48	µg/Kg-dry	1	11/05/13 09:49
Xylenes, Total	U		57	150	µg/Kg-dry	1	11/05/13 09:49
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	11/05/13 09:49
Surr: 4-Bromofluorobenzene	96.8			70-130	%REC	1	11/05/13 09:49
Surr: Dibromofluoromethane	92.2			70-130	%REC	1	11/05/13 09:49
Surr: Toluene-d8	98.8			70-130	%REC	1	11/05/13 09:49

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	20	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-038
Collection Date: 10/22/13 11:40 AM

Work Order: 13101246
Lab ID: 13101246-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		56	98	µg/Kg-dry	1	10/28/13 23:55
Aroclor 1221	U		56	98	µg/Kg-dry	1	10/28/13 23:55
Aroclor 1232	U		56	98	µg/Kg-dry	1	10/28/13 23:55
Aroclor 1242	U		56	98	µg/Kg-dry	1	10/28/13 23:55
Aroclor 1248	U		56	98	µg/Kg-dry	1	10/28/13 23:55
Aroclor 1254	U		36	98	µg/Kg-dry	1	10/28/13 23:55
Aroclor 1260	U		36	98	µg/Kg-dry	1	10/28/13 23:55
Surr: Decachlorobiphenyl	80.1			40-140	%REC	1	10/28/13 23:55
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.028	J	0.00089	0.045	mg/Kg-dry	1	10/30/13 15:11
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.066	J	0.0015	0.37	mg/Kg-dry	1	10/30/13 20:55
Arsenic	0.75		0.050	0.37	mg/Kg-dry	1	10/30/13 20:55
Barium	32		0.010	0.37	mg/Kg-dry	1	10/30/13 20:55
Beryllium	0.10	J	0.0030	0.15	mg/Kg-dry	1	10/30/13 20:55
Cadmium	0.26		0.0015	0.15	mg/Kg-dry	1	10/30/13 20:55
Chromium	3.9		0.061	0.37	mg/Kg-dry	1	10/30/13 20:55
Cobalt	0.65		0.0015	0.37	mg/Kg-dry	1	10/30/13 20:55
Copper	3.4		0.073	0.37	mg/Kg-dry	1	10/30/13 20:55
Iron	2,000		1.2	5.9	mg/Kg-dry	1	10/30/13 20:55
Lead	4.0		0.0015	0.37	mg/Kg-dry	1	10/30/13 20:55
Manganese	23		0.033	0.37	mg/Kg-dry	1	10/30/13 20:55
Molybdenum	0.21	J	0.016	0.37	mg/Kg-dry	1	10/30/13 20:55
Nickel	3.1		0.037	0.37	mg/Kg-dry	1	10/30/13 20:55
Selenium	0.48		0.048	0.37	mg/Kg-dry	1	10/30/13 20:55
Silver	0.028	J	0.0015	0.37	mg/Kg-dry	1	10/30/13 20:55
Thallium	0.067	J	0.0089	0.37	mg/Kg-dry	1	10/30/13 20:55
Vanadium	6.7		0.022	0.37	mg/Kg-dry	1	10/30/13 20:55
Zinc	6.5		0.031	0.74	mg/Kg-dry	1	10/30/13 20:55
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	38		3.2	7.8	µg/Kg-dry	1	10/26/13 14:33
Acenaphthene	U		1.2	7.8	µg/Kg-dry	1	10/26/13 14:33
Acenaphthylene	U		1.4	7.8	µg/Kg-dry	1	10/26/13 14:33

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-038
Collection Date: 10/22/13 11:40 AM

Work Order: 13101246
Lab ID: 13101246-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.5	7.8	µg/Kg-dry	1	10/26/13 14:33
Benzo(a)anthracene	38		1.5	7.8	µg/Kg-dry	1	10/26/13 14:33
Benzo(a)pyrene	U		2.5	7.8	µg/Kg-dry	1	10/26/13 14:33
Benzo(b)fluoranthene	19		2.3	7.8	µg/Kg-dry	1	10/26/13 14:33
Benzo(g,h,i)perylene	35		3.1	7.8	µg/Kg-dry	1	10/26/13 14:33
Benzo(k)fluoranthene	U		1.6	7.8	µg/Kg-dry	1	10/26/13 14:33
Chrysene	23		1.8	7.8	µg/Kg-dry	1	10/26/13 14:33
Dibenzo(a,h)anthracene	U		2.9	7.8	µg/Kg-dry	1	10/26/13 14:33
Fluoranthene	33		2.7	7.8	µg/Kg-dry	1	10/26/13 14:33
Fluorene	U		2.6	7.8	µg/Kg-dry	1	10/26/13 14:33
Indeno(1,2,3-cd)pyrene	U		2.6	7.8	µg/Kg-dry	1	10/26/13 14:33
Naphthalene	U		2.9	7.8	µg/Kg-dry	1	10/26/13 14:33
Phenanthrene	40		1.6	7.8	µg/Kg-dry	1	10/26/13 14:33
Pyrene	26		2.6	7.8	µg/Kg-dry	1	10/26/13 14:33
Surr: 2-Fluorobiphenyl	75.6			12-100	%REC	1	10/26/13 14:33
Surr: 4-Terphenyl-d14	109			25-137	%REC	1	10/26/13 14:33
Surr: Nitrobenzene-d5	72.0			37-107	%REC	1	10/26/13 14:33

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: BG

BatchID: 52808

1,1,1-Trichloroethane	U		15	39	µg/Kg-dry	1	11/05/13 10:14
1,1,2,2-Tetrachloroethane	U		17	39	µg/Kg-dry	1	11/05/13 10:14
1,1,2-Trichloroethane	U		14	39	µg/Kg-dry	1	11/05/13 10:14
1,1,2-Trichlorotrifluoroethane	U		15	39	µg/Kg-dry	1	11/05/13 10:14
1,1-Dichloroethane	U		14	39	µg/Kg-dry	1	11/05/13 10:14
1,1-Dichloroethene	U		16	39	µg/Kg-dry	1	11/05/13 10:14
1,2,4-Trichlorobenzene	U		20	39	µg/Kg-dry	1	11/05/13 10:14
1,2-Dibromo-3-chloropropane	U		19	39	µg/Kg-dry	1	11/05/13 10:14
1,2-Dibromoethane	U		15	39	µg/Kg-dry	1	11/05/13 10:14
1,2-Dichlorobenzene	U		16	39	µg/Kg-dry	1	11/05/13 10:14
1,2-Dichloroethane	U		19	39	µg/Kg-dry	1	11/05/13 10:14
1,2-Dichloropropane	U		13	39	µg/Kg-dry	1	11/05/13 10:14
1,3-Dichlorobenzene	U		16	39	µg/Kg-dry	1	11/05/13 10:14
1,4-Dichlorobenzene	U		15	39	µg/Kg-dry	1	11/05/13 10:14
2-Butanone	U		97	260	µg/Kg-dry	1	11/05/13 10:14
2-Hexanone	U		9.6	39	µg/Kg-dry	1	11/05/13 10:14
4-Methyl-2-pentanone	U		13	39	µg/Kg-dry	1	11/05/13 10:14
Acetone	U		83	130	µg/Kg-dry	1	11/05/13 10:14
Benzene	U		16	39	µg/Kg-dry	1	11/05/13 10:14
Bromodichloromethane	U		8.8	39	µg/Kg-dry	1	11/05/13 10:14

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-038
Collection Date: 10/22/13 11:40 AM

Work Order: 13101246
Lab ID: 13101246-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		7.7	39	µg/Kg-dry	1	11/05/13 10:14
Bromomethane	U		15	98	µg/Kg-dry	1	11/05/13 10:14
Carbon disulfide	U		19	39	µg/Kg-dry	1	11/05/13 10:14
Carbon tetrachloride	U		11	39	µg/Kg-dry	1	11/05/13 10:14
Chlorobenzene	U		16	39	µg/Kg-dry	1	11/05/13 10:14
Chloroethane	U		83	130	µg/Kg-dry	1	11/05/13 10:14
Chloroform	U		16	39	µg/Kg-dry	1	11/05/13 10:14
Chloromethane	U		22	130	µg/Kg-dry	1	11/05/13 10:14
cis-1,2-Dichloroethene	U		16	39	µg/Kg-dry	1	11/05/13 10:14
cis-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	11/05/13 10:14
Cyclohexane	U		18	39	µg/Kg-dry	1	11/05/13 10:14
Dibromochloromethane	U		7.3	39	µg/Kg-dry	1	11/05/13 10:14
Dichlorodifluoromethane	U		18	39	µg/Kg-dry	1	11/05/13 10:14
Ethylbenzene	U		15	39	µg/Kg-dry	1	11/05/13 10:14
Isopropylbenzene	U		17	39	µg/Kg-dry	1	11/05/13 10:14
Methyl acetate	U		53	260	µg/Kg-dry	1	11/05/13 10:14
Methyl tert-butyl ether	U		17	39	µg/Kg-dry	1	11/05/13 10:14
Methylcyclohexane	U		18	39	µg/Kg-dry	1	11/05/13 10:14
Methylene chloride	U		15	39	µg/Kg-dry	1	11/05/13 10:14
Styrene	U		15	39	µg/Kg-dry	1	11/05/13 10:14
Tetrachloroethene	U		17	39	µg/Kg-dry	1	11/05/13 10:14
Toluene	U		15	39	µg/Kg-dry	1	11/05/13 10:14
trans-1,2-Dichloroethene	U		12	39	µg/Kg-dry	1	11/05/13 10:14
trans-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	11/05/13 10:14
Trichloroethene	U		18	39	µg/Kg-dry	1	11/05/13 10:14
Trichlorofluoromethane	U		11	39	µg/Kg-dry	1	11/05/13 10:14
Vinyl chloride	U		18	39	µg/Kg-dry	1	11/05/13 10:14
Xylenes, Total	U		46	120	µg/Kg-dry	1	11/05/13 10:14
Surr: 1,2-Dichloroethane-d4	98.0			70-130	%REC	1	11/05/13 10:14
Surr: 4-Bromofluorobenzene	96.8			70-130	%REC	1	11/05/13 10:14
Surr: Dibromofluoromethane	92.2			70-130	%REC	1	11/05/13 10:14
Surr: Toluene-d8	98.3			70-130	%REC	1	11/05/13 10:14

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	15	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-039
Collection Date: 10/22/13 11:45 AM

Work Order: 13101246
Lab ID: 13101246-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 10/27/13		Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		37	350	µg/Kg-dry	1	10/29/13 00:12
Aroclor 1221	U		37	350	µg/Kg-dry	1	10/29/13 00:12
Aroclor 1232	U		37	350	µg/Kg-dry	1	10/29/13 00:12
Aroclor 1242	U		37	350	µg/Kg-dry	1	10/29/13 00:12
Aroclor 1248	U		37	350	µg/Kg-dry	1	10/29/13 00:12
Aroclor 1254	U		12	350	µg/Kg-dry	1	10/29/13 00:12
Aroclor 1260	U		12	350	µg/Kg-dry	1	10/29/13 00:12
Surr: Decachlorobiphenyl	80.1			40-140	%REC	1	10/29/13 00:12
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 10/28/13		Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.038	J	0.00077	0.039	mg/Kg-dry	1	10/30/13 15:28
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 10/28/13		Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.069	J	0.0015	0.37	mg/Kg-dry	1	10/30/13 21:01
Arsenic	1.5		0.051	0.37	mg/Kg-dry	1	10/30/13 21:01
Barium	11		0.010	0.37	mg/Kg-dry	1	10/30/13 21:01
Beryllium	0.16		0.0030	0.15	mg/Kg-dry	1	10/30/13 21:01
Cadmium	0.048	J	0.0015	0.15	mg/Kg-dry	1	10/30/13 21:01
Chromium	4.8		0.061	0.37	mg/Kg-dry	1	10/30/13 21:01
Cobalt	2.0		0.0015	0.37	mg/Kg-dry	1	10/30/13 21:01
Copper	6.5		0.073	0.37	mg/Kg-dry	1	10/30/13 21:01
Iron	3,700		1.2	6.0	mg/Kg-dry	1	10/30/13 21:01
Lead	2.1		0.0015	0.37	mg/Kg-dry	1	10/30/13 21:01
Manganese	26		0.033	0.37	mg/Kg-dry	1	10/30/13 21:01
Molybdenum	0.53		0.016	0.37	mg/Kg-dry	1	10/30/13 21:01
Nickel	3.8		0.037	0.37	mg/Kg-dry	1	10/30/13 21:01
Selenium	0.42		0.048	0.37	mg/Kg-dry	1	10/30/13 21:01
Silver	0.018	J	0.0015	0.37	mg/Kg-dry	1	10/30/13 21:01
Thallium	0.064	J	0.0089	0.37	mg/Kg-dry	1	10/30/13 21:01
Vanadium	10		0.022	0.37	mg/Kg-dry	1	10/30/13 21:01
Zinc	8.3		0.031	0.74	mg/Kg-dry	1	10/30/13 21:01
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		3.0	7.1	µg/Kg-dry	1	10/25/13 23:26
Acenaphthene	U		1.1	7.1	µg/Kg-dry	1	10/25/13 23:26
Acenaphthylene	U		1.3	7.1	µg/Kg-dry	1	10/25/13 23:26

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-039
Collection Date: 10/22/13 11:45 AM

Work Order: 13101246
Lab ID: 13101246-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.4	7.1	µg/Kg-dry	1	10/25/13 23:26
Benzo(a)anthracene	U		1.4	7.1	µg/Kg-dry	1	10/25/13 23:26
Benzo(a)pyrene	U		2.3	7.1	µg/Kg-dry	1	10/25/13 23:26
Benzo(b)fluoranthene	U		2.1	7.1	µg/Kg-dry	1	10/25/13 23:26
Benzo(g,h,i)perylene	31		2.8	7.1	µg/Kg-dry	1	10/25/13 23:26
Benzo(k)fluoranthene	U		1.5	7.1	µg/Kg-dry	1	10/25/13 23:26
Chrysene	U		1.7	7.1	µg/Kg-dry	1	10/25/13 23:26
Dibenzo(a,h)anthracene	U		2.7	7.1	µg/Kg-dry	1	10/25/13 23:26
Fluoranthene	U		2.5	7.1	µg/Kg-dry	1	10/25/13 23:26
Fluorene	U		2.4	7.1	µg/Kg-dry	1	10/25/13 23:26
Indeno(1,2,3-cd)pyrene	U		2.4	7.1	µg/Kg-dry	1	10/25/13 23:26
Naphthalene	U		2.6	7.1	µg/Kg-dry	1	10/25/13 23:26
Phenanthrene	U		1.4	7.1	µg/Kg-dry	1	10/25/13 23:26
Pyrene	U		2.4	7.1	µg/Kg-dry	1	10/25/13 23:26
Surr: 2-Fluorobiphenyl	80.6			12-100	%REC	1	10/25/13 23:26
Surr: 4-Terphenyl-d14	115			25-137	%REC	1	10/25/13 23:26
Surr: Nitrobenzene-d5	76.5			37-107	%REC	1	10/25/13 23:26
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 11/1/13		Analyst: BG	
<u>BatchID: 52888</u>							
1,1,1-Trichloroethane	U		16	43	µg/Kg-dry	1	11/05/13 10:38
1,1,2,2-Tetrachloroethane	U		19	43	µg/Kg-dry	1	11/05/13 10:38
1,1,2-Trichloroethane	U		15	43	µg/Kg-dry	1	11/05/13 10:38
1,1,2-Trichlorotrifluoroethane	U		16	43	µg/Kg-dry	1	11/05/13 10:38
1,1-Dichloroethane	U		16	43	µg/Kg-dry	1	11/05/13 10:38
1,1-Dichloroethene	U		18	43	µg/Kg-dry	1	11/05/13 10:38
1,2,4-Trichlorobenzene	U		22	43	µg/Kg-dry	1	11/05/13 10:38
1,2-Dibromo-3-chloropropane	U		21	43	µg/Kg-dry	1	11/05/13 10:38
1,2-Dibromoethane	U		17	43	µg/Kg-dry	1	11/05/13 10:38
1,2-Dichlorobenzene	U		17	43	µg/Kg-dry	1	11/05/13 10:38
1,2-Dichloroethane	U		21	43	µg/Kg-dry	1	11/05/13 10:38
1,2-Dichloropropane	U		14	43	µg/Kg-dry	1	11/05/13 10:38
1,3-Dichlorobenzene	U		17	43	µg/Kg-dry	1	11/05/13 10:38
1,4-Dichlorobenzene	U		16	43	µg/Kg-dry	1	11/05/13 10:38
2-Butanone	U		110	290	µg/Kg-dry	1	11/05/13 10:38
2-Hexanone	U		11	43	µg/Kg-dry	1	11/05/13 10:38
4-Methyl-2-pentanone	U		15	43	µg/Kg-dry	1	11/05/13 10:38
Acetone	U		92	140	µg/Kg-dry	1	11/05/13 10:38
Benzene	U		17	43	µg/Kg-dry	1	11/05/13 10:38
Bromodichloromethane	U		9.7	43	µg/Kg-dry	1	11/05/13 10:38

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-039
Collection Date: 10/22/13 11:45 AM

Work Order: 13101246
Lab ID: 13101246-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		8.5	43	µg/Kg-dry	1	11/05/13 10:38
Bromomethane	U		17	110	µg/Kg-dry	1	11/05/13 10:38
Carbon disulfide	U		21	43	µg/Kg-dry	1	11/05/13 10:38
Carbon tetrachloride	U		12	43	µg/Kg-dry	1	11/05/13 10:38
Chlorobenzene	U		18	43	µg/Kg-dry	1	11/05/13 10:38
Chloroethane	U		92	140	µg/Kg-dry	1	11/05/13 10:38
Chloroform	U		18	43	µg/Kg-dry	1	11/05/13 10:38
Chloromethane	U		24	140	µg/Kg-dry	1	11/05/13 10:38
cis-1,2-Dichloroethene	U		18	43	µg/Kg-dry	1	11/05/13 10:38
cis-1,3-Dichloropropene	U		15	43	µg/Kg-dry	1	11/05/13 10:38
Cyclohexane	U		19	43	µg/Kg-dry	1	11/05/13 10:38
Dibromochloromethane	U		8.0	43	µg/Kg-dry	1	11/05/13 10:38
Dichlorodifluoromethane	U		20	43	µg/Kg-dry	1	11/05/13 10:38
Ethylbenzene	U		16	43	µg/Kg-dry	1	11/05/13 10:38
Isopropylbenzene	U		19	43	µg/Kg-dry	1	11/05/13 10:38
Methyl acetate	U		58	290	µg/Kg-dry	1	11/05/13 10:38
Methyl tert-butyl ether	U		18	43	µg/Kg-dry	1	11/05/13 10:38
Methylcyclohexane	U		20	43	µg/Kg-dry	1	11/05/13 10:38
Methylene chloride	U		17	43	µg/Kg-dry	1	11/05/13 10:38
Styrene	U		16	43	µg/Kg-dry	1	11/05/13 10:38
Tetrachloroethene	U		19	43	µg/Kg-dry	1	11/05/13 10:38
Toluene	U		16	43	µg/Kg-dry	1	11/05/13 10:38
trans-1,2-Dichloroethene	U		13	43	µg/Kg-dry	1	11/05/13 10:38
trans-1,3-Dichloropropene	U		14	43	µg/Kg-dry	1	11/05/13 10:38
Trichloroethene	U		20	43	µg/Kg-dry	1	11/05/13 10:38
Trichlorofluoromethane	U		12	43	µg/Kg-dry	1	11/05/13 10:38
Vinyl chloride	U		20	43	µg/Kg-dry	1	11/05/13 10:38
Xylenes, Total	U		51	130	µg/Kg-dry	1	11/05/13 10:38
Surr: 1,2-Dichloroethane-d4	96.7			70-130	%REC	1	11/05/13 10:38
Surr: 4-Bromofluorobenzene	96.0			70-130	%REC	1	11/05/13 10:38
Surr: Dibromofluoromethane	90.8			70-130	%REC	1	11/05/13 10:38
Surr: Toluene-d8	97.5			70-130	%REC	1	11/05/13 10:38

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	8.5	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-040
Collection Date: 10/22/13 01:05 PM

Work Order: 13101246
Lab ID: 13101246-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		53	93	µg/Kg-dry	1	10/29/13 01:00
Aroclor 1221	U		53	93	µg/Kg-dry	1	10/29/13 01:00
Aroclor 1232	U		53	93	µg/Kg-dry	1	10/29/13 01:00
Aroclor 1242	U		53	93	µg/Kg-dry	1	10/29/13 01:00
Aroclor 1248	U		53	93	µg/Kg-dry	1	10/29/13 01:00
Aroclor 1254	U		34	93	µg/Kg-dry	1	10/29/13 01:00
Aroclor 1260	U		34	93	µg/Kg-dry	1	10/29/13 01:00
Surr: Decachlorobiphenyl	64.1			40-140	%REC	1	10/29/13 01:00
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.023	J	0.00094	0.047	mg/Kg-dry	1	10/30/13 15:20
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.56		0.0017	0.42	mg/Kg-dry	1	10/30/13 21:19
Arsenic	4.7		0.057	0.42	mg/Kg-dry	1	10/30/13 21:19
Barium	82		0.012	0.42	mg/Kg-dry	1	10/30/13 21:19
Beryllium	0.29		0.0033	0.17	mg/Kg-dry	1	10/30/13 21:19
Cadmium	0.53		0.0017	0.17	mg/Kg-dry	1	10/30/13 21:19
Chromium	4.9		0.069	0.42	mg/Kg-dry	1	10/30/13 21:19
Cobalt	2.5		0.0017	0.42	mg/Kg-dry	1	10/30/13 21:19
Copper	31		0.082	0.42	mg/Kg-dry	1	10/30/13 21:19
Iron	4,300		1.4	6.7	mg/Kg-dry	1	10/30/13 21:19
Lead	37		0.0017	0.42	mg/Kg-dry	1	10/30/13 21:19
Manganese	41		0.037	0.42	mg/Kg-dry	1	10/30/13 21:19
Molybdenum	1.1		0.018	0.42	mg/Kg-dry	1	10/30/13 21:19
Nickel	7.9		0.042	0.42	mg/Kg-dry	1	10/30/13 21:19
Selenium	0.41	J	0.054	0.42	mg/Kg-dry	1	10/30/13 21:19
Silver	0.093	J	0.0017	0.42	mg/Kg-dry	1	10/30/13 21:19
Thallium	0.094	J	0.010	0.42	mg/Kg-dry	1	10/30/13 21:19
Vanadium	5.1		0.025	0.42	mg/Kg-dry	1	10/30/13 21:19
Zinc	37		0.035	0.84	mg/Kg-dry	1	10/30/13 21:19
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	94		3.2	7.7	µg/Kg-dry	1	10/26/13 18:42
Acenaphthene	U		1.1	7.7	µg/Kg-dry	1	10/26/13 18:42
Acenaphthylene	20		1.4	7.7	µg/Kg-dry	1	10/26/13 18:42

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-040
Collection Date: 10/22/13 01:05 PM

Work Order: 13101246
Lab ID: 13101246-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	75		1.5	7.7	µg/Kg-dry	1	10/26/13 18:42
Benzo(a)anthracene	340		1.5	7.7	µg/Kg-dry	1	10/26/13 18:42
Benzo(a)pyrene	370		2.5	7.7	µg/Kg-dry	1	10/26/13 18:42
Benzo(b)fluoranthene	540		2.2	7.7	µg/Kg-dry	1	10/26/13 18:42
Benzo(g,h,i)perylene	280		3.0	7.7	µg/Kg-dry	1	10/26/13 18:42
Benzo(k)fluoranthene	330		1.6	7.7	µg/Kg-dry	1	10/26/13 18:42
Chrysene	490		1.8	7.7	µg/Kg-dry	1	10/26/13 18:42
Dibenzo(a,h)anthracene	82		2.8	7.7	µg/Kg-dry	1	10/26/13 18:42
Fluoranthene	590		2.7	7.7	µg/Kg-dry	1	10/26/13 18:42
Fluorene	20		2.6	7.7	µg/Kg-dry	1	10/26/13 18:42
Indeno(1,2,3-cd)pyrene	240		2.5	7.7	µg/Kg-dry	1	10/26/13 18:42
Naphthalene	58		2.8	7.7	µg/Kg-dry	1	10/26/13 18:42
Phenanthrene	380		1.5	7.7	µg/Kg-dry	1	10/26/13 18:42
Pyrene	540		2.6	7.7	µg/Kg-dry	1	10/26/13 18:42
Surr: 2-Fluorobiphenyl	80.4			12-100	%REC	1	10/26/13 18:42
Surr: 4-Terphenyl-d14	114			25-137	%REC	1	10/26/13 18:42
Surr: Nitrobenzene-d5	73.5			37-107	%REC	1	10/26/13 18:42

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U		17	44	µg/Kg-dry	1	11/05/13 02:11
1,1,2,2-Tetrachloroethane	U		19	44	µg/Kg-dry	1	11/05/13 02:11
1,1,2-Trichloroethane	U		16	44	µg/Kg-dry	1	11/05/13 02:11
1,1,2-Trichlorotrifluoroethane	U		16	44	µg/Kg-dry	1	11/05/13 02:11
1,1-Dichloroethane	U		16	44	µg/Kg-dry	1	11/05/13 02:11
1,1-Dichloroethene	U		19	44	µg/Kg-dry	1	11/05/13 02:11
1,2,4-Trichlorobenzene	U		23	44	µg/Kg-dry	1	11/05/13 02:11
1,2-Dibromo-3-chloropropane	U		21	44	µg/Kg-dry	1	11/05/13 02:11
1,2-Dibromoethane	U		17	44	µg/Kg-dry	1	11/05/13 02:11
1,2-Dichlorobenzene	U		18	44	µg/Kg-dry	1	11/05/13 02:11
1,2-Dichloroethane	U		21	44	µg/Kg-dry	1	11/05/13 02:11
1,2-Dichloropropane	U		15	44	µg/Kg-dry	1	11/05/13 02:11
1,3-Dichlorobenzene	U		18	44	µg/Kg-dry	1	11/05/13 02:11
1,4-Dichlorobenzene	U		17	44	µg/Kg-dry	1	11/05/13 02:11
2-Butanone	120	J	110	290	µg/Kg-dry	1	11/05/13 02:11
2-Hexanone	U		11	44	µg/Kg-dry	1	11/05/13 02:11
4-Methyl-2-pentanone	U		15	44	µg/Kg-dry	1	11/05/13 02:11
Acetone	U		93	150	µg/Kg-dry	1	11/05/13 02:11
Benzene	U		18	44	µg/Kg-dry	1	11/05/13 02:11
Bromodichloromethane	U		9.9	44	µg/Kg-dry	1	11/05/13 02:11

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-040
Collection Date: 10/22/13 01:05 PM

Work Order: 13101246
Lab ID: 13101246-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		8.7	44	µg/Kg-dry	1	11/05/13 02:11
Bromomethane	U		17	110	µg/Kg-dry	1	11/05/13 02:11
Carbon disulfide	U		22	44	µg/Kg-dry	1	11/05/13 02:11
Carbon tetrachloride	U		13	44	µg/Kg-dry	1	11/05/13 02:11
Chlorobenzene	U		18	44	µg/Kg-dry	1	11/05/13 02:11
Chloroethane	U		94	150	µg/Kg-dry	1	11/05/13 02:11
Chloroform	U		18	44	µg/Kg-dry	1	11/05/13 02:11
Chloromethane	U		25	150	µg/Kg-dry	1	11/05/13 02:11
cis-1,2-Dichloroethene	U		18	44	µg/Kg-dry	1	11/05/13 02:11
cis-1,3-Dichloropropene	U		15	44	µg/Kg-dry	1	11/05/13 02:11
Cyclohexane	U		20	44	µg/Kg-dry	1	11/05/13 02:11
Dibromochloromethane	U		8.2	44	µg/Kg-dry	1	11/05/13 02:11
Dichlorodifluoromethane	U		20	44	µg/Kg-dry	1	11/05/13 02:11
Ethylbenzene	U		16	44	µg/Kg-dry	1	11/05/13 02:11
Isopropylbenzene	U		19	44	µg/Kg-dry	1	11/05/13 02:11
Methyl acetate	130	J	59	290	µg/Kg-dry	1	11/05/13 02:11
Methyl tert-butyl ether	U		19	44	µg/Kg-dry	1	11/05/13 02:11
Methylcyclohexane	110		20	44	µg/Kg-dry	1	11/05/13 02:11
Methylene chloride	U		17	44	µg/Kg-dry	1	11/05/13 02:11
Styrene	U		16	44	µg/Kg-dry	1	11/05/13 02:11
Tetrachloroethene	U		20	44	µg/Kg-dry	1	11/05/13 02:11
Toluene	U		17	44	µg/Kg-dry	1	11/05/13 02:11
trans-1,2-Dichloroethene	U		14	44	µg/Kg-dry	1	11/05/13 02:11
trans-1,3-Dichloropropene	U		15	44	µg/Kg-dry	1	11/05/13 02:11
Trichloroethene	U		21	44	µg/Kg-dry	1	11/05/13 02:11
Trichlorofluoromethane	U		12	44	µg/Kg-dry	1	11/05/13 02:11
Vinyl chloride	U		20	44	µg/Kg-dry	1	11/05/13 02:11
Xylenes, Total	U		52	130	µg/Kg-dry	1	11/05/13 02:11
Surr: 1,2-Dichloroethane-d4	88.6			70-130	%REC	1	11/05/13 02:11
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	11/05/13 02:11
Surr: Dibromofluoromethane	91.8			70-130	%REC	1	11/05/13 02:11
Surr: Toluene-d8	92.8			70-130	%REC	1	11/05/13 02:11

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	14	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-041
Collection Date: 10/22/13 01:10 PM

Work Order: 13101246
Lab ID: 13101246-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		52	91	µg/Kg-dry	1	10/29/13 01:17
Aroclor 1221	U		52	91	µg/Kg-dry	1	10/29/13 01:17
Aroclor 1232	U		52	91	µg/Kg-dry	1	10/29/13 01:17
Aroclor 1242	U		52	91	µg/Kg-dry	1	10/29/13 01:17
Aroclor 1248	U		52	91	µg/Kg-dry	1	10/29/13 01:17
Aroclor 1254	U		33	91	µg/Kg-dry	1	10/29/13 01:17
Aroclor 1260	U		33	91	µg/Kg-dry	1	10/29/13 01:17
Surr: Decachlorobiphenyl	63.1			40-140	%REC	1	10/29/13 01:17
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52718</u>							
Mercury	0.0099	J	0.00083	0.041	mg/Kg-dry	1	10/30/13 15:22
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.65	J	0.0084	2.1	mg/Kg-dry	5	10/30/13 06:59
Arsenic	2.7		0.28	2.1	mg/Kg-dry	5	10/30/13 06:59
Barium	100		0.059	2.1	mg/Kg-dry	5	10/30/13 06:59
Beryllium	0.21	J	0.017	0.84	mg/Kg-dry	5	10/30/13 06:59
Cadmium	0.48	J	0.0084	0.84	mg/Kg-dry	5	10/30/13 06:59
Chromium	11		0.34	2.1	mg/Kg-dry	5	10/30/13 06:59
Cobalt	2.5		0.0084	2.1	mg/Kg-dry	5	10/30/13 06:59
Copper	16		0.41	2.1	mg/Kg-dry	5	10/30/13 06:59
Iron	7,100		7.0	34	mg/Kg-dry	5	10/30/13 06:59
Lead	100		0.0084	2.1	mg/Kg-dry	5	10/30/13 06:59
Manganese	140		0.18	2.1	mg/Kg-dry	5	10/30/13 06:59
Molybdenum	0.93	J	0.092	2.1	mg/Kg-dry	5	10/30/13 06:59
Nickel	9.6		0.21	2.1	mg/Kg-dry	5	10/30/13 06:59
Selenium	U		0.27	2.1	mg/Kg-dry	5	10/30/13 06:59
Silver	0.039	J	0.0084	2.1	mg/Kg-dry	5	10/30/13 06:59
Thallium	U		0.050	2.1	mg/Kg-dry	5	10/30/13 06:59
Vanadium	8.9		0.13	2.1	mg/Kg-dry	5	10/30/13 06:59
Zinc	640		0.18	4.2	mg/Kg-dry	5	10/30/13 06:59
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	46		3.1	7.5	µg/Kg-dry	1	10/26/13 15:19
Acenaphthene	U		1.1	7.5	µg/Kg-dry	1	10/26/13 15:19
Acenaphthylene	U		1.4	7.5	µg/Kg-dry	1	10/26/13 15:19

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-041
Collection Date: 10/22/13 01:10 PM

Work Order: 13101246
Lab ID: 13101246-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	110		1.5	7.5	µg/Kg-dry	1	10/26/13 15:19
Benzo(a)anthracene	410		1.5	7.5	µg/Kg-dry	1	10/26/13 15:19
Benzo(a)pyrene	420		2.4	7.5	µg/Kg-dry	1	10/26/13 15:19
Benzo(b)fluoranthene	460		2.2	7.5	µg/Kg-dry	1	10/26/13 15:19
Benzo(g,h,i)perylene	300		2.9	7.5	µg/Kg-dry	1	10/26/13 15:19
Benzo(k)fluoranthene	410		1.6	7.5	µg/Kg-dry	1	10/26/13 15:19
Chrysene	500		1.8	7.5	µg/Kg-dry	1	10/26/13 15:19
Dibenzo(a,h)anthracene	87		2.8	7.5	µg/Kg-dry	1	10/26/13 15:19
Fluoranthene	790		2.6	7.5	µg/Kg-dry	1	10/26/13 15:19
Fluorene	60		2.5	7.5	µg/Kg-dry	1	10/26/13 15:19
Indeno(1,2,3-cd)pyrene	250		2.5	7.5	µg/Kg-dry	1	10/26/13 15:19
Naphthalene	24		2.7	7.5	µg/Kg-dry	1	10/26/13 15:19
Phenanthrene	570		1.5	7.5	µg/Kg-dry	1	10/26/13 15:19
Pyrene	720		2.5	7.5	µg/Kg-dry	1	10/26/13 15:19
Surr: 2-Fluorobiphenyl	77.1			12-100	%REC	1	10/26/13 15:19
Surr: 4-Terphenyl-d14	113			25-137	%REC	1	10/26/13 15:19
Surr: Nitrobenzene-d5	75.1			37-107	%REC	1	10/26/13 15:19

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 10/30/13

Analyst: AK

BatchID: 52808

1,1,1-Trichloroethane	U		21	55	µg/Kg-dry	1	11/05/13 02:35
1,1,2,2-Tetrachloroethane	U		24	55	µg/Kg-dry	1	11/05/13 02:35
1,1,2-Trichloroethane	U		20	55	µg/Kg-dry	1	11/05/13 02:35
1,1,2-Trichlorotrifluoroethane	U		20	55	µg/Kg-dry	1	11/05/13 02:35
1,1-Dichloroethane	U		20	55	µg/Kg-dry	1	11/05/13 02:35
1,1-Dichloroethene	U		23	55	µg/Kg-dry	1	11/05/13 02:35
1,2,4-Trichlorobenzene	U		29	55	µg/Kg-dry	1	11/05/13 02:35
1,2-Dibromo-3-chloropropane	U		27	55	µg/Kg-dry	1	11/05/13 02:35
1,2-Dibromoethane	U		22	55	µg/Kg-dry	1	11/05/13 02:35
1,2-Dichlorobenzene	U		22	55	µg/Kg-dry	1	11/05/13 02:35
1,2-Dichloroethane	U		26	55	µg/Kg-dry	1	11/05/13 02:35
1,2-Dichloropropane	U		18	55	µg/Kg-dry	1	11/05/13 02:35
1,3-Dichlorobenzene	U		22	55	µg/Kg-dry	1	11/05/13 02:35
1,4-Dichlorobenzene	U		21	55	µg/Kg-dry	1	11/05/13 02:35
2-Butanone	160	J	140	370	µg/Kg-dry	1	11/05/13 02:35
2-Hexanone	U		14	55	µg/Kg-dry	1	11/05/13 02:35
4-Methyl-2-pentanone	U		19	55	µg/Kg-dry	1	11/05/13 02:35
Acetone	U		120	180	µg/Kg-dry	1	11/05/13 02:35
Benzene	U		22	55	µg/Kg-dry	1	11/05/13 02:35
Bromodichloromethane	U		12	55	µg/Kg-dry	1	11/05/13 02:35

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-041
Collection Date: 10/22/13 01:10 PM

Work Order: 13101246
Lab ID: 13101246-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		11	55	µg/Kg-dry	1	11/05/13 02:35
Bromomethane	U		21	140	µg/Kg-dry	1	11/05/13 02:35
Carbon disulfide	U		27	55	µg/Kg-dry	1	11/05/13 02:35
Carbon tetrachloride	U		16	55	µg/Kg-dry	1	11/05/13 02:35
Chlorobenzene	U		23	55	µg/Kg-dry	1	11/05/13 02:35
Chloroethane	U		120	180	µg/Kg-dry	1	11/05/13 02:35
Chloroform	U		23	55	µg/Kg-dry	1	11/05/13 02:35
Chloromethane	U		31	180	µg/Kg-dry	1	11/05/13 02:35
cis-1,2-Dichloroethene	U		22	55	µg/Kg-dry	1	11/05/13 02:35
cis-1,3-Dichloropropene	U		19	55	µg/Kg-dry	1	11/05/13 02:35
Cyclohexane	U		25	55	µg/Kg-dry	1	11/05/13 02:35
Dibromochloromethane	U		10	55	µg/Kg-dry	1	11/05/13 02:35
Dichlorodifluoromethane	U		25	55	µg/Kg-dry	1	11/05/13 02:35
Ethylbenzene	U		21	55	µg/Kg-dry	1	11/05/13 02:35
Isopropylbenzene	U		24	55	µg/Kg-dry	1	11/05/13 02:35
Methyl acetate	160	J	74	370	µg/Kg-dry	1	11/05/13 02:35
Methyl tert-butyl ether	U		23	55	µg/Kg-dry	1	11/05/13 02:35
Methylcyclohexane	87		26	55	µg/Kg-dry	1	11/05/13 02:35
Methylene chloride	U		22	55	µg/Kg-dry	1	11/05/13 02:35
Styrene	U		21	55	µg/Kg-dry	1	11/05/13 02:35
Tetrachloroethene	U		25	55	µg/Kg-dry	1	11/05/13 02:35
Toluene	U		21	55	µg/Kg-dry	1	11/05/13 02:35
trans-1,2-Dichloroethene	U		17	55	µg/Kg-dry	1	11/05/13 02:35
trans-1,3-Dichloropropene	U		19	55	µg/Kg-dry	1	11/05/13 02:35
Trichloroethene	U		26	55	µg/Kg-dry	1	11/05/13 02:35
Trichlorofluoromethane	U		15	55	µg/Kg-dry	1	11/05/13 02:35
Vinyl chloride	U		25	55	µg/Kg-dry	1	11/05/13 02:35
Xylenes, Total	U		65	170	µg/Kg-dry	1	11/05/13 02:35
Surr: 1,2-Dichloroethane-d4	89.0			70-130	%REC	1	11/05/13 02:35
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	11/05/13 02:35
Surr: Dibromofluoromethane	96.0			70-130	%REC	1	11/05/13 02:35
Surr: Toluene-d8	95.2			70-130	%REC	1	11/05/13 02:35
MOISTURE			A2540 G				Analyst: MEB
BatchID: R129320							
Moisture	11		0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-042
Collection Date: 10/22/13 01:15 PM

Work Order: 13101246
Lab ID: 13101246-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		49	87	µg/Kg-dry	1	10/29/13 01:33
Aroclor 1221	U		49	87	µg/Kg-dry	1	10/29/13 01:33
Aroclor 1232	U		49	87	µg/Kg-dry	1	10/29/13 01:33
Aroclor 1242	U		49	87	µg/Kg-dry	1	10/29/13 01:33
Aroclor 1248	U		49	87	µg/Kg-dry	1	10/29/13 01:33
Aroclor 1254	U		32	87	µg/Kg-dry	1	10/29/13 01:33
Aroclor 1260	U		32	87	µg/Kg-dry	1	10/29/13 01:33
Surr: Decachlorobiphenyl	76.1			40-140	%REC	1	10/29/13 01:33
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.036	J	0.00085	0.043	mg/Kg-dry	1	10/30/13 15:35
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.26	J	0.0016	0.40	mg/Kg-dry	1	10/30/13 21:25
Arsenic	1.4		0.055	0.40	mg/Kg-dry	1	10/30/13 21:25
Barium	12		0.011	0.40	mg/Kg-dry	1	10/30/13 21:25
Beryllium	0.076	J	0.0032	0.16	mg/Kg-dry	1	10/30/13 21:25
Cadmium	0.11	J	0.0016	0.16	mg/Kg-dry	1	10/30/13 21:25
Chromium	5.1		0.066	0.40	mg/Kg-dry	1	10/30/13 21:25
Cobalt	1.6		0.0016	0.40	mg/Kg-dry	1	10/30/13 21:25
Copper	4.7		0.079	0.40	mg/Kg-dry	1	10/30/13 21:25
Iron	3,900		1.3	6.4	mg/Kg-dry	1	10/30/13 21:25
Lead	8.5		0.0016	0.40	mg/Kg-dry	1	10/30/13 21:25
Manganese	94		0.035	0.40	mg/Kg-dry	1	10/30/13 21:25
Molybdenum	0.38	J	0.018	0.40	mg/Kg-dry	1	10/30/13 21:25
Nickel	4.9		0.040	0.40	mg/Kg-dry	1	10/30/13 21:25
Selenium	0.19	J	0.052	0.40	mg/Kg-dry	1	10/30/13 21:25
Silver	0.018	J	0.0016	0.40	mg/Kg-dry	1	10/30/13 21:25
Thallium	0.048	J	0.0097	0.40	mg/Kg-dry	1	10/30/13 21:25
Vanadium	6.1		0.024	0.40	mg/Kg-dry	1	10/30/13 21:25
Zinc	110		0.034	0.81	mg/Kg-dry	1	10/30/13 21:25
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/25/13	Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	U		3.0	7.2	µg/Kg-dry	1	10/26/13 19:05
Acenaphthene	U		1.1	7.2	µg/Kg-dry	1	10/26/13 19:05
Acenaphthylene	U		1.3	7.2	µg/Kg-dry	1	10/26/13 19:05

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-042
Collection Date: 10/22/13 01:15 PM

Work Order: 13101246
Lab ID: 13101246-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.4	7.2	µg/Kg-dry	1	10/26/13 19:05
Benzo(a)anthracene	75		1.4	7.2	µg/Kg-dry	1	10/26/13 19:05
Benzo(a)pyrene	60		2.4	7.2	µg/Kg-dry	1	10/26/13 19:05
Benzo(b)fluoranthene	72		2.1	7.2	µg/Kg-dry	1	10/26/13 19:05
Benzo(g,h,i)perylene	60		2.8	7.2	µg/Kg-dry	1	10/26/13 19:05
Benzo(k)fluoranthene	53		1.5	7.2	µg/Kg-dry	1	10/26/13 19:05
Chrysene	69		1.7	7.2	µg/Kg-dry	1	10/26/13 19:05
Dibenzo(a,h)anthracene	U		2.7	7.2	µg/Kg-dry	1	10/26/13 19:05
Fluoranthene	110		2.5	7.2	µg/Kg-dry	1	10/26/13 19:05
Fluorene	U		2.4	7.2	µg/Kg-dry	1	10/26/13 19:05
Indeno(1,2,3-cd)pyrene	38		2.4	7.2	µg/Kg-dry	1	10/26/13 19:05
Naphthalene	U		2.7	7.2	µg/Kg-dry	1	10/26/13 19:05
Phenanthrene	67		1.4	7.2	µg/Kg-dry	1	10/26/13 19:05
Pyrene	90		2.4	7.2	µg/Kg-dry	1	10/26/13 19:05
Surr: 2-Fluorobiphenyl	69.4			12-100	%REC	1	10/26/13 19:05
Surr: 4-Terphenyl-d14	111			25-137	%REC	1	10/26/13 19:05
Surr: Nitrobenzene-d5	63.5			37-107	%REC	1	10/26/13 19:05

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 11/1/13

Analyst: AK

BatchID: 52888

1,1,1-Trichloroethane	U		18	48	µg/Kg-dry	1	11/05/13 02:59
1,1,2,2-Tetrachloroethane	U		21	48	µg/Kg-dry	1	11/05/13 02:59
1,1,2-Trichloroethane	U		17	48	µg/Kg-dry	1	11/05/13 02:59
1,1,2-Trichlorotrifluoroethane	U		18	48	µg/Kg-dry	1	11/05/13 02:59
1,1-Dichloroethane	U		17	48	µg/Kg-dry	1	11/05/13 02:59
1,1-Dichloroethene	U		20	48	µg/Kg-dry	1	11/05/13 02:59
1,2,4-Trichlorobenzene	U		25	48	µg/Kg-dry	1	11/05/13 02:59
1,2-Dibromo-3-chloropropane	U		23	48	µg/Kg-dry	1	11/05/13 02:59
1,2-Dibromoethane	U		19	48	µg/Kg-dry	1	11/05/13 02:59
1,2-Dichlorobenzene	U		19	48	µg/Kg-dry	1	11/05/13 02:59
1,2-Dichloroethane	U		23	48	µg/Kg-dry	1	11/05/13 02:59
1,2-Dichloropropane	U		16	48	µg/Kg-dry	1	11/05/13 02:59
1,3-Dichlorobenzene	U		19	48	µg/Kg-dry	1	11/05/13 02:59
1,4-Dichlorobenzene	U		18	48	µg/Kg-dry	1	11/05/13 02:59
2-Butanone	130	J	120	320	µg/Kg-dry	1	11/05/13 02:59
2-Hexanone	U		12	48	µg/Kg-dry	1	11/05/13 02:59
4-Methyl-2-pentanone	U		16	48	µg/Kg-dry	1	11/05/13 02:59
Acetone	U		100	160	µg/Kg-dry	1	11/05/13 02:59
Benzene	U		19	48	µg/Kg-dry	1	11/05/13 02:59
Bromodichloromethane	U		11	48	µg/Kg-dry	1	11/05/13 02:59

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-042
Collection Date: 10/22/13 01:15 PM

Work Order: 13101246
Lab ID: 13101246-25
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		9.4	48	µg/Kg-dry	1	11/05/13 02:59
Bromomethane	U		18	120	µg/Kg-dry	1	11/05/13 02:59
Carbon disulfide	U		24	48	µg/Kg-dry	1	11/05/13 02:59
Carbon tetrachloride	U		14	48	µg/Kg-dry	1	11/05/13 02:59
Chlorobenzene	U		19	48	µg/Kg-dry	1	11/05/13 02:59
Chloroethane	U		100	160	µg/Kg-dry	1	11/05/13 02:59
Chloroform	U		20	48	µg/Kg-dry	1	11/05/13 02:59
Chloromethane	U		27	160	µg/Kg-dry	1	11/05/13 02:59
cis-1,2-Dichloroethene	U		19	48	µg/Kg-dry	1	11/05/13 02:59
cis-1,3-Dichloropropene	U		16	48	µg/Kg-dry	1	11/05/13 02:59
Cyclohexane	41	J	21	48	µg/Kg-dry	1	11/05/13 02:59
Dibromochloromethane	U		8.8	48	µg/Kg-dry	1	11/05/13 02:59
Dichlorodifluoromethane	U		22	48	µg/Kg-dry	1	11/05/13 02:59
Ethylbenzene	U		18	48	µg/Kg-dry	1	11/05/13 02:59
Isopropylbenzene	U		21	48	µg/Kg-dry	1	11/05/13 02:59
Methyl acetate	130	J	64	320	µg/Kg-dry	1	11/05/13 02:59
Methyl tert-butyl ether	U		20	48	µg/Kg-dry	1	11/05/13 02:59
Methylcyclohexane	140		22	48	µg/Kg-dry	1	11/05/13 02:59
Methylene chloride	U		19	48	µg/Kg-dry	1	11/05/13 02:59
Styrene	U		18	48	µg/Kg-dry	1	11/05/13 02:59
Tetrachloroethene	U		21	48	µg/Kg-dry	1	11/05/13 02:59
Toluene	U		18	48	µg/Kg-dry	1	11/05/13 02:59
trans-1,2-Dichloroethene	U		15	48	µg/Kg-dry	1	11/05/13 02:59
trans-1,3-Dichloropropene	U		16	48	µg/Kg-dry	1	11/05/13 02:59
Trichloroethene	U		22	48	µg/Kg-dry	1	11/05/13 02:59
Trichlorofluoromethane	U		13	48	µg/Kg-dry	1	11/05/13 02:59
Vinyl chloride	U		22	48	µg/Kg-dry	1	11/05/13 02:59
Xylenes, Total	U		56	140	µg/Kg-dry	1	11/05/13 02:59
Surr: 1,2-Dichloroethane-d4	87.4			70-130	%REC	1	11/05/13 02:59
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	11/05/13 02:59
Surr: Dibromofluoromethane	89.3			70-130	%REC	1	11/05/13 02:59
Surr: Toluene-d8	95.8			70-130	%REC	1	11/05/13 02:59

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	8.0	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-043
Collection Date: 10/22/13 01:20 PM

Work Order: 13101246
Lab ID: 13101246-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082		Prep: SW3541 / 10/27/13		Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		71	120	µg/Kg-dry	1	10/29/13 01:49
Aroclor 1221	U		71	120	µg/Kg-dry	1	10/29/13 01:49
Aroclor 1232	U		71	120	µg/Kg-dry	1	10/29/13 01:49
Aroclor 1242	U		71	120	µg/Kg-dry	1	10/29/13 01:49
Aroclor 1248	U		71	120	µg/Kg-dry	1	10/29/13 01:49
Aroclor 1254	U		46	120	µg/Kg-dry	1	10/29/13 01:49
Aroclor 1260	U		46	120	µg/Kg-dry	1	10/29/13 01:49
Surr: Decachlorobiphenyl	70.1			40-140	%REC	1	10/29/13 01:49
MERCURY BY CVAA							
			SW7471		Prep: SW7471 / 10/28/13		Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.076		0.0012	0.059	mg/Kg-dry	1	10/30/13 15:37
METALS BY ICP-MS							
			SW6020A		Prep: SW3050B / 10/28/13		Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.57	J	0.011	2.8	mg/Kg-dry	5	10/30/13 07:11
Arsenic	4.6		0.38	2.8	mg/Kg-dry	5	10/30/13 07:11
Barium	59		0.078	2.8	mg/Kg-dry	5	10/30/13 07:11
Beryllium	0.12	J	0.022	1.1	mg/Kg-dry	5	10/30/13 07:11
Cadmium	0.19	J	0.011	1.1	mg/Kg-dry	5	10/30/13 07:11
Chromium	8.1		0.46	2.8	mg/Kg-dry	5	10/30/13 07:11
Cobalt	2.0	J	0.011	2.8	mg/Kg-dry	5	10/30/13 07:11
Copper	8.7		0.55	2.8	mg/Kg-dry	5	10/30/13 07:11
Iron	8,300		9.3	45	mg/Kg-dry	5	10/30/13 07:11
Lead	3.8		0.011	2.8	mg/Kg-dry	5	10/30/13 07:11
Manganese	130		0.25	2.8	mg/Kg-dry	5	10/30/13 07:11
Molybdenum	2.0	J	0.12	2.8	mg/Kg-dry	5	10/30/13 07:11
Nickel	5.8		0.28	2.8	mg/Kg-dry	5	10/30/13 07:11
Selenium	2.5	J	0.36	2.8	mg/Kg-dry	5	10/30/13 07:11
Silver	U		0.011	2.8	mg/Kg-dry	5	10/30/13 07:11
Thallium	0.087	J	0.067	2.8	mg/Kg-dry	5	10/30/13 07:11
Vanadium	13		0.17	2.8	mg/Kg-dry	5	10/30/13 07:11
Zinc	16		0.24	5.6	mg/Kg-dry	5	10/30/13 07:11
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270		Prep: SW3541 / 10/25/13		Analyst: CW
<u>BatchID: 52659</u>							
2-Methylnaphthalene	81		4.1	10	µg/Kg-dry	1	10/26/13 14:56
Acenaphthene	U		1.5	10	µg/Kg-dry	1	10/26/13 14:56
Acenaphthylene	U		1.8	10	µg/Kg-dry	1	10/26/13 14:56

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-043
Collection Date: 10/22/13 01:20 PM

Work Order: 13101246
Lab ID: 13101246-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	28		2.0	10	µg/Kg-dry	1	10/26/13 14:56
Benzo(a)anthracene	140		2.0	10	µg/Kg-dry	1	10/26/13 14:56
Benzo(a)pyrene	120		3.2	10	µg/Kg-dry	1	10/26/13 14:56
Benzo(b)fluoranthene	130		2.9	10	µg/Kg-dry	1	10/26/13 14:56
Benzo(g,h,i)perylene	100		3.9	10	µg/Kg-dry	1	10/26/13 14:56
Benzo(k)fluoranthene	120		2.1	10	µg/Kg-dry	1	10/26/13 14:56
Chrysene	150		2.4	10	µg/Kg-dry	1	10/26/13 14:56
Dibenzo(a,h)anthracene	U		3.7	10	µg/Kg-dry	1	10/26/13 14:56
Fluoranthene	230		3.5	10	µg/Kg-dry	1	10/26/13 14:56
Fluorene	U		3.4	10	µg/Kg-dry	1	10/26/13 14:56
Indeno(1,2,3-cd)pyrene	69		3.3	10	µg/Kg-dry	1	10/26/13 14:56
Naphthalene	54		3.7	10	µg/Kg-dry	1	10/26/13 14:56
Phenanthrene	210		2.0	10	µg/Kg-dry	1	10/26/13 14:56
Pyrene	210		3.4	10	µg/Kg-dry	1	10/26/13 14:56
Surr: 2-Fluorobiphenyl	70.6			12-100	%REC	1	10/26/13 14:56
Surr: 4-Terphenyl-d14	109			25-137	%REC	1	10/26/13 14:56
Surr: Nitrobenzene-d5	66.3			37-107	%REC	1	10/26/13 14:56

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 11/1/13

Analyst: AK

BatchID: 52888

1,1,1-Trichloroethane	U		67	180	µg/Kg-dry	1	11/05/13 03:22
1,1,2,2-Tetrachloroethane	U		78	180	µg/Kg-dry	1	11/05/13 03:22
1,1,2-Trichloroethane	U		63	180	µg/Kg-dry	1	11/05/13 03:22
1,1,2-Trichlorotrifluoroethane	U		65	180	µg/Kg-dry	1	11/05/13 03:22
1,1-Dichloroethane	U		65	180	µg/Kg-dry	1	11/05/13 03:22
1,1-Dichloroethene	U		74	180	µg/Kg-dry	1	11/05/13 03:22
1,2,4-Trichlorobenzene	U		91	180	µg/Kg-dry	1	11/05/13 03:22
1,2-Dibromo-3-chloropropane	U		86	180	µg/Kg-dry	1	11/05/13 03:22
1,2-Dibromoethane	U		70	180	µg/Kg-dry	1	11/05/13 03:22
1,2-Dichlorobenzene	U		71	180	µg/Kg-dry	1	11/05/13 03:22
1,2-Dichloroethane	U		84	180	µg/Kg-dry	1	11/05/13 03:22
1,2-Dichloropropane	U		59	180	µg/Kg-dry	1	11/05/13 03:22
1,3-Dichlorobenzene	U		71	180	µg/Kg-dry	1	11/05/13 03:22
1,4-Dichlorobenzene	U		67	180	µg/Kg-dry	1	11/05/13 03:22
2-Butanone	700	J	440	1,200	µg/Kg-dry	1	11/05/13 03:22
2-Hexanone	U		43	180	µg/Kg-dry	1	11/05/13 03:22
4-Methyl-2-pentanone	U		60	180	µg/Kg-dry	1	11/05/13 03:22
Acetone	1,400		370	590	µg/Kg-dry	1	11/05/13 03:22
Benzene	U		71	180	µg/Kg-dry	1	11/05/13 03:22
Bromodichloromethane	U		40	180	µg/Kg-dry	1	11/05/13 03:22

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-043
Collection Date: 10/22/13 01:20 PM

Work Order: 13101246
Lab ID: 13101246-26
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		35	180	µg/Kg-dry	1	11/05/13 03:22
Bromomethane	U		68	440	µg/Kg-dry	1	11/05/13 03:22
Carbon disulfide	U		88	180	µg/Kg-dry	1	11/05/13 03:22
Carbon tetrachloride	U		50	180	µg/Kg-dry	1	11/05/13 03:22
Chlorobenzene	U		72	180	µg/Kg-dry	1	11/05/13 03:22
Chloroethane	U		380	590	µg/Kg-dry	1	11/05/13 03:22
Chloroform	U		73	180	µg/Kg-dry	1	11/05/13 03:22
Chloromethane	U		98	590	µg/Kg-dry	1	11/05/13 03:22
cis-1,2-Dichloroethene	U		72	180	µg/Kg-dry	1	11/05/13 03:22
cis-1,3-Dichloropropene	U		61	180	µg/Kg-dry	1	11/05/13 03:22
Cyclohexane	U		79	180	µg/Kg-dry	1	11/05/13 03:22
Dibromochloromethane	U		33	180	µg/Kg-dry	1	11/05/13 03:22
Dichlorodifluoromethane	U		80	180	µg/Kg-dry	1	11/05/13 03:22
Ethylbenzene	U		66	180	µg/Kg-dry	1	11/05/13 03:22
Isopropylbenzene	U		76	180	µg/Kg-dry	1	11/05/13 03:22
Methyl acetate	2,100		240	1,200	µg/Kg-dry	1	11/05/13 03:22
Methyl tert-butyl ether	U		75	180	µg/Kg-dry	1	11/05/13 03:22
Methylcyclohexane	U		82	180	µg/Kg-dry	1	11/05/13 03:22
Methylene chloride	U		69	180	µg/Kg-dry	1	11/05/13 03:22
Styrene	U		66	180	µg/Kg-dry	1	11/05/13 03:22
Tetrachloroethene	U		79	180	µg/Kg-dry	1	11/05/13 03:22
Toluene	U		66	180	µg/Kg-dry	1	11/05/13 03:22
trans-1,2-Dichloroethene	U		54	180	µg/Kg-dry	1	11/05/13 03:22
trans-1,3-Dichloropropene	U		59	180	µg/Kg-dry	1	11/05/13 03:22
Trichloroethene	U		83	180	µg/Kg-dry	1	11/05/13 03:22
Trichlorofluoromethane	U		49	180	µg/Kg-dry	1	11/05/13 03:22
Vinyl chloride	U		80	180	µg/Kg-dry	1	11/05/13 03:22
Xylenes, Total	U		210	530	µg/Kg-dry	1	11/05/13 03:22
Surr: 1,2-Dichloroethane-d4	89.2			70-130	%REC	1	11/05/13 03:22
Surr: 4-Bromofluorobenzene	98.6			70-130	%REC	1	11/05/13 03:22
Surr: Dibromofluoromethane	91.2			70-130	%REC	1	11/05/13 03:22
Surr: Toluene-d8	94.4			70-130	%REC	1	11/05/13 03:22

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	35	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-044
Collection Date: 10/22/13 01:25 PM

Work Order: 13101246
Lab ID: 13101246-27
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		62	110	µg/Kg-dry	1	10/29/13 02:05
Aroclor 1221	U		62	110	µg/Kg-dry	1	10/29/13 02:05
Aroclor 1232	U		62	110	µg/Kg-dry	1	10/29/13 02:05
Aroclor 1242	U		62	110	µg/Kg-dry	1	10/29/13 02:05
Aroclor 1248	U		62	110	µg/Kg-dry	1	10/29/13 02:05
Aroclor 1254	U		40	110	µg/Kg-dry	1	10/29/13 02:05
Aroclor 1260	U		40	110	µg/Kg-dry	1	10/29/13 02:05
Surr: Decachlorobiphenyl	79.1			40-140	%REC	1	10/29/13 02:05
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.047		0.00092	0.046	mg/Kg-dry	1	10/30/13 15:39
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.40	J	0.0093	2.3	mg/Kg-dry	5	10/30/13 07:37
Arsenic	2.9		0.32	2.3	mg/Kg-dry	5	10/30/13 07:37
Barium	67		0.065	2.3	mg/Kg-dry	5	10/30/13 07:37
Beryllium	0.17	J	0.019	0.93	mg/Kg-dry	5	10/30/13 07:37
Cadmium	0.13	J	0.0093	0.93	mg/Kg-dry	5	10/30/13 07:37
Chromium	7.1		0.38	2.3	mg/Kg-dry	5	10/30/13 07:37
Cobalt	2.1	J	0.0093	2.3	mg/Kg-dry	5	10/30/13 07:37
Copper	8.7		0.45	2.3	mg/Kg-dry	5	10/30/13 07:37
Iron	7,600		7.7	37	mg/Kg-dry	5	10/30/13 07:37
Lead	5.4		0.0093	2.3	mg/Kg-dry	5	10/30/13 07:37
Manganese	140		0.20	2.3	mg/Kg-dry	5	10/30/13 07:37
Molybdenum	0.62	J	0.10	2.3	mg/Kg-dry	5	10/30/13 07:37
Nickel	5.3		0.23	2.3	mg/Kg-dry	5	10/30/13 07:37
Selenium	0.70	J	0.30	2.3	mg/Kg-dry	5	10/30/13 07:37
Silver	0.010	J	0.0093	2.3	mg/Kg-dry	5	10/30/13 07:37
Thallium	U		0.056	2.3	mg/Kg-dry	5	10/30/13 07:37
Vanadium	11		0.14	2.3	mg/Kg-dry	5	10/30/13 07:37
Zinc	17		0.19	4.6	mg/Kg-dry	5	10/30/13 07:37
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
<u>BatchID: 52689</u>							
2-Methylnaphthalene	41		3.6	8.6	µg/Kg-dry	1	10/28/13 16:38
Acenaphthene	U		1.3	8.6	µg/Kg-dry	1	10/28/13 16:38
Acenaphthylene	U		1.6	8.6	µg/Kg-dry	1	10/28/13 16:38

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-044
Collection Date: 10/22/13 01:25 PM

Work Order: 13101246
Lab ID: 13101246-27
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	130		1.7	8.6	µg/Kg-dry	1	10/28/13 16:38
Benzo(a)anthracene	430		1.7	8.6	µg/Kg-dry	1	10/28/13 16:38
Benzo(a)pyrene	420		2.8	8.6	µg/Kg-dry	1	10/28/13 16:38
Benzo(b)fluoranthene	440		2.5	8.6	µg/Kg-dry	1	10/28/13 16:38
Benzo(g,h,i)perylene	260		3.4	8.6	µg/Kg-dry	1	10/28/13 16:38
Benzo(k)fluoranthene	380		1.8	8.6	µg/Kg-dry	1	10/28/13 16:38
Chrysene	500		2.0	8.6	µg/Kg-dry	1	10/28/13 16:38
Dibenzo(a,h)anthracene	59		3.2	8.6	µg/Kg-dry	1	10/28/13 16:38
Fluoranthene	870		3.0	8.6	µg/Kg-dry	1	10/28/13 16:38
Fluorene	52		2.9	8.6	µg/Kg-dry	1	10/28/13 16:38
Indeno(1,2,3-cd)pyrene	210		2.9	8.6	µg/Kg-dry	1	10/28/13 16:38
Naphthalene	38		3.2	8.6	µg/Kg-dry	1	10/28/13 16:38
Phenanthrene	660		1.7	8.6	µg/Kg-dry	1	10/28/13 16:38
Pyrene	740		2.9	8.6	µg/Kg-dry	1	10/28/13 16:38
Surr: 2-Fluorobiphenyl	66.8			12-100	%REC	1	10/28/13 16:38
Surr: 4-Terphenyl-d14	114			25-137	%REC	1	10/28/13 16:38
Surr: Nitrobenzene-d5	60.5			37-107	%REC	1	10/28/13 16:38

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 11/1/13

Analyst: AK

BatchID: 52888

1,1,1-Trichloroethane	U		37	98	µg/Kg-dry	1	11/05/13 03:46
1,1,2,2-Tetrachloroethane	U		43	98	µg/Kg-dry	1	11/05/13 03:46
1,1,2-Trichloroethane	U		35	98	µg/Kg-dry	1	11/05/13 03:46
1,1,2-Trichlorotrifluoroethane	U		36	98	µg/Kg-dry	1	11/05/13 03:46
1,1-Dichloroethane	U		36	98	µg/Kg-dry	1	11/05/13 03:46
1,1-Dichloroethene	U		41	98	µg/Kg-dry	1	11/05/13 03:46
1,2,4-Trichlorobenzene	U		51	98	µg/Kg-dry	1	11/05/13 03:46
1,2-Dibromo-3-chloropropane	U		48	98	µg/Kg-dry	1	11/05/13 03:46
1,2-Dibromoethane	U		39	98	µg/Kg-dry	1	11/05/13 03:46
1,2-Dichlorobenzene	U		39	98	µg/Kg-dry	1	11/05/13 03:46
1,2-Dichloroethane	U		47	98	µg/Kg-dry	1	11/05/13 03:46
1,2-Dichloropropane	U		33	98	µg/Kg-dry	1	11/05/13 03:46
1,3-Dichlorobenzene	U		39	98	µg/Kg-dry	1	11/05/13 03:46
1,4-Dichlorobenzene	U		38	98	µg/Kg-dry	1	11/05/13 03:46
2-Butanone	370	J	240	660	µg/Kg-dry	1	11/05/13 03:46
2-Hexanone	U		24	98	µg/Kg-dry	1	11/05/13 03:46
4-Methyl-2-pentanone	U		33	98	µg/Kg-dry	1	11/05/13 03:46
Acetone	510		210	330	µg/Kg-dry	1	11/05/13 03:46
Benzene	U		40	98	µg/Kg-dry	1	11/05/13 03:46
Bromodichloromethane	U		22	98	µg/Kg-dry	1	11/05/13 03:46

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-044
Collection Date: 10/22/13 01:25 PM

Work Order: 13101246
Lab ID: 13101246-27
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		19	98	µg/Kg-dry	1	11/05/13 03:46
Bromomethane	U		38	250	µg/Kg-dry	1	11/05/13 03:46
Carbon disulfide	U		49	98	µg/Kg-dry	1	11/05/13 03:46
Carbon tetrachloride	U		28	98	µg/Kg-dry	1	11/05/13 03:46
Chlorobenzene	U		40	98	µg/Kg-dry	1	11/05/13 03:46
Chloroethane	U		210	330	µg/Kg-dry	1	11/05/13 03:46
Chloroform	U		41	98	µg/Kg-dry	1	11/05/13 03:46
Chloromethane	U		55	330	µg/Kg-dry	1	11/05/13 03:46
cis-1,2-Dichloroethene	U		40	98	µg/Kg-dry	1	11/05/13 03:46
cis-1,3-Dichloropropene	U		34	98	µg/Kg-dry	1	11/05/13 03:46
Cyclohexane	U		44	98	µg/Kg-dry	1	11/05/13 03:46
Dibromochloromethane	U		18	98	µg/Kg-dry	1	11/05/13 03:46
Dichlorodifluoromethane	U		44	98	µg/Kg-dry	1	11/05/13 03:46
Ethylbenzene	U		37	98	µg/Kg-dry	1	11/05/13 03:46
Isopropylbenzene	U		42	98	µg/Kg-dry	1	11/05/13 03:46
Methyl acetate	1,100		130	660	µg/Kg-dry	1	11/05/13 03:46
Methyl tert-butyl ether	U		42	98	µg/Kg-dry	1	11/05/13 03:46
Methylcyclohexane	U		46	98	µg/Kg-dry	1	11/05/13 03:46
Methylene chloride	U		39	98	µg/Kg-dry	1	11/05/13 03:46
Styrene	U		37	98	µg/Kg-dry	1	11/05/13 03:46
Tetrachloroethene	U		44	98	µg/Kg-dry	1	11/05/13 03:46
Toluene	U		37	98	µg/Kg-dry	1	11/05/13 03:46
trans-1,2-Dichloroethene	U		30	98	µg/Kg-dry	1	11/05/13 03:46
trans-1,3-Dichloropropene	U		33	98	µg/Kg-dry	1	11/05/13 03:46
Trichloroethene	U		46	98	µg/Kg-dry	1	11/05/13 03:46
Trichlorofluoromethane	U		27	98	µg/Kg-dry	1	11/05/13 03:46
Vinyl chloride	U		44	98	µg/Kg-dry	1	11/05/13 03:46
Xylenes, Total	U		120	300	µg/Kg-dry	1	11/05/13 03:46
Surr: 1,2-Dichloroethane-d4	91.1			70-130	%REC	1	11/05/13 03:46
Surr: 4-Bromofluorobenzene	104			70-130	%REC	1	11/05/13 03:46
Surr: Dibromofluoromethane	93.2			70-130	%REC	1	11/05/13 03:46
Surr: Toluene-d8	96.6			70-130	%REC	1	11/05/13 03:46

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	23	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-045
Collection Date: 10/22/13 01:30 PM

Work Order: 13101246
Lab ID: 13101246-28
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Analyst: JD	
<u>BatchID: 52730a</u>							
Aroclor 1016	U		89	160	µg/Kg-dry	1	10/29/13 16:01
Aroclor 1221	U		89	160	µg/Kg-dry	1	10/29/13 16:01
Aroclor 1232	U		89	160	µg/Kg-dry	1	10/29/13 16:01
Aroclor 1242	U		89	160	µg/Kg-dry	1	10/29/13 16:01
Aroclor 1248	U		89	160	µg/Kg-dry	1	10/29/13 16:01
Aroclor 1254	U		58	160	µg/Kg-dry	1	10/29/13 16:01
Aroclor 1260	U		58	160	µg/Kg-dry	1	10/29/13 16:01
Surr: Decachlorobiphenyl	63.1			40-140	%REC	1	10/29/13 16:01
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	
<u>BatchID: 52719</u>							
Mercury	0.041	J	0.0015	0.074	mg/Kg-dry	1	10/30/13 15:47
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	
<u>BatchID: 52747</u>							
Antimony	0.37	J	0.012	3.1	mg/Kg-dry	5	10/30/13 07:43
Arsenic	2.7	J	0.42	3.1	mg/Kg-dry	5	10/30/13 07:43
Barium	210		0.086	3.1	mg/Kg-dry	5	10/30/13 07:43
Beryllium	0.031	J	0.025	1.2	mg/Kg-dry	5	10/30/13 07:43
Cadmium	0.14	J	0.012	1.2	mg/Kg-dry	5	10/30/13 07:43
Chromium	5.0		0.50	3.1	mg/Kg-dry	5	10/30/13 07:43
Cobalt	0.94	J	0.012	3.1	mg/Kg-dry	5	10/30/13 07:43
Copper	5.1		0.60	3.1	mg/Kg-dry	5	10/30/13 07:43
Iron	5,100		10	49	mg/Kg-dry	5	10/30/13 07:43
Lead	0.22	J	0.012	3.1	mg/Kg-dry	5	10/30/13 07:43
Manganese	120		0.27	3.1	mg/Kg-dry	5	10/30/13 07:43
Molybdenum	1.6	J	0.13	3.1	mg/Kg-dry	5	10/30/13 07:43
Nickel	2.9	J	0.31	3.1	mg/Kg-dry	5	10/30/13 07:43
Selenium	2.0	J	0.39	3.1	mg/Kg-dry	5	10/30/13 07:43
Silver	U		0.012	3.1	mg/Kg-dry	5	10/30/13 07:43
Thallium	0.14	J	0.074	3.1	mg/Kg-dry	5	10/30/13 07:43
Vanadium	4.6		0.18	3.1	mg/Kg-dry	5	10/30/13 07:43
Zinc	6.1		0.26	6.1	mg/Kg-dry	5	10/30/13 07:43
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/27/13	
<u>BatchID: 52689</u>							
2-Methylnaphthalene	U		5.4	13	µg/Kg-dry	1	10/28/13 15:08
Acenaphthene	U		1.9	13	µg/Kg-dry	1	10/28/13 15:08
Acenaphthylene	U		2.3	13	µg/Kg-dry	1	10/28/13 15:08

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-045
Collection Date: 10/22/13 01:30 PM

Work Order: 13101246
Lab ID: 13101246-28
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		2.5	13	µg/Kg-dry	1	10/28/13 15:08
Benzo(a)anthracene	U		2.5	13	µg/Kg-dry	1	10/28/13 15:08
Benzo(a)pyrene	U		4.2	13	µg/Kg-dry	1	10/28/13 15:08
Benzo(b)fluoranthene	U		3.8	13	µg/Kg-dry	1	10/28/13 15:08
Benzo(g,h,i)perylene	U		5.1	13	µg/Kg-dry	1	10/28/13 15:08
Benzo(k)fluoranthene	U		2.7	13	µg/Kg-dry	1	10/28/13 15:08
Chrysene	U		3.1	13	µg/Kg-dry	1	10/28/13 15:08
Dibenzo(a,h)anthracene	U		4.8	13	µg/Kg-dry	1	10/28/13 15:08
Fluoranthene	U		4.5	13	µg/Kg-dry	1	10/28/13 15:08
Fluorene	U		4.3	13	µg/Kg-dry	1	10/28/13 15:08
Indeno(1,2,3-cd)pyrene	U		4.3	13	µg/Kg-dry	1	10/28/13 15:08
Naphthalene	U		4.8	13	µg/Kg-dry	1	10/28/13 15:08
Phenanthrene	U		2.6	13	µg/Kg-dry	1	10/28/13 15:08
Pyrene	U		4.4	13	µg/Kg-dry	1	10/28/13 15:08
Surr: 2-Fluorobiphenyl	66.2			12-100	%REC	1	10/28/13 15:08
Surr: 4-Terphenyl-d14	116			25-137	%REC	1	10/28/13 15:08
Surr: Nitrobenzene-d5	70.8			37-107	%REC	1	10/28/13 15:08

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 11/1/13

Analyst: AK

BatchID: 52892

1,1,1-Trichloroethane	U		25	66	µg/Kg-dry	1	11/05/13 04:10
1,1,2,2-Tetrachloroethane	U		29	66	µg/Kg-dry	1	11/05/13 04:10
1,1,2-Trichloroethane	U		23	66	µg/Kg-dry	1	11/05/13 04:10
1,1,2-Trichlorotrifluoroethane	U		24	66	µg/Kg-dry	1	11/05/13 04:10
1,1-Dichloroethane	U		24	66	µg/Kg-dry	1	11/05/13 04:10
1,1-Dichloroethene	U		28	66	µg/Kg-dry	1	11/05/13 04:10
1,2,4-Trichlorobenzene	U		34	66	µg/Kg-dry	1	11/05/13 04:10
1,2-Dibromo-3-chloropropane	U		32	66	µg/Kg-dry	1	11/05/13 04:10
1,2-Dibromoethane	U		26	66	µg/Kg-dry	1	11/05/13 04:10
1,2-Dichlorobenzene	U		26	66	µg/Kg-dry	1	11/05/13 04:10
1,2-Dichloroethane	U		31	66	µg/Kg-dry	1	11/05/13 04:10
1,2-Dichloropropane	U		22	66	µg/Kg-dry	1	11/05/13 04:10
1,3-Dichlorobenzene	U		27	66	µg/Kg-dry	1	11/05/13 04:10
1,4-Dichlorobenzene	U		25	66	µg/Kg-dry	1	11/05/13 04:10
2-Butanone	U		160	440	µg/Kg-dry	1	11/05/13 04:10
2-Hexanone	U		16	66	µg/Kg-dry	1	11/05/13 04:10
4-Methyl-2-pentanone	U		22	66	µg/Kg-dry	1	11/05/13 04:10
Acetone	U		140	220	µg/Kg-dry	1	11/05/13 04:10
Benzene	U		27	66	µg/Kg-dry	1	11/05/13 04:10
Bromodichloromethane	U		15	66	µg/Kg-dry	1	11/05/13 04:10

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-045
Collection Date: 10/22/13 01:30 PM

Work Order: 13101246
Lab ID: 13101246-28
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		13	66	µg/Kg-dry	1	11/05/13 04:10
Bromomethane	U		25	170	µg/Kg-dry	1	11/05/13 04:10
Carbon disulfide	U		33	66	µg/Kg-dry	1	11/05/13 04:10
Carbon tetrachloride	U		19	66	µg/Kg-dry	1	11/05/13 04:10
Chlorobenzene	U		27	66	µg/Kg-dry	1	11/05/13 04:10
Chloroethane	U		140	220	µg/Kg-dry	1	11/05/13 04:10
Chloroform	U		27	66	µg/Kg-dry	1	11/05/13 04:10
Chloromethane	U		37	220	µg/Kg-dry	1	11/05/13 04:10
cis-1,2-Dichloroethene	U		27	66	µg/Kg-dry	1	11/05/13 04:10
cis-1,3-Dichloropropene	U		23	66	µg/Kg-dry	1	11/05/13 04:10
Cyclohexane	U		30	66	µg/Kg-dry	1	11/05/13 04:10
Dibromochloromethane	U		12	66	µg/Kg-dry	1	11/05/13 04:10
Dichlorodifluoromethane	U		30	66	µg/Kg-dry	1	11/05/13 04:10
Ethylbenzene	U		25	66	µg/Kg-dry	1	11/05/13 04:10
Isopropylbenzene	U		29	66	µg/Kg-dry	1	11/05/13 04:10
Methyl acetate	210	J	89	440	µg/Kg-dry	1	11/05/13 04:10
Methyl tert-butyl ether	U		28	66	µg/Kg-dry	1	11/05/13 04:10
Methylcyclohexane	U		31	66	µg/Kg-dry	1	11/05/13 04:10
Methylene chloride	U		26	66	µg/Kg-dry	1	11/05/13 04:10
Styrene	U		25	66	µg/Kg-dry	1	11/05/13 04:10
Tetrachloroethene	U		29	66	µg/Kg-dry	1	11/05/13 04:10
Toluene	U		25	66	µg/Kg-dry	1	11/05/13 04:10
trans-1,2-Dichloroethene	U		20	66	µg/Kg-dry	1	11/05/13 04:10
trans-1,3-Dichloropropene	U		22	66	µg/Kg-dry	1	11/05/13 04:10
Trichloroethene	U		31	66	µg/Kg-dry	1	11/05/13 04:10
Trichlorofluoromethane	U		18	66	µg/Kg-dry	1	11/05/13 04:10
Vinyl chloride	U		30	66	µg/Kg-dry	1	11/05/13 04:10
Xylenes, Total	U		78	200	µg/Kg-dry	1	11/05/13 04:10
Surr: 1,2-Dichloroethane-d4	92.4			70-130	%REC	1	11/05/13 04:10
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	11/05/13 04:10
Surr: Dibromofluoromethane	91.8			70-130	%REC	1	11/05/13 04:10
Surr: Toluene-d8	96.4			70-130	%REC	1	11/05/13 04:10

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	49	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-047
Collection Date: 10/22/13 02:00 PM

Work Order: 13101246
Lab ID: 13101246-29
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		59	100	µg/Kg-dry	1	10/29/13 02:22
Aroclor 1221	U		59	100	µg/Kg-dry	1	10/29/13 02:22
Aroclor 1232	U		59	100	µg/Kg-dry	1	10/29/13 02:22
Aroclor 1242	U		59	100	µg/Kg-dry	1	10/29/13 02:22
Aroclor 1248	U		59	100	µg/Kg-dry	1	10/29/13 02:22
Aroclor 1254	U		38	100	µg/Kg-dry	1	10/29/13 02:22
Aroclor 1260	U		38	100	µg/Kg-dry	1	10/29/13 02:22
Surr: Decachlorobiphenyl	70.1			40-140	%REC	1	10/29/13 02:22
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.035	J	0.0011	0.053	mg/Kg-dry	1	10/30/13 15:54
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.69		0.0019	0.47	mg/Kg-dry	1	10/30/13 21:31
Arsenic	33		0.064	0.47	mg/Kg-dry	1	10/30/13 21:31
Barium	84		0.013	0.47	mg/Kg-dry	1	10/30/13 21:31
Beryllium	0.45		0.0038	0.19	mg/Kg-dry	1	10/30/13 21:31
Cadmium	0.27		0.0019	0.19	mg/Kg-dry	1	10/30/13 21:31
Chromium	8.6		0.077	0.47	mg/Kg-dry	1	10/30/13 21:31
Cobalt	5.1		0.0019	0.47	mg/Kg-dry	1	10/30/13 21:31
Copper	38		0.092	0.47	mg/Kg-dry	1	10/30/13 21:31
Iron	7,100		1.6	7.5	mg/Kg-dry	1	10/30/13 21:31
Lead	16		0.0019	0.47	mg/Kg-dry	1	10/30/13 21:31
Manganese	30		0.042	0.47	mg/Kg-dry	1	10/30/13 21:31
Molybdenum	3.1		0.021	0.47	mg/Kg-dry	1	10/30/13 21:31
Nickel	22		0.047	0.47	mg/Kg-dry	1	10/30/13 21:31
Selenium	1.2		0.060	0.47	mg/Kg-dry	1	10/30/13 21:31
Silver	0.083	J	0.0019	0.47	mg/Kg-dry	1	10/30/13 21:31
Thallium	0.64		0.011	0.47	mg/Kg-dry	1	10/30/13 21:31
Vanadium	12		0.028	0.47	mg/Kg-dry	1	10/30/13 21:31
Zinc	23		0.040	0.94	mg/Kg-dry	1	10/30/13 21:31
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
<u>BatchID: 52689</u>							
2-Methylnaphthalene	100		3.4	8.1	µg/Kg-dry	1	10/28/13 20:24
Acenaphthene	U		1.2	8.1	µg/Kg-dry	1	10/28/13 20:24
Acenaphthylene	42		1.5	8.1	µg/Kg-dry	1	10/28/13 20:24

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-047
Collection Date: 10/22/13 02:00 PM

Work Order: 13101246
Lab ID: 13101246-29
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	66		1.6	8.1	µg/Kg-dry	1	10/28/13 20:24
Benzo(a)anthracene	290		1.6	8.1	µg/Kg-dry	1	10/28/13 20:24
Benzo(a)pyrene	360		2.6	8.1	µg/Kg-dry	1	10/28/13 20:24
Benzo(b)fluoranthene	470		2.4	8.1	µg/Kg-dry	1	10/28/13 20:24
Benzo(g,h,i)perylene	240		3.2	8.1	µg/Kg-dry	1	10/28/13 20:24
Benzo(k)fluoranthene	350		1.7	8.1	µg/Kg-dry	1	10/28/13 20:24
Chrysene	500		1.9	8.1	µg/Kg-dry	1	10/28/13 20:24
Dibenzo(a,h)anthracene	68		3.0	8.1	µg/Kg-dry	1	10/28/13 20:24
Fluoranthene	420		2.8	8.1	µg/Kg-dry	1	10/28/13 20:24
Fluorene	U		2.7	8.1	µg/Kg-dry	1	10/28/13 20:24
Indeno(1,2,3-cd)pyrene	190		2.7	8.1	µg/Kg-dry	1	10/28/13 20:24
Naphthalene	72		3.0	8.1	µg/Kg-dry	1	10/28/13 20:24
Phenanthrene	310		1.6	8.1	µg/Kg-dry	1	10/28/13 20:24
Pyrene	460		2.8	8.1	µg/Kg-dry	1	10/28/13 20:24
Surr: 2-Fluorobiphenyl	71.6			12-100	%REC	1	10/28/13 20:24
Surr: 4-Terphenyl-d14	98.6			25-137	%REC	1	10/28/13 20:24
Surr: Nitrobenzene-d5	69.4			37-107	%REC	1	10/28/13 20:24

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 11/1/13

Analyst: AK

BatchID: 52888

1,1,1-Trichloroethane	U		39	100	µg/Kg-dry	1	11/05/13 04:34
1,1,2,2-Tetrachloroethane	U		45	100	µg/Kg-dry	1	11/05/13 04:34
1,1,2-Trichloroethane	U		36	100	µg/Kg-dry	1	11/05/13 04:34
1,1,2-Trichlorotrifluoroethane	U		38	100	µg/Kg-dry	1	11/05/13 04:34
1,1-Dichloroethane	U		37	100	µg/Kg-dry	1	11/05/13 04:34
1,1-Dichloroethene	U		43	100	µg/Kg-dry	1	11/05/13 04:34
1,2,4-Trichlorobenzene	U		52	100	µg/Kg-dry	1	11/05/13 04:34
1,2-Dibromo-3-chloropropane	U		49	100	µg/Kg-dry	1	11/05/13 04:34
1,2-Dibromoethane	U		40	100	µg/Kg-dry	1	11/05/13 04:34
1,2-Dichlorobenzene	U		41	100	µg/Kg-dry	1	11/05/13 04:34
1,2-Dichloroethane	U		48	100	µg/Kg-dry	1	11/05/13 04:34
1,2-Dichloropropane	U		34	100	µg/Kg-dry	1	11/05/13 04:34
1,3-Dichlorobenzene	U		41	100	µg/Kg-dry	1	11/05/13 04:34
1,4-Dichlorobenzene	U		39	100	µg/Kg-dry	1	11/05/13 04:34
2-Butanone	290	J	250	680	µg/Kg-dry	1	11/05/13 04:34
2-Hexanone	U		25	100	µg/Kg-dry	1	11/05/13 04:34
4-Methyl-2-pentanone	U		34	100	µg/Kg-dry	1	11/05/13 04:34
Acetone	U		210	340	µg/Kg-dry	1	11/05/13 04:34
Benzene	U		41	100	µg/Kg-dry	1	11/05/13 04:34
Bromodichloromethane	U		23	100	µg/Kg-dry	1	11/05/13 04:34

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-047
Collection Date: 10/22/13 02:00 PM

Work Order: 13101246
Lab ID: 13101246-29
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		20	100	µg/Kg-dry	1	11/05/13 04:34
Bromomethane	U		39	250	µg/Kg-dry	1	11/05/13 04:34
Carbon disulfide	U		50	100	µg/Kg-dry	1	11/05/13 04:34
Carbon tetrachloride	U		29	100	µg/Kg-dry	1	11/05/13 04:34
Chlorobenzene	U		41	100	µg/Kg-dry	1	11/05/13 04:34
Chloroethane	U		220	340	µg/Kg-dry	1	11/05/13 04:34
Chloroform	U		42	100	µg/Kg-dry	1	11/05/13 04:34
Chloromethane	U		56	340	µg/Kg-dry	1	11/05/13 04:34
cis-1,2-Dichloroethene	U		41	100	µg/Kg-dry	1	11/05/13 04:34
cis-1,3-Dichloropropene	U		35	100	µg/Kg-dry	1	11/05/13 04:34
Cyclohexane	U		46	100	µg/Kg-dry	1	11/05/13 04:34
Dibromochloromethane	U		19	100	µg/Kg-dry	1	11/05/13 04:34
Dichlorodifluoromethane	U		46	100	µg/Kg-dry	1	11/05/13 04:34
Ethylbenzene	U		38	100	µg/Kg-dry	1	11/05/13 04:34
Isopropylbenzene	U		44	100	µg/Kg-dry	1	11/05/13 04:34
Methyl acetate	280	J	140	680	µg/Kg-dry	1	11/05/13 04:34
Methyl tert-butyl ether	U		43	100	µg/Kg-dry	1	11/05/13 04:34
Methylcyclohexane	230		47	100	µg/Kg-dry	1	11/05/13 04:34
Methylene chloride	U		40	100	µg/Kg-dry	1	11/05/13 04:34
Styrene	U		38	100	µg/Kg-dry	1	11/05/13 04:34
Tetrachloroethene	U		45	100	µg/Kg-dry	1	11/05/13 04:34
Toluene	52	J	38	100	µg/Kg-dry	1	11/05/13 04:34
trans-1,2-Dichloroethene	U		31	100	µg/Kg-dry	1	11/05/13 04:34
trans-1,3-Dichloropropene	U		34	100	µg/Kg-dry	1	11/05/13 04:34
Trichloroethene	U		47	100	µg/Kg-dry	1	11/05/13 04:34
Trichlorofluoromethane	U		28	100	µg/Kg-dry	1	11/05/13 04:34
Vinyl chloride	U		46	100	µg/Kg-dry	1	11/05/13 04:34
Xylenes, Total	U		120	300	µg/Kg-dry	1	11/05/13 04:34
Surr: 1,2-Dichloroethane-d4	90.0			70-130	%REC	1	11/05/13 04:34
Surr: 4-Bromofluorobenzene	99.0			70-130	%REC	1	11/05/13 04:34
Surr: Dibromofluoromethane	91.0			70-130	%REC	1	11/05/13 04:34
Surr: Toluene-d8	96.3			70-130	%REC	1	11/05/13 04:34

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	21	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-048
Collection Date: 10/22/13 02:05 PM

Work Order: 13101246
Lab ID: 13101246-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		57	100	µg/Kg-dry	1	10/29/13 03:11
Aroclor 1221	U		57	100	µg/Kg-dry	1	10/29/13 03:11
Aroclor 1232	U		57	100	µg/Kg-dry	1	10/29/13 03:11
Aroclor 1242	U		57	100	µg/Kg-dry	1	10/29/13 03:11
Aroclor 1248	U		57	100	µg/Kg-dry	1	10/29/13 03:11
Aroclor 1254	U		37	100	µg/Kg-dry	1	10/29/13 03:11
Aroclor 1260	U		37	100	µg/Kg-dry	1	10/29/13 03:11
Surr: Decachlorobiphenyl	41.0			40-140	%REC	1	10/29/13 03:11
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.038	J	0.00087	0.044	mg/Kg-dry	1	10/30/13 15:56
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	1.1	J	0.0088	2.2	mg/Kg-dry	5	10/30/13 08:08
Arsenic	7.9		0.30	2.2	mg/Kg-dry	5	10/30/13 08:08
Barium	41		0.062	2.2	mg/Kg-dry	5	10/30/13 08:08
Beryllium	0.45	J	0.018	0.88	mg/Kg-dry	5	10/30/13 08:08
Cadmium	0.49	J	0.0088	0.88	mg/Kg-dry	5	10/30/13 08:08
Chromium	31		0.36	2.2	mg/Kg-dry	5	10/30/13 08:08
Cobalt	6.5		0.0088	2.2	mg/Kg-dry	5	10/30/13 08:08
Copper	51		0.43	2.2	mg/Kg-dry	5	10/30/13 08:08
Iron	8,000		7.3	35	mg/Kg-dry	5	10/30/13 08:08
Lead	37		0.0088	2.2	mg/Kg-dry	5	10/30/13 08:08
Manganese	130		0.19	2.2	mg/Kg-dry	5	10/30/13 08:08
Molybdenum	8.6		0.097	2.2	mg/Kg-dry	5	10/30/13 08:08
Nickel	16		0.22	2.2	mg/Kg-dry	5	10/30/13 08:08
Selenium	U		0.28	2.2	mg/Kg-dry	5	10/30/13 08:08
Silver	0.26	J	0.0088	2.2	mg/Kg-dry	5	10/30/13 08:08
Thallium	0.15	J	0.053	2.2	mg/Kg-dry	5	10/30/13 08:08
Vanadium	12		0.13	2.2	mg/Kg-dry	5	10/30/13 08:08
Zinc	100		0.18	4.4	mg/Kg-dry	5	10/30/13 08:08
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
<u>BatchID: 52689</u>							
2-Methylnaphthalene	U		33	80	µg/Kg-dry	10	10/28/13 18:09
Acenaphthene	U		12	80	µg/Kg-dry	10	10/28/13 18:09
Acenaphthylene	U		14	80	µg/Kg-dry	10	10/28/13 18:09

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-048
Collection Date: 10/22/13 02:05 PM

Work Order: 13101246
Lab ID: 13101246-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		16	80	µg/Kg-dry	10	10/28/13 18:09
Benzo(a)anthracene	430		16	80	µg/Kg-dry	10	10/28/13 18:09
Benzo(a)pyrene	U		26	80	µg/Kg-dry	10	10/28/13 18:09
Benzo(b)fluoranthene	220		23	80	µg/Kg-dry	10	10/28/13 18:09
Benzo(g,h,i)perylene	340		31	80	µg/Kg-dry	10	10/28/13 18:09
Benzo(k)fluoranthene	U		17	80	µg/Kg-dry	10	10/28/13 18:09
Chrysene	250		19	80	µg/Kg-dry	10	10/28/13 18:09
Dibenzo(a,h)anthracene	U		30	80	µg/Kg-dry	10	10/28/13 18:09
Fluoranthene	460		28	80	µg/Kg-dry	10	10/28/13 18:09
Fluorene	U		27	80	µg/Kg-dry	10	10/28/13 18:09
Indeno(1,2,3-cd)pyrene	U		26	80	µg/Kg-dry	10	10/28/13 18:09
Naphthalene	U		29	80	µg/Kg-dry	10	10/28/13 18:09
Phenanthrene	500		16	80	µg/Kg-dry	10	10/28/13 18:09
Pyrene	330		27	80	µg/Kg-dry	10	10/28/13 18:09
Surr: 2-Fluorobiphenyl	64.4			12-100	%REC	10	10/28/13 18:09
Surr: 4-Terphenyl-d14	76.2			25-137	%REC	10	10/28/13 18:09
Surr: Nitrobenzene-d5	61.8			37-107	%REC	10	10/28/13 18:09

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 11/1/13

Analyst: AK

BatchID: 52888

1,1,1-Trichloroethane	U		22	57	µg/Kg-dry	1	11/05/13 22:48
1,1,2,2-Tetrachloroethane	U		25	57	µg/Kg-dry	1	11/05/13 22:48
1,1,2-Trichloroethane	U		20	57	µg/Kg-dry	1	11/05/13 22:48
1,1,2-Trichlorotrifluoroethane	U		21	57	µg/Kg-dry	1	11/05/13 22:48
1,1-Dichloroethane	U		21	57	µg/Kg-dry	1	11/05/13 22:48
1,1-Dichloroethene	U		24	57	µg/Kg-dry	1	11/05/13 22:48
1,2,4-Trichlorobenzene	U		29	57	µg/Kg-dry	1	11/05/13 22:48
1,2-Dibromo-3-chloropropane	U		28	57	µg/Kg-dry	1	11/05/13 22:48
1,2-Dibromoethane	U		22	57	µg/Kg-dry	1	11/05/13 22:48
1,2-Dichlorobenzene	U		23	57	µg/Kg-dry	1	11/05/13 22:48
1,2-Dichloroethane	U		27	57	µg/Kg-dry	1	11/05/13 22:48
1,2-Dichloropropane	U		19	57	µg/Kg-dry	1	11/05/13 22:48
1,3-Dichlorobenzene	U		23	57	µg/Kg-dry	1	11/05/13 22:48
1,4-Dichlorobenzene	U		22	57	µg/Kg-dry	1	11/05/13 22:48
2-Butanone	U		140	380	µg/Kg-dry	1	11/05/13 22:48
2-Hexanone	U		14	57	µg/Kg-dry	1	11/05/13 22:48
4-Methyl-2-pentanone	U		19	57	µg/Kg-dry	1	11/05/13 22:48
Acetone	U		120	190	µg/Kg-dry	1	11/05/13 22:48
Benzene	U		23	57	µg/Kg-dry	1	11/05/13 22:48
Bromodichloromethane	U		13	57	µg/Kg-dry	1	11/05/13 22:48

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-048
Collection Date: 10/22/13 02:05 PM

Work Order: 13101246
Lab ID: 13101246-30
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		11	57	µg/Kg-dry	1	11/05/13 22:48
Bromomethane	U		22	140	µg/Kg-dry	1	11/05/13 22:48
Carbon disulfide	U		28	57	µg/Kg-dry	1	11/05/13 22:48
Carbon tetrachloride	U		16	57	µg/Kg-dry	1	11/05/13 22:48
Chlorobenzene	U		23	57	µg/Kg-dry	1	11/05/13 22:48
Chloroethane	U		120	190	µg/Kg-dry	1	11/05/13 22:48
Chloroform	U		23	57	µg/Kg-dry	1	11/05/13 22:48
Chloromethane	U		32	190	µg/Kg-dry	1	11/05/13 22:48
cis-1,2-Dichloroethene	U		23	57	µg/Kg-dry	1	11/05/13 22:48
cis-1,3-Dichloropropene	U		19	57	µg/Kg-dry	1	11/05/13 22:48
Cyclohexane	U		25	57	µg/Kg-dry	1	11/05/13 22:48
Dibromochloromethane	U		10	57	µg/Kg-dry	1	11/05/13 22:48
Dichlorodifluoromethane	U		26	57	µg/Kg-dry	1	11/05/13 22:48
Ethylbenzene	U		21	57	µg/Kg-dry	1	11/05/13 22:48
Isopropylbenzene	U		24	57	µg/Kg-dry	1	11/05/13 22:48
Methyl acetate	150	J	76	380	µg/Kg-dry	1	11/05/13 22:48
Methyl tert-butyl ether	U		24	57	µg/Kg-dry	1	11/05/13 22:48
Methylcyclohexane	240		26	57	µg/Kg-dry	1	11/05/13 22:48
Methylene chloride	U		22	57	µg/Kg-dry	1	11/05/13 22:48
Styrene	U		21	57	µg/Kg-dry	1	11/05/13 22:48
Tetrachloroethene	U		25	57	µg/Kg-dry	1	11/05/13 22:48
Toluene	42	J	21	57	µg/Kg-dry	1	11/05/13 22:48
trans-1,2-Dichloroethene	U		17	57	µg/Kg-dry	1	11/05/13 22:48
trans-1,3-Dichloropropene	U		19	57	µg/Kg-dry	1	11/05/13 22:48
Trichloroethene	U		26	57	µg/Kg-dry	1	11/05/13 22:48
Trichlorofluoromethane	U		16	57	µg/Kg-dry	1	11/05/13 22:48
Vinyl chloride	U		26	57	µg/Kg-dry	1	11/05/13 22:48
Xylenes, Total	140	J	67	170	µg/Kg-dry	1	11/05/13 22:48
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	11/05/13 22:48
Surr: 4-Bromofluorobenzene	94.0			70-130	%REC	1	11/05/13 22:48
Surr: Dibromofluoromethane	99.0			70-130	%REC	1	11/05/13 22:48
Surr: Toluene-d8	99.7			70-130	%REC	1	11/05/13 22:48

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	17	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-049
Collection Date: 10/22/13 02:10 PM

Work Order: 13101246
Lab ID: 13101246-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		160	290	µg/Kg-dry	1	10/29/13 03:27
Aroclor 1221	U		160	290	µg/Kg-dry	1	10/29/13 03:27
Aroclor 1232	U		160	290	µg/Kg-dry	1	10/29/13 03:27
Aroclor 1242	U		160	290	µg/Kg-dry	1	10/29/13 03:27
Aroclor 1248	U		160	290	µg/Kg-dry	1	10/29/13 03:27
Aroclor 1254	U		110	290	µg/Kg-dry	1	10/29/13 03:27
Aroclor 1260	U		110	290	µg/Kg-dry	1	10/29/13 03:27
Surr: Decachlorobiphenyl	36.0	S		40-140	%REC	1	10/29/13 03:27
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.068	J	0.0026	0.13	mg/Kg-dry	1	10/30/13 15:58
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.15	J	0.0055	1.4	mg/Kg-dry	1	10/30/13 21:37
Arsenic	2.6		0.19	1.4	mg/Kg-dry	1	10/30/13 21:37
Barium	37		0.039	1.4	mg/Kg-dry	1	10/30/13 21:37
Beryllium	0.30	J	0.011	0.55	mg/Kg-dry	1	10/30/13 21:37
Cadmium	0.68		0.0055	0.55	mg/Kg-dry	1	10/30/13 21:37
Chromium	7.5		0.23	1.4	mg/Kg-dry	1	10/30/13 21:37
Cobalt	0.65	J	0.0055	1.4	mg/Kg-dry	1	10/30/13 21:37
Copper	17		0.27	1.4	mg/Kg-dry	1	10/30/13 21:37
Iron	4,700		4.6	22	mg/Kg-dry	1	10/30/13 21:37
Lead	2.9		0.0055	1.4	mg/Kg-dry	1	10/30/13 21:37
Manganese	25		0.12	1.4	mg/Kg-dry	1	10/30/13 21:37
Molybdenum	2.4		0.061	1.4	mg/Kg-dry	1	10/30/13 21:37
Nickel	8.6		0.14	1.4	mg/Kg-dry	1	10/30/13 21:37
Selenium	3.6		0.18	1.4	mg/Kg-dry	1	10/30/13 21:37
Silver	0.041	J	0.0055	1.4	mg/Kg-dry	1	10/30/13 21:37
Thallium	0.087	J	0.033	1.4	mg/Kg-dry	1	10/30/13 21:37
Vanadium	41		0.083	1.4	mg/Kg-dry	1	10/30/13 21:37
Zinc	2.8		0.12	2.8	mg/Kg-dry	1	10/30/13 21:37
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
<u>BatchID: 52689</u>							
2-Methylnaphthalene	U		61	150	µg/Kg-dry	5	10/28/13 17:01
Acenaphthene	U		22	150	µg/Kg-dry	5	10/28/13 17:01
Acenaphthylene	U		27	150	µg/Kg-dry	5	10/28/13 17:01

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-049
Collection Date: 10/22/13 02:10 PM

Work Order: 13101246
Lab ID: 13101246-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		29	150	µg/Kg-dry	5	10/28/13 17:01
Benzo(a)anthracene	U		29	150	µg/Kg-dry	5	10/28/13 17:01
Benzo(a)pyrene	U		48	150	µg/Kg-dry	5	10/28/13 17:01
Benzo(b)fluoranthene	U		43	150	µg/Kg-dry	5	10/28/13 17:01
Benzo(g,h,i)perylene	U		58	150	µg/Kg-dry	5	10/28/13 17:01
Benzo(k)fluoranthene	U		31	150	µg/Kg-dry	5	10/28/13 17:01
Chrysene	U		35	150	µg/Kg-dry	5	10/28/13 17:01
Dibenzo(a,h)anthracene	U		55	150	µg/Kg-dry	5	10/28/13 17:01
Fluoranthene	U		52	150	µg/Kg-dry	5	10/28/13 17:01
Fluorene	U		50	150	µg/Kg-dry	5	10/28/13 17:01
Indeno(1,2,3-cd)pyrene	U		49	150	µg/Kg-dry	5	10/28/13 17:01
Naphthalene	U		55	150	µg/Kg-dry	5	10/28/13 17:01
Phenanthrene	U		30	150	µg/Kg-dry	5	10/28/13 17:01
Pyrene	U		50	150	µg/Kg-dry	5	10/28/13 17:01
Surr: 2-Fluorobiphenyl	49.9			12-100	%REC	5	10/28/13 17:01
Surr: 4-Terphenyl-d14	57.6			25-137	%REC	5	10/28/13 17:01
Surr: Nitrobenzene-d5	52.5			37-107	%REC	5	10/28/13 17:01

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 11/1/13

Analyst: AK

BatchID: 52888

1,1,1-Trichloroethane	U		390	1,000	µg/Kg-dry	1	11/05/13 04:59
1,1,2,2-Tetrachloroethane	U		450	1,000	µg/Kg-dry	1	11/05/13 04:59
1,1,2-Trichloroethane	U		360	1,000	µg/Kg-dry	1	11/05/13 04:59
1,1,2-Trichlorotrifluoroethane	U		380	1,000	µg/Kg-dry	1	11/05/13 04:59
1,1-Dichloroethane	U		370	1,000	µg/Kg-dry	1	11/05/13 04:59
1,1-Dichloroethene	U		430	1,000	µg/Kg-dry	1	11/05/13 04:59
1,2,4-Trichlorobenzene	U		530	1,000	µg/Kg-dry	1	11/05/13 04:59
1,2-Dibromo-3-chloropropane	U		490	1,000	µg/Kg-dry	1	11/05/13 04:59
1,2-Dibromoethane	U		400	1,000	µg/Kg-dry	1	11/05/13 04:59
1,2-Dichlorobenzene	U		410	1,000	µg/Kg-dry	1	11/05/13 04:59
1,2-Dichloroethane	U		480	1,000	µg/Kg-dry	1	11/05/13 04:59
1,2-Dichloropropane	U		340	1,000	µg/Kg-dry	1	11/05/13 04:59
1,3-Dichlorobenzene	U		410	1,000	µg/Kg-dry	1	11/05/13 04:59
1,4-Dichlorobenzene	U		390	1,000	µg/Kg-dry	1	11/05/13 04:59
2-Butanone	3,600	J	2,500	6,800	µg/Kg-dry	1	11/05/13 04:59
2-Hexanone	U		250	1,000	µg/Kg-dry	1	11/05/13 04:59
4-Methyl-2-pentanone	U		340	1,000	µg/Kg-dry	1	11/05/13 04:59
Acetone	6,100		2,200	3,400	µg/Kg-dry	1	11/05/13 04:59
Benzene	U		410	1,000	µg/Kg-dry	1	11/05/13 04:59
Bromodichloromethane	U		230	1,000	µg/Kg-dry	1	11/05/13 04:59

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-049
Collection Date: 10/22/13 02:10 PM

Work Order: 13101246
Lab ID: 13101246-31
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		200	1,000	µg/Kg-dry	1	11/05/13 04:59
Bromomethane	U		390	2,500	µg/Kg-dry	1	11/05/13 04:59
Carbon disulfide	U		500	1,000	µg/Kg-dry	1	11/05/13 04:59
Carbon tetrachloride	U		290	1,000	µg/Kg-dry	1	11/05/13 04:59
Chlorobenzene	U		410	1,000	µg/Kg-dry	1	11/05/13 04:59
Chloroethane	U		2,200	3,400	µg/Kg-dry	1	11/05/13 04:59
Chloroform	U		420	1,000	µg/Kg-dry	1	11/05/13 04:59
Chloromethane	U		570	3,400	µg/Kg-dry	1	11/05/13 04:59
cis-1,2-Dichloroethene	U		410	1,000	µg/Kg-dry	1	11/05/13 04:59
cis-1,3-Dichloropropene	U		350	1,000	µg/Kg-dry	1	11/05/13 04:59
Cyclohexane	U		460	1,000	µg/Kg-dry	1	11/05/13 04:59
Dibromochloromethane	U		190	1,000	µg/Kg-dry	1	11/05/13 04:59
Dichlorodifluoromethane	U		460	1,000	µg/Kg-dry	1	11/05/13 04:59
Ethylbenzene	U		380	1,000	µg/Kg-dry	1	11/05/13 04:59
Isopropylbenzene	U		440	1,000	µg/Kg-dry	1	11/05/13 04:59
Methyl acetate	11,000		1,400	6,800	µg/Kg-dry	1	11/05/13 04:59
Methyl tert-butyl ether	U		430	1,000	µg/Kg-dry	1	11/05/13 04:59
Methylcyclohexane	U		470	1,000	µg/Kg-dry	1	11/05/13 04:59
Methylene chloride	U		400	1,000	µg/Kg-dry	1	11/05/13 04:59
Styrene	U		380	1,000	µg/Kg-dry	1	11/05/13 04:59
Tetrachloroethene	U		450	1,000	µg/Kg-dry	1	11/05/13 04:59
Toluene	U		380	1,000	µg/Kg-dry	1	11/05/13 04:59
trans-1,2-Dichloroethene	U		310	1,000	µg/Kg-dry	1	11/05/13 04:59
trans-1,3-Dichloropropene	U		340	1,000	µg/Kg-dry	1	11/05/13 04:59
Trichloroethene	U		470	1,000	µg/Kg-dry	1	11/05/13 04:59
Trichlorofluoromethane	U		280	1,000	µg/Kg-dry	1	11/05/13 04:59
Vinyl chloride	U		460	1,000	µg/Kg-dry	1	11/05/13 04:59
Xylenes, Total	U		1,200	3,000	µg/Kg-dry	1	11/05/13 04:59
Surr: 1,2-Dichloroethane-d4	88.8			70-130	%REC	1	11/05/13 04:59
Surr: 4-Bromofluorobenzene	99.4			70-130	%REC	1	11/05/13 04:59
Surr: Dibromofluoromethane	90.6			70-130	%REC	1	11/05/13 04:59
Surr: Toluene-d8	94.9			70-130	%REC	1	11/05/13 04:59

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	72	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-050
Collection Date: 10/22/13 02:20 PM

Work Order: 13101246
Lab ID: 13101246-32
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA			SW7470A			Prep: SW7470 / 10/28/13	Analyst: LR
BatchID: <u>52724</u>							
Mercury	U		0.000080	0.0020	mg/L	1	10/29/13 14:37
TCLP METALS ANALYSIS BY ICP-MS			SW6020A			Prep: SW3005A / 10/27/13	Analyst: RH
BatchID: <u>52720</u>							
Arsenic	U		0.0072	0.010	mg/L	1	10/28/13 19:26
Barium	0.82		0.0027	0.050	mg/L	1	10/28/13 19:26
Cadmium	0.0068		0.00034	0.0020	mg/L	1	10/28/13 19:26
Chromium	0.089		0.00042	0.020	mg/L	1	10/28/13 19:26
Lead	0.025		0.00027	0.010	mg/L	1	10/28/13 19:26
Selenium	0.0047	J	0.0041	0.020	mg/L	1	10/28/13 19:26
Silver	U		0.00025	0.0050	mg/L	1	10/28/13 19:26

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-051
Collection Date: 10/22/13 02:45 PM

Work Order: 13101246
Lab ID: 13101246-33
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		49	86	µg/Kg-dry	1	10/29/13 03:43
Aroclor 1221	U		49	86	µg/Kg-dry	1	10/29/13 03:43
Aroclor 1232	U		49	86	µg/Kg-dry	1	10/29/13 03:43
Aroclor 1242	U		49	86	µg/Kg-dry	1	10/29/13 03:43
Aroclor 1248	U		49	86	µg/Kg-dry	1	10/29/13 03:43
Aroclor 1254	U		31	86	µg/Kg-dry	1	10/29/13 03:43
Aroclor 1260	U		31	86	µg/Kg-dry	1	10/29/13 03:43
Surr: Decachlorobiphenyl	52.1			40-140	%REC	1	10/29/13 03:43
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.021	J	0.00076	0.038	mg/Kg-dry	1	10/30/13 16:00
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	2.9		0.0016	0.41	mg/Kg-dry	1	10/30/13 21:43
Arsenic	0.67		0.055	0.41	mg/Kg-dry	1	10/30/13 21:43
Barium	2.7		0.011	0.41	mg/Kg-dry	1	10/30/13 21:43
Beryllium	0.0073	J	0.0032	0.16	mg/Kg-dry	1	10/30/13 21:43
Cadmium	0.076	J	0.0016	0.16	mg/Kg-dry	1	10/30/13 21:43
Chromium	30		0.067	0.41	mg/Kg-dry	1	10/30/13 21:43
Cobalt	0.60		0.0016	0.41	mg/Kg-dry	1	10/30/13 21:43
Copper	6.0		0.079	0.41	mg/Kg-dry	1	10/30/13 21:43
Iron	3,900		1.3	6.5	mg/Kg-dry	1	10/30/13 21:43
Lead	13		0.0016	0.41	mg/Kg-dry	1	10/30/13 21:43
Manganese	49		0.036	0.41	mg/Kg-dry	1	10/30/13 21:43
Molybdenum	26		0.018	0.41	mg/Kg-dry	1	10/30/13 21:43
Nickel	25		0.041	0.41	mg/Kg-dry	1	10/30/13 21:43
Selenium	U		0.052	0.41	mg/Kg-dry	1	10/30/13 21:43
Silver	0.38	J	0.0016	0.41	mg/Kg-dry	1	10/30/13 21:43
Thallium	U		0.0097	0.41	mg/Kg-dry	1	10/30/13 21:43
Vanadium	0.31	J	0.024	0.41	mg/Kg-dry	1	10/30/13 21:43
Zinc	4.8		0.034	0.81	mg/Kg-dry	1	10/30/13 21:43
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
<u>BatchID: 52689</u>							
2-Methylnaphthalene	U		2.8	6.9	µg/Kg-dry	1	10/28/13 13:15
Acenaphthene	U		1.0	6.9	µg/Kg-dry	1	10/28/13 13:15
Acenaphthylene	U		1.2	6.9	µg/Kg-dry	1	10/28/13 13:15

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-051
Collection Date: 10/22/13 02:45 PM

Work Order: 13101246
Lab ID: 13101246-33
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.3	6.9	µg/Kg-dry	1	10/28/13 13:15
Benzo(a)anthracene	U		1.3	6.9	µg/Kg-dry	1	10/28/13 13:15
Benzo(a)pyrene	U		2.2	6.9	µg/Kg-dry	1	10/28/13 13:15
Benzo(b)fluoranthene	U		2.0	6.9	µg/Kg-dry	1	10/28/13 13:15
Benzo(g,h,i)perylene	U		2.7	6.9	µg/Kg-dry	1	10/28/13 13:15
Benzo(k)fluoranthene	U		1.4	6.9	µg/Kg-dry	1	10/28/13 13:15
Chrysene	U		1.6	6.9	µg/Kg-dry	1	10/28/13 13:15
Dibenzo(a,h)anthracene	U		2.6	6.9	µg/Kg-dry	1	10/28/13 13:15
Fluoranthene	U		2.4	6.9	µg/Kg-dry	1	10/28/13 13:15
Fluorene	U		2.3	6.9	µg/Kg-dry	1	10/28/13 13:15
Indeno(1,2,3-cd)pyrene	U		2.3	6.9	µg/Kg-dry	1	10/28/13 13:15
Naphthalene	U		2.5	6.9	µg/Kg-dry	1	10/28/13 13:15
Phenanthrene	U		1.4	6.9	µg/Kg-dry	1	10/28/13 13:15
Pyrene	U		2.3	6.9	µg/Kg-dry	1	10/28/13 13:15
Surr: 2-Fluorobiphenyl	73.1			12-100	%REC	1	10/28/13 13:15
Surr: 4-Terphenyl-d14	112			25-137	%REC	1	10/28/13 13:15
Surr: Nitrobenzene-d5	73.3			37-107	%REC	1	10/28/13 13:15

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 11/1/13

Analyst: AK

BatchID: 52892

1,1,1-Trichloroethane	U		15	39	µg/Kg-dry	1	11/05/13 05:25
1,1,2,2-Tetrachloroethane	U		17	39	µg/Kg-dry	1	11/05/13 05:25
1,1,2-Trichloroethane	U		14	39	µg/Kg-dry	1	11/05/13 05:25
1,1,2-Trichlorotrifluoroethane	U		14	39	µg/Kg-dry	1	11/05/13 05:25
1,1-Dichloroethane	U		14	39	µg/Kg-dry	1	11/05/13 05:25
1,1-Dichloroethene	U		16	39	µg/Kg-dry	1	11/05/13 05:25
1,2,4-Trichlorobenzene	U		20	39	µg/Kg-dry	1	11/05/13 05:25
1,2-Dibromo-3-chloropropane	U		19	39	µg/Kg-dry	1	11/05/13 05:25
1,2-Dibromoethane	U		15	39	µg/Kg-dry	1	11/05/13 05:25
1,2-Dichlorobenzene	U		15	39	µg/Kg-dry	1	11/05/13 05:25
1,2-Dichloroethane	U		18	39	µg/Kg-dry	1	11/05/13 05:25
1,2-Dichloropropane	U		13	39	µg/Kg-dry	1	11/05/13 05:25
1,3-Dichlorobenzene	U		15	39	µg/Kg-dry	1	11/05/13 05:25
1,4-Dichlorobenzene	U		15	39	µg/Kg-dry	1	11/05/13 05:25
2-Butanone	96	J	96	260	µg/Kg-dry	1	11/05/13 05:25
2-Hexanone	U		9.5	39	µg/Kg-dry	1	11/05/13 05:25
4-Methyl-2-pentanone	U		13	39	µg/Kg-dry	1	11/05/13 05:25
Acetone	U		82	130	µg/Kg-dry	1	11/05/13 05:25
Benzene	U		16	39	µg/Kg-dry	1	11/05/13 05:25
Bromodichloromethane	U		8.7	39	µg/Kg-dry	1	11/05/13 05:25

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-051
Collection Date: 10/22/13 02:45 PM

Work Order: 13101246
Lab ID: 13101246-33
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		7.6	39	µg/Kg-dry	1	11/05/13 05:25
Bromomethane	U		15	97	µg/Kg-dry	1	11/05/13 05:25
Carbon disulfide	U		19	39	µg/Kg-dry	1	11/05/13 05:25
Carbon tetrachloride	U		11	39	µg/Kg-dry	1	11/05/13 05:25
Chlorobenzene	U		16	39	µg/Kg-dry	1	11/05/13 05:25
Chloroethane	U		82	130	µg/Kg-dry	1	11/05/13 05:25
Chloroform	U		16	39	µg/Kg-dry	1	11/05/13 05:25
Chloromethane	U		22	130	µg/Kg-dry	1	11/05/13 05:25
cis-1,2-Dichloroethene	U		16	39	µg/Kg-dry	1	11/05/13 05:25
cis-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	11/05/13 05:25
Cyclohexane	U		17	39	µg/Kg-dry	1	11/05/13 05:25
Dibromochloromethane	U		7.2	39	µg/Kg-dry	1	11/05/13 05:25
Dichlorodifluoromethane	U		17	39	µg/Kg-dry	1	11/05/13 05:25
Ethylbenzene	U		14	39	µg/Kg-dry	1	11/05/13 05:25
Isopropylbenzene	U		17	39	µg/Kg-dry	1	11/05/13 05:25
Methyl acetate	91	J	52	260	µg/Kg-dry	1	11/05/13 05:25
Methyl tert-butyl ether	U		16	39	µg/Kg-dry	1	11/05/13 05:25
Methylcyclohexane	U		18	39	µg/Kg-dry	1	11/05/13 05:25
Methylene chloride	U		15	39	µg/Kg-dry	1	11/05/13 05:25
Styrene	U		14	39	µg/Kg-dry	1	11/05/13 05:25
Tetrachloroethene	U		17	39	µg/Kg-dry	1	11/05/13 05:25
Toluene	U		15	39	µg/Kg-dry	1	11/05/13 05:25
trans-1,2-Dichloroethene	U		12	39	µg/Kg-dry	1	11/05/13 05:25
trans-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	11/05/13 05:25
Trichloroethene	U		18	39	µg/Kg-dry	1	11/05/13 05:25
Trichlorofluoromethane	U		11	39	µg/Kg-dry	1	11/05/13 05:25
Vinyl chloride	U		17	39	µg/Kg-dry	1	11/05/13 05:25
Xylenes, Total	U		46	120	µg/Kg-dry	1	11/05/13 05:25
Surr: 1,2-Dichloroethane-d4	89.8			70-130	%REC	1	11/05/13 05:25
Surr: 4-Bromofluorobenzene	107			70-130	%REC	1	11/05/13 05:25
Surr: Dibromofluoromethane	90.2			70-130	%REC	1	11/05/13 05:25
Surr: Toluene-d8	101			70-130	%REC	1	11/05/13 05:25
MOISTURE			A2540 G				Analyst: MEB
BatchID: R129320							
Moisture	5.0		0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-052
Collection Date: 10/22/13 02:50 PM

Work Order: 13101246
Lab ID: 13101246-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		52	91	µg/Kg-dry	1	10/29/13 03:59
Aroclor 1221	U		52	91	µg/Kg-dry	1	10/29/13 03:59
Aroclor 1232	U		52	91	µg/Kg-dry	1	10/29/13 03:59
Aroclor 1242	U		52	91	µg/Kg-dry	1	10/29/13 03:59
Aroclor 1248	U		52	91	µg/Kg-dry	1	10/29/13 03:59
Aroclor 1254	U		33	91	µg/Kg-dry	1	10/29/13 03:59
Aroclor 1260	U		33	91	µg/Kg-dry	1	10/29/13 03:59
Surr: Decachlorobiphenyl	33.0	S		40-140	%REC	1	10/29/13 03:59
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.017	J	0.00069	0.034	mg/Kg-dry	1	10/30/13 16:02
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	1.7		0.0015	0.39	mg/Kg-dry	1	10/30/13 23:43
Arsenic	0.64		0.053	0.39	mg/Kg-dry	1	10/30/13 23:43
Barium	3.6		0.011	0.39	mg/Kg-dry	1	10/30/13 23:43
Beryllium	0.0086	J	0.0031	0.15	mg/Kg-dry	1	10/30/13 23:43
Cadmium	0.056	J	0.0015	0.15	mg/Kg-dry	1	10/30/13 23:43
Chromium	12		0.063	0.39	mg/Kg-dry	1	10/30/13 23:43
Cobalt	0.31	J	0.0015	0.39	mg/Kg-dry	1	10/30/13 23:43
Copper	2.7		0.076	0.39	mg/Kg-dry	1	10/30/13 23:43
Iron	2,900		1.3	6.2	mg/Kg-dry	1	10/30/13 23:43
Lead	36		0.0015	0.39	mg/Kg-dry	1	10/30/13 23:43
Manganese	29		0.034	0.39	mg/Kg-dry	1	10/30/13 23:43
Molybdenum	11		0.017	0.39	mg/Kg-dry	1	10/30/13 23:43
Nickel	7.7		0.039	0.39	mg/Kg-dry	1	10/30/13 23:43
Selenium	U		0.050	0.39	mg/Kg-dry	1	10/30/13 23:43
Silver	0.45		0.0015	0.39	mg/Kg-dry	1	10/30/13 23:43
Thallium	0.012	J	0.0093	0.39	mg/Kg-dry	1	10/30/13 23:43
Vanadium	0.097	J	0.023	0.39	mg/Kg-dry	1	10/30/13 23:43
Zinc	9.5		0.032	0.77	mg/Kg-dry	1	10/30/13 23:43
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
<u>BatchID: 52689</u>							
2-Methylnaphthalene	U		3.0	7.3	µg/Kg-dry	1	10/28/13 15:31
Acenaphthene	U		1.1	7.3	µg/Kg-dry	1	10/28/13 15:31
Acenaphthylene	U		1.3	7.3	µg/Kg-dry	1	10/28/13 15:31

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-052
Collection Date: 10/22/13 02:50 PM

Work Order: 13101246
Lab ID: 13101246-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.4	7.3	µg/Kg-dry	1	10/28/13 15:31
Benzo(a)anthracene	U		1.4	7.3	µg/Kg-dry	1	10/28/13 15:31
Benzo(a)pyrene	U		2.4	7.3	µg/Kg-dry	1	10/28/13 15:31
Benzo(b)fluoranthene	U		2.1	7.3	µg/Kg-dry	1	10/28/13 15:31
Benzo(g,h,i)perylene	U		2.9	7.3	µg/Kg-dry	1	10/28/13 15:31
Benzo(k)fluoranthene	U		1.5	7.3	µg/Kg-dry	1	10/28/13 15:31
Chrysene	U		1.7	7.3	µg/Kg-dry	1	10/28/13 15:31
Dibenzo(a,h)anthracene	U		2.7	7.3	µg/Kg-dry	1	10/28/13 15:31
Fluoranthene	U		2.6	7.3	µg/Kg-dry	1	10/28/13 15:31
Fluorene	U		2.5	7.3	µg/Kg-dry	1	10/28/13 15:31
Indeno(1,2,3-cd)pyrene	U		2.4	7.3	µg/Kg-dry	1	10/28/13 15:31
Naphthalene	U		2.7	7.3	µg/Kg-dry	1	10/28/13 15:31
Phenanthrene	U		1.5	7.3	µg/Kg-dry	1	10/28/13 15:31
Pyrene	U		2.5	7.3	µg/Kg-dry	1	10/28/13 15:31
Surr: 2-Fluorobiphenyl	65.6			12-100	%REC	1	10/28/13 15:31
Surr: 4-Terphenyl-d14	128			25-137	%REC	1	10/28/13 15:31
Surr: Nitrobenzene-d5	76.5			37-107	%REC	1	10/28/13 15:31

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 11/1/13

Analyst: AK

BatchID: 52892

1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	11/05/13 08:14
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	11/05/13 08:14
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	11/05/13 08:14
1,1,2-Trichlorotrifluoroethane	U		13	34	µg/Kg-dry	1	11/05/13 08:14
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	11/05/13 08:14
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	11/05/13 08:14
1,2,4-Trichlorobenzene	U		17	34	µg/Kg-dry	1	11/05/13 08:14
1,2-Dibromo-3-chloropropane	U		16	34	µg/Kg-dry	1	11/05/13 08:14
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	11/05/13 08:14
1,2-Dichlorobenzene	U		14	34	µg/Kg-dry	1	11/05/13 08:14
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	11/05/13 08:14
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	11/05/13 08:14
1,3-Dichlorobenzene	U		14	34	µg/Kg-dry	1	11/05/13 08:14
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	11/05/13 08:14
2-Butanone	100	J	84	230	µg/Kg-dry	1	11/05/13 08:14
2-Hexanone	U		8.3	34	µg/Kg-dry	1	11/05/13 08:14
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	11/05/13 08:14
Acetone	U		72	110	µg/Kg-dry	1	11/05/13 08:14
Benzene	U		14	34	µg/Kg-dry	1	11/05/13 08:14
Bromodichloromethane	U		7.6	34	µg/Kg-dry	1	11/05/13 08:14

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-052
Collection Date: 10/22/13 02:50 PM

Work Order: 13101246
Lab ID: 13101246-34
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		6.7	34	µg/Kg-dry	1	11/05/13 08:14
Bromomethane	23	J	13	85	µg/Kg-dry	1	11/05/13 08:14
Carbon disulfide	33	J	17	34	µg/Kg-dry	1	11/05/13 08:14
Carbon tetrachloride	U		9.6	34	µg/Kg-dry	1	11/05/13 08:14
Chlorobenzene	U		14	34	µg/Kg-dry	1	11/05/13 08:14
Chloroethane	U		72	110	µg/Kg-dry	1	11/05/13 08:14
Chloroform	U		14	34	µg/Kg-dry	1	11/05/13 08:14
Chloromethane	56	J	19	110	µg/Kg-dry	1	11/05/13 08:14
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	11/05/13 08:14
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	11/05/13 08:14
Cyclohexane	U		15	34	µg/Kg-dry	1	11/05/13 08:14
Dibromochloromethane	U		6.3	34	µg/Kg-dry	1	11/05/13 08:14
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	11/05/13 08:14
Ethylbenzene	U		13	34	µg/Kg-dry	1	11/05/13 08:14
Isopropylbenzene	U		15	34	µg/Kg-dry	1	11/05/13 08:14
Methyl acetate	97	J	45	230	µg/Kg-dry	1	11/05/13 08:14
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	11/05/13 08:14
Methylcyclohexane	U		16	34	µg/Kg-dry	1	11/05/13 08:14
Methylene chloride	U		13	34	µg/Kg-dry	1	11/05/13 08:14
Styrene	U		13	34	µg/Kg-dry	1	11/05/13 08:14
Tetrachloroethene	U		15	34	µg/Kg-dry	1	11/05/13 08:14
Toluene	U		13	34	µg/Kg-dry	1	11/05/13 08:14
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	11/05/13 08:14
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	11/05/13 08:14
Trichloroethene	U		16	34	µg/Kg-dry	1	11/05/13 08:14
Trichlorofluoromethane	U		9.3	34	µg/Kg-dry	1	11/05/13 08:14
Vinyl chloride	U		15	34	µg/Kg-dry	1	11/05/13 08:14
Xylenes, Total	U		40	100	µg/Kg-dry	1	11/05/13 08:14
Surr: 1,2-Dichloroethane-d4	88.4			70-130	%REC	1	11/05/13 08:14
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	11/05/13 08:14
Surr: Dibromofluoromethane	93.4			70-130	%REC	1	11/05/13 08:14
Surr: Toluene-d8	98.1			70-130	%REC	1	11/05/13 08:14

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	10	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-053
Collection Date: 10/22/13 02:55 PM

Work Order: 13101246
Lab ID: 13101246-35
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS							
			SW8082			Prep: SW3541 / 10/27/13	Analyst: JD
<u>BatchID: 52693</u>							
Aroclor 1016	U		54	95	µg/Kg-dry	1	10/29/13 04:16
Aroclor 1221	U		54	95	µg/Kg-dry	1	10/29/13 04:16
Aroclor 1232	U		54	95	µg/Kg-dry	1	10/29/13 04:16
Aroclor 1242	U		54	95	µg/Kg-dry	1	10/29/13 04:16
Aroclor 1248	U		54	95	µg/Kg-dry	1	10/29/13 04:16
Aroclor 1254	U		35	95	µg/Kg-dry	1	10/29/13 04:16
Aroclor 1260	U		35	95	µg/Kg-dry	1	10/29/13 04:16
Surr: Decachlorobiphenyl	67.1			40-140	%REC	1	10/29/13 04:16
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.037	J	0.00086	0.043	mg/Kg-dry	1	10/30/13 16:04
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.16	J	0.0017	0.42	mg/Kg-dry	1	10/30/13 23:49
Arsenic	1.7		0.057	0.42	mg/Kg-dry	1	10/30/13 23:49
Barium	12		0.012	0.42	mg/Kg-dry	1	10/30/13 23:49
Beryllium	0.076	J	0.0033	0.17	mg/Kg-dry	1	10/30/13 23:49
Cadmium	0.12	J	0.0017	0.17	mg/Kg-dry	1	10/30/13 23:49
Chromium	4.7		0.068	0.42	mg/Kg-dry	1	10/30/13 23:49
Cobalt	0.59		0.0017	0.42	mg/Kg-dry	1	10/30/13 23:49
Copper	5.1		0.082	0.42	mg/Kg-dry	1	10/30/13 23:49
Iron	2,500		1.4	6.7	mg/Kg-dry	1	10/30/13 23:49
Lead	3.2		0.0017	0.42	mg/Kg-dry	1	10/30/13 23:49
Manganese	25		0.037	0.42	mg/Kg-dry	1	10/30/13 23:49
Molybdenum	0.63		0.018	0.42	mg/Kg-dry	1	10/30/13 23:49
Nickel	2.3		0.042	0.42	mg/Kg-dry	1	10/30/13 23:49
Selenium	0.70		0.053	0.42	mg/Kg-dry	1	10/30/13 23:49
Silver	0.023	J	0.0017	0.42	mg/Kg-dry	1	10/30/13 23:49
Thallium	0.045	J	0.010	0.42	mg/Kg-dry	1	10/30/13 23:49
Vanadium	8.7		0.025	0.42	mg/Kg-dry	1	10/30/13 23:49
Zinc	4.5		0.035	0.83	mg/Kg-dry	1	10/30/13 23:49
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
<u>BatchID: 52689</u>							
2-Methylnaphthalene	U		3.2	7.6	µg/Kg-dry	1	10/28/13 13:38
Acenaphthene	U		1.1	7.6	µg/Kg-dry	1	10/28/13 13:38
Acenaphthylene	U		1.4	7.6	µg/Kg-dry	1	10/28/13 13:38

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-053
Collection Date: 10/22/13 02:55 PM

Work Order: 13101246
Lab ID: 13101246-35
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	U		1.5	7.6	µg/Kg-dry	1	10/28/13 13:38
Benzo(a)anthracene	U		1.5	7.6	µg/Kg-dry	1	10/28/13 13:38
Benzo(a)pyrene	U		2.5	7.6	µg/Kg-dry	1	10/28/13 13:38
Benzo(b)fluoranthene	U		2.2	7.6	µg/Kg-dry	1	10/28/13 13:38
Benzo(g,h,i)perylene	U		3.0	7.6	µg/Kg-dry	1	10/28/13 13:38
Benzo(k)fluoranthene	U		1.6	7.6	µg/Kg-dry	1	10/28/13 13:38
Chrysene	U		1.8	7.6	µg/Kg-dry	1	10/28/13 13:38
Dibenzo(a,h)anthracene	U		2.8	7.6	µg/Kg-dry	1	10/28/13 13:38
Fluoranthene	U		2.7	7.6	µg/Kg-dry	1	10/28/13 13:38
Fluorene	U		2.6	7.6	µg/Kg-dry	1	10/28/13 13:38
Indeno(1,2,3-cd)pyrene	U		2.5	7.6	µg/Kg-dry	1	10/28/13 13:38
Naphthalene	U		2.8	7.6	µg/Kg-dry	1	10/28/13 13:38
Phenanthrene	21		1.5	7.6	µg/Kg-dry	1	10/28/13 13:38
Pyrene	U		2.6	7.6	µg/Kg-dry	1	10/28/13 13:38
Surr: 2-Fluorobiphenyl	64.3			12-100	%REC	1	10/28/13 13:38
Surr: 4-Terphenyl-d14	105			25-137	%REC	1	10/28/13 13:38
Surr: Nitrobenzene-d5	65.5			37-107	%REC	1	10/28/13 13:38

VOLATILE ORGANIC COMPOUNDS

SW8260B

Prep: SW5035 / 11/1/13

Analyst: AK

BatchID: 52892

1,1,1-Trichloroethane	U		19	50	µg/Kg-dry	1	11/05/13 05:49
1,1,2,2-Tetrachloroethane	U		22	50	µg/Kg-dry	1	11/05/13 05:49
1,1,2-Trichloroethane	U		18	50	µg/Kg-dry	1	11/05/13 05:49
1,1,2-Trichlorotrifluoroethane	U		18	50	µg/Kg-dry	1	11/05/13 05:49
1,1-Dichloroethane	U		18	50	µg/Kg-dry	1	11/05/13 05:49
1,1-Dichloroethene	U		21	50	µg/Kg-dry	1	11/05/13 05:49
1,2,4-Trichlorobenzene	U		26	50	µg/Kg-dry	1	11/05/13 05:49
1,2-Dibromo-3-chloropropane	U		24	50	µg/Kg-dry	1	11/05/13 05:49
1,2-Dibromoethane	U		20	50	µg/Kg-dry	1	11/05/13 05:49
1,2-Dichlorobenzene	U		20	50	µg/Kg-dry	1	11/05/13 05:49
1,2-Dichloroethane	U		24	50	µg/Kg-dry	1	11/05/13 05:49
1,2-Dichloropropane	U		17	50	µg/Kg-dry	1	11/05/13 05:49
1,3-Dichlorobenzene	U		20	50	µg/Kg-dry	1	11/05/13 05:49
1,4-Dichlorobenzene	U		19	50	µg/Kg-dry	1	11/05/13 05:49
2-Butanone	U		120	330	µg/Kg-dry	1	11/05/13 05:49
2-Hexanone	U		12	50	µg/Kg-dry	1	11/05/13 05:49
4-Methyl-2-pentanone	U		17	50	µg/Kg-dry	1	11/05/13 05:49
Acetone	U		110	170	µg/Kg-dry	1	11/05/13 05:49
Benzene	U		20	50	µg/Kg-dry	1	11/05/13 05:49
Bromodichloromethane	U		11	50	µg/Kg-dry	1	11/05/13 05:49

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-053
Collection Date: 10/22/13 02:55 PM

Work Order: 13101246
Lab ID: 13101246-35
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		9.8	50	µg/Kg-dry	1	11/05/13 05:49
Bromomethane	U		19	120	µg/Kg-dry	1	11/05/13 05:49
Carbon disulfide	U		25	50	µg/Kg-dry	1	11/05/13 05:49
Carbon tetrachloride	U		14	50	µg/Kg-dry	1	11/05/13 05:49
Chlorobenzene	U		20	50	µg/Kg-dry	1	11/05/13 05:49
Chloroethane	U		110	170	µg/Kg-dry	1	11/05/13 05:49
Chloroform	U		21	50	µg/Kg-dry	1	11/05/13 05:49
Chloromethane	U		28	170	µg/Kg-dry	1	11/05/13 05:49
cis-1,2-Dichloroethene	U		20	50	µg/Kg-dry	1	11/05/13 05:49
cis-1,3-Dichloropropene	U		17	50	µg/Kg-dry	1	11/05/13 05:49
Cyclohexane	U		22	50	µg/Kg-dry	1	11/05/13 05:49
Dibromochloromethane	U		9.2	50	µg/Kg-dry	1	11/05/13 05:49
Dichlorodifluoromethane	U		23	50	µg/Kg-dry	1	11/05/13 05:49
Ethylbenzene	U		19	50	µg/Kg-dry	1	11/05/13 05:49
Isopropylbenzene	U		22	50	µg/Kg-dry	1	11/05/13 05:49
Methyl acetate	170	J	67	330	µg/Kg-dry	1	11/05/13 05:49
Methyl tert-butyl ether	U		21	50	µg/Kg-dry	1	11/05/13 05:49
Methylcyclohexane	U		23	50	µg/Kg-dry	1	11/05/13 05:49
Methylene chloride	U		20	50	µg/Kg-dry	1	11/05/13 05:49
Styrene	U		19	50	µg/Kg-dry	1	11/05/13 05:49
Tetrachloroethene	U		22	50	µg/Kg-dry	1	11/05/13 05:49
Toluene	U		19	50	µg/Kg-dry	1	11/05/13 05:49
trans-1,2-Dichloroethene	U		15	50	µg/Kg-dry	1	11/05/13 05:49
trans-1,3-Dichloropropene	U		17	50	µg/Kg-dry	1	11/05/13 05:49
Trichloroethene	U		23	50	µg/Kg-dry	1	11/05/13 05:49
Trichlorofluoromethane	U		14	50	µg/Kg-dry	1	11/05/13 05:49
Vinyl chloride	U		23	50	µg/Kg-dry	1	11/05/13 05:49
Xylenes, Total	U		59	150	µg/Kg-dry	1	11/05/13 05:49
Surr: 1,2-Dichloroethane-d4	87.6			70-130	%REC	1	11/05/13 05:49
Surr: 4-Bromofluorobenzene	106			70-130	%REC	1	11/05/13 05:49
Surr: Dibromofluoromethane	91.2			70-130	%REC	1	11/05/13 05:49
Surr: Toluene-d8	98.3			70-130	%REC	1	11/05/13 05:49

MOISTURE

A2540 G

Analyst: MEB

BatchID: R129320

Moisture	13	0.025	0.050	% of sample	1	10/25/13 18:50

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-054
Collection Date: 10/22/13 03:15 PM

Work Order: 13101246
Lab ID: 13101246-36
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA							
			SW7470A			Prep: SW7470 / 10/28/13	Analyst: LR
BatchID: <u>52724</u>							
Mercury	U		0.000080	0.0020	mg/L	1	10/29/13 14:41
TCLP METALS ANALYSIS BY ICP-MS							
			SW6020A			Prep: SW3005A / 10/27/13	Analyst: RH
BatchID: <u>52720</u>							
Arsenic	U		0.0072	0.010	mg/L	1	10/28/13 19:32
Barium	0.57		0.0027	0.050	mg/L	1	10/28/13 19:32
Cadmium	0.036		0.00034	0.0020	mg/L	1	10/28/13 19:32
Chromium	0.0029	J	0.00042	0.020	mg/L	1	10/28/13 19:32
Lead	0.087		0.00027	0.010	mg/L	1	10/28/13 19:32
Selenium	U		0.0041	0.020	mg/L	1	10/28/13 19:32
Silver	U		0.00025	0.0050	mg/L	1	10/28/13 19:32
TCLP VOLATILE ORGANICS							
			SW8260			Leachate: SW1311 / 11/4/13	Analyst: RS
BatchID: <u>R129805</u>							
1,1-Dichloroethene	U		3.9	20	µg/L	20	11/04/13 21:49
1,2-Dichloroethane	U		3.0	20	µg/L	20	11/04/13 21:49
2-Butanone	U		7.1	200	µg/L	20	11/04/13 21:49
Benzene	U		3.6	20	µg/L	20	11/04/13 21:49
Carbon tetrachloride	U		3.2	20	µg/L	20	11/04/13 21:49
Chlorobenzene	U		2.9	20	µg/L	20	11/04/13 21:49
Chloroform	U		3.8	20	µg/L	20	11/04/13 21:49
Tetrachloroethene	U		2.7	20	µg/L	20	11/04/13 21:49
Trichloroethene	U		3.8	20	µg/L	20	11/04/13 21:49
Vinyl chloride	U		5.6	20	µg/L	20	11/04/13 21:49
Surr: 1,2-Dichloroethane-d4	96.0			70-130	%REC	20	11/04/13 21:49
Surr: 4-Bromofluorobenzene	91.6			70-130	%REC	20	11/04/13 21:49
Surr: Dibromofluoromethane	99.6			70-130	%REC	20	11/04/13 21:49
Surr: Toluene-d8	96.4			70-130	%REC	20	11/04/13 21:49

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-055
Collection Date: 10/22/13 03:25 PM

Work Order: 13101246
Lab ID: 13101246-37
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA			SW7470A			Prep: SW7470 / 10/28/13	Analyst: LR
BatchID: <u>52724</u>							
Mercury	U		0.000080	0.0020	mg/L	1	10/29/13 14:43
TCLP METALS ANALYSIS BY ICP-MS			SW6020A			Prep: SW3005A / 10/27/13	Analyst: RH
BatchID: <u>52720</u>							
Arsenic	0.0097	J	0.0072	0.010	mg/L	1	10/28/13 19:37
Barium	0.22		0.0027	0.050	mg/L	1	10/28/13 19:37
Cadmium	0.0041		0.00034	0.0020	mg/L	1	10/28/13 19:37
Chromium	0.0042	J	0.00042	0.020	mg/L	1	10/28/13 19:37
Lead	0.0055	J	0.00027	0.010	mg/L	1	10/28/13 19:37
Selenium	0.0046	J	0.0041	0.020	mg/L	1	10/28/13 19:37
Silver	0.0020	J	0.00025	0.0050	mg/L	1	10/28/13 19:37
TCLP VOLATILE ORGANICS			SW8260			Leachate: SW1311 / 11/4/13	Analyst: RS
BatchID: <u>R129805</u>							
1,1-Dichloroethene	U		3.9	20	µg/L	20	11/04/13 22:14
1,2-Dichloroethane	U		3.0	20	µg/L	20	11/04/13 22:14
2-Butanone	U		7.1	200	µg/L	20	11/04/13 22:14
Benzene	U		3.6	20	µg/L	20	11/04/13 22:14
Carbon tetrachloride	U		3.2	20	µg/L	20	11/04/13 22:14
Chlorobenzene	U		2.9	20	µg/L	20	11/04/13 22:14
Chloroform	U		3.8	20	µg/L	20	11/04/13 22:14
Tetrachloroethene	U		2.7	20	µg/L	20	11/04/13 22:14
Trichloroethene	U		3.8	20	µg/L	20	11/04/13 22:14
Vinyl chloride	U		5.6	20	µg/L	20	11/04/13 22:14
Surr: 1,2-Dichloroethane-d4	95.6			70-130	%REC	20	11/04/13 22:14
Surr: 4-Bromofluorobenzene	90.6			70-130	%REC	20	11/04/13 22:14
Surr: Dibromofluoromethane	101			70-130	%REC	20	11/04/13 22:14
Surr: Toluene-d8	97.0			70-130	%REC	20	11/04/13 22:14

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-056
Collection Date: 10/22/13 03:40 PM

Work Order: 13101246
Lab ID: 13101246-38
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA							
			SW7470A			Prep: SW7470 / 10/28/13	Analyst: LR
BatchID: <u>52724</u>							
Mercury	U		0.000080	0.0020	mg/L	1	10/29/13 14:45
TCLP METALS ANALYSIS BY ICP-MS							
			SW6020A			Prep: SW3005A / 10/27/13	Analyst: RH
BatchID: <u>52720</u>							
Arsenic	U		0.0072	0.010	mg/L	1	10/28/13 19:43
Barium	0.19		0.0027	0.050	mg/L	1	10/28/13 19:43
Cadmium	0.0047		0.00034	0.0020	mg/L	1	10/28/13 19:43
Chromium	0.0026	J	0.00042	0.020	mg/L	1	10/28/13 19:43
Lead	0.0068	J	0.00027	0.010	mg/L	1	10/28/13 19:43
Selenium	0.0046	J	0.0041	0.020	mg/L	1	10/28/13 19:43
Silver	U		0.00025	0.0050	mg/L	1	10/28/13 19:43
TCLP VOLATILE ORGANICS							
			SW8260			Leachate: SW1311 / 11/4/13	Analyst: RS
BatchID: <u>R129805</u>							
1,1-Dichloroethene	U		3.9	20	µg/L	20	11/04/13 20:37
1,2-Dichloroethane	U		3.0	20	µg/L	20	11/04/13 20:37
2-Butanone	U		7.1	200	µg/L	20	11/04/13 20:37
Benzene	U		3.6	20	µg/L	20	11/04/13 20:37
Carbon tetrachloride	U		3.2	20	µg/L	20	11/04/13 20:37
Chlorobenzene	U		2.9	20	µg/L	20	11/04/13 20:37
Chloroform	U		3.8	20	µg/L	20	11/04/13 20:37
Tetrachloroethene	U		2.7	20	µg/L	20	11/04/13 20:37
Trichloroethene	U		3.8	20	µg/L	20	11/04/13 20:37
Vinyl chloride	U		5.6	20	µg/L	20	11/04/13 20:37
Surr: 1,2-Dichloroethane-d4	94.5			70-130	%REC	20	11/04/13 20:37
Surr: 4-Bromofluorobenzene	93.4			70-130	%REC	20	11/04/13 20:37
Surr: Dibromofluoromethane	97.4			70-130	%REC	20	11/04/13 20:37
Surr: Toluene-d8	96.4			70-130	%REC	20	11/04/13 20:37

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-057
Collection Date: 10/22/13 03:55 PM

Work Order: 13101246
Lab ID: 13101246-39
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA							
			SW7470A			Prep: SW7470 / 10/28/13	Analyst: LR
BatchID: <u>52724</u>							
Mercury	U		0.000080	0.0020	mg/L	1	10/30/13 14:10
TCLP METALS ANALYSIS BY ICP-MS							
			SW6020A			Prep: SW3005A / 10/27/13	Analyst: RH
BatchID: <u>52720</u>							
Arsenic	U		0.0072	0.010	mg/L	1	10/28/13 19:49
Barium	0.27		0.0027	0.050	mg/L	1	10/28/13 19:49
Cadmium	0.0055		0.00034	0.0020	mg/L	1	10/28/13 19:49
Chromium	0.0093	J	0.00042	0.020	mg/L	1	10/28/13 19:49
Lead	0.27		0.00027	0.010	mg/L	1	10/28/13 19:49
Selenium	0.0044	J	0.0041	0.020	mg/L	1	10/28/13 19:49
Silver	U		0.00025	0.0050	mg/L	1	10/28/13 19:49
TCLP VOLATILE ORGANICS							
			SW8260			Leachate: SW1311 / 11/5/13	Analyst: BG
BatchID: <u>R129907</u>							
1,1-Dichloroethene	U		2.3	20	µg/L	20	11/05/13 21:33
1,2-Dichloroethane	U		2.2	20	µg/L	20	11/05/13 21:33
2-Butanone	U		13	200	µg/L	20	11/05/13 21:33
Benzene	U		2.9	20	µg/L	20	11/05/13 21:33
Carbon tetrachloride	U		3.3	20	µg/L	20	11/05/13 21:33
Chlorobenzene	U		2.4	20	µg/L	20	11/05/13 21:33
Chloroform	U		2.9	20	µg/L	20	11/05/13 21:33
Tetrachloroethene	U		2.0	20	µg/L	20	11/05/13 21:33
Trichloroethene	U		3.1	20	µg/L	20	11/05/13 21:33
Vinyl chloride	U		3.0	20	µg/L	20	11/05/13 21:33
Surr: 1,2-Dichloroethane-d4	97.4			70-130	%REC	20	11/05/13 21:33
Surr: 4-Bromofluorobenzene	95.8			70-130	%REC	20	11/05/13 21:33
Surr: Dibromofluoromethane	95.0			70-130	%REC	20	11/05/13 21:33
Surr: Toluene-d8	98.4			70-130	%REC	20	11/05/13 21:33

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-058
Collection Date: 10/22/13 04:30 PM

Work Order: 13101246
Lab ID: 13101246-40
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
BatchID: 52719							
Mercury	0.026	J	0.00072	0.036	mg/Kg-dry	1	10/30/13 16:06
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52747							
Antimony	0.27	J	0.0085	2.1	mg/Kg-dry	5	10/30/13 08:59
Arsenic	2.0	J	0.29	2.1	mg/Kg-dry	5	10/30/13 23:55
Barium	23		0.059	2.1	mg/Kg-dry	5	10/30/13 23:55
Beryllium	0.12	J	0.017	0.85	mg/Kg-dry	5	10/30/13 23:55
Cadmium	0.16	J	0.0085	0.85	mg/Kg-dry	5	10/30/13 23:55
Chromium	12		0.35	2.1	mg/Kg-dry	5	10/30/13 08:59
Cobalt	2.4		0.0085	2.1	mg/Kg-dry	5	10/30/13 08:59
Copper	15		0.41	2.1	mg/Kg-dry	5	10/30/13 08:59
Iron	5,200		7.0	34	mg/Kg-dry	5	10/30/13 08:59
Lead	14		0.0085	2.1	mg/Kg-dry	5	10/30/13 23:55
Manganese	140		0.19	2.1	mg/Kg-dry	5	10/30/13 08:59
Molybdenum	2.9		0.093	2.1	mg/Kg-dry	5	10/30/13 23:55
Nickel	9.9		0.21	2.1	mg/Kg-dry	5	10/30/13 08:59
Selenium	U		0.27	2.1	mg/Kg-dry	5	10/30/13 08:59
Silver	0.18	J	0.0085	2.1	mg/Kg-dry	5	10/30/13 08:59
Thallium	0.058	J	0.051	2.1	mg/Kg-dry	5	10/30/13 23:55
Vanadium	7.5		0.13	2.1	mg/Kg-dry	5	10/30/13 08:59
Zinc	25		0.18	4.2	mg/Kg-dry	5	10/30/13 08:59
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
BatchID: 52689							
2-Methylnaphthalene	56		3.0	7.2	µg/Kg-dry	1	10/28/13 20:46
Acenaphthene	U		1.1	7.2	µg/Kg-dry	1	10/28/13 20:46
Acenaphthylene	120		1.3	7.2	µg/Kg-dry	1	10/28/13 20:46
Anthracene	710		1.4	7.2	µg/Kg-dry	1	10/28/13 20:46
Dibenzo(a,h)anthracene	340		2.7	7.2	µg/Kg-dry	1	10/28/13 20:46
Fluorene	260		2.4	7.2	µg/Kg-dry	1	10/28/13 20:46
Indeno(1,2,3-cd)pyrene	1,400		2.4	7.2	µg/Kg-dry	1	10/28/13 20:46
Naphthalene	36		2.6	7.2	µg/Kg-dry	1	10/28/13 20:46
Surr: 2-Fluorobiphenyl	73.0			12-100	%REC	1	10/28/13 20:46
Surr: 4-Terphenyl-d14	111			25-137	%REC	1	10/28/13 20:46
Surr: Nitrobenzene-d5	72.0			37-107	%REC	1	10/28/13 20:46
BatchID: 52689							
Benzo(a)anthracene	2,200		5.7	29	µg/Kg-dry	4	10/30/13 12:23

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-058
Collection Date: 10/22/13 04:30 PM

Work Order: 13101246
Lab ID: 13101246-40
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Benzo(a)pyrene	2,700		9.3	29	µg/Kg-dry	4	10/30/13 12:23
Benzo(b)fluoranthene	2,700		8.4	29	µg/Kg-dry	4	10/30/13 12:23
Benzo(g,h,i)perylene	1,600		11	29	µg/Kg-dry	4	10/30/13 12:23
Benzo(k)fluoranthene	2,500		6.1	29	µg/Kg-dry	4	10/30/13 12:23
Chrysene	2,400		6.8	29	µg/Kg-dry	4	10/30/13 12:23
Fluoranthene	5,000		10	29	µg/Kg-dry	4	10/30/13 12:23
Phenanthrene	2,700		5.7	29	µg/Kg-dry	4	10/30/13 12:23
Pyrene	4,200		9.7	29	µg/Kg-dry	4	10/30/13 12:23
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		12	32	µg/Kg-dry	1	10/28/13 22:02
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	10/28/13 22:02
1,1,2-Trichloroethane	U		11	32	µg/Kg-dry	1	10/28/13 22:02
1,1,2-Trichlorotrifluoroethane	U		12	32	µg/Kg-dry	1	10/28/13 22:02
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	10/28/13 22:02
1,1-Dichloroethene	U		14	32	µg/Kg-dry	1	10/28/13 22:02
1,2,4-Trichlorobenzene	U		17	32	µg/Kg-dry	1	10/28/13 22:02
1,2-Dibromo-3-chloropropane	U		16	32	µg/Kg-dry	1	10/28/13 22:02
1,2-Dibromoethane	U		13	32	µg/Kg-dry	1	10/28/13 22:02
1,2-Dichlorobenzene	U		13	32	µg/Kg-dry	1	10/28/13 22:02
1,2-Dichloroethane	U		15	32	µg/Kg-dry	1	10/28/13 22:02
1,2-Dichloropropane	U		11	32	µg/Kg-dry	1	10/28/13 22:02
1,3-Dichlorobenzene	U		13	32	µg/Kg-dry	1	10/28/13 22:02
1,4-Dichlorobenzene	U		12	32	µg/Kg-dry	1	10/28/13 22:02
2-Butanone	U		80	220	µg/Kg-dry	1	10/28/13 22:02
2-Hexanone	U		7.9	32	µg/Kg-dry	1	10/28/13 22:02
4-Methyl-2-pentanone	U		11	32	µg/Kg-dry	1	10/28/13 22:02
Acetone	U		69	110	µg/Kg-dry	1	10/28/13 22:02
Benzene	U		13	32	µg/Kg-dry	1	10/28/13 22:02
Bromodichloromethane	U		7.3	32	µg/Kg-dry	1	10/28/13 22:02
Bromoform	U		6.4	32	µg/Kg-dry	1	10/28/13 22:02
Bromomethane	U		12	81	µg/Kg-dry	1	10/28/13 22:02
Carbon disulfide	U		16	32	µg/Kg-dry	1	10/28/13 22:02
Carbon tetrachloride	U		9.2	32	µg/Kg-dry	1	10/28/13 22:02
Chlorobenzene	U		13	32	µg/Kg-dry	1	10/28/13 22:02
Chloroethane	U		69	110	µg/Kg-dry	1	10/28/13 22:02
Chloroform	U		13	32	µg/Kg-dry	1	10/28/13 22:02
Chloromethane	U		18	110	µg/Kg-dry	1	10/28/13 22:02
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	10/28/13 22:02

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-058
Collection Date: 10/22/13 04:30 PM

Work Order: 13101246
Lab ID: 13101246-40
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	10/28/13 22:02
Cyclohexane	U		15	32	µg/Kg-dry	1	10/28/13 22:02
Dibromochloromethane	U		6.0	32	µg/Kg-dry	1	10/28/13 22:02
Dichlorodifluoromethane	U		15	32	µg/Kg-dry	1	10/28/13 22:02
Ethylbenzene	U		12	32	µg/Kg-dry	1	10/28/13 22:02
Isopropylbenzene	U		14	32	µg/Kg-dry	1	10/28/13 22:02
Methyl acetate	U		43	220	µg/Kg-dry	1	10/28/13 22:02
Methyl tert-butyl ether	U		14	32	µg/Kg-dry	1	10/28/13 22:02
Methylcyclohexane	U		15	32	µg/Kg-dry	1	10/28/13 22:02
Methylene chloride	U		13	32	µg/Kg-dry	1	10/28/13 22:02
Styrene	U		12	32	µg/Kg-dry	1	10/28/13 22:02
Tetrachloroethene	U		14	32	µg/Kg-dry	1	10/28/13 22:02
Toluene	U		12	32	µg/Kg-dry	1	10/28/13 22:02
trans-1,2-Dichloroethene	U		10	32	µg/Kg-dry	1	10/28/13 22:02
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	10/28/13 22:02
Trichloroethene	320		15	32	µg/Kg-dry	1	10/28/13 22:02
Trichlorofluoromethane	U		8.9	32	µg/Kg-dry	1	10/28/13 22:02
Vinyl chloride	U		15	32	µg/Kg-dry	1	10/28/13 22:02
Xylenes, Total	U		38	97	µg/Kg-dry	1	10/28/13 22:02
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	10/28/13 22:02
Surr: 4-Bromofluorobenzene	98.6			70-130	%REC	1	10/28/13 22:02
Surr: Dibromofluoromethane	99.2			70-130	%REC	1	10/28/13 22:02
Surr: Toluene-d8	99.5			70-130	%REC	1	10/28/13 22:02
MOISTURE			A2540 G			Analyst: MEB	
BatchID: R129428							
Moisture	7.3		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-059
Collection Date: 10/22/13 04:35 PM

Work Order: 13101246
Lab ID: 13101246-41
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
<u>BatchID: 52719</u>							
Mercury	0.034	J	0.00076	0.038	mg/Kg-dry	1	10/30/13 16:14
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52747</u>							
Antimony	0.36	J	0.0075	1.9	mg/Kg-dry	5	10/30/13 09:05
Arsenic	3.0		0.26	1.9	mg/Kg-dry	5	10/31/13 00:01
Barium	27		0.053	1.9	mg/Kg-dry	5	10/31/13 00:01
Beryllium	0.18	J	0.015	0.75	mg/Kg-dry	5	10/31/13 00:01
Cadmium	0.18	J	0.0075	0.75	mg/Kg-dry	5	10/31/13 00:01
Chromium	9.2		0.31	1.9	mg/Kg-dry	5	10/30/13 09:05
Cobalt	2.5		0.0075	1.9	mg/Kg-dry	5	10/30/13 09:05
Copper	8.6		0.37	1.9	mg/Kg-dry	5	10/30/13 09:05
Iron	5,700		6.3	30	mg/Kg-dry	5	10/30/13 09:05
Lead	14		0.0075	1.9	mg/Kg-dry	5	10/31/13 00:01
Manganese	110		0.17	1.9	mg/Kg-dry	5	10/30/13 09:05
Molybdenum	2.0		0.083	1.9	mg/Kg-dry	5	10/31/13 00:01
Nickel	7.6		0.19	1.9	mg/Kg-dry	5	10/30/13 09:05
Selenium	U		0.24	1.9	mg/Kg-dry	5	10/30/13 09:05
Silver	0.18	J	0.0075	1.9	mg/Kg-dry	5	10/30/13 09:05
Thallium	0.056	J	0.045	1.9	mg/Kg-dry	5	10/31/13 00:01
Vanadium	8.4		0.11	1.9	mg/Kg-dry	5	10/30/13 09:05
Zinc	77		0.16	3.8	mg/Kg-dry	5	10/30/13 09:05
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
<u>BatchID: 52689</u>							
2-Methylnaphthalene	U		57	140	µg/Kg-dry	20	10/28/13 17:46
Acenaphthene	U		21	140	µg/Kg-dry	20	10/28/13 17:46
Acenaphthylene	U		25	140	µg/Kg-dry	20	10/28/13 17:46
Anthracene	660		27	140	µg/Kg-dry	20	10/28/13 17:46
Benzo(a)anthracene	1,500		27	140	µg/Kg-dry	20	10/28/13 17:46
Benzo(a)pyrene	1,100		45	140	µg/Kg-dry	20	10/28/13 17:46
Benzo(b)fluoranthene	1,200		40	140	µg/Kg-dry	20	10/28/13 17:46
Benzo(g,h,i)perylene	1,100		54	140	µg/Kg-dry	20	10/28/13 17:46
Benzo(k)fluoranthene	1,100		29	140	µg/Kg-dry	20	10/28/13 17:46
Chrysene	1,200		33	140	µg/Kg-dry	20	10/28/13 17:46
Dibenzo(a,h)anthracene	U		51	140	µg/Kg-dry	20	10/28/13 17:46
Fluoranthene	2,800		48	140	µg/Kg-dry	20	10/28/13 17:46
Fluorene	U		46	140	µg/Kg-dry	20	10/28/13 17:46

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-059
Collection Date: 10/22/13 04:35 PM

Work Order: 13101246
Lab ID: 13101246-41
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	600		46	140	µg/Kg-dry	20	10/28/13 17:46
Naphthalene	U		51	140	µg/Kg-dry	20	10/28/13 17:46
Phenanthrene	1,700		28	140	µg/Kg-dry	20	10/28/13 17:46
Pyrene	1,900		47	140	µg/Kg-dry	20	10/28/13 17:46
Surr: 2-Fluorobiphenyl	61.6			12-100	%REC	20	10/28/13 17:46
Surr: 4-Terphenyl-d14	71.6			25-137	%REC	20	10/28/13 17:46
Surr: Nitrobenzene-d5	66.8			37-107	%REC	20	10/28/13 17:46
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
<u>BatchID: 52677</u>							
1,1,1-Trichloroethane	U		14	36	µg/Kg-dry	1	10/28/13 22:25
1,1,2,2-Tetrachloroethane	U		16	36	µg/Kg-dry	1	10/28/13 22:25
1,1,2-Trichloroethane	U		13	36	µg/Kg-dry	1	10/28/13 22:25
1,1,2-Trichlorotrifluoroethane	U		13	36	µg/Kg-dry	1	10/28/13 22:25
1,1-Dichloroethane	U		13	36	µg/Kg-dry	1	10/28/13 22:25
1,1-Dichloroethene	U		15	36	µg/Kg-dry	1	10/28/13 22:25
1,2,4-Trichlorobenzene	U		19	36	µg/Kg-dry	1	10/28/13 22:25
1,2-Dibromo-3-chloropropane	U		18	36	µg/Kg-dry	1	10/28/13 22:25
1,2-Dibromoethane	U		14	36	µg/Kg-dry	1	10/28/13 22:25
1,2-Dichlorobenzene	U		14	36	µg/Kg-dry	1	10/28/13 22:25
1,2-Dichloroethane	U		17	36	µg/Kg-dry	1	10/28/13 22:25
1,2-Dichloropropane	U		12	36	µg/Kg-dry	1	10/28/13 22:25
1,3-Dichlorobenzene	U		14	36	µg/Kg-dry	1	10/28/13 22:25
1,4-Dichlorobenzene	U		14	36	µg/Kg-dry	1	10/28/13 22:25
2-Butanone	U		89	240	µg/Kg-dry	1	10/28/13 22:25
2-Hexanone	U		8.9	36	µg/Kg-dry	1	10/28/13 22:25
4-Methyl-2-pentanone	U		12	36	µg/Kg-dry	1	10/28/13 22:25
Acetone	U		76	120	µg/Kg-dry	1	10/28/13 22:25
Benzene	U		14	36	µg/Kg-dry	1	10/28/13 22:25
Bromodichloromethane	U		8.1	36	µg/Kg-dry	1	10/28/13 22:25
Bromoform	U		7.1	36	µg/Kg-dry	1	10/28/13 22:25
Bromomethane	U		14	90	µg/Kg-dry	1	10/28/13 22:25
Carbon disulfide	U		18	36	µg/Kg-dry	1	10/28/13 22:25
Carbon tetrachloride	U		10	36	µg/Kg-dry	1	10/28/13 22:25
Chlorobenzene	U		15	36	µg/Kg-dry	1	10/28/13 22:25
Chloroethane	U		77	120	µg/Kg-dry	1	10/28/13 22:25
Chloroform	U		15	36	µg/Kg-dry	1	10/28/13 22:25
Chloromethane	U		20	120	µg/Kg-dry	1	10/28/13 22:25
cis-1,2-Dichloroethene	U		15	36	µg/Kg-dry	1	10/28/13 22:25
cis-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	10/28/13 22:25

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-059
Collection Date: 10/22/13 04:35 PM

Work Order: 13101246
Lab ID: 13101246-41
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane		U	16	36	µg/Kg-dry	1	10/28/13 22:25
Dibromochloromethane		U	6.7	36	µg/Kg-dry	1	10/28/13 22:25
Dichlorodifluoromethane		U	16	36	µg/Kg-dry	1	10/28/13 22:25
Ethylbenzene		U	13	36	µg/Kg-dry	1	10/28/13 22:25
Isopropylbenzene		U	16	36	µg/Kg-dry	1	10/28/13 22:25
Methyl acetate		U	48	240	µg/Kg-dry	1	10/28/13 22:25
Methyl tert-butyl ether		U	15	36	µg/Kg-dry	1	10/28/13 22:25
Methylcyclohexane		U	17	36	µg/Kg-dry	1	10/28/13 22:25
Methylene chloride		U	14	36	µg/Kg-dry	1	10/28/13 22:25
Styrene		U	13	36	µg/Kg-dry	1	10/28/13 22:25
Tetrachloroethene		U	16	36	µg/Kg-dry	1	10/28/13 22:25
Toluene		U	14	36	µg/Kg-dry	1	10/28/13 22:25
trans-1,2-Dichloroethene		U	11	36	µg/Kg-dry	1	10/28/13 22:25
trans-1,3-Dichloropropene		U	12	36	µg/Kg-dry	1	10/28/13 22:25
Trichloroethene		U	17	36	µg/Kg-dry	1	10/28/13 22:25
Trichlorofluoromethane		U	9.9	36	µg/Kg-dry	1	10/28/13 22:25
Vinyl chloride		U	16	36	µg/Kg-dry	1	10/28/13 22:25
Xylenes, Total		U	43	110	µg/Kg-dry	1	10/28/13 22:25
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	10/28/13 22:25
Surr: 4-Bromofluorobenzene	98.1			70-130	%REC	1	10/28/13 22:25
Surr: Dibromofluoromethane	98.0			70-130	%REC	1	10/28/13 22:25
Surr: Toluene-d8	99.2			70-130	%REC	1	10/28/13 22:25
MOISTURE			A2540 G			Analyst: MEB	
BatchID: R129428							
Moisture	5.0		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-060
Collection Date: 10/22/13 04:40 PM

Work Order: 13101246
Lab ID: 13101246-42
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
BatchID: 52719							
Mercury	0.020	J	0.00073	0.037	mg/Kg-dry	1	10/30/13 16:16
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52747							
Antimony	0.16	J	0.0017	0.42	mg/Kg-dry	1	10/31/13 00:07
Arsenic	10		0.057	0.42	mg/Kg-dry	1	10/31/13 00:07
Barium	76		0.012	0.42	mg/Kg-dry	1	10/31/13 00:07
Beryllium	0.37		0.0034	0.17	mg/Kg-dry	1	10/31/13 00:07
Cadmium	0.048	J	0.0017	0.17	mg/Kg-dry	1	10/31/13 00:07
Chromium	3.7		0.069	0.42	mg/Kg-dry	1	10/31/13 00:07
Cobalt	4.0		0.0017	0.42	mg/Kg-dry	1	10/31/13 00:07
Copper	13		0.082	0.42	mg/Kg-dry	1	10/31/13 00:07
Iron	10,000		1.4	6.7	mg/Kg-dry	1	10/31/13 00:07
Lead	0.95		0.0017	0.42	mg/Kg-dry	1	10/31/13 00:07
Manganese	16		0.037	0.42	mg/Kg-dry	1	10/31/13 00:07
Molybdenum	1.3		0.018	0.42	mg/Kg-dry	1	10/31/13 00:07
Nickel	8.3		0.042	0.42	mg/Kg-dry	1	10/31/13 00:07
Selenium	0.67		0.054	0.42	mg/Kg-dry	1	10/31/13 00:07
Silver	0.012	J	0.0017	0.42	mg/Kg-dry	1	10/31/13 00:07
Thallium	0.077	J	0.010	0.42	mg/Kg-dry	1	10/31/13 00:07
Vanadium	6.2		0.025	0.42	mg/Kg-dry	1	10/31/13 00:07
Zinc	3.8		0.035	0.84	mg/Kg-dry	1	10/31/13 00:07
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
BatchID: 52689							
2-Methylnaphthalene	49		2.9	7.0	µg/Kg-dry	1	10/28/13 12:30
Acenaphthene	U		1.0	7.0	µg/Kg-dry	1	10/28/13 12:30
Acenaphthylene	U		1.3	7.0	µg/Kg-dry	1	10/28/13 12:30
Anthracene	U		1.4	7.0	µg/Kg-dry	1	10/28/13 12:30
Benzo(a)anthracene	U		1.4	7.0	µg/Kg-dry	1	10/28/13 12:30
Benzo(a)pyrene	U		2.3	7.0	µg/Kg-dry	1	10/28/13 12:30
Benzo(b)fluoranthene	U		2.1	7.0	µg/Kg-dry	1	10/28/13 12:30
Benzo(g,h,i)perylene	U		2.8	7.0	µg/Kg-dry	1	10/28/13 12:30
Benzo(k)fluoranthene	U		1.5	7.0	µg/Kg-dry	1	10/28/13 12:30
Chrysene	U		1.7	7.0	µg/Kg-dry	1	10/28/13 12:30
Dibenzo(a,h)anthracene	U		2.6	7.0	µg/Kg-dry	1	10/28/13 12:30
Fluoranthene	U		2.5	7.0	µg/Kg-dry	1	10/28/13 12:30
Fluorene	U		2.4	7.0	µg/Kg-dry	1	10/28/13 12:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-060
Collection Date: 10/22/13 04:40 PM

Work Order: 13101246
Lab ID: 13101246-42
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	U		2.3	7.0	µg/Kg-dry	1	10/28/13 12:30
Naphthalene	33		2.6	7.0	µg/Kg-dry	1	10/28/13 12:30
Phenanthrene	45		1.4	7.0	µg/Kg-dry	1	10/28/13 12:30
Pyrene	U		2.4	7.0	µg/Kg-dry	1	10/28/13 12:30
Surr: 2-Fluorobiphenyl	73.1			12-100	%REC	1	10/28/13 12:30
Surr: 4-Terphenyl-d14	69.5			25-137	%REC	1	10/28/13 12:30
Surr: Nitrobenzene-d5	74.4			37-107	%REC	1	10/28/13 12:30
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		31	82	µg/Kg-dry	1	10/28/13 22:48
1,1,2,2-Tetrachloroethane	U		36	82	µg/Kg-dry	1	10/28/13 22:48
1,1,2-Trichloroethane	U		29	82	µg/Kg-dry	1	10/28/13 22:48
1,1,2-Trichlorotrifluoroethane	U		30	82	µg/Kg-dry	1	10/28/13 22:48
1,1-Dichloroethane	U		30	82	µg/Kg-dry	1	10/28/13 22:48
1,1-Dichloroethene	U		34	82	µg/Kg-dry	1	10/28/13 22:48
1,2,4-Trichlorobenzene	U		42	82	µg/Kg-dry	1	10/28/13 22:48
1,2-Dibromo-3-chloropropane	U		40	82	µg/Kg-dry	1	10/28/13 22:48
1,2-Dibromoethane	U		32	82	µg/Kg-dry	1	10/28/13 22:48
1,2-Dichlorobenzene	U		33	82	µg/Kg-dry	1	10/28/13 22:48
1,2-Dichloroethane	U		39	82	µg/Kg-dry	1	10/28/13 22:48
1,2-Dichloropropane	U		27	82	µg/Kg-dry	1	10/28/13 22:48
1,3-Dichlorobenzene	U		33	82	µg/Kg-dry	1	10/28/13 22:48
1,4-Dichlorobenzene	U		31	82	µg/Kg-dry	1	10/28/13 22:48
2-Butanone	U		200	540	µg/Kg-dry	1	10/28/13 22:48
2-Hexanone	U		20	82	µg/Kg-dry	1	10/28/13 22:48
4-Methyl-2-pentanone	U		28	82	µg/Kg-dry	1	10/28/13 22:48
Acetone	U		170	270	µg/Kg-dry	1	10/28/13 22:48
Benzene	U		33	82	µg/Kg-dry	1	10/28/13 22:48
Bromodichloromethane	U		18	82	µg/Kg-dry	1	10/28/13 22:48
Bromoform	U		16	82	µg/Kg-dry	1	10/28/13 22:48
Bromomethane	U		31	200	µg/Kg-dry	1	10/28/13 22:48
Carbon disulfide	U		40	82	µg/Kg-dry	1	10/28/13 22:48
Carbon tetrachloride	U		23	82	µg/Kg-dry	1	10/28/13 22:48
Chlorobenzene	U		33	82	µg/Kg-dry	1	10/28/13 22:48
Chloroethane	U		170	270	µg/Kg-dry	1	10/28/13 22:48
Chloroform	U		34	82	µg/Kg-dry	1	10/28/13 22:48
Chloromethane	U		46	270	µg/Kg-dry	1	10/28/13 22:48
cis-1,2-Dichloroethene	U		33	82	µg/Kg-dry	1	10/28/13 22:48
cis-1,3-Dichloropropene	U		28	82	µg/Kg-dry	1	10/28/13 22:48

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-060
Collection Date: 10/22/13 04:40 PM

Work Order: 13101246
Lab ID: 13101246-42
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		37	82	µg/Kg-dry	1	10/28/13 22:48
Dibromochloromethane	U		15	82	µg/Kg-dry	1	10/28/13 22:48
Dichlorodifluoromethane	U		37	82	µg/Kg-dry	1	10/28/13 22:48
Ethylbenzene	U		30	82	µg/Kg-dry	1	10/28/13 22:48
Isopropylbenzene	U		35	82	µg/Kg-dry	1	10/28/13 22:48
Methyl acetate	U		110	540	µg/Kg-dry	1	10/28/13 22:48
Methyl tert-butyl ether	U		35	82	µg/Kg-dry	1	10/28/13 22:48
Methylcyclohexane	U		38	82	µg/Kg-dry	1	10/28/13 22:48
Methylene chloride	U		32	82	µg/Kg-dry	1	10/28/13 22:48
Styrene	U		30	82	µg/Kg-dry	1	10/28/13 22:48
Tetrachloroethene	U		36	82	µg/Kg-dry	1	10/28/13 22:48
Toluene	U		31	82	µg/Kg-dry	1	10/28/13 22:48
trans-1,2-Dichloroethene	U		25	82	µg/Kg-dry	1	10/28/13 22:48
trans-1,3-Dichloropropene	U		27	82	µg/Kg-dry	1	10/28/13 22:48
Trichloroethene	3,600		38	82	µg/Kg-dry	1	10/28/13 22:48
Trichlorofluoromethane	U		23	82	µg/Kg-dry	1	10/28/13 22:48
Vinyl chloride	U		37	82	µg/Kg-dry	1	10/28/13 22:48
Xylenes, Total	U		97	250	µg/Kg-dry	1	10/28/13 22:48
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/28/13 22:48
Surr: 4-Bromofluorobenzene	99.8			70-130	%REC	1	10/28/13 22:48
Surr: Dibromofluoromethane	98.6			70-130	%REC	1	10/28/13 22:48
Surr: Toluene-d8	100			70-130	%REC	1	10/28/13 22:48
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129428</u>							
Moisture	7.1		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-061
Collection Date: 10/22/13 04:45 PM

Work Order: 13101246
Lab ID: 13101246-43
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471		Prep: SW7471 / 10/28/13		Analyst: LR
BatchID: 52719							
Mercury	0.032	J	0.00078	0.039	mg/Kg-dry	1	10/30/13 16:19
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 10/28/13		Analyst: ML
BatchID: 52747							
Antimony	0.052	J	0.0015	0.37	mg/Kg-dry	1	10/31/13 00:13
Arsenic	2.3		0.050	0.37	mg/Kg-dry	1	10/31/13 00:13
Barium	17		0.010	0.37	mg/Kg-dry	1	10/31/13 00:13
Beryllium	0.13	J	0.0029	0.15	mg/Kg-dry	1	10/31/13 00:13
Cadmium	0.054	J	0.0015	0.15	mg/Kg-dry	1	10/31/13 00:13
Chromium	7.0		0.060	0.37	mg/Kg-dry	1	10/31/13 00:13
Cobalt	2.5		0.0015	0.37	mg/Kg-dry	1	10/31/13 00:13
Copper	7.4		0.072	0.37	mg/Kg-dry	1	10/31/13 00:13
Iron	6,900		1.2	5.9	mg/Kg-dry	1	10/31/13 00:13
Lead	9.1		0.0015	0.37	mg/Kg-dry	1	10/31/13 00:13
Molybdenum	0.32	J	0.016	0.37	mg/Kg-dry	1	10/31/13 00:13
Nickel	6.7		0.037	0.37	mg/Kg-dry	1	10/31/13 00:13
Selenium	0.35	J	0.047	0.37	mg/Kg-dry	1	10/31/13 00:13
Silver	0.0095	J	0.0015	0.37	mg/Kg-dry	1	10/31/13 00:13
Thallium	0.046	J	0.0088	0.37	mg/Kg-dry	1	10/31/13 00:13
Vanadium	11		0.022	0.37	mg/Kg-dry	1	10/31/13 00:13
Zinc	16		0.031	0.73	mg/Kg-dry	1	10/31/13 00:13
BatchID: 52747							
Manganese	160		0.16	1.8	mg/Kg-dry	5	10/30/13 09:18
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 10/27/13		Analyst: CW
BatchID: 52689							
2-Methylnaphthalene	U		2.9	7.0	µg/Kg-dry	1	10/28/13 12:52
Acenaphthene	U		1.0	7.0	µg/Kg-dry	1	10/28/13 12:52
Acenaphthylene	U		1.3	7.0	µg/Kg-dry	1	10/28/13 12:52
Anthracene	20		1.4	7.0	µg/Kg-dry	1	10/28/13 12:52
Benzo(a)anthracene	73		1.4	7.0	µg/Kg-dry	1	10/28/13 12:52
Benzo(a)pyrene	58		2.3	7.0	µg/Kg-dry	1	10/28/13 12:52
Benzo(b)fluoranthene	54		2.1	7.0	µg/Kg-dry	1	10/28/13 12:52
Benzo(g,h,i)perylene	56		2.7	7.0	µg/Kg-dry	1	10/28/13 12:52
Benzo(k)fluoranthene	55		1.5	7.0	µg/Kg-dry	1	10/28/13 12:52
Chrysene	65		1.7	7.0	µg/Kg-dry	1	10/28/13 12:52
Dibenzo(a,h)anthracene	U		2.6	7.0	µg/Kg-dry	1	10/28/13 12:52
Fluoranthene	120		2.4	7.0	µg/Kg-dry	1	10/28/13 12:52

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-061
Collection Date: 10/22/13 04:45 PM

Work Order: 13101246
Lab ID: 13101246-43
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		2.4	7.0	µg/Kg-dry	1	10/28/13 12:52
Indeno(1,2,3-cd)pyrene	31		2.3	7.0	µg/Kg-dry	1	10/28/13 12:52
Naphthalene	U		2.6	7.0	µg/Kg-dry	1	10/28/13 12:52
Phenanthrene	82		1.4	7.0	µg/Kg-dry	1	10/28/13 12:52
Pyrene	110		2.4	7.0	µg/Kg-dry	1	10/28/13 12:52
Surr: 2-Fluorobiphenyl	79.3			12-100	%REC	1	10/28/13 12:52
Surr: 4-Terphenyl-d14	118			25-137	%REC	1	10/28/13 12:52
Surr: Nitrobenzene-d5	81.6			37-107	%REC	1	10/28/13 12:52
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	10/28/13 23:11
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	10/28/13 23:11
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	10/28/13 23:11
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	10/28/13 23:11
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	10/28/13 23:11
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	10/28/13 23:11
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	10/28/13 23:11
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	10/28/13 23:11
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	10/28/13 23:11
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	10/28/13 23:11
1,2-Dichloroethane	U		16	35	µg/Kg-dry	1	10/28/13 23:11
1,2-Dichloropropane	U		11	35	µg/Kg-dry	1	10/28/13 23:11
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	10/28/13 23:11
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	10/28/13 23:11
2-Butanone	U		86	230	µg/Kg-dry	1	10/28/13 23:11
2-Hexanone	U		8.5	35	µg/Kg-dry	1	10/28/13 23:11
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	10/28/13 23:11
Acetone	U		73	120	µg/Kg-dry	1	10/28/13 23:11
Benzene	U		14	35	µg/Kg-dry	1	10/28/13 23:11
Bromodichloromethane	U		7.8	35	µg/Kg-dry	1	10/28/13 23:11
Bromoform	U		6.8	35	µg/Kg-dry	1	10/28/13 23:11
Bromomethane	U		13	86	µg/Kg-dry	1	10/28/13 23:11
Carbon disulfide	U		17	35	µg/Kg-dry	1	10/28/13 23:11
Carbon tetrachloride	U		9.8	35	µg/Kg-dry	1	10/28/13 23:11
Chlorobenzene	U		14	35	µg/Kg-dry	1	10/28/13 23:11
Chloroethane	U		73	120	µg/Kg-dry	1	10/28/13 23:11
Chloroform	U		14	35	µg/Kg-dry	1	10/28/13 23:11
Chloromethane	U		19	120	µg/Kg-dry	1	10/28/13 23:11
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	10/28/13 23:11

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102213-MR-061
Collection Date: 10/22/13 04:45 PM

Work Order: 13101246
Lab ID: 13101246-43
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	10/28/13 23:11
Cyclohexane	U		16	35	µg/Kg-dry	1	10/28/13 23:11
Dibromochloromethane	U		6.4	35	µg/Kg-dry	1	10/28/13 23:11
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	10/28/13 23:11
Ethylbenzene	U		13	35	µg/Kg-dry	1	10/28/13 23:11
Isopropylbenzene	U		15	35	µg/Kg-dry	1	10/28/13 23:11
Methyl acetate	U		46	230	µg/Kg-dry	1	10/28/13 23:11
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	10/28/13 23:11
Methylcyclohexane	U		16	35	µg/Kg-dry	1	10/28/13 23:11
Methylene chloride	U		14	35	µg/Kg-dry	1	10/28/13 23:11
Styrene	U		13	35	µg/Kg-dry	1	10/28/13 23:11
Tetrachloroethene	U		15	35	µg/Kg-dry	1	10/28/13 23:11
Toluene	U		13	35	µg/Kg-dry	1	10/28/13 23:11
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	10/28/13 23:11
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	10/28/13 23:11
Trichloroethene	U		16	35	µg/Kg-dry	1	10/28/13 23:11
Trichlorofluoromethane	U		9.5	35	µg/Kg-dry	1	10/28/13 23:11
Vinyl chloride	U		16	35	µg/Kg-dry	1	10/28/13 23:11
Xylenes, Total	U		41	100	µg/Kg-dry	1	10/28/13 23:11
Surr: 1,2-Dichloroethane-d4	103			70-130	%REC	1	10/28/13 23:11
Surr: 4-Bromofluorobenzene	98.6			70-130	%REC	1	10/28/13 23:11
Surr: Dibromofluoromethane	97.0			70-130	%REC	1	10/28/13 23:11
Surr: Toluene-d8	99.8			70-130	%REC	1	10/28/13 23:11
MOISTURE			A2540 G			Analyst: MEB	
BatchID: R129428							
Moisture	6.5		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-062
Collection Date: 10/23/13 10:00 AM

Work Order: 13101246
Lab ID: 13101246-44
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
BatchID: 52719							
Mercury	0.028	J	0.00075	0.037	mg/Kg-dry	1	10/30/13 16:21
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52747							
Antimony	1.1		0.0014	0.34	mg/Kg-dry	1	10/31/13 00:19
Arsenic	2.5		0.047	0.34	mg/Kg-dry	1	10/31/13 00:19
Barium	32		0.0097	0.34	mg/Kg-dry	1	10/31/13 00:19
Beryllium	0.081	J	0.0028	0.14	mg/Kg-dry	1	10/31/13 00:19
Cadmium	0.71		0.0014	0.14	mg/Kg-dry	1	10/31/13 00:19
Chromium	58		0.057	0.34	mg/Kg-dry	1	10/31/13 00:19
Cobalt	5.5		0.0014	0.34	mg/Kg-dry	1	10/31/13 00:19
Copper	50		0.068	0.34	mg/Kg-dry	1	10/31/13 00:19
Iron	8,200		1.1	5.5	mg/Kg-dry	1	10/31/13 00:19
Lead	81		0.0014	0.34	mg/Kg-dry	1	10/31/13 00:19
Molybdenum	27		0.015	0.34	mg/Kg-dry	1	10/31/13 00:19
Nickel	63		0.034	0.34	mg/Kg-dry	1	10/31/13 00:19
Selenium	0.20	J	0.044	0.34	mg/Kg-dry	1	10/31/13 00:19
Silver	2.1		0.0014	0.34	mg/Kg-dry	1	10/31/13 00:19
Thallium	0.040	J	0.0083	0.34	mg/Kg-dry	1	10/31/13 00:19
Vanadium	5.8		0.021	0.34	mg/Kg-dry	1	10/31/13 00:19
Zinc	89		0.029	0.69	mg/Kg-dry	1	10/31/13 00:19
BatchID: 52747							
Manganese	210		0.15	1.7	mg/Kg-dry	5	10/30/13 09:24
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
BatchID: 52689							
2-Methylnaphthalene	54		2.9	7.1	µg/Kg-dry	1	10/28/13 19:16
Acenaphthene	U		1.1	7.1	µg/Kg-dry	1	10/28/13 19:16
Acenaphthylene	110		1.3	7.1	µg/Kg-dry	1	10/28/13 19:16
Anthracene	140		1.4	7.1	µg/Kg-dry	1	10/28/13 19:16
Benzo(a)anthracene	400		1.4	7.1	µg/Kg-dry	1	10/28/13 19:16
Benzo(a)pyrene	620		2.3	7.1	µg/Kg-dry	1	10/28/13 19:16
Benzo(b)fluoranthene	790		2.1	7.1	µg/Kg-dry	1	10/28/13 19:16
Benzo(g,h,i)perylene	480		2.8	7.1	µg/Kg-dry	1	10/28/13 19:16
Benzo(k)fluoranthene	490		1.5	7.1	µg/Kg-dry	1	10/28/13 19:16
Chrysene	590		1.7	7.1	µg/Kg-dry	1	10/28/13 19:16
Dibenzo(a,h)anthracene	110		2.6	7.1	µg/Kg-dry	1	10/28/13 19:16
Fluoranthene	860		2.5	7.1	µg/Kg-dry	1	10/28/13 19:16

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-062
Collection Date: 10/23/13 10:00 AM

Work Order: 13101246
Lab ID: 13101246-44
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	29		2.4	7.1	µg/Kg-dry	1	10/28/13 19:16
Indeno(1,2,3-cd)pyrene	410		2.4	7.1	µg/Kg-dry	1	10/28/13 19:16
Naphthalene	54		2.6	7.1	µg/Kg-dry	1	10/28/13 19:16
Phenanthrene	320		1.4	7.1	µg/Kg-dry	1	10/28/13 19:16
Pyrene	830		2.4	7.1	µg/Kg-dry	1	10/28/13 19:16
Surr: 2-Fluorobiphenyl	76.1			12-100	%REC	1	10/28/13 19:16
Surr: 4-Terphenyl-d14	115			25-137	%REC	1	10/28/13 19:16
Surr: Nitrobenzene-d5	74.6			37-107	%REC	1	10/28/13 19:16
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		15	38	µg/Kg-dry	1	10/28/13 23:34
1,1,2,2-Tetrachloroethane	U		17	38	µg/Kg-dry	1	10/28/13 23:34
1,1,2-Trichloroethane	U		13	38	µg/Kg-dry	1	10/28/13 23:34
1,1,2-Trichlorotrifluoroethane	U		14	38	µg/Kg-dry	1	10/28/13 23:34
1,1-Dichloroethane	U		14	38	µg/Kg-dry	1	10/28/13 23:34
1,1-Dichloroethene	U		16	38	µg/Kg-dry	1	10/28/13 23:34
1,2,4-Trichlorobenzene	U		20	38	µg/Kg-dry	1	10/28/13 23:34
1,2-Dibromo-3-chloropropane	U		19	38	µg/Kg-dry	1	10/28/13 23:34
1,2-Dibromoethane	U		15	38	µg/Kg-dry	1	10/28/13 23:34
1,2-Dichlorobenzene	U		15	38	µg/Kg-dry	1	10/28/13 23:34
1,2-Dichloroethane	U		18	38	µg/Kg-dry	1	10/28/13 23:34
1,2-Dichloropropane	U		13	38	µg/Kg-dry	1	10/28/13 23:34
1,3-Dichlorobenzene	U		15	38	µg/Kg-dry	1	10/28/13 23:34
1,4-Dichlorobenzene	U		15	38	µg/Kg-dry	1	10/28/13 23:34
2-Butanone	U		94	250	µg/Kg-dry	1	10/28/13 23:34
2-Hexanone	U		9.4	38	µg/Kg-dry	1	10/28/13 23:34
4-Methyl-2-pentanone	U		13	38	µg/Kg-dry	1	10/28/13 23:34
Acetone	U		81	130	µg/Kg-dry	1	10/28/13 23:34
Benzene	U		15	38	µg/Kg-dry	1	10/28/13 23:34
Bromodichloromethane	U		8.6	38	µg/Kg-dry	1	10/28/13 23:34
Bromoform	U		7.5	38	µg/Kg-dry	1	10/28/13 23:34
Bromomethane	U		15	95	µg/Kg-dry	1	10/28/13 23:34
Carbon disulfide	U		19	38	µg/Kg-dry	1	10/28/13 23:34
Carbon tetrachloride	U		11	38	µg/Kg-dry	1	10/28/13 23:34
Chlorobenzene	U		16	38	µg/Kg-dry	1	10/28/13 23:34
Chloroethane	U		81	130	µg/Kg-dry	1	10/28/13 23:34
Chloroform	U		16	38	µg/Kg-dry	1	10/28/13 23:34
Chloromethane	U		21	130	µg/Kg-dry	1	10/28/13 23:34
cis-1,2-Dichloroethene	U		15	38	µg/Kg-dry	1	10/28/13 23:34

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-062
Collection Date: 10/23/13 10:00 AM

Work Order: 13101246
Lab ID: 13101246-44
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	10/28/13 23:34
Cyclohexane	U		17	38	µg/Kg-dry	1	10/28/13 23:34
Dibromochloromethane	U		7.1	38	µg/Kg-dry	1	10/28/13 23:34
Dichlorodifluoromethane	U		17	38	µg/Kg-dry	1	10/28/13 23:34
Ethylbenzene	U		14	38	µg/Kg-dry	1	10/28/13 23:34
Isopropylbenzene	U		16	38	µg/Kg-dry	1	10/28/13 23:34
Methyl acetate	U		51	250	µg/Kg-dry	1	10/28/13 23:34
Methyl tert-butyl ether	U		16	38	µg/Kg-dry	1	10/28/13 23:34
Methylcyclohexane	U		18	38	µg/Kg-dry	1	10/28/13 23:34
Methylene chloride	U		15	38	µg/Kg-dry	1	10/28/13 23:34
Styrene	U		14	38	µg/Kg-dry	1	10/28/13 23:34
Tetrachloroethene	U		17	38	µg/Kg-dry	1	10/28/13 23:34
Toluene	U		14	38	µg/Kg-dry	1	10/28/13 23:34
trans-1,2-Dichloroethene	U		12	38	µg/Kg-dry	1	10/28/13 23:34
trans-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	10/28/13 23:34
Trichloroethene	320		18	38	µg/Kg-dry	1	10/28/13 23:34
Trichlorofluoromethane	U		11	38	µg/Kg-dry	1	10/28/13 23:34
Vinyl chloride	U		17	38	µg/Kg-dry	1	10/28/13 23:34
Xylenes, Total	U		45	110	µg/Kg-dry	1	10/28/13 23:34
Surr: 1,2-Dichloroethane-d4	99.8			70-130	%REC	1	10/28/13 23:34
Surr: 4-Bromofluorobenzene	99.8			70-130	%REC	1	10/28/13 23:34
Surr: Dibromofluoromethane	97.0			70-130	%REC	1	10/28/13 23:34
Surr: Toluene-d8	101			70-130	%REC	1	10/28/13 23:34
MOISTURE			A2540 G			Analyst: MEB	
BatchID: R129428							
Moisture	7.0		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-063
Collection Date: 10/23/13 10:05 AM

Work Order: 13101246
Lab ID: 13101246-45
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
BatchID: 52719							
Mercury	0.037	J	0.00077	0.038	mg/Kg-dry	1	10/30/13 16:23
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52750							
Antimony	48		0.0073	1.8	mg/Kg-dry	5	10/30/13 01:31
Arsenic	22		0.25	1.8	mg/Kg-dry	5	10/30/13 01:31
Beryllium	0.17	J	0.015	0.73	mg/Kg-dry	5	10/30/13 01:31
Cadmium	22		0.0073	0.73	mg/Kg-dry	5	10/30/13 01:31
Cobalt	190		0.0073	1.8	mg/Kg-dry	5	10/30/13 01:31
Selenium	0.42	J	0.23	1.8	mg/Kg-dry	5	10/30/13 01:31
Silver	11		0.0073	1.8	mg/Kg-dry	5	10/30/13 01:31
Thallium	0.085	J	0.044	1.8	mg/Kg-dry	5	10/30/13 01:31
Vanadium	110		0.11	1.8	mg/Kg-dry	5	10/30/13 01:31
BatchID: 52750							
Barium	1,300		5.1	180	mg/Kg-dry	500	10/30/13 16:25
Chromium	1,200		30	180	mg/Kg-dry	500	10/30/13 16:25
Copper	5,800		36	180	mg/Kg-dry	500	10/30/13 16:25
Iron	140,000		600	2,900	mg/Kg-dry	500	10/30/13 16:25
Lead	1,800		0.73	180	mg/Kg-dry	500	10/30/13 16:25
Manganese	4,100		16	180	mg/Kg-dry	500	10/30/13 16:25
Molybdenum	630		8.0	180	mg/Kg-dry	500	10/30/13 16:25
Nickel	1,500		18	180	mg/Kg-dry	500	10/30/13 16:25
Zinc	4,000		15	360	mg/Kg-dry	500	10/30/13 16:25
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
BatchID: 52689							
2-Methylnaphthalene	33		3.1	7.5	µg/Kg-dry	1	10/28/13 19:39
Acenaphthene	43		1.1	7.5	µg/Kg-dry	1	10/28/13 19:39
Acenaphthylene	U		1.4	7.5	µg/Kg-dry	1	10/28/13 19:39
Anthracene	63		1.5	7.5	µg/Kg-dry	1	10/28/13 19:39
Benzo(a)anthracene	600		1.5	7.5	µg/Kg-dry	1	10/28/13 19:39
Benzo(a)pyrene	330		2.4	7.5	µg/Kg-dry	1	10/28/13 19:39
Benzo(g,h,i)perylene	1,200		2.9	7.5	µg/Kg-dry	1	10/28/13 19:39
Benzo(k)fluoranthene	1,200		1.6	7.5	µg/Kg-dry	1	10/28/13 19:39
Dibenzo(a,h)anthracene	470		2.8	7.5	µg/Kg-dry	1	10/28/13 19:39
Fluoranthene	1,400		2.6	7.5	µg/Kg-dry	1	10/28/13 19:39
Fluorene	U		2.5	7.5	µg/Kg-dry	1	10/28/13 19:39
Indeno(1,2,3-cd)pyrene	850		2.5	7.5	µg/Kg-dry	1	10/28/13 19:39

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-063
Collection Date: 10/23/13 10:05 AM

Work Order: 13101246
Lab ID: 13101246-45
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Naphthalene	84		2.8	7.5	µg/Kg-dry	1	10/28/13 19:39
Phenanthrene	1,200		1.5	7.5	µg/Kg-dry	1	10/28/13 19:39
Pyrene	950		2.5	7.5	µg/Kg-dry	1	10/28/13 19:39
Surr: 2-Fluorobiphenyl	77.5			12-100	%REC	1	10/28/13 19:39
Surr: 4-Terphenyl-d14	116			25-137	%REC	1	10/28/13 19:39
Surr: Nitrobenzene-d5	71.9			37-107	%REC	1	10/28/13 19:39
BatchID: 52689							
Benzo(b)fluoranthene	2,600		4.4	15	µg/Kg-dry	2	10/30/13 12:45
Chrysene	2,300		3.6	15	µg/Kg-dry	2	10/30/13 12:45
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		20	53	µg/Kg-dry	1	10/28/13 23:57
1,1,2,2-Tetrachloroethane	U		24	53	µg/Kg-dry	1	10/28/13 23:57
1,1,2-Trichloroethane	U		19	53	µg/Kg-dry	1	10/28/13 23:57
1,1,2-Trichlorotrifluoroethane	U		20	53	µg/Kg-dry	1	10/28/13 23:57
1,1-Dichloroethane	U		20	53	µg/Kg-dry	1	10/28/13 23:57
1,1-Dichloroethene	U		22	53	µg/Kg-dry	1	10/28/13 23:57
1,2,4-Trichlorobenzene	U		28	53	µg/Kg-dry	1	10/28/13 23:57
1,2-Dibromo-3-chloropropane	U		26	53	µg/Kg-dry	1	10/28/13 23:57
1,2-Dibromoethane	U		21	53	µg/Kg-dry	1	10/28/13 23:57
1,2-Dichlorobenzene	U		21	53	µg/Kg-dry	1	10/28/13 23:57
1,2-Dichloroethane	U		25	53	µg/Kg-dry	1	10/28/13 23:57
1,2-Dichloropropane	U		18	53	µg/Kg-dry	1	10/28/13 23:57
1,3-Dichlorobenzene	U		21	53	µg/Kg-dry	1	10/28/13 23:57
1,4-Dichlorobenzene	U		20	53	µg/Kg-dry	1	10/28/13 23:57
2-Butanone	U		130	360	µg/Kg-dry	1	10/28/13 23:57
2-Hexanone	U		13	53	µg/Kg-dry	1	10/28/13 23:57
4-Methyl-2-pentanone	U		18	53	µg/Kg-dry	1	10/28/13 23:57
Acetone	U		110	180	µg/Kg-dry	1	10/28/13 23:57
Benzene	U		21	53	µg/Kg-dry	1	10/28/13 23:57
Bromodichloromethane	U		12	53	µg/Kg-dry	1	10/28/13 23:57
Bromoform	U		11	53	µg/Kg-dry	1	10/28/13 23:57
Bromomethane	U		20	130	µg/Kg-dry	1	10/28/13 23:57
Carbon disulfide	U		26	53	µg/Kg-dry	1	10/28/13 23:57
Carbon tetrachloride	U		15	53	µg/Kg-dry	1	10/28/13 23:57
Chlorobenzene	U		22	53	µg/Kg-dry	1	10/28/13 23:57
Chloroethane	U		110	180	µg/Kg-dry	1	10/28/13 23:57
Chloroform	U		22	53	µg/Kg-dry	1	10/28/13 23:57
Chloromethane	U		30	180	µg/Kg-dry	1	10/28/13 23:57

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-063
Collection Date: 10/23/13 10:05 AM

Work Order: 13101246
Lab ID: 13101246-45
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	U		22	53	µg/Kg-dry	1	10/28/13 23:57
cis-1,3-Dichloropropene	U		18	53	µg/Kg-dry	1	10/28/13 23:57
Cyclohexane	U		24	53	µg/Kg-dry	1	10/28/13 23:57
Dibromochloromethane	U		9.9	53	µg/Kg-dry	1	10/28/13 23:57
Dichlorodifluoromethane	U		24	53	µg/Kg-dry	1	10/28/13 23:57
Ethylbenzene	U		20	53	µg/Kg-dry	1	10/28/13 23:57
Isopropylbenzene	U		23	53	µg/Kg-dry	1	10/28/13 23:57
Methyl acetate	U		72	360	µg/Kg-dry	1	10/28/13 23:57
Methyl tert-butyl ether	U		23	53	µg/Kg-dry	1	10/28/13 23:57
Methylcyclohexane	U		25	53	µg/Kg-dry	1	10/28/13 23:57
Methylene chloride	U		21	53	µg/Kg-dry	1	10/28/13 23:57
Styrene	U		20	53	µg/Kg-dry	1	10/28/13 23:57
Tetrachloroethene	U		24	53	µg/Kg-dry	1	10/28/13 23:57
Toluene	U		20	53	µg/Kg-dry	1	10/28/13 23:57
trans-1,2-Dichloroethene	U		16	53	µg/Kg-dry	1	10/28/13 23:57
trans-1,3-Dichloropropene	U		18	53	µg/Kg-dry	1	10/28/13 23:57
Trichlorofluoromethane	U		15	53	µg/Kg-dry	1	10/28/13 23:57
Vinyl chloride	U		24	53	µg/Kg-dry	1	10/28/13 23:57
Xylenes, Total	U		63	160	µg/Kg-dry	1	10/28/13 23:57
Surr: 1,2-Dichloroethane-d4	98.6			70-130	%REC	1	10/28/13 23:57
Surr: 4-Bromofluorobenzene	99.2			70-130	%REC	1	10/28/13 23:57
Surr: Dibromofluoromethane	95.4			70-130	%REC	1	10/28/13 23:57
Surr: Toluene-d8	99.1			70-130	%REC	1	10/28/13 23:57
BatchID: 52677							
Trichloroethene	17,000		120	270	µg/Kg-dry	5	10/29/13 21:21
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	5	10/29/13 21:21
Surr: 4-Bromofluorobenzene	93.6			70-130	%REC	5	10/29/13 21:21
Surr: Dibromofluoromethane	108			70-130	%REC	5	10/29/13 21:21
Surr: Toluene-d8	88.8			70-130	%REC	5	10/29/13 21:21
MOISTURE A2540 G Analyst: MEB							
BatchID: R129428							
Moisture	11		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-064
Collection Date: 10/23/13 10:10 AM

Work Order: 13101246
Lab ID: 13101246-46
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
BatchID: 52719							
Mercury	0.040		0.00074	0.037	mg/Kg-dry	1	10/30/13 16:25
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52750							
Antimony	51		0.0074	1.8	mg/Kg-dry	5	10/30/13 01:56
Arsenic	21		0.25	1.8	mg/Kg-dry	5	10/30/13 01:56
Beryllium	0.15	J	0.015	0.74	mg/Kg-dry	5	10/30/13 01:56
Cadmium	24		0.0074	0.74	mg/Kg-dry	5	10/30/13 01:56
Cobalt	250		0.0074	1.8	mg/Kg-dry	5	10/30/13 01:56
Selenium	0.54	J	0.24	1.8	mg/Kg-dry	5	10/30/13 01:56
Silver	11		0.0074	1.8	mg/Kg-dry	5	10/30/13 01:56
Thallium	0.077	J	0.044	1.8	mg/Kg-dry	5	10/30/13 01:56
Vanadium	83		0.11	1.8	mg/Kg-dry	5	10/30/13 01:56
BatchID: 52750							
Barium	1,200		5.2	180	mg/Kg-dry	500	10/30/13 17:03
Chromium	1,300		30	180	mg/Kg-dry	500	10/30/13 17:03
Copper	5,000		36	180	mg/Kg-dry	500	10/30/13 17:03
Iron	130,000		610	2,900	mg/Kg-dry	500	10/30/13 17:03
Lead	4,400		0.74	180	mg/Kg-dry	500	10/30/13 17:03
Manganese	4,000		16	180	mg/Kg-dry	500	10/30/13 17:03
Molybdenum	610		8.1	180	mg/Kg-dry	500	10/30/13 17:03
Nickel	2,000		18	180	mg/Kg-dry	500	10/30/13 17:03
Zinc	4,700		15	370	mg/Kg-dry	500	10/30/13 17:03
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
BatchID: 52689							
2-Methylnaphthalene	33		3.1	7.4	µg/Kg-dry	1	10/28/13 20:01
Acenaphthene	36		1.1	7.4	µg/Kg-dry	1	10/28/13 20:01
Acenaphthylene	U		1.3	7.4	µg/Kg-dry	1	10/28/13 20:01
Anthracene	50		1.5	7.4	µg/Kg-dry	1	10/28/13 20:01
Benzo(a)anthracene	430		1.5	7.4	µg/Kg-dry	1	10/28/13 20:01
Benzo(a)pyrene	290		2.4	7.4	µg/Kg-dry	1	10/28/13 20:01
Benzo(b)fluoranthene	1,700		2.2	7.4	µg/Kg-dry	1	10/28/13 20:01
Benzo(g,h,i)perylene	880		2.9	7.4	µg/Kg-dry	1	10/28/13 20:01
Benzo(k)fluoranthene	930		1.6	7.4	µg/Kg-dry	1	10/28/13 20:01
Chrysene	1,600		1.8	7.4	µg/Kg-dry	1	10/28/13 20:01
Dibenzo(a,h)anthracene	340		2.8	7.4	µg/Kg-dry	1	10/28/13 20:01
Fluoranthene	1,100		2.6	7.4	µg/Kg-dry	1	10/28/13 20:01

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-064
Collection Date: 10/23/13 10:10 AM

Work Order: 13101246
Lab ID: 13101246-46
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		2.5	7.4	µg/Kg-dry	1	10/28/13 20:01
Indeno(1,2,3-cd)pyrene	650		2.5	7.4	µg/Kg-dry	1	10/28/13 20:01
Naphthalene	66		2.7	7.4	µg/Kg-dry	1	10/28/13 20:01
Phenanthrene	860		1.5	7.4	µg/Kg-dry	1	10/28/13 20:01
Pyrene	660		2.5	7.4	µg/Kg-dry	1	10/28/13 20:01
Surr: 2-Fluorobiphenyl	72.0			12-100	%REC	1	10/28/13 20:01
Surr: 4-Terphenyl-d14	111			25-137	%REC	1	10/28/13 20:01
Surr: Nitrobenzene-d5	60.9			37-107	%REC	1	10/28/13 20:01
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		15	39	µg/Kg-dry	1	10/29/13 12:21
1,1,2,2-Tetrachloroethane	U		17	39	µg/Kg-dry	1	10/29/13 12:21
1,1,2-Trichloroethane	U		14	39	µg/Kg-dry	1	10/29/13 12:21
1,1,2-Trichlorotrifluoroethane	U		15	39	µg/Kg-dry	1	10/29/13 12:21
1,1-Dichloroethane	U		14	39	µg/Kg-dry	1	10/29/13 12:21
1,1-Dichloroethene	U		17	39	µg/Kg-dry	1	10/29/13 12:21
1,2,4-Trichlorobenzene	U		20	39	µg/Kg-dry	1	10/29/13 12:21
1,2-Dibromo-3-chloropropane	U		19	39	µg/Kg-dry	1	10/29/13 12:21
1,2-Dibromoethane	U		16	39	µg/Kg-dry	1	10/29/13 12:21
1,2-Dichlorobenzene	U		16	39	µg/Kg-dry	1	10/29/13 12:21
1,2-Dichloroethane	U		19	39	µg/Kg-dry	1	10/29/13 12:21
1,2-Dichloropropane	U		13	39	µg/Kg-dry	1	10/29/13 12:21
1,3-Dichlorobenzene	U		16	39	µg/Kg-dry	1	10/29/13 12:21
1,4-Dichlorobenzene	U		15	39	µg/Kg-dry	1	10/29/13 12:21
2-Butanone	U		98	260	µg/Kg-dry	1	10/29/13 12:21
2-Hexanone	U		9.7	39	µg/Kg-dry	1	10/29/13 12:21
4-Methyl-2-pentanone	U		13	39	µg/Kg-dry	1	10/29/13 12:21
Acetone	U		84	130	µg/Kg-dry	1	10/29/13 12:21
Benzene	U		16	39	µg/Kg-dry	1	10/29/13 12:21
Bromodichloromethane	U		8.9	39	µg/Kg-dry	1	10/29/13 12:21
Bromoform	U		7.8	39	µg/Kg-dry	1	10/29/13 12:21
Bromomethane	U		15	99	µg/Kg-dry	1	10/29/13 12:21
Carbon disulfide	U		20	39	µg/Kg-dry	1	10/29/13 12:21
Carbon tetrachloride	U		11	39	µg/Kg-dry	1	10/29/13 12:21
Chlorobenzene	U		16	39	µg/Kg-dry	1	10/29/13 12:21
Chloroethane	U		84	130	µg/Kg-dry	1	10/29/13 12:21
Chloroform	U		16	39	µg/Kg-dry	1	10/29/13 12:21
Chloromethane	U		22	130	µg/Kg-dry	1	10/29/13 12:21
cis-1,2-Dichloroethene	120		16	39	µg/Kg-dry	1	10/29/13 12:21

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-064
Collection Date: 10/23/13 10:10 AM

Work Order: 13101246
Lab ID: 13101246-46
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		14	39	µg/Kg-dry	1	10/29/13 12:21
Cyclohexane	U		18	39	µg/Kg-dry	1	10/29/13 12:21
Dibromochloromethane	U		7.3	39	µg/Kg-dry	1	10/29/13 12:21
Dichlorodifluoromethane	U		18	39	µg/Kg-dry	1	10/29/13 12:21
Ethylbenzene	U		15	39	µg/Kg-dry	1	10/29/13 12:21
Isopropylbenzene	U		17	39	µg/Kg-dry	1	10/29/13 12:21
Methyl acetate	U		53	260	µg/Kg-dry	1	10/29/13 12:21
Methyl tert-butyl ether	U		17	39	µg/Kg-dry	1	10/29/13 12:21
Methylcyclohexane	U		18	39	µg/Kg-dry	1	10/29/13 12:21
Methylene chloride	U		15	39	µg/Kg-dry	1	10/29/13 12:21
Styrene	U		15	39	µg/Kg-dry	1	10/29/13 12:21
Tetrachloroethene	U		18	39	µg/Kg-dry	1	10/29/13 12:21
Toluene	U		15	39	µg/Kg-dry	1	10/29/13 12:21
trans-1,2-Dichloroethene	64		12	39	µg/Kg-dry	1	10/29/13 12:21
trans-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	10/29/13 12:21
Trichlorofluoromethane	U		11	39	µg/Kg-dry	1	10/29/13 12:21
Vinyl chloride	U		18	39	µg/Kg-dry	1	10/29/13 12:21
Xylenes, Total	U		47	120	µg/Kg-dry	1	10/29/13 12:21
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	10/29/13 12:21
Surr: 4-Bromofluorobenzene	98.4			70-130	%REC	1	10/29/13 12:21
Surr: Dibromofluoromethane	94.6			70-130	%REC	1	10/29/13 12:21
Surr: Toluene-d8	100			70-130	%REC	1	10/29/13 12:21
BatchID: 52677							
Trichloroethene	15,000		74	160	µg/Kg-dry	4	10/29/13 21:45
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	4	10/29/13 21:45
Surr: 4-Bromofluorobenzene	92.5			70-130	%REC	4	10/29/13 21:45
Surr: Dibromofluoromethane	108			70-130	%REC	4	10/29/13 21:45
Surr: Toluene-d8	89.2			70-130	%REC	4	10/29/13 21:45
MOISTURE			A2540 G				Analyst: MEB
BatchID: R129428							
Moisture	11		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-065
Collection Date: 10/23/13 10:15 AM

Work Order: 13101246
Lab ID: 13101246-47
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
BatchID: 52719							
Mercury	0.026	J	0.00080	0.040	mg/Kg-dry	1	10/30/13 16:27
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52750							
Antimony	81		0.0084	2.1	mg/Kg-dry	5	10/30/13 02:02
Arsenic	25		0.28	2.1	mg/Kg-dry	5	10/30/13 02:02
Beryllium	0.19	J	0.017	0.84	mg/Kg-dry	5	10/30/13 02:02
Cadmium	28		0.0084	0.84	mg/Kg-dry	5	10/30/13 02:02
Cobalt	180		0.0084	2.1	mg/Kg-dry	5	10/30/13 02:02
Molybdenum	670		0.092	2.1	mg/Kg-dry	5	10/30/13 02:02
Selenium	0.70	J	0.27	2.1	mg/Kg-dry	5	10/30/13 02:02
Silver	13		0.0084	2.1	mg/Kg-dry	5	10/30/13 02:02
Thallium	0.070	J	0.050	2.1	mg/Kg-dry	5	10/30/13 02:02
Vanadium	91		0.13	2.1	mg/Kg-dry	5	10/30/13 02:02
BatchID: 52750							
Barium	1,800		5.9	210	mg/Kg-dry	500	10/30/13 19:16
Chromium	1,600		34	210	mg/Kg-dry	500	10/30/13 19:16
Copper	8,800		41	210	mg/Kg-dry	500	10/30/13 19:16
Iron	160,000		700	3,300	mg/Kg-dry	500	10/30/13 19:16
Lead	6,600		0.84	210	mg/Kg-dry	500	10/30/13 19:16
Manganese	6,800		18	210	mg/Kg-dry	500	10/30/13 19:16
Nickel	1,800		21	210	mg/Kg-dry	500	10/30/13 19:16
Zinc	6,200		18	420	mg/Kg-dry	500	10/30/13 19:16
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
BatchID: 52689							
2-Methylnaphthalene	U		3.0	7.3	µg/Kg-dry	1	10/28/13 15:53
Acenaphthene	55		1.1	7.3	µg/Kg-dry	1	10/28/13 15:53
Acenaphthylene	U		1.3	7.3	µg/Kg-dry	1	10/28/13 15:53
Anthracene	40		1.4	7.3	µg/Kg-dry	1	10/28/13 15:53
Benzo(a)anthracene	470		1.4	7.3	µg/Kg-dry	1	10/28/13 15:53
Benzo(a)pyrene	470		2.4	7.3	µg/Kg-dry	1	10/28/13 15:53
Benzo(b)fluoranthene	1,700		2.1	7.3	µg/Kg-dry	1	10/28/13 15:53
Benzo(g,h,i)perylene	1,100		2.9	7.3	µg/Kg-dry	1	10/28/13 15:53
Benzo(k)fluoranthene	1,100		1.5	7.3	µg/Kg-dry	1	10/28/13 15:53
Chrysene	1,400		1.7	7.3	µg/Kg-dry	1	10/28/13 15:53
Dibenzo(a,h)anthracene	410		2.7	7.3	µg/Kg-dry	1	10/28/13 15:53
Fluoranthene	950		2.6	7.3	µg/Kg-dry	1	10/28/13 15:53

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-065
Collection Date: 10/23/13 10:15 AM

Work Order: 13101246
Lab ID: 13101246-47
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		2.5	7.3	µg/Kg-dry	1	10/28/13 15:53
Indeno(1,2,3-cd)pyrene	890		2.4	7.3	µg/Kg-dry	1	10/28/13 15:53
Naphthalene	130		2.7	7.3	µg/Kg-dry	1	10/28/13 15:53
Phenanthrene	870		1.5	7.3	µg/Kg-dry	1	10/28/13 15:53
Pyrene	620		2.5	7.3	µg/Kg-dry	1	10/28/13 15:53
Surr: 2-Fluorobiphenyl	77.1			12-100	%REC	1	10/28/13 15:53
Surr: 4-Terphenyl-d14	125			25-137	%REC	1	10/28/13 15:53
Surr: Nitrobenzene-d5	77.9			37-107	%REC	1	10/28/13 15:53
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		20	52	µg/Kg-dry	1	10/29/13 12:44
1,1,2,2-Tetrachloroethane	U		23	52	µg/Kg-dry	1	10/29/13 12:44
1,1,2-Trichloroethane	U		19	52	µg/Kg-dry	1	10/29/13 12:44
1,1,2-Trichlorotrifluoroethane	U		19	52	µg/Kg-dry	1	10/29/13 12:44
1,1-Dichloroethane	U		19	52	µg/Kg-dry	1	10/29/13 12:44
1,1-Dichloroethene	U		22	52	µg/Kg-dry	1	10/29/13 12:44
1,2,4-Trichlorobenzene	U		27	52	µg/Kg-dry	1	10/29/13 12:44
1,2-Dibromo-3-chloropropane	U		25	52	µg/Kg-dry	1	10/29/13 12:44
1,2-Dibromoethane	U		21	52	µg/Kg-dry	1	10/29/13 12:44
1,2-Dichlorobenzene	U		21	52	µg/Kg-dry	1	10/29/13 12:44
1,2-Dichloroethane	U		25	52	µg/Kg-dry	1	10/29/13 12:44
1,2-Dichloropropane	U		17	52	µg/Kg-dry	1	10/29/13 12:44
1,3-Dichlorobenzene	U		21	52	µg/Kg-dry	1	10/29/13 12:44
1,4-Dichlorobenzene	U		20	52	µg/Kg-dry	1	10/29/13 12:44
2-Butanone	U		130	350	µg/Kg-dry	1	10/29/13 12:44
2-Hexanone	U		13	52	µg/Kg-dry	1	10/29/13 12:44
4-Methyl-2-pentanone	U		18	52	µg/Kg-dry	1	10/29/13 12:44
Acetone	U		110	170	µg/Kg-dry	1	10/29/13 12:44
Benzene	U		21	52	µg/Kg-dry	1	10/29/13 12:44
Bromodichloromethane	U		12	52	µg/Kg-dry	1	10/29/13 12:44
Bromoform	U		10	52	µg/Kg-dry	1	10/29/13 12:44
Bromomethane	U		20	130	µg/Kg-dry	1	10/29/13 12:44
Carbon disulfide	U		26	52	µg/Kg-dry	1	10/29/13 12:44
Carbon tetrachloride	U		15	52	µg/Kg-dry	1	10/29/13 12:44
Chlorobenzene	U		21	52	µg/Kg-dry	1	10/29/13 12:44
Chloroethane	U		110	170	µg/Kg-dry	1	10/29/13 12:44
Chloroform	U		22	52	µg/Kg-dry	1	10/29/13 12:44
Chloromethane	U		29	170	µg/Kg-dry	1	10/29/13 12:44
cis-1,2-Dichloroethene	U		21	52	µg/Kg-dry	1	10/29/13 12:44

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-065
Collection Date: 10/23/13 10:15 AM

Work Order: 13101246
Lab ID: 13101246-47
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		18	52	µg/Kg-dry	1	10/29/13 12:44
Cyclohexane	U		23	52	µg/Kg-dry	1	10/29/13 12:44
Dibromochloromethane	U		9.7	52	µg/Kg-dry	1	10/29/13 12:44
Dichlorodifluoromethane	U		24	52	µg/Kg-dry	1	10/29/13 12:44
Ethylbenzene	U		19	52	µg/Kg-dry	1	10/29/13 12:44
Isopropylbenzene	U		23	52	µg/Kg-dry	1	10/29/13 12:44
Methyl acetate	U		70	350	µg/Kg-dry	1	10/29/13 12:44
Methyl tert-butyl ether	U		22	52	µg/Kg-dry	1	10/29/13 12:44
Methylcyclohexane	U		24	52	µg/Kg-dry	1	10/29/13 12:44
Methylene chloride	U		21	52	µg/Kg-dry	1	10/29/13 12:44
Styrene	U		20	52	µg/Kg-dry	1	10/29/13 12:44
Tetrachloroethene	U		23	52	µg/Kg-dry	1	10/29/13 12:44
Toluene	U		20	52	µg/Kg-dry	1	10/29/13 12:44
trans-1,2-Dichloroethene	U		16	52	µg/Kg-dry	1	10/29/13 12:44
trans-1,3-Dichloropropene	U		18	52	µg/Kg-dry	1	10/29/13 12:44
Trichlorofluoromethane	U		14	52	µg/Kg-dry	1	10/29/13 12:44
Vinyl chloride	U		24	52	µg/Kg-dry	1	10/29/13 12:44
Xylenes, Total	U		62	160	µg/Kg-dry	1	10/29/13 12:44
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	10/29/13 12:44
Surr: 4-Bromofluorobenzene	98.8			70-130	%REC	1	10/29/13 12:44
Surr: Dibromofluoromethane	96.4			70-130	%REC	1	10/29/13 12:44
Surr: Toluene-d8	99.4			70-130	%REC	1	10/29/13 12:44
BatchID: 52677							
Trichloroethene	11,000		49	100	µg/Kg-dry	2	10/29/13 22:09
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	2	10/29/13 22:09
Surr: 4-Bromofluorobenzene	91.2			70-130	%REC	2	10/29/13 22:09
Surr: Dibromofluoromethane	103			70-130	%REC	2	10/29/13 22:09
Surr: Toluene-d8	96.3			70-130	%REC	2	10/29/13 22:09
MOISTURE			A2540 G				Analyst: MEB
BatchID: R129428							
Moisture	12		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-066
Collection Date: 10/23/13 10:20 AM

Work Order: 13101246
Lab ID: 13101246-48
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/31/13	Analyst: LR
<u>BatchID: 52820</u>							
Mercury	0.018	J	0.00077	0.039	mg/Kg-dry	1	10/31/13 14:31
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52750</u>							
Antimony	0.46	J	0.0079	2.0	mg/Kg-dry	5	10/29/13 02:20
Arsenic	1.5	J	0.27	2.0	mg/Kg-dry	5	10/29/13 02:20
Barium	58		0.055	2.0	mg/Kg-dry	5	10/29/13 02:20
Beryllium	0.15	J	0.016	0.79	mg/Kg-dry	5	10/29/13 02:20
Cadmium	0.22	J	0.0079	0.79	mg/Kg-dry	5	10/29/13 02:20
Chromium	29		0.32	2.0	mg/Kg-dry	5	10/29/13 02:20
Cobalt	3.8		0.0079	2.0	mg/Kg-dry	5	10/29/13 02:20
Copper	31		0.39	2.0	mg/Kg-dry	5	10/29/13 02:20
Iron	6,800		6.6	32	mg/Kg-dry	5	10/29/13 02:20
Lead	30		0.0079	2.0	mg/Kg-dry	5	10/29/13 02:20
Manganese	160		0.17	2.0	mg/Kg-dry	5	10/29/13 02:20
Molybdenum	8.6		0.087	2.0	mg/Kg-dry	5	10/29/13 02:20
Nickel	26		0.20	2.0	mg/Kg-dry	5	10/29/13 02:20
Selenium	U		0.25	2.0	mg/Kg-dry	5	10/29/13 02:20
Silver	0.12	J	0.0079	2.0	mg/Kg-dry	5	10/29/13 02:20
Thallium	0.058	J	0.047	2.0	mg/Kg-dry	5	10/29/13 02:20
Vanadium	8.6		0.12	2.0	mg/Kg-dry	5	10/29/13 02:20
Zinc	72		0.17	4.0	mg/Kg-dry	5	10/29/13 02:20
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/28/13	Analyst: CW
<u>BatchID: 52731</u>							
2-Methylnaphthalene	U		2.9	7.1	µg/Kg-dry	1	10/29/13 12:38
Acenaphthene	U		1.1	7.1	µg/Kg-dry	1	10/29/13 12:38
Acenaphthylene	U		1.3	7.1	µg/Kg-dry	1	10/29/13 12:38
Anthracene	U		1.4	7.1	µg/Kg-dry	1	10/29/13 12:38
Benzo(a)anthracene	61		1.4	7.1	µg/Kg-dry	1	10/29/13 12:38
Benzo(a)pyrene	73		2.3	7.1	µg/Kg-dry	1	10/29/13 12:38
Benzo(b)fluoranthene	110		2.1	7.1	µg/Kg-dry	1	10/29/13 12:38
Benzo(g,h,i)perylene	47		2.8	7.1	µg/Kg-dry	1	10/29/13 12:38
Benzo(k)fluoranthene	29		1.5	7.1	µg/Kg-dry	1	10/29/13 12:38
Chrysene	54		1.7	7.1	µg/Kg-dry	1	10/29/13 12:38
Dibenzo(a,h)anthracene	22		2.6	7.1	µg/Kg-dry	1	10/29/13 12:38
Fluoranthene	100		2.5	7.1	µg/Kg-dry	1	10/29/13 12:38
Fluorene	U		2.4	7.1	µg/Kg-dry	1	10/29/13 12:38

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-066
Collection Date: 10/23/13 10:20 AM

Work Order: 13101246
Lab ID: 13101246-48
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	50		2.4	7.1	µg/Kg-dry	1	10/29/13 12:38
Naphthalene	U		2.6	7.1	µg/Kg-dry	1	10/29/13 12:38
Phenanthrene	40		1.4	7.1	µg/Kg-dry	1	10/29/13 12:38
Pyrene	94		2.4	7.1	µg/Kg-dry	1	10/29/13 12:38
Surr: 2-Fluorobiphenyl	77.6			12-100	%REC	1	10/29/13 12:38
Surr: 4-Terphenyl-d14	110			25-137	%REC	1	10/29/13 12:38
Surr: Nitrobenzene-d5	64.1			37-107	%REC	1	10/29/13 12:38
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		15	39	µg/Kg-dry	1	10/29/13 01:07
1,1,2,2-Tetrachloroethane	U		17	39	µg/Kg-dry	1	10/29/13 01:07
1,1,2-Trichloroethane	U		14	39	µg/Kg-dry	1	10/29/13 01:07
1,1,2-Trichlorotrifluoroethane	U		15	39	µg/Kg-dry	1	10/29/13 01:07
1,1-Dichloroethane	U		14	39	µg/Kg-dry	1	10/29/13 01:07
1,1-Dichloroethene	U		16	39	µg/Kg-dry	1	10/29/13 01:07
1,2,4-Trichlorobenzene	U		20	39	µg/Kg-dry	1	10/29/13 01:07
1,2-Dibromo-3-chloropropane	U		19	39	µg/Kg-dry	1	10/29/13 01:07
1,2-Dibromoethane	U		15	39	µg/Kg-dry	1	10/29/13 01:07
1,2-Dichlorobenzene	U		16	39	µg/Kg-dry	1	10/29/13 01:07
1,2-Dichloroethane	U		19	39	µg/Kg-dry	1	10/29/13 01:07
1,2-Dichloropropane	U		13	39	µg/Kg-dry	1	10/29/13 01:07
1,3-Dichlorobenzene	U		16	39	µg/Kg-dry	1	10/29/13 01:07
1,4-Dichlorobenzene	U		15	39	µg/Kg-dry	1	10/29/13 01:07
2-Butanone	U		97	260	µg/Kg-dry	1	10/29/13 01:07
2-Hexanone	U		9.6	39	µg/Kg-dry	1	10/29/13 01:07
4-Methyl-2-pentanone	U		13	39	µg/Kg-dry	1	10/29/13 01:07
Acetone	U		83	130	µg/Kg-dry	1	10/29/13 01:07
Benzene	U		16	39	µg/Kg-dry	1	10/29/13 01:07
Bromodichloromethane	U		8.8	39	µg/Kg-dry	1	10/29/13 01:07
Bromoform	U		7.7	39	µg/Kg-dry	1	10/29/13 01:07
Bromomethane	U		15	98	µg/Kg-dry	1	10/29/13 01:07
Carbon disulfide	U		19	39	µg/Kg-dry	1	10/29/13 01:07
Carbon tetrachloride	U		11	39	µg/Kg-dry	1	10/29/13 01:07
Chlorobenzene	U		16	39	µg/Kg-dry	1	10/29/13 01:07
Chloroethane	U		83	130	µg/Kg-dry	1	10/29/13 01:07
Chloroform	U		16	39	µg/Kg-dry	1	10/29/13 01:07
Chloromethane	U		22	130	µg/Kg-dry	1	10/29/13 01:07
cis-1,2-Dichloroethene	U		16	39	µg/Kg-dry	1	10/29/13 01:07
cis-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	10/29/13 01:07

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-066
Collection Date: 10/23/13 10:20 AM

Work Order: 13101246
Lab ID: 13101246-48
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		18	39	µg/Kg-dry	1	10/29/13 01:07
Dibromochloromethane	U		7.3	39	µg/Kg-dry	1	10/29/13 01:07
Dichlorodifluoromethane	U		18	39	µg/Kg-dry	1	10/29/13 01:07
Ethylbenzene	U		15	39	µg/Kg-dry	1	10/29/13 01:07
Isopropylbenzene	U		17	39	µg/Kg-dry	1	10/29/13 01:07
Methyl acetate	U		53	260	µg/Kg-dry	1	10/29/13 01:07
Methyl tert-butyl ether	U		17	39	µg/Kg-dry	1	10/29/13 01:07
Methylcyclohexane	U		18	39	µg/Kg-dry	1	10/29/13 01:07
Methylene chloride	U		15	39	µg/Kg-dry	1	10/29/13 01:07
Styrene	U		15	39	µg/Kg-dry	1	10/29/13 01:07
Tetrachloroethene	U		17	39	µg/Kg-dry	1	10/29/13 01:07
Toluene	U		15	39	µg/Kg-dry	1	10/29/13 01:07
trans-1,2-Dichloroethene	U		12	39	µg/Kg-dry	1	10/29/13 01:07
trans-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	10/29/13 01:07
Trichloroethene	1,100		18	39	µg/Kg-dry	1	10/29/13 01:07
Trichlorofluoromethane	U		11	39	µg/Kg-dry	1	10/29/13 01:07
Vinyl chloride	U		18	39	µg/Kg-dry	1	10/29/13 01:07
Xylenes, Total	U		46	120	µg/Kg-dry	1	10/29/13 01:07
Surr: 1,2-Dichloroethane-d4	103			70-130	%REC	1	10/29/13 01:07
Surr: 4-Bromofluorobenzene	96.6			70-130	%REC	1	10/29/13 01:07
Surr: Dibromofluoromethane	95.2			70-130	%REC	1	10/29/13 01:07
Surr: Toluene-d8	99.2			70-130	%REC	1	10/29/13 01:07
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129428</u>							
Moisture	7.3		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-067
Collection Date: 10/23/13 10:40 AM

Work Order: 13101246
Lab ID: 13101246-49
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA							
			SW7470A			Prep: SW7470 / 10/28/13	Analyst: LR
BatchID: <u>52724</u>							
Mercury	U		0.000080	0.0020	mg/L	1	10/29/13 14:39
TCLP METALS ANALYSIS BY ICP-MS							
			SW6020A			Prep: SW3005A / 10/27/13	Analyst: RH
BatchID: <u>52720</u>							
Arsenic	U		0.0072	0.010	mg/L	1	10/28/13 19:54
Barium	0.49		0.0027	0.050	mg/L	1	10/28/13 19:54
Cadmium	0.0049		0.00034	0.0020	mg/L	1	10/28/13 19:54
Chromium	0.0056	J	0.00042	0.020	mg/L	1	10/28/13 19:54
Lead	0.019		0.00027	0.010	mg/L	1	10/28/13 19:54
Selenium	U		0.0041	0.020	mg/L	1	10/28/13 19:54
Silver	U		0.00025	0.0050	mg/L	1	10/28/13 19:54
TCLP VOLATILE ORGANICS							
			SW8260			Leachate: SW1311 / 10/27/13	Analyst: BG
BatchID: <u>52706</u>						Prep: SW1311 / 10/27/13	
1,1-Dichloroethene	U		3.9	20	µg/L	20	10/29/13 08:58
1,2-Dichloroethane	U		3.0	20	µg/L	20	10/29/13 08:58
2-Butanone	U		7.1	200	µg/L	20	10/29/13 08:58
Benzene	U		3.6	20	µg/L	20	10/29/13 08:58
Carbon tetrachloride	U		3.2	20	µg/L	20	10/29/13 08:58
Chlorobenzene	U		2.9	20	µg/L	20	10/29/13 08:58
Chloroform	U		3.8	20	µg/L	20	10/29/13 08:58
Tetrachloroethene	U		2.7	20	µg/L	20	10/29/13 08:58
Trichloroethene	U		3.8	20	µg/L	20	10/29/13 08:58
Vinyl chloride	U		5.6	20	µg/L	20	10/29/13 08:58
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	20	10/29/13 08:58
Surr: 4-Bromofluorobenzene	97.6			70-130	%REC	20	10/29/13 08:58
Surr: Dibromofluoromethane	94.9			70-130	%REC	20	10/29/13 08:58
Surr: Toluene-d8	101			70-130	%REC	20	10/29/13 08:58

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-068
Collection Date: 10/23/13 11:15 AM

Work Order: 13101246
Lab ID: 13101246-50
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/28/13	Analyst: LR
BatchID: 52719							
Mercury	0.025	J	0.00067	0.034	mg/Kg-dry	1	10/30/13 16:29
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52750							
Antimony	1.2	J	0.0078	2.0	mg/Kg-dry	5	10/30/13 02:08
Arsenic	3.5		0.27	2.0	mg/Kg-dry	5	10/30/13 02:08
Barium	46		0.055	2.0	mg/Kg-dry	5	10/30/13 02:08
Beryllium	0.19	J	0.016	0.78	mg/Kg-dry	5	10/30/13 02:08
Cadmium	0.82		0.0078	0.78	mg/Kg-dry	5	10/30/13 02:08
Chromium	100		0.32	2.0	mg/Kg-dry	5	10/30/13 02:08
Cobalt	8.2		0.0078	2.0	mg/Kg-dry	5	10/30/13 02:08
Copper	50		0.38	2.0	mg/Kg-dry	5	10/30/13 19:22
Iron	9,300		6.5	31	mg/Kg-dry	5	10/30/13 02:08
Lead	52		0.0078	2.0	mg/Kg-dry	5	10/30/13 02:08
Manganese	350		0.17	2.0	mg/Kg-dry	5	10/30/13 02:08
Molybdenum	20		0.086	2.0	mg/Kg-dry	5	10/30/13 02:08
Nickel	85		0.20	2.0	mg/Kg-dry	5	10/30/13 02:08
Selenium	U		0.25	2.0	mg/Kg-dry	5	10/30/13 02:08
Silver	0.90	J	0.0078	2.0	mg/Kg-dry	5	10/30/13 02:08
Thallium	0.053	J	0.047	2.0	mg/Kg-dry	5	10/30/13 02:08
Vanadium	6.9		0.12	2.0	mg/Kg-dry	5	10/30/13 02:08
Zinc	65		0.16	3.9	mg/Kg-dry	5	10/30/13 02:08
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
BatchID: 52689							
2-Methylnaphthalene	40		2.9	7.1	µg/Kg-dry	1	10/28/13 16:16
Acenaphthene	U		1.1	7.1	µg/Kg-dry	1	10/28/13 16:16
Acenaphthylene	24		1.3	7.1	µg/Kg-dry	1	10/28/13 16:16
Anthracene	100		1.4	7.1	µg/Kg-dry	1	10/28/13 16:16
Benzo(a)anthracene	330		1.4	7.1	µg/Kg-dry	1	10/28/13 16:16
Benzo(a)pyrene	400		2.3	7.1	µg/Kg-dry	1	10/28/13 16:16
Benzo(b)fluoranthene	400		2.1	7.1	µg/Kg-dry	1	10/28/13 16:16
Benzo(g,h,i)perylene	360		2.8	7.1	µg/Kg-dry	1	10/28/13 16:16
Benzo(k)fluoranthene	360		1.5	7.1	µg/Kg-dry	1	10/28/13 16:16
Chrysene	400		1.7	7.1	µg/Kg-dry	1	10/28/13 16:16
Dibenzo(a,h)anthracene	63		2.6	7.1	µg/Kg-dry	1	10/28/13 16:16
Fluoranthene	650		2.5	7.1	µg/Kg-dry	1	10/28/13 16:16
Fluorene	25		2.4	7.1	µg/Kg-dry	1	10/28/13 16:16

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-068
Collection Date: 10/23/13 11:15 AM

Work Order: 13101246
Lab ID: 13101246-50
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	260		2.4	7.1	µg/Kg-dry	1	10/28/13 16:16
Naphthalene	22		2.6	7.1	µg/Kg-dry	1	10/28/13 16:16
Phenanthrene	400		1.4	7.1	µg/Kg-dry	1	10/28/13 16:16
Pyrene	650		2.4	7.1	µg/Kg-dry	1	10/28/13 16:16
Surr: 2-Fluorobiphenyl	69.7			12-100	%REC	1	10/28/13 16:16
Surr: 4-Terphenyl-d14	116			25-137	%REC	1	10/28/13 16:16
Surr: Nitrobenzene-d5	65.6			37-107	%REC	1	10/28/13 16:16
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		14	36	µg/Kg-dry	1	10/29/13 01:30
1,1,2,2-Tetrachloroethane	U		16	36	µg/Kg-dry	1	10/29/13 01:30
1,1,2-Trichloroethane	U		13	36	µg/Kg-dry	1	10/29/13 01:30
1,1,2-Trichlorotrifluoroethane	U		13	36	µg/Kg-dry	1	10/29/13 01:30
1,1-Dichloroethane	U		13	36	µg/Kg-dry	1	10/29/13 01:30
1,1-Dichloroethene	U		15	36	µg/Kg-dry	1	10/29/13 01:30
1,2,4-Trichlorobenzene	U		18	36	µg/Kg-dry	1	10/29/13 01:30
1,2-Dibromo-3-chloropropane	U		17	36	µg/Kg-dry	1	10/29/13 01:30
1,2-Dibromoethane	U		14	36	µg/Kg-dry	1	10/29/13 01:30
1,2-Dichlorobenzene	U		14	36	µg/Kg-dry	1	10/29/13 01:30
1,2-Dichloroethane	U		17	36	µg/Kg-dry	1	10/29/13 01:30
1,2-Dichloropropane	U		12	36	µg/Kg-dry	1	10/29/13 01:30
1,3-Dichlorobenzene	U		14	36	µg/Kg-dry	1	10/29/13 01:30
1,4-Dichlorobenzene	U		14	36	µg/Kg-dry	1	10/29/13 01:30
2-Butanone	U		88	240	µg/Kg-dry	1	10/29/13 01:30
2-Hexanone	U		8.7	36	µg/Kg-dry	1	10/29/13 01:30
4-Methyl-2-pentanone	U		12	36	µg/Kg-dry	1	10/29/13 01:30
Acetone	U		75	120	µg/Kg-dry	1	10/29/13 01:30
Benzene	U		14	36	µg/Kg-dry	1	10/29/13 01:30
Bromodichloromethane	U		8.0	36	µg/Kg-dry	1	10/29/13 01:30
Bromoform	U		7.0	36	µg/Kg-dry	1	10/29/13 01:30
Bromomethane	U		14	89	µg/Kg-dry	1	10/29/13 01:30
Carbon disulfide	U		18	36	µg/Kg-dry	1	10/29/13 01:30
Carbon tetrachloride	U		10	36	µg/Kg-dry	1	10/29/13 01:30
Chlorobenzene	U		15	36	µg/Kg-dry	1	10/29/13 01:30
Chloroethane	U		76	120	µg/Kg-dry	1	10/29/13 01:30
Chloroform	U		15	36	µg/Kg-dry	1	10/29/13 01:30
Chloromethane	U		20	120	µg/Kg-dry	1	10/29/13 01:30
cis-1,2-Dichloroethene	U		14	36	µg/Kg-dry	1	10/29/13 01:30
cis-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	10/29/13 01:30

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-068
Collection Date: 10/23/13 11:15 AM

Work Order: 13101246
Lab ID: 13101246-50
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		16	36	µg/Kg-dry	1	10/29/13 01:30
Dibromochloromethane	U		6.6	36	µg/Kg-dry	1	10/29/13 01:30
Dichlorodifluoromethane	U		16	36	µg/Kg-dry	1	10/29/13 01:30
Ethylbenzene	U		13	36	µg/Kg-dry	1	10/29/13 01:30
Isopropylbenzene	U		15	36	µg/Kg-dry	1	10/29/13 01:30
Methyl acetate	U		48	240	µg/Kg-dry	1	10/29/13 01:30
Methyl tert-butyl ether	U		15	36	µg/Kg-dry	1	10/29/13 01:30
Methylcyclohexane	U		17	36	µg/Kg-dry	1	10/29/13 01:30
Methylene chloride	U		14	36	µg/Kg-dry	1	10/29/13 01:30
Styrene	U		13	36	µg/Kg-dry	1	10/29/13 01:30
Tetrachloroethene	U		16	36	µg/Kg-dry	1	10/29/13 01:30
Toluene	34	J	13	36	µg/Kg-dry	1	10/29/13 01:30
trans-1,2-Dichloroethene	U		11	36	µg/Kg-dry	1	10/29/13 01:30
trans-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	10/29/13 01:30
Trichloroethene	990		17	36	µg/Kg-dry	1	10/29/13 01:30
Trichlorofluoromethane	U		9.8	36	µg/Kg-dry	1	10/29/13 01:30
Vinyl chloride	U		16	36	µg/Kg-dry	1	10/29/13 01:30
Xylenes, Total	U		42	110	µg/Kg-dry	1	10/29/13 01:30
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/29/13 01:30
Surr: 4-Bromofluorobenzene	97.6			70-130	%REC	1	10/29/13 01:30
Surr: Dibromofluoromethane	96.9			70-130	%REC	1	10/29/13 01:30
Surr: Toluene-d8	99.6			70-130	%REC	1	10/29/13 01:30
MOISTURE			A2540 G				Analyst: MEB
BatchID: R129428							
Moisture	6.9		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-069
Collection Date: 10/23/13 11:20 AM

Work Order: 13101246
Lab ID: 13101246-51
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/31/13	Analyst: LR
BatchID: <u>52820</u>							
Mercury	0.010	J	0.00080	0.040	mg/Kg-dry	1	10/31/13 15:05
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: <u>52750</u>							
Antimony	0.69	J	0.0069	1.7	mg/Kg-dry	5	10/30/13 02:14
Arsenic	4.2		0.23	1.7	mg/Kg-dry	5	10/30/13 02:14
Barium	37		0.048	1.7	mg/Kg-dry	5	10/30/13 02:14
Beryllium	0.17	J	0.014	0.69	mg/Kg-dry	5	10/30/13 02:14
Cadmium	0.43	J	0.0069	0.69	mg/Kg-dry	5	10/30/13 02:14
Chromium	55		0.28	1.7	mg/Kg-dry	5	10/30/13 02:14
Cobalt	5.4		0.0069	1.7	mg/Kg-dry	5	10/30/13 02:14
Copper	33		0.34	1.7	mg/Kg-dry	5	10/30/13 19:29
Iron	11,000		5.7	28	mg/Kg-dry	5	10/30/13 02:14
Lead	46		0.0069	1.7	mg/Kg-dry	5	10/30/13 02:14
Manganese	270		0.15	1.7	mg/Kg-dry	5	10/30/13 02:14
Molybdenum	39		0.076	1.7	mg/Kg-dry	5	10/30/13 02:14
Nickel	41		0.17	1.7	mg/Kg-dry	5	10/30/13 02:14
Selenium	0.33	J	0.22	1.7	mg/Kg-dry	5	10/30/13 02:14
Silver	0.26	J	0.0069	1.7	mg/Kg-dry	5	10/30/13 02:14
Thallium	U		0.041	1.7	mg/Kg-dry	5	10/30/13 02:14
Vanadium	6.6		0.10	1.7	mg/Kg-dry	5	10/30/13 02:14
Zinc	37		0.14	3.4	mg/Kg-dry	5	10/30/13 02:14
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
BatchID: <u>52689</u>							
2-Methylnaphthalene	32		2.9	7.1	µg/Kg-dry	1	10/28/13 14:00
Acenaphthene	U		1.1	7.1	µg/Kg-dry	1	10/28/13 14:00
Acenaphthylene	U		1.3	7.1	µg/Kg-dry	1	10/28/13 14:00
Anthracene	25		1.4	7.1	µg/Kg-dry	1	10/28/13 14:00
Benzo(a)anthracene	110		1.4	7.1	µg/Kg-dry	1	10/28/13 14:00
Benzo(a)pyrene	100		2.3	7.1	µg/Kg-dry	1	10/28/13 14:00
Benzo(b)fluoranthene	110		2.1	7.1	µg/Kg-dry	1	10/28/13 14:00
Benzo(g,h,i)perylene	110		2.8	7.1	µg/Kg-dry	1	10/28/13 14:00
Benzo(k)fluoranthene	100		1.5	7.1	µg/Kg-dry	1	10/28/13 14:00
Chrysene	120		1.7	7.1	µg/Kg-dry	1	10/28/13 14:00
Dibenzo(a,h)anthracene	U		2.6	7.1	µg/Kg-dry	1	10/28/13 14:00
Fluoranthene	170		2.5	7.1	µg/Kg-dry	1	10/28/13 14:00
Fluorene	U		2.4	7.1	µg/Kg-dry	1	10/28/13 14:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-069
Collection Date: 10/23/13 11:20 AM

Work Order: 13101246
Lab ID: 13101246-51
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	78		2.3	7.1	µg/Kg-dry	1	10/28/13 14:00
Naphthalene	U		2.6	7.1	µg/Kg-dry	1	10/28/13 14:00
Phenanthrene	82		1.4	7.1	µg/Kg-dry	1	10/28/13 14:00
Pyrene	170		2.4	7.1	µg/Kg-dry	1	10/28/13 14:00
Surr: 2-Fluorobiphenyl	67.1			12-100	%REC	1	10/28/13 14:00
Surr: 4-Terphenyl-d14	114			25-137	%REC	1	10/28/13 14:00
Surr: Nitrobenzene-d5	62.5			37-107	%REC	1	10/28/13 14:00
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		15	40	µg/Kg-dry	1	10/29/13 01:52
1,1,2,2-Tetrachloroethane	U		18	40	µg/Kg-dry	1	10/29/13 01:52
1,1,2-Trichloroethane	U		14	40	µg/Kg-dry	1	10/29/13 01:52
1,1,2-Trichlorotrifluoroethane	U		15	40	µg/Kg-dry	1	10/29/13 01:52
1,1-Dichloroethane	U		15	40	µg/Kg-dry	1	10/29/13 01:52
1,1-Dichloroethene	U		17	40	µg/Kg-dry	1	10/29/13 01:52
1,2,4-Trichlorobenzene	U		21	40	µg/Kg-dry	1	10/29/13 01:52
1,2-Dibromo-3-chloropropane	U		19	40	µg/Kg-dry	1	10/29/13 01:52
1,2-Dibromoethane	U		16	40	µg/Kg-dry	1	10/29/13 01:52
1,2-Dichlorobenzene	U		16	40	µg/Kg-dry	1	10/29/13 01:52
1,2-Dichloroethane	U		19	40	µg/Kg-dry	1	10/29/13 01:52
1,2-Dichloropropane	U		13	40	µg/Kg-dry	1	10/29/13 01:52
1,3-Dichlorobenzene	U		16	40	µg/Kg-dry	1	10/29/13 01:52
1,4-Dichlorobenzene	U		15	40	µg/Kg-dry	1	10/29/13 01:52
2-Butanone	U		99	270	µg/Kg-dry	1	10/29/13 01:52
2-Hexanone	U		9.8	40	µg/Kg-dry	1	10/29/13 01:52
4-Methyl-2-pentanone	U		14	40	µg/Kg-dry	1	10/29/13 01:52
Acetone	U		85	130	µg/Kg-dry	1	10/29/13 01:52
Benzene	U		16	40	µg/Kg-dry	1	10/29/13 01:52
Bromodichloromethane	U		9.0	40	µg/Kg-dry	1	10/29/13 01:52
Bromoform	U		7.9	40	µg/Kg-dry	1	10/29/13 01:52
Bromomethane	U		15	100	µg/Kg-dry	1	10/29/13 01:52
Carbon disulfide	U		20	40	µg/Kg-dry	1	10/29/13 01:52
Carbon tetrachloride	U		11	40	µg/Kg-dry	1	10/29/13 01:52
Chlorobenzene	U		16	40	µg/Kg-dry	1	10/29/13 01:52
Chloroethane	U		85	130	µg/Kg-dry	1	10/29/13 01:52
Chloroform	U		16	40	µg/Kg-dry	1	10/29/13 01:52
Chloromethane	U		22	130	µg/Kg-dry	1	10/29/13 01:52
cis-1,2-Dichloroethene	U		16	40	µg/Kg-dry	1	10/29/13 01:52
cis-1,3-Dichloropropene	U		14	40	µg/Kg-dry	1	10/29/13 01:52

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-069
Collection Date: 10/23/13 11:20 AM

Work Order: 13101246
Lab ID: 13101246-51
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		18	40	µg/Kg-dry	1	10/29/13 01:52
Dibromochloromethane	U		7.4	40	µg/Kg-dry	1	10/29/13 01:52
Dichlorodifluoromethane	U		18	40	µg/Kg-dry	1	10/29/13 01:52
Ethylbenzene	U		15	40	µg/Kg-dry	1	10/29/13 01:52
Isopropylbenzene	U		17	40	µg/Kg-dry	1	10/29/13 01:52
Methyl acetate	U		54	270	µg/Kg-dry	1	10/29/13 01:52
Methyl tert-butyl ether	U		17	40	µg/Kg-dry	1	10/29/13 01:52
Methylcyclohexane	U		19	40	µg/Kg-dry	1	10/29/13 01:52
Methylene chloride	U		16	40	µg/Kg-dry	1	10/29/13 01:52
Styrene	U		15	40	µg/Kg-dry	1	10/29/13 01:52
Tetrachloroethene	U		18	40	µg/Kg-dry	1	10/29/13 01:52
Toluene	U		15	40	µg/Kg-dry	1	10/29/13 01:52
trans-1,2-Dichloroethene	U		12	40	µg/Kg-dry	1	10/29/13 01:52
trans-1,3-Dichloropropene	U		13	40	µg/Kg-dry	1	10/29/13 01:52
Trichloroethene	580		19	40	µg/Kg-dry	1	10/29/13 01:52
Trichlorofluoromethane	U		11	40	µg/Kg-dry	1	10/29/13 01:52
Vinyl chloride	U		18	40	µg/Kg-dry	1	10/29/13 01:52
Xylenes, Total	U		47	120	µg/Kg-dry	1	10/29/13 01:52
Surr: 1,2-Dichloroethane-d4	99.4			70-130	%REC	1	10/29/13 01:52
Surr: 4-Bromofluorobenzene	96.9			70-130	%REC	1	10/29/13 01:52
Surr: Dibromofluoromethane	95.4			70-130	%REC	1	10/29/13 01:52
Surr: Toluene-d8	98.2			70-130	%REC	1	10/29/13 01:52
MOISTURE			A2540 G			Analyst: MEB	
BatchID: R129428							
Moisture	6.1		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-070
Collection Date: 10/23/13 11:25 AM

Work Order: 13101246
Lab ID: 13101246-52
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/31/13	Analyst: LR
BatchID: <u>52820</u>							
Mercury	0.095		0.00079	0.040	mg/Kg-dry	1	10/31/13 15:07
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: <u>52750</u>							
Antimony	0.46		0.0018	0.44	mg/Kg-dry	1	10/30/13 19:35
Arsenic	6.2		0.060	0.44	mg/Kg-dry	1	10/30/13 19:35
Barium	59		0.012	0.44	mg/Kg-dry	1	10/30/13 19:35
Beryllium	0.50		0.0035	0.18	mg/Kg-dry	1	10/30/13 19:35
Cadmium	0.066	J	0.0018	0.18	mg/Kg-dry	1	10/30/13 19:35
Chromium	7.5		0.073	0.44	mg/Kg-dry	1	10/30/13 19:35
Cobalt	3.1		0.0018	0.44	mg/Kg-dry	1	10/30/13 19:35
Copper	11		0.087	0.44	mg/Kg-dry	1	10/30/13 19:35
Iron	2,200		1.5	7.1	mg/Kg-dry	1	10/30/13 19:35
Lead	14		0.0018	0.44	mg/Kg-dry	1	10/30/13 19:35
Manganese	30		0.039	0.44	mg/Kg-dry	1	10/30/13 19:35
Molybdenum	1.2		0.020	0.44	mg/Kg-dry	1	10/30/13 19:35
Nickel	11		0.044	0.44	mg/Kg-dry	1	10/30/13 19:35
Selenium	0.18	J	0.057	0.44	mg/Kg-dry	1	10/30/13 19:35
Silver	0.033	J	0.0018	0.44	mg/Kg-dry	1	10/30/13 19:35
Thallium	0.090	J	0.011	0.44	mg/Kg-dry	1	10/30/13 19:35
Vanadium	5.4		0.027	0.44	mg/Kg-dry	1	10/30/13 19:35
Zinc	10		0.037	0.89	mg/Kg-dry	1	10/30/13 19:35
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/27/13	Analyst: CW
BatchID: <u>52689</u>							
2-Methylnaphthalene	350		30	73	µg/Kg-dry	10	10/28/13 17:24
Acenaphthene	U		11	73	µg/Kg-dry	10	10/28/13 17:24
Acenaphthylene	260		13	73	µg/Kg-dry	10	10/28/13 17:24
Anthracene	1,000		14	73	µg/Kg-dry	10	10/28/13 17:24
Benzo(a)anthracene	2,800		14	73	µg/Kg-dry	10	10/28/13 17:24
Benzo(a)pyrene	2,900		24	73	µg/Kg-dry	10	10/28/13 17:24
Benzo(b)fluoranthene	3,200		21	73	µg/Kg-dry	10	10/28/13 17:24
Benzo(g,h,i)perylene	2,000		29	73	µg/Kg-dry	10	10/28/13 17:24
Benzo(k)fluoranthene	2,400		15	73	µg/Kg-dry	10	10/28/13 17:24
Chrysene	3,400		17	73	µg/Kg-dry	10	10/28/13 17:24
Dibenzo(a,h)anthracene	570		27	73	µg/Kg-dry	10	10/28/13 17:24
Fluoranthene	4,900		25	73	µg/Kg-dry	10	10/28/13 17:24
Fluorene	840		24	73	µg/Kg-dry	10	10/28/13 17:24

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-070
Collection Date: 10/23/13 11:25 AM

Work Order: 13101246
Lab ID: 13101246-52
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	1,400		24	73	µg/Kg-dry	10	10/28/13 17:24
Naphthalene	U		27	73	µg/Kg-dry	10	10/28/13 17:24
Phenanthrene	3,800		15	73	µg/Kg-dry	10	10/28/13 17:24
Pyrene	4,100		25	73	µg/Kg-dry	10	10/28/13 17:24
Surr: 2-Fluorobiphenyl	29.8			12-100	%REC	10	10/28/13 17:24
Surr: 4-Terphenyl-d14	37.4			25-137	%REC	10	10/28/13 17:24
Surr: Nitrobenzene-d5	37.8			37-107	%REC	10	10/28/13 17:24
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		33	87	µg/Kg-dry	1	10/29/13 20:52
1,1,2,2-Tetrachloroethane	U		38	87	µg/Kg-dry	1	10/29/13 20:52
1,1,2-Trichloroethane	U		31	87	µg/Kg-dry	1	10/29/13 20:52
1,1,2-Trichlorotrifluoroethane	U		32	87	µg/Kg-dry	1	10/29/13 20:52
1,1-Dichloroethane	U		32	87	µg/Kg-dry	1	10/29/13 20:52
1,1-Dichloroethene	U		37	87	µg/Kg-dry	1	10/29/13 20:52
1,2,4-Trichlorobenzene	U		45	87	µg/Kg-dry	1	10/29/13 20:52
1,2-Dibromo-3-chloropropane	U		43	87	µg/Kg-dry	1	10/29/13 20:52
1,2-Dibromoethane	U		34	87	µg/Kg-dry	1	10/29/13 20:52
1,2-Dichlorobenzene	U		35	87	µg/Kg-dry	1	10/29/13 20:52
1,2-Dichloroethane	U		41	87	µg/Kg-dry	1	10/29/13 20:52
1,2-Dichloropropane	U		29	87	µg/Kg-dry	1	10/29/13 20:52
1,3-Dichlorobenzene	U		35	87	µg/Kg-dry	1	10/29/13 20:52
1,4-Dichlorobenzene	U		33	87	µg/Kg-dry	1	10/29/13 20:52
2-Butanone	U		220	580	µg/Kg-dry	1	10/29/13 20:52
2-Hexanone	U		21	87	µg/Kg-dry	1	10/29/13 20:52
4-Methyl-2-pentanone	U		29	87	µg/Kg-dry	1	10/29/13 20:52
Acetone	U		180	290	µg/Kg-dry	1	10/29/13 20:52
Benzene	U		35	87	µg/Kg-dry	1	10/29/13 20:52
Bromodichloromethane	U		20	87	µg/Kg-dry	1	10/29/13 20:52
Bromoform	U		17	87	µg/Kg-dry	1	10/29/13 20:52
Bromomethane	U		33	220	µg/Kg-dry	1	10/29/13 20:52
Carbon disulfide	U		43	87	µg/Kg-dry	1	10/29/13 20:52
Carbon tetrachloride	U		25	87	µg/Kg-dry	1	10/29/13 20:52
Chlorobenzene	U		36	87	µg/Kg-dry	1	10/29/13 20:52
Chloroethane	U		190	290	µg/Kg-dry	1	10/29/13 20:52
Chloroform	U		36	87	µg/Kg-dry	1	10/29/13 20:52
Chloromethane	U		49	290	µg/Kg-dry	1	10/29/13 20:52
cis-1,2-Dichloroethene	U		35	87	µg/Kg-dry	1	10/29/13 20:52
cis-1,3-Dichloropropene	U		30	87	µg/Kg-dry	1	10/29/13 20:52

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-070
Collection Date: 10/23/13 11:25 AM

Work Order: 13101246
Lab ID: 13101246-52
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		39	87	µg/Kg-dry	1	10/29/13 20:52
Dibromochloromethane	U		16	87	µg/Kg-dry	1	10/29/13 20:52
Dichlorodifluoromethane	U		39	87	µg/Kg-dry	1	10/29/13 20:52
Ethylbenzene	U		32	87	µg/Kg-dry	1	10/29/13 20:52
Isopropylbenzene	U		38	87	µg/Kg-dry	1	10/29/13 20:52
Methyl acetate	U		120	580	µg/Kg-dry	1	10/29/13 20:52
Methyl tert-butyl ether	U		37	87	µg/Kg-dry	1	10/29/13 20:52
Methylcyclohexane	U		40	87	µg/Kg-dry	1	10/29/13 20:52
Methylene chloride	U		34	87	µg/Kg-dry	1	10/29/13 20:52
Styrene	U		33	87	µg/Kg-dry	1	10/29/13 20:52
Tetrachloroethene	U		39	87	µg/Kg-dry	1	10/29/13 20:52
Toluene	U		33	87	µg/Kg-dry	1	10/29/13 20:52
trans-1,2-Dichloroethene	U		27	87	µg/Kg-dry	1	10/29/13 20:52
trans-1,3-Dichloropropene	U		29	87	µg/Kg-dry	1	10/29/13 20:52
Trichloroethene	1,300		41	87	µg/Kg-dry	1	10/29/13 20:52
Trichlorofluoromethane	U		24	87	µg/Kg-dry	1	10/29/13 20:52
Vinyl chloride	U		39	87	µg/Kg-dry	1	10/29/13 20:52
Xylenes, Total	U		100	260	µg/Kg-dry	1	10/29/13 20:52
Surr: 1,2-Dichloroethane-d4	103			70-130	%REC	1	10/29/13 20:52
Surr: 4-Bromofluorobenzene	96.0			70-130	%REC	1	10/29/13 20:52
Surr: Dibromofluoromethane	97.5			70-130	%REC	1	10/29/13 20:52
Surr: Toluene-d8	101			70-130	%REC	1	10/29/13 20:52
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129428</u>							
Moisture	9.8		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-071
Collection Date: 10/23/13 11:30 AM

Work Order: 13101246
Lab ID: 13101246-53
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/31/13	Analyst: LR
BatchID: 52820							
Mercury	0.018	J	0.00077	0.038	mg/Kg-dry	1	10/31/13 15:09
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52750							
Antimony	0.70		0.0015	0.37	mg/Kg-dry	1	10/30/13 19:41
Arsenic	0.86		0.050	0.37	mg/Kg-dry	1	10/30/13 19:41
Beryllium	0.053	J	0.0030	0.15	mg/Kg-dry	1	10/30/13 19:41
Cadmium	0.49		0.0015	0.15	mg/Kg-dry	1	10/30/13 19:41
Chromium	10		0.060	0.37	mg/Kg-dry	1	10/30/13 19:41
Cobalt	0.94		0.0015	0.37	mg/Kg-dry	1	10/30/13 19:41
Copper	6.3		0.072	0.37	mg/Kg-dry	1	10/30/13 19:41
Iron	3,400		1.2	5.9	mg/Kg-dry	1	10/30/13 19:41
Lead	52		0.0015	0.37	mg/Kg-dry	1	10/30/13 19:41
Manganese	54		0.032	0.37	mg/Kg-dry	1	10/30/13 19:41
Molybdenum	12		0.016	0.37	mg/Kg-dry	1	10/30/13 19:41
Nickel	8.3		0.037	0.37	mg/Kg-dry	1	10/30/13 19:41
Selenium	0.068	J	0.047	0.37	mg/Kg-dry	1	10/30/13 19:41
Silver	2.0		0.0015	0.37	mg/Kg-dry	1	10/30/13 19:41
Thallium	0.013	J	0.0089	0.37	mg/Kg-dry	1	10/30/13 19:41
Vanadium	1.8		0.022	0.37	mg/Kg-dry	1	10/30/13 19:41
Zinc	58		0.031	0.74	mg/Kg-dry	1	10/30/13 19:41
BatchID: 52750							
Barium	170		0.052	1.8	mg/Kg-dry	5	10/30/13 02:27
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/28/13	Analyst: CW
BatchID: 52716							
2-Methylnaphthalene	110		2.9	7.0	µg/Kg-dry	1	10/29/13 03:43
Acenaphthene	170		1.0	7.0	µg/Kg-dry	1	10/29/13 03:43
Acenaphthylene	69		1.3	7.0	µg/Kg-dry	1	10/29/13 03:43
Anthracene	440		1.4	7.0	µg/Kg-dry	1	10/29/13 03:43
Benzo(a)anthracene	720		1.4	7.0	µg/Kg-dry	1	10/29/13 03:43
Benzo(a)pyrene	650		2.3	7.0	µg/Kg-dry	1	10/29/13 03:43
Benzo(b)fluoranthene	1,200		2.0	7.0	µg/Kg-dry	1	10/29/13 03:43
Benzo(g,h,i)perylene	600		2.7	7.0	µg/Kg-dry	1	10/29/13 03:43
Benzo(k)fluoranthene	230		1.5	7.0	µg/Kg-dry	1	10/29/13 03:43
Chrysene	820		1.7	7.0	µg/Kg-dry	1	10/29/13 03:43
Dibenzo(a,h)anthracene	140		2.6	7.0	µg/Kg-dry	1	10/29/13 03:43
Fluoranthene	1,600		2.4	7.0	µg/Kg-dry	1	10/29/13 03:43

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-071
Collection Date: 10/23/13 11:30 AM

Work Order: 13101246
Lab ID: 13101246-53
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	220		2.3	7.0	µg/Kg-dry	1	10/29/13 03:43
Indeno(1,2,3-cd)pyrene	390		2.3	7.0	µg/Kg-dry	1	10/29/13 03:43
Naphthalene	62		2.6	7.0	µg/Kg-dry	1	10/29/13 03:43
Phenanthrene	1,300		1.4	7.0	µg/Kg-dry	1	10/29/13 03:43
Pyrene	1,600		2.4	7.0	µg/Kg-dry	1	10/29/13 03:43
Surr: 2-Fluorobiphenyl	84.3			12-100	%REC	1	10/29/13 03:43
Surr: 4-Terphenyl-d14	129			25-137	%REC	1	10/29/13 03:43
Surr: Nitrobenzene-d5	67.0			37-107	%REC	1	10/29/13 03:43
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		14	36	µg/Kg-dry	1	10/29/13 21:16
1,1,2,2-Tetrachloroethane	U		16	36	µg/Kg-dry	1	10/29/13 21:16
1,1,2-Trichloroethane	U		13	36	µg/Kg-dry	1	10/29/13 21:16
1,1,2-Trichlorotrifluoroethane	U		13	36	µg/Kg-dry	1	10/29/13 21:16
1,1-Dichloroethane	U		13	36	µg/Kg-dry	1	10/29/13 21:16
1,1-Dichloroethene	U		15	36	µg/Kg-dry	1	10/29/13 21:16
1,2,4-Trichlorobenzene	U		18	36	µg/Kg-dry	1	10/29/13 21:16
1,2-Dibromo-3-chloropropane	U		17	36	µg/Kg-dry	1	10/29/13 21:16
1,2-Dibromoethane	U		14	36	µg/Kg-dry	1	10/29/13 21:16
1,2-Dichlorobenzene	U		14	36	µg/Kg-dry	1	10/29/13 21:16
1,2-Dichloroethane	U		17	36	µg/Kg-dry	1	10/29/13 21:16
1,2-Dichloropropane	U		12	36	µg/Kg-dry	1	10/29/13 21:16
1,3-Dichlorobenzene	U		14	36	µg/Kg-dry	1	10/29/13 21:16
1,4-Dichlorobenzene	U		14	36	µg/Kg-dry	1	10/29/13 21:16
2-Butanone	U		88	240	µg/Kg-dry	1	10/29/13 21:16
2-Hexanone	U		8.8	36	µg/Kg-dry	1	10/29/13 21:16
4-Methyl-2-pentanone	U		12	36	µg/Kg-dry	1	10/29/13 21:16
Acetone	U		76	120	µg/Kg-dry	1	10/29/13 21:16
Benzene	U		14	36	µg/Kg-dry	1	10/29/13 21:16
Bromodichloromethane	U		8.0	36	µg/Kg-dry	1	10/29/13 21:16
Bromoform	U		7.0	36	µg/Kg-dry	1	10/29/13 21:16
Bromomethane	U		14	89	µg/Kg-dry	1	10/29/13 21:16
Carbon disulfide	U		18	36	µg/Kg-dry	1	10/29/13 21:16
Carbon tetrachloride	U		10	36	µg/Kg-dry	1	10/29/13 21:16
Chlorobenzene	U		15	36	µg/Kg-dry	1	10/29/13 21:16
Chloroethane	U		76	120	µg/Kg-dry	1	10/29/13 21:16
Chloroform	U		15	36	µg/Kg-dry	1	10/29/13 21:16
Chloromethane	U		20	120	µg/Kg-dry	1	10/29/13 21:16
cis-1,2-Dichloroethene	U		15	36	µg/Kg-dry	1	10/29/13 21:16

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-071
Collection Date: 10/23/13 11:30 AM

Work Order: 13101246
Lab ID: 13101246-53
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	10/29/13 21:16
Cyclohexane	U		16	36	µg/Kg-dry	1	10/29/13 21:16
Dibromochloromethane	U		6.6	36	µg/Kg-dry	1	10/29/13 21:16
Dichlorodifluoromethane	U		16	36	µg/Kg-dry	1	10/29/13 21:16
Ethylbenzene	U		13	36	µg/Kg-dry	1	10/29/13 21:16
Isopropylbenzene	U		15	36	µg/Kg-dry	1	10/29/13 21:16
Methyl acetate	1,200		48	240	µg/Kg-dry	1	10/29/13 21:16
Methyl tert-butyl ether	U		15	36	µg/Kg-dry	1	10/29/13 21:16
Methylcyclohexane	U		17	36	µg/Kg-dry	1	10/29/13 21:16
Methylene chloride	U		14	36	µg/Kg-dry	1	10/29/13 21:16
Styrene	U		13	36	µg/Kg-dry	1	10/29/13 21:16
Tetrachloroethene	U		16	36	µg/Kg-dry	1	10/29/13 21:16
Toluene	U		13	36	µg/Kg-dry	1	10/29/13 21:16
trans-1,2-Dichloroethene	U		11	36	µg/Kg-dry	1	10/29/13 21:16
trans-1,3-Dichloropropene	U		12	36	µg/Kg-dry	1	10/29/13 21:16
Trichloroethene	700		17	36	µg/Kg-dry	1	10/29/13 21:16
Trichlorofluoromethane	U		9.8	36	µg/Kg-dry	1	10/29/13 21:16
Vinyl chloride	U		16	36	µg/Kg-dry	1	10/29/13 21:16
Xylenes, Total	U		42	110	µg/Kg-dry	1	10/29/13 21:16
Surr: 1,2-Dichloroethane-d4	104			70-130	%REC	1	10/29/13 21:16
Surr: 4-Bromofluorobenzene	95.6			70-130	%REC	1	10/29/13 21:16
Surr: Dibromofluoromethane	98.2			70-130	%REC	1	10/29/13 21:16
Surr: Toluene-d8	96.5			70-130	%REC	1	10/29/13 21:16
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129428</u>							
Moisture	5.9		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-072
Collection Date: 10/23/13 11:50 AM

Work Order: 13101246
Lab ID: 13101246-54
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA							
			SW7470A			Prep: SW7470 / 10/28/13	Analyst: LR
BatchID: <u>52724</u>							
Mercury	0.00011	J	0.000080	0.0020	mg/L	1	10/30/13 14:12
TCLP METALS ANALYSIS BY ICP-MS							
			SW6020A			Prep: SW3005A / 10/27/13	Analyst: RH
BatchID: <u>52720</u>							
Arsenic	U		0.0072	0.010	mg/L	1	10/28/13 20:00
Barium	0.60		0.0027	0.050	mg/L	1	10/28/13 20:00
Cadmium	0.034		0.00034	0.0020	mg/L	1	10/28/13 20:00
Chromium	0.0025	J	0.00042	0.020	mg/L	1	10/28/13 20:00
Lead	0.16		0.00027	0.010	mg/L	1	10/28/13 20:00
Selenium	U		0.0041	0.020	mg/L	1	10/28/13 20:00
Silver	U		0.00025	0.0050	mg/L	1	10/28/13 20:00
TCLP SEMI-VOLATILE ORGANICS							
			SW8270			Prep: SW3510 / 10/28/13	Analyst: HL
BatchID: <u>52727</u>							
1,4-Dichlorobenzene	U		5.8	100	µg/L	1	10/28/13 21:12
2,4,5-Trichlorophenol	U		5.0	100	µg/L	1	10/28/13 21:12
2,4,6-Trichlorophenol	U		5.4	100	µg/L	1	10/28/13 21:12
2,4-Dinitrotoluene	U		5.4	100	µg/L	1	10/28/13 21:12
Hexachloro-1,3-butadiene	U		4.7	100	µg/L	1	10/28/13 21:12
Hexachlorobenzene	U		4.4	100	µg/L	1	10/28/13 21:12
Hexachloroethane	U		9.5	100	µg/L	1	10/28/13 21:12
m-Cresol	U		3.9	100	µg/L	1	10/28/13 21:12
Nitrobenzene	U		5.4	100	µg/L	1	10/28/13 21:12
o-Cresol	U		4.0	100	µg/L	1	10/28/13 21:12
p-Cresol	U		3.9	100	µg/L	1	10/28/13 21:12
Pentachlorophenol	U		5.4	400	µg/L	1	10/28/13 21:12
Pyridine	U		5.4	400	µg/L	1	10/28/13 21:12
Surr: 2,4,6-Tribromophenol	54.0			38-115	%REC	1	10/28/13 21:12
Surr: 2-Fluorobiphenyl	52.5			32-100	%REC	1	10/28/13 21:12
Surr: 2-Fluorophenol	39.5			22-59	%REC	1	10/28/13 21:12
Surr: 4-Terphenyl-d14	87.6			23-112	%REC	1	10/28/13 21:12
Surr: Nitrobenzene-d5	48.8			31-93	%REC	1	10/28/13 21:12
Surr: Phenol-d6	23.7			13-36	%REC	1	10/28/13 21:12
TCLP VOLATILE ORGANICS							
			SW8260			Leachate: SW1311 / 10/27/13 Prep: SW1311 / 10/27/13	Analyst: RS
BatchID: <u>52706</u>							
1,1-Dichloroethene	U		3.9	20	µg/L	20	10/30/13 02:10
1,2-Dichloroethane	U		3.0	20	µg/L	20	10/30/13 02:10

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-072
Collection Date: 10/23/13 11:50 AM

Work Order: 13101246
Lab ID: 13101246-54
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		7.1	200	µg/L	20	10/30/13 02:10
Benzene	U		3.6	20	µg/L	20	10/30/13 02:10
Carbon tetrachloride	U		3.2	20	µg/L	20	10/30/13 02:10
Chlorobenzene	U		2.9	20	µg/L	20	10/30/13 02:10
Chloroform	U		3.8	20	µg/L	20	10/30/13 02:10
Tetrachloroethene	U		2.7	20	µg/L	20	10/30/13 02:10
Trichloroethene	44		3.8	20	µg/L	20	10/30/13 02:10
Vinyl chloride	U		5.6	20	µg/L	20	10/30/13 02:10
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	20	10/30/13 02:10
Surr: 4-Bromofluorobenzene	90.5			70-130	%REC	20	10/30/13 02:10
Surr: Dibromofluoromethane	103			70-130	%REC	20	10/30/13 02:10
Surr: Toluene-d8	97.2			70-130	%REC	20	10/30/13 02:10

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-073
Collection Date: 10/23/13 12:10 PM

Work Order: 13101246
Lab ID: 13101246-55
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/31/13	Analyst: LR
BatchID: 52820							
Mercury	0.017	J	0.00078	0.039	mg/Kg-dry	1	10/31/13 15:11
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52750							
Antimony	0.37		0.0014	0.36	mg/Kg-dry	1	10/30/13 19:47
Arsenic	4.8		0.049	0.36	mg/Kg-dry	1	10/30/13 19:47
Barium	48		0.010	0.36	mg/Kg-dry	1	10/30/13 19:47
Beryllium	0.29		0.0029	0.14	mg/Kg-dry	1	10/30/13 19:47
Cadmium	0.21		0.0014	0.14	mg/Kg-dry	1	10/30/13 19:47
Chromium	9.9		0.059	0.36	mg/Kg-dry	1	10/30/13 19:47
Cobalt	2.8		0.0014	0.36	mg/Kg-dry	1	10/30/13 19:47
Copper	17		0.070	0.36	mg/Kg-dry	1	10/30/13 19:47
Iron	7,000		1.2	5.8	mg/Kg-dry	1	10/30/13 19:47
Lead	38		0.0014	0.36	mg/Kg-dry	1	10/30/13 19:47
Manganese	110		0.032	0.36	mg/Kg-dry	1	10/30/13 19:47
Molybdenum	1.8		0.016	0.36	mg/Kg-dry	1	10/30/13 19:47
Nickel	11		0.036	0.36	mg/Kg-dry	1	10/30/13 19:47
Selenium	0.38		0.046	0.36	mg/Kg-dry	1	10/30/13 19:47
Silver	0.089	J	0.0014	0.36	mg/Kg-dry	1	10/30/13 19:47
Thallium	0.12	J	0.0086	0.36	mg/Kg-dry	1	10/30/13 19:47
Vanadium	9.7		0.022	0.36	mg/Kg-dry	1	10/30/13 19:47
Zinc	22		0.030	0.72	mg/Kg-dry	1	10/30/13 19:47
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/28/13	Analyst: CW
BatchID: 52716							
2-Methylnaphthalene	130		3.0	7.3	µg/Kg-dry	1	10/29/13 01:43
Acenaphthene	U		1.1	7.3	µg/Kg-dry	1	10/29/13 01:43
Acenaphthylene	U		1.3	7.3	µg/Kg-dry	1	10/29/13 01:43
Anthracene	27		1.4	7.3	µg/Kg-dry	1	10/29/13 01:43
Benzo(a)anthracene	120		1.4	7.3	µg/Kg-dry	1	10/29/13 01:43
Benzo(a)pyrene	130		2.4	7.3	µg/Kg-dry	1	10/29/13 01:43
Benzo(b)fluoranthene	240		2.1	7.3	µg/Kg-dry	1	10/29/13 01:43
Benzo(g,h,i)perylene	86		2.9	7.3	µg/Kg-dry	1	10/29/13 01:43
Benzo(k)fluoranthene	63		1.5	7.3	µg/Kg-dry	1	10/29/13 01:43
Chrysene	130		1.7	7.3	µg/Kg-dry	1	10/29/13 01:43
Dibenzo(a,h)anthracene	31		2.7	7.3	µg/Kg-dry	1	10/29/13 01:43
Fluoranthene	200		2.5	7.3	µg/Kg-dry	1	10/29/13 01:43
Fluorene	U		2.4	7.3	µg/Kg-dry	1	10/29/13 01:43

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-073
Collection Date: 10/23/13 12:10 PM

Work Order: 13101246
Lab ID: 13101246-55
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	79		2.4	7.3	µg/Kg-dry	1	10/29/13 01:43
Naphthalene	75		2.7	7.3	µg/Kg-dry	1	10/29/13 01:43
Phenanthrene	180		1.5	7.3	µg/Kg-dry	1	10/29/13 01:43
Pyrene	180		2.5	7.3	µg/Kg-dry	1	10/29/13 01:43
Surr: 2-Fluorobiphenyl	84.0			12-100	%REC	1	10/29/13 01:43
Surr: 4-Terphenyl-d14	131			25-137	%REC	1	10/29/13 01:43
Surr: Nitrobenzene-d5	66.3			37-107	%REC	1	10/29/13 01:43
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		16	41	µg/Kg-dry	1	10/29/13 03:02
1,1,2,2-Tetrachloroethane	U		18	41	µg/Kg-dry	1	10/29/13 03:02
1,1,2-Trichloroethane	U		14	41	µg/Kg-dry	1	10/29/13 03:02
1,1,2-Trichlorotrifluoroethane	U		15	41	µg/Kg-dry	1	10/29/13 03:02
1,1-Dichloroethane	U		15	41	µg/Kg-dry	1	10/29/13 03:02
1,1-Dichloroethene	U		17	41	µg/Kg-dry	1	10/29/13 03:02
1,2,4-Trichlorobenzene	U		21	41	µg/Kg-dry	1	10/29/13 03:02
1,2-Dibromo-3-chloropropane	U		20	41	µg/Kg-dry	1	10/29/13 03:02
1,2-Dibromoethane	U		16	41	µg/Kg-dry	1	10/29/13 03:02
1,2-Dichlorobenzene	U		16	41	µg/Kg-dry	1	10/29/13 03:02
1,2-Dichloroethane	U		19	41	µg/Kg-dry	1	10/29/13 03:02
1,2-Dichloropropane	U		14	41	µg/Kg-dry	1	10/29/13 03:02
1,3-Dichlorobenzene	U		16	41	µg/Kg-dry	1	10/29/13 03:02
1,4-Dichlorobenzene	U		16	41	µg/Kg-dry	1	10/29/13 03:02
2-Butanone	U		100	270	µg/Kg-dry	1	10/29/13 03:02
2-Hexanone	U		10	41	µg/Kg-dry	1	10/29/13 03:02
4-Methyl-2-pentanone	U		14	41	µg/Kg-dry	1	10/29/13 03:02
Acetone	U		86	140	µg/Kg-dry	1	10/29/13 03:02
Benzene	31	J	16	41	µg/Kg-dry	1	10/29/13 03:02
Bromodichloromethane	U		9.2	41	µg/Kg-dry	1	10/29/13 03:02
Bromoform	U		8.0	41	µg/Kg-dry	1	10/29/13 03:02
Bromomethane	U		16	100	µg/Kg-dry	1	10/29/13 03:02
Carbon disulfide	U		20	41	µg/Kg-dry	1	10/29/13 03:02
Carbon tetrachloride	U		12	41	µg/Kg-dry	1	10/29/13 03:02
Chlorobenzene	U		17	41	µg/Kg-dry	1	10/29/13 03:02
Chloroethane	U		87	140	µg/Kg-dry	1	10/29/13 03:02
Chloroform	U		17	41	µg/Kg-dry	1	10/29/13 03:02
Chloromethane	U		23	140	µg/Kg-dry	1	10/29/13 03:02
cis-1,2-Dichloroethene	U		17	41	µg/Kg-dry	1	10/29/13 03:02
cis-1,3-Dichloropropene	U		14	41	µg/Kg-dry	1	10/29/13 03:02

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-073
Collection Date: 10/23/13 12:10 PM

Work Order: 13101246
Lab ID: 13101246-55
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U	J	18	41	µg/Kg-dry	1	10/29/13 03:02
Dibromochloromethane	U		7.6	41	µg/Kg-dry	1	10/29/13 03:02
Dichlorodifluoromethane	U		18	41	µg/Kg-dry	1	10/29/13 03:02
Ethylbenzene	24		15	41	µg/Kg-dry	1	10/29/13 03:02
Isopropylbenzene	U		18	41	µg/Kg-dry	1	10/29/13 03:02
Methyl acetate	U		55	270	µg/Kg-dry	1	10/29/13 03:02
Methyl tert-butyl ether	U		17	41	µg/Kg-dry	1	10/29/13 03:02
Methylcyclohexane	140		19	41	µg/Kg-dry	1	10/29/13 03:02
Methylene chloride	U		16	41	µg/Kg-dry	1	10/29/13 03:02
Styrene	U		15	41	µg/Kg-dry	1	10/29/13 03:02
Tetrachloroethene	U	18	41	µg/Kg-dry	1	10/29/13 03:02	
Toluene	110		15	41	µg/Kg-dry	1	10/29/13 03:02
trans-1,2-Dichloroethene	U		13	41	µg/Kg-dry	1	10/29/13 03:02
trans-1,3-Dichloropropene	U		14	41	µg/Kg-dry	1	10/29/13 03:02
Trichloroethene	2,300		19	41	µg/Kg-dry	1	10/29/13 03:02
Trichlorofluoromethane	U		11	41	µg/Kg-dry	1	10/29/13 03:02
Vinyl chloride	U		18	41	µg/Kg-dry	1	10/29/13 03:02
Xylenes, Total	150		48	120	µg/Kg-dry	1	10/29/13 03:02
Surr: 1,2-Dichloroethane-d4	98.8			70-130	%REC	1	10/29/13 03:02
Surr: 4-Bromofluorobenzene	98.6			70-130	%REC	1	10/29/13 03:02
Surr: Dibromofluoromethane	97.3			70-130	%REC	1	10/29/13 03:02
Surr: Toluene-d8	99.0			70-130	%REC	1	10/29/13 03:02
MOISTURE			A2540 G			Analyst: MEB	
<u>BatchID: R129428</u>							
Moisture	8.4		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-074
Collection Date: 10/23/13 12:15 PM

Work Order: 13101246
Lab ID: 13101246-56
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7471			Prep: SW7471 / 10/31/13	Analyst: LR
<u>BatchID: 52820</u>							
Mercury	0.012	J	0.00074	0.037	mg/Kg-dry	1	10/31/13 15:39
METALS BY ICP-MS							
			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
<u>BatchID: 52750</u>							
Antimony	0.24	J	0.0071	1.8	mg/Kg-dry	5	10/30/13 02:39
Arsenic	3.3		0.24	1.8	mg/Kg-dry	5	10/30/13 02:39
Barium	37		0.050	1.8	mg/Kg-dry	5	10/30/13 02:39
Beryllium	0.17	J	0.014	0.71	mg/Kg-dry	5	10/30/13 02:39
Cadmium	0.17	J	0.0071	0.71	mg/Kg-dry	5	10/30/13 02:39
Chromium	13		0.29	1.8	mg/Kg-dry	5	10/30/13 02:39
Cobalt	2.7		0.0071	1.8	mg/Kg-dry	5	10/30/13 02:39
Copper	14		0.35	1.8	mg/Kg-dry	5	10/30/13 19:53
Iron	5,500		5.9	28	mg/Kg-dry	5	10/30/13 02:39
Lead	24		0.0071	1.8	mg/Kg-dry	5	10/30/13 02:39
Manganese	150		0.16	1.8	mg/Kg-dry	5	10/30/13 02:39
Molybdenum	1.8		0.078	1.8	mg/Kg-dry	5	10/30/13 02:39
Nickel	12		0.18	1.8	mg/Kg-dry	5	10/30/13 02:39
Selenium	0.31	J	0.23	1.8	mg/Kg-dry	5	10/30/13 02:39
Silver	0.068	J	0.0071	1.8	mg/Kg-dry	5	10/30/13 02:39
Thallium	0.051	J	0.043	1.8	mg/Kg-dry	5	10/30/13 02:39
Vanadium	7.8		0.11	1.8	mg/Kg-dry	5	10/30/13 02:39
Zinc	28		0.15	3.6	mg/Kg-dry	5	10/30/13 02:39
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3541 / 10/28/13	Analyst: CW
<u>BatchID: 52716</u>							
Acenaphthene	100		1.1	7.1	µg/Kg-dry	1	10/29/13 03:03
Acenaphthylene	36		1.3	7.1	µg/Kg-dry	1	10/29/13 03:03
Surr: 2-Fluorobiphenyl	69.9			12-100	%REC	1	10/29/13 03:03
Surr: 4-Terphenyl-d14	102			25-137	%REC	1	10/29/13 03:03
Surr: Nitrobenzene-d5	60.1			37-107	%REC	1	10/29/13 03:03
<u>BatchID: 52716</u>							
2-Methylnaphthalene	120		5.9	14	µg/Kg-dry	2	10/30/13 13:08
Anthracene	650		2.8	14	µg/Kg-dry	2	10/30/13 13:08
Benzo(a)anthracene	2,400		2.8	14	µg/Kg-dry	2	10/30/13 13:08
Benzo(a)pyrene	2,600		4.6	14	µg/Kg-dry	2	10/30/13 13:08
Benzo(b)fluoranthene	2,400		4.2	14	µg/Kg-dry	2	10/30/13 13:08
Benzo(g,h,i)perylene	1,500		5.6	14	µg/Kg-dry	2	10/30/13 13:08
Benzo(k)fluoranthene	1,900		3.0	14	µg/Kg-dry	2	10/30/13 13:08

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-074
Collection Date: 10/23/13 12:15 PM

Work Order: 13101246
Lab ID: 13101246-56
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chrysene	2,500		3.4	14	µg/Kg-dry	2	10/30/13 13:08
Dibenzo(a,h)anthracene	360		5.3	14	µg/Kg-dry	2	10/30/13 13:08
Fluorene	140		4.8	14	µg/Kg-dry	2	10/30/13 13:08
Indeno(1,2,3-cd)pyrene	1,400		4.7	14	µg/Kg-dry	2	10/30/13 13:08
Naphthalene	53		5.2	14	µg/Kg-dry	2	10/30/13 13:08
Phenanthrene	2,000		2.8	14	µg/Kg-dry	2	10/30/13 13:08
Surr: 2-Fluorobiphenyl	73.6			12-100	%REC	2	10/30/13 13:08
Surr: 4-Terphenyl-d14	107			25-137	%REC	2	10/30/13 13:08
Surr: Nitrobenzene-d5	77.7			37-107	%REC	2	10/30/13 13:08
BatchID: 52716							
Fluoranthene	5,400		10	28	µg/Kg-dry	4	10/30/13 15:28
Pyrene	4,200		9.6	28	µg/Kg-dry	4	10/30/13 15:28
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13	Analyst: AK	
BatchID: 52677							
1,1,1-Trichloroethane	U		19	49	µg/Kg-dry	1	10/29/13 03:25
1,1,2,2-Tetrachloroethane	U		22	49	µg/Kg-dry	1	10/29/13 03:25
1,1,2-Trichloroethane	U		17	49	µg/Kg-dry	1	10/29/13 03:25
1,1,2-Trichlorotrifluoroethane	U		18	49	µg/Kg-dry	1	10/29/13 03:25
1,1-Dichloroethane	U		18	49	µg/Kg-dry	1	10/29/13 03:25
1,1-Dichloroethene	U		21	49	µg/Kg-dry	1	10/29/13 03:25
1,2,4-Trichlorobenzene	U		25	49	µg/Kg-dry	1	10/29/13 03:25
1,2-Dibromo-3-chloropropane	U		24	49	µg/Kg-dry	1	10/29/13 03:25
1,2-Dibromoethane	U		19	49	µg/Kg-dry	1	10/29/13 03:25
1,2-Dichlorobenzene	U		20	49	µg/Kg-dry	1	10/29/13 03:25
1,2-Dichloroethane	U		23	49	µg/Kg-dry	1	10/29/13 03:25
1,2-Dichloropropane	U		16	49	µg/Kg-dry	1	10/29/13 03:25
1,3-Dichlorobenzene	U		20	49	µg/Kg-dry	1	10/29/13 03:25
1,4-Dichlorobenzene	U		19	49	µg/Kg-dry	1	10/29/13 03:25
2-Butanone	U		120	330	µg/Kg-dry	1	10/29/13 03:25
2-Hexanone	U		12	49	µg/Kg-dry	1	10/29/13 03:25
4-Methyl-2-pentanone	U		17	49	µg/Kg-dry	1	10/29/13 03:25
Acetone	U		100	160	µg/Kg-dry	1	10/29/13 03:25
Benzene	U		20	49	µg/Kg-dry	1	10/29/13 03:25
Bromodichloromethane	U		11	49	µg/Kg-dry	1	10/29/13 03:25
Bromoform	U		9.7	49	µg/Kg-dry	1	10/29/13 03:25
Bromomethane	U		19	120	µg/Kg-dry	1	10/29/13 03:25
Carbon disulfide	U		24	49	µg/Kg-dry	1	10/29/13 03:25
Carbon tetrachloride	U		14	49	µg/Kg-dry	1	10/29/13 03:25
Chlorobenzene	U		20	49	µg/Kg-dry	1	10/29/13 03:25

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-074
Collection Date: 10/23/13 12:15 PM

Work Order: 13101246
Lab ID: 13101246-56
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroethane	U		100	160	µg/Kg-dry	1	10/29/13 03:25
Chloroform	U		20	49	µg/Kg-dry	1	10/29/13 03:25
Chloromethane	U		27	160	µg/Kg-dry	1	10/29/13 03:25
cis-1,2-Dichloroethene	U		20	49	µg/Kg-dry	1	10/29/13 03:25
cis-1,3-Dichloropropene	U		17	49	µg/Kg-dry	1	10/29/13 03:25
Cyclohexane	U		22	49	µg/Kg-dry	1	10/29/13 03:25
Dibromochloromethane	U		9.1	49	µg/Kg-dry	1	10/29/13 03:25
Dichlorodifluoromethane	U		22	49	µg/Kg-dry	1	10/29/13 03:25
Ethylbenzene	U		18	49	µg/Kg-dry	1	10/29/13 03:25
Isopropylbenzene	U		21	49	µg/Kg-dry	1	10/29/13 03:25
Methyl acetate	U		66	330	µg/Kg-dry	1	10/29/13 03:25
Methyl tert-butyl ether	U		21	49	µg/Kg-dry	1	10/29/13 03:25
Methylcyclohexane	U		23	49	µg/Kg-dry	1	10/29/13 03:25
Methylene chloride	U		19	49	µg/Kg-dry	1	10/29/13 03:25
Styrene	U		18	49	µg/Kg-dry	1	10/29/13 03:25
Tetrachloroethene	U		22	49	µg/Kg-dry	1	10/29/13 03:25
Toluene	U		18	49	µg/Kg-dry	1	10/29/13 03:25
trans-1,2-Dichloroethene	U		15	49	µg/Kg-dry	1	10/29/13 03:25
trans-1,3-Dichloropropene	U		16	49	µg/Kg-dry	1	10/29/13 03:25
Trichloroethene	910		23	49	µg/Kg-dry	1	10/29/13 03:25
Trichlorofluoromethane	U		14	49	µg/Kg-dry	1	10/29/13 03:25
Vinyl chloride	U		22	49	µg/Kg-dry	1	10/29/13 03:25
Xylenes, Total	U		58	150	µg/Kg-dry	1	10/29/13 03:25
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/29/13 03:25
Surr: 4-Bromofluorobenzene	99.0			70-130	%REC	1	10/29/13 03:25
Surr: Dibromofluoromethane	97.2			70-130	%REC	1	10/29/13 03:25
Surr: Toluene-d8	99.6			70-130	%REC	1	10/29/13 03:25
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129428</u>							
Moisture	7.6		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-075
Collection Date: 10/23/13 12:20 PM

Work Order: 13101246
Lab ID: 13101246-57
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/31/13	Analyst: LR
BatchID: 52820							
Mercury	0.0096	J	0.00069	0.034	mg/Kg-dry	1	10/31/13 14:59
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52750							
Antimony	0.13	J	0.0015	0.36	mg/Kg-dry	1	10/30/13 19:59
Arsenic	1.3		0.050	0.36	mg/Kg-dry	1	10/30/13 19:59
Barium	18		0.010	0.36	mg/Kg-dry	1	10/30/13 19:59
Beryllium	0.090	J	0.0029	0.15	mg/Kg-dry	1	10/30/13 19:59
Cadmium	0.097	J	0.0015	0.15	mg/Kg-dry	1	10/30/13 19:59
Chromium	5.2		0.060	0.36	mg/Kg-dry	1	10/30/13 19:59
Cobalt	1.7		0.0015	0.36	mg/Kg-dry	1	10/30/13 19:59
Copper	9.6		0.072	0.36	mg/Kg-dry	1	10/30/13 19:59
Iron	3,800		1.2	5.8	mg/Kg-dry	1	10/30/13 19:59
Lead	10		0.0015	0.36	mg/Kg-dry	1	10/30/13 19:59
Manganese	110		0.032	0.36	mg/Kg-dry	1	10/30/13 19:59
Molybdenum	0.48		0.016	0.36	mg/Kg-dry	1	10/30/13 19:59
Nickel	4.1		0.036	0.36	mg/Kg-dry	1	10/30/13 19:59
Selenium	0.19	J	0.047	0.36	mg/Kg-dry	1	10/30/13 19:59
Silver	0.052	J	0.0015	0.36	mg/Kg-dry	1	10/30/13 19:59
Thallium	0.045	J	0.0088	0.36	mg/Kg-dry	1	10/30/13 19:59
Vanadium	5.7		0.022	0.36	mg/Kg-dry	1	10/30/13 19:59
Zinc	17		0.031	0.73	mg/Kg-dry	1	10/30/13 19:59
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/28/13	Analyst: CW
BatchID: 52716							
2-Methylnaphthalene	33		2.9	7.1	µg/Kg-dry	1	10/30/13 12:00
Acenaphthene	U		1.1	7.1	µg/Kg-dry	1	10/30/13 12:00
Acenaphthylene	U		1.3	7.1	µg/Kg-dry	1	10/30/13 12:00
Anthracene	36		1.4	7.1	µg/Kg-dry	1	10/30/13 12:00
Benzo(a)anthracene	150		1.4	7.1	µg/Kg-dry	1	10/30/13 12:00
Benzo(a)pyrene	130		2.3	7.1	µg/Kg-dry	1	10/30/13 12:00
Benzo(b)fluoranthene	140		2.1	7.1	µg/Kg-dry	1	10/30/13 12:00
Benzo(g,h,i)perylene	120		2.8	7.1	µg/Kg-dry	1	10/30/13 12:00
Benzo(k)fluoranthene	120		1.5	7.1	µg/Kg-dry	1	10/30/13 12:00
Chrysene	170		1.7	7.1	µg/Kg-dry	1	10/30/13 12:00
Dibenzo(a,h)anthracene	20		2.6	7.1	µg/Kg-dry	1	10/30/13 12:00
Fluoranthene	270		2.5	7.1	µg/Kg-dry	1	10/30/13 12:00
Fluorene	U		2.4	7.1	µg/Kg-dry	1	10/30/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-075
Collection Date: 10/23/13 12:20 PM

Work Order: 13101246
Lab ID: 13101246-57
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	79		2.4	7.1	µg/Kg-dry	1	10/30/13 12:00
Naphthalene	U		2.6	7.1	µg/Kg-dry	1	10/30/13 12:00
Phenanthrene	170		1.4	7.1	µg/Kg-dry	1	10/30/13 12:00
Pyrene	250		2.4	7.1	µg/Kg-dry	1	10/30/13 12:00
Surr: 2-Fluorobiphenyl	75.2			12-100	%REC	1	10/30/13 12:00
Surr: 4-Terphenyl-d14	112			25-137	%REC	1	10/30/13 12:00
Surr: Nitrobenzene-d5	76.7			37-107	%REC	1	10/30/13 12:00
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		20	52	µg/Kg-dry	1	10/29/13 03:48
1,1,2,2-Tetrachloroethane	U		23	52	µg/Kg-dry	1	10/29/13 03:48
1,1,2-Trichloroethane	U		18	52	µg/Kg-dry	1	10/29/13 03:48
1,1,2-Trichlorotrifluoroethane	U		19	52	µg/Kg-dry	1	10/29/13 03:48
1,1-Dichloroethane	U		19	52	µg/Kg-dry	1	10/29/13 03:48
1,1-Dichloroethene	U		22	52	µg/Kg-dry	1	10/29/13 03:48
1,2,4-Trichlorobenzene	U		27	52	µg/Kg-dry	1	10/29/13 03:48
1,2-Dibromo-3-chloropropane	U		25	52	µg/Kg-dry	1	10/29/13 03:48
1,2-Dibromoethane	U		21	52	µg/Kg-dry	1	10/29/13 03:48
1,2-Dichlorobenzene	U		21	52	µg/Kg-dry	1	10/29/13 03:48
1,2-Dichloroethane	U		25	52	µg/Kg-dry	1	10/29/13 03:48
1,2-Dichloropropane	U		17	52	µg/Kg-dry	1	10/29/13 03:48
1,3-Dichlorobenzene	U		21	52	µg/Kg-dry	1	10/29/13 03:48
1,4-Dichlorobenzene	U		20	52	µg/Kg-dry	1	10/29/13 03:48
2-Butanone	U		130	350	µg/Kg-dry	1	10/29/13 03:48
2-Hexanone	U		13	52	µg/Kg-dry	1	10/29/13 03:48
4-Methyl-2-pentanone	U		18	52	µg/Kg-dry	1	10/29/13 03:48
Acetone	U		110	170	µg/Kg-dry	1	10/29/13 03:48
Benzene	U		21	52	µg/Kg-dry	1	10/29/13 03:48
Bromodichloromethane	U		12	52	µg/Kg-dry	1	10/29/13 03:48
Bromoform	U		10	52	µg/Kg-dry	1	10/29/13 03:48
Bromomethane	U		20	130	µg/Kg-dry	1	10/29/13 03:48
Carbon disulfide	U		26	52	µg/Kg-dry	1	10/29/13 03:48
Carbon tetrachloride	U		15	52	µg/Kg-dry	1	10/29/13 03:48
Chlorobenzene	U		21	52	µg/Kg-dry	1	10/29/13 03:48
Chloroethane	U		110	170	µg/Kg-dry	1	10/29/13 03:48
Chloroform	U		22	52	µg/Kg-dry	1	10/29/13 03:48
Chloromethane	U		29	170	µg/Kg-dry	1	10/29/13 03:48
cis-1,2-Dichloroethene	U		21	52	µg/Kg-dry	1	10/29/13 03:48
cis-1,3-Dichloropropene	U		18	52	µg/Kg-dry	1	10/29/13 03:48

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-075
Collection Date: 10/23/13 12:20 PM

Work Order: 13101246
Lab ID: 13101246-57
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Cyclohexane	U		23	52	µg/Kg-dry	1	10/29/13 03:48
Dibromochloromethane	U		9.7	52	µg/Kg-dry	1	10/29/13 03:48
Dichlorodifluoromethane	U		24	52	µg/Kg-dry	1	10/29/13 03:48
Ethylbenzene	U		19	52	µg/Kg-dry	1	10/29/13 03:48
Isopropylbenzene	U		23	52	µg/Kg-dry	1	10/29/13 03:48
Methyl acetate	U		70	350	µg/Kg-dry	1	10/29/13 03:48
Methyl tert-butyl ether	U		22	52	µg/Kg-dry	1	10/29/13 03:48
Methylcyclohexane	U		24	52	µg/Kg-dry	1	10/29/13 03:48
Methylene chloride	U		20	52	µg/Kg-dry	1	10/29/13 03:48
Styrene	U		19	52	µg/Kg-dry	1	10/29/13 03:48
Tetrachloroethene	U		23	52	µg/Kg-dry	1	10/29/13 03:48
Toluene	U		20	52	µg/Kg-dry	1	10/29/13 03:48
trans-1,2-Dichloroethene	U		16	52	µg/Kg-dry	1	10/29/13 03:48
trans-1,3-Dichloropropene	U		17	52	µg/Kg-dry	1	10/29/13 03:48
Trichloroethene	590		24	52	µg/Kg-dry	1	10/29/13 03:48
Trichlorofluoromethane	U		14	52	µg/Kg-dry	1	10/29/13 03:48
Vinyl chloride	U		24	52	µg/Kg-dry	1	10/29/13 03:48
Xylenes, Total	U		62	160	µg/Kg-dry	1	10/29/13 03:48
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/29/13 03:48
Surr: 4-Bromofluorobenzene	98.4			70-130	%REC	1	10/29/13 03:48
Surr: Dibromofluoromethane	96.2			70-130	%REC	1	10/29/13 03:48
Surr: Toluene-d8	99.8			70-130	%REC	1	10/29/13 03:48
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129428</u>							
Moisture	6.8		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-076
Collection Date: 10/23/13 12:25 PM

Work Order: 13101246
Lab ID: 13101246-58
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471				
<u>BatchID: 52820</u>							
Mercury	0.083		0.00078	0.039	mg/Kg-dry	1	10/31/13 15:01
METALS BY ICP-MS			SW6020A				
<u>BatchID: 52750</u>							
Antimony	28		0.0074	1.9	mg/Kg-dry	5	10/30/13 02:52
Arsenic	17		0.25	1.9	mg/Kg-dry	5	10/30/13 02:52
Barium	300		0.052	1.9	mg/Kg-dry	5	10/30/13 02:52
Beryllium	0.19	J	0.015	0.74	mg/Kg-dry	5	10/30/13 02:52
Cadmium	12		0.0074	0.74	mg/Kg-dry	5	10/30/13 02:52
Cobalt	100		0.0074	1.9	mg/Kg-dry	5	10/30/13 02:52
Molybdenum	530		0.081	1.9	mg/Kg-dry	5	10/30/13 02:52
Selenium	0.57	J	0.24	1.9	mg/Kg-dry	5	10/30/13 02:52
Silver	10		0.0074	1.9	mg/Kg-dry	5	10/30/13 02:52
Thallium	0.049	J	0.044	1.9	mg/Kg-dry	5	10/30/13 02:52
<u>BatchID: 52750</u>							
Chromium	2,000		3.0	19	mg/Kg-dry	50	10/30/13 20:05
Copper	880		3.6	19	mg/Kg-dry	50	10/30/13 20:05
Iron	140,000		62	300	mg/Kg-dry	50	10/30/13 20:05
Lead	2,300		0.074	19	mg/Kg-dry	50	10/30/13 20:05
Manganese	6,200		1.6	19	mg/Kg-dry	50	10/30/13 20:05
Nickel	1,900		1.9	19	mg/Kg-dry	50	10/30/13 20:05
Vanadium	17	J	1.1	19	mg/Kg-dry	50	10/30/13 20:05
Zinc	1,000		1.6	37	mg/Kg-dry	50	10/30/13 20:05
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270				
<u>BatchID: 52716</u>							
2-Methylnaphthalene	74		3.1	7.4	µg/Kg-dry	1	10/29/13 03:23
Acenaphthene	27		1.1	7.4	µg/Kg-dry	1	10/29/13 03:23
Acenaphthylene	34		1.3	7.4	µg/Kg-dry	1	10/29/13 03:23
Anthracene	120		1.5	7.4	µg/Kg-dry	1	10/29/13 03:23
Benzo(a)anthracene	560		1.5	7.4	µg/Kg-dry	1	10/29/13 03:23
Benzo(a)pyrene	500		2.4	7.4	µg/Kg-dry	1	10/29/13 03:23
Benzo(b)fluoranthene	1,300		2.2	7.4	µg/Kg-dry	1	10/29/13 03:23
Benzo(g,h,i)perylene	700		2.9	7.4	µg/Kg-dry	1	10/29/13 03:23
Benzo(k)fluoranthene	380		1.6	7.4	µg/Kg-dry	1	10/29/13 03:23
Chrysene	780		1.8	7.4	µg/Kg-dry	1	10/29/13 03:23
Dibenzo(a,h)anthracene	170		2.8	7.4	µg/Kg-dry	1	10/29/13 03:23
Fluoranthene	1,500		2.6	7.4	µg/Kg-dry	1	10/29/13 03:23

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-076
Collection Date: 10/23/13 12:25 PM

Work Order: 13101246
Lab ID: 13101246-58
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	25		2.5	7.4	µg/Kg-dry	1	10/29/13 03:23
Indeno(1,2,3-cd)pyrene	470		2.5	7.4	µg/Kg-dry	1	10/29/13 03:23
Naphthalene	76		2.7	7.4	µg/Kg-dry	1	10/29/13 03:23
Phenanthrene	1,000		1.5	7.4	µg/Kg-dry	1	10/29/13 03:23
Pyrene	840		2.5	7.4	µg/Kg-dry	1	10/29/13 03:23
Surr: 2-Fluorobiphenyl	74.6			12-100	%REC	1	10/29/13 03:23
Surr: 4-Terphenyl-d14	108			25-137	%REC	1	10/29/13 03:23
Surr: Nitrobenzene-d5	56.7			37-107	%REC	1	10/29/13 03:23
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		15	39	µg/Kg-dry	1	10/29/13 04:11
1,1,2,2-Tetrachloroethane	U		17	39	µg/Kg-dry	1	10/29/13 04:11
1,1,2-Trichloroethane	U		14	39	µg/Kg-dry	1	10/29/13 04:11
1,1,2-Trichlorotrifluoroethane	U		14	39	µg/Kg-dry	1	10/29/13 04:11
1,1-Dichloroethane	U		14	39	µg/Kg-dry	1	10/29/13 04:11
1,1-Dichloroethene	U		16	39	µg/Kg-dry	1	10/29/13 04:11
1,2,4-Trichlorobenzene	U		20	39	µg/Kg-dry	1	10/29/13 04:11
1,2-Dibromo-3-chloropropane	U		19	39	µg/Kg-dry	1	10/29/13 04:11
1,2-Dibromoethane	U		15	39	µg/Kg-dry	1	10/29/13 04:11
1,2-Dichlorobenzene	U		16	39	µg/Kg-dry	1	10/29/13 04:11
1,2-Dichloroethane	U		18	39	µg/Kg-dry	1	10/29/13 04:11
1,2-Dichloropropane	U		13	39	µg/Kg-dry	1	10/29/13 04:11
1,3-Dichlorobenzene	U		16	39	µg/Kg-dry	1	10/29/13 04:11
1,4-Dichlorobenzene	U		15	39	µg/Kg-dry	1	10/29/13 04:11
2-Butanone	U		96	260	µg/Kg-dry	1	10/29/13 04:11
2-Hexanone	U		9.5	39	µg/Kg-dry	1	10/29/13 04:11
4-Methyl-2-pentanone	U		13	39	µg/Kg-dry	1	10/29/13 04:11
Acetone	U		82	130	µg/Kg-dry	1	10/29/13 04:11
Benzene	U		16	39	µg/Kg-dry	1	10/29/13 04:11
Bromodichloromethane	U		8.7	39	µg/Kg-dry	1	10/29/13 04:11
Bromoform	U		7.7	39	µg/Kg-dry	1	10/29/13 04:11
Bromomethane	U		15	97	µg/Kg-dry	1	10/29/13 04:11
Carbon disulfide	U		19	39	µg/Kg-dry	1	10/29/13 04:11
Carbon tetrachloride	U		11	39	µg/Kg-dry	1	10/29/13 04:11
Chlorobenzene	U		16	39	µg/Kg-dry	1	10/29/13 04:11
Chloroethane	U		83	130	µg/Kg-dry	1	10/29/13 04:11
Chloroform	U		16	39	µg/Kg-dry	1	10/29/13 04:11
Chloromethane	U		22	130	µg/Kg-dry	1	10/29/13 04:11
cis-1,2-Dichloroethene	U		16	39	µg/Kg-dry	1	10/29/13 04:11

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-076
Collection Date: 10/23/13 12:25 PM

Work Order: 13101246
Lab ID: 13101246-58
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	10/29/13 04:11
Cyclohexane	U		17	39	µg/Kg-dry	1	10/29/13 04:11
Dibromochloromethane	U		7.2	39	µg/Kg-dry	1	10/29/13 04:11
Dichlorodifluoromethane	U		18	39	µg/Kg-dry	1	10/29/13 04:11
Ethylbenzene	U		14	39	µg/Kg-dry	1	10/29/13 04:11
Isopropylbenzene	U		17	39	µg/Kg-dry	1	10/29/13 04:11
Methyl acetate	210	J	52	260	µg/Kg-dry	1	10/29/13 04:11
Methyl tert-butyl ether	U		16	39	µg/Kg-dry	1	10/29/13 04:11
Methylcyclohexane	U		18	39	µg/Kg-dry	1	10/29/13 04:11
Methylene chloride	U		15	39	µg/Kg-dry	1	10/29/13 04:11
Styrene	U		14	39	µg/Kg-dry	1	10/29/13 04:11
Tetrachloroethene	U		17	39	µg/Kg-dry	1	10/29/13 04:11
Toluene	U		15	39	µg/Kg-dry	1	10/29/13 04:11
trans-1,2-Dichloroethene	U		12	39	µg/Kg-dry	1	10/29/13 04:11
trans-1,3-Dichloropropene	U		13	39	µg/Kg-dry	1	10/29/13 04:11
Trichloroethene	3,000		18	39	µg/Kg-dry	1	10/29/13 04:11
Trichlorofluoromethane	U		11	39	µg/Kg-dry	1	10/29/13 04:11
Vinyl chloride	U		18	39	µg/Kg-dry	1	10/29/13 04:11
Xylenes, Total	U		46	120	µg/Kg-dry	1	10/29/13 04:11
Surr: 1,2-Dichloroethane-d4	99.2			70-130	%REC	1	10/29/13 04:11
Surr: 4-Bromofluorobenzene	98.6			70-130	%REC	1	10/29/13 04:11
Surr: Dibromofluoromethane	93.9			70-130	%REC	1	10/29/13 04:11
Surr: Toluene-d8	99.1			70-130	%REC	1	10/29/13 04:11
MOISTURE			A2540 G				Analyst: MEB
BatchID: R129428							
Moisture	10		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-077
Collection Date: 10/23/13 12:30 PM

Work Order: 13101246
Lab ID: 13101246-59
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471			Prep: SW7471 / 10/31/13	Analyst: LR
BatchID: 52820							
Mercury	0.065		0.00083	0.041	mg/Kg-dry	1	10/31/13 15:03
METALS BY ICP-MS			SW6020A			Prep: SW3050B / 10/28/13	Analyst: ML
BatchID: 52750							
Antimony	13		0.0085	2.1	mg/Kg-dry	5	10/30/13 04:53
Arsenic	8.1		0.29	2.1	mg/Kg-dry	5	10/30/13 04:53
Barium	200		0.060	2.1	mg/Kg-dry	5	10/30/13 04:53
Beryllium	0.19	J	0.017	0.85	mg/Kg-dry	5	10/30/13 04:53
Cadmium	5.6		0.0085	0.85	mg/Kg-dry	5	10/30/13 04:53
Cobalt	52		0.0085	2.1	mg/Kg-dry	5	10/30/13 04:53
Copper	620		0.42	2.1	mg/Kg-dry	5	10/30/13 04:53
Iron	54,000		7.1	34	mg/Kg-dry	5	10/30/13 04:53
Lead	540		0.0085	2.1	mg/Kg-dry	5	10/30/13 04:53
Molybdenum	330		0.094	2.1	mg/Kg-dry	5	10/30/13 04:53
Selenium	U		0.27	2.1	mg/Kg-dry	5	10/30/13 04:53
Silver	5.7		0.0085	2.1	mg/Kg-dry	5	10/30/13 04:53
Thallium	0.10	J	0.051	2.1	mg/Kg-dry	5	10/30/13 04:53
Zinc	580		0.18	4.3	mg/Kg-dry	5	10/30/13 04:53
BatchID: 52750							
Chromium	2,700		3.5	21	mg/Kg-dry	50	10/30/13 20:11
Manganese	3,600		1.9	21	mg/Kg-dry	50	10/30/13 20:11
Nickel	1,700		2.1	21	mg/Kg-dry	50	10/30/13 20:11
Vanadium	U		1.3	21	mg/Kg-dry	50	10/30/13 20:11
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3541 / 10/28/13	Analyst: CW
BatchID: 52716							
2-Methylnaphthalene	83		3.0	7.3	µg/Kg-dry	1	10/29/13 02:43
Acenaphthene	44		1.1	7.3	µg/Kg-dry	1	10/29/13 02:43
Acenaphthylene	22		1.3	7.3	µg/Kg-dry	1	10/29/13 02:43
Anthracene	140		1.4	7.3	µg/Kg-dry	1	10/29/13 02:43
Benzo(a)anthracene	490		1.4	7.3	µg/Kg-dry	1	10/29/13 02:43
Benzo(a)pyrene	480		2.4	7.3	µg/Kg-dry	1	10/29/13 02:43
Benzo(b)fluoranthene	930		2.1	7.3	µg/Kg-dry	1	10/29/13 02:43
Benzo(g,h,i)perylene	430		2.9	7.3	µg/Kg-dry	1	10/29/13 02:43
Benzo(k)fluoranthene	230		1.5	7.3	µg/Kg-dry	1	10/29/13 02:43
Chrysene	550		1.7	7.3	µg/Kg-dry	1	10/29/13 02:43
Dibenzo(a,h)anthracene	110		2.7	7.3	µg/Kg-dry	1	10/29/13 02:43
Fluoranthene	1,300		2.6	7.3	µg/Kg-dry	1	10/29/13 02:43

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-077
Collection Date: 10/23/13 12:30 PM

Work Order: 13101246
Lab ID: 13101246-59
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	46		2.5	7.3	µg/Kg-dry	1	10/29/13 02:43
Indeno(1,2,3-cd)pyrene	330		2.4	7.3	µg/Kg-dry	1	10/29/13 02:43
Naphthalene	66		2.7	7.3	µg/Kg-dry	1	10/29/13 02:43
Phenanthrene	840		1.5	7.3	µg/Kg-dry	1	10/29/13 02:43
Pyrene	900		2.5	7.3	µg/Kg-dry	1	10/29/13 02:43
Surr: 2-Fluorobiphenyl	72.8			12-100	%REC	1	10/29/13 02:43
Surr: 4-Terphenyl-d14	113			25-137	%REC	1	10/29/13 02:43
Surr: Nitrobenzene-d5	55.2			37-107	%REC	1	10/29/13 02:43
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
BatchID: 52677							
1,1,1-Trichloroethane	U		18	46	µg/Kg-dry	1	10/29/13 04:34
1,1,2,2-Tetrachloroethane	U		20	46	µg/Kg-dry	1	10/29/13 04:34
1,1,2-Trichloroethane	U		16	46	µg/Kg-dry	1	10/29/13 04:34
1,1,2-Trichlorotrifluoroethane	U		17	46	µg/Kg-dry	1	10/29/13 04:34
1,1-Dichloroethane	U		17	46	µg/Kg-dry	1	10/29/13 04:34
1,1-Dichloroethene	U		20	46	µg/Kg-dry	1	10/29/13 04:34
1,2,4-Trichlorobenzene	U		24	46	µg/Kg-dry	1	10/29/13 04:34
1,2-Dibromo-3-chloropropane	U		23	46	µg/Kg-dry	1	10/29/13 04:34
1,2-Dibromoethane	U		18	46	µg/Kg-dry	1	10/29/13 04:34
1,2-Dichlorobenzene	U		19	46	µg/Kg-dry	1	10/29/13 04:34
1,2-Dichloroethane	U		22	46	µg/Kg-dry	1	10/29/13 04:34
1,2-Dichloropropane	U		15	46	µg/Kg-dry	1	10/29/13 04:34
1,3-Dichlorobenzene	U		19	46	µg/Kg-dry	1	10/29/13 04:34
1,4-Dichlorobenzene	U		18	46	µg/Kg-dry	1	10/29/13 04:34
2-Butanone	U		110	310	µg/Kg-dry	1	10/29/13 04:34
2-Hexanone	U		11	46	µg/Kg-dry	1	10/29/13 04:34
4-Methyl-2-pentanone	U		16	46	µg/Kg-dry	1	10/29/13 04:34
Acetone	U		98	150	µg/Kg-dry	1	10/29/13 04:34
Benzene	U		19	46	µg/Kg-dry	1	10/29/13 04:34
Bromodichloromethane	U		10	46	µg/Kg-dry	1	10/29/13 04:34
Bromoform	U		9.1	46	µg/Kg-dry	1	10/29/13 04:34
Bromomethane	U		18	120	µg/Kg-dry	1	10/29/13 04:34
Carbon disulfide	U		23	46	µg/Kg-dry	1	10/29/13 04:34
Carbon tetrachloride	U		13	46	µg/Kg-dry	1	10/29/13 04:34
Chlorobenzene	U		19	46	µg/Kg-dry	1	10/29/13 04:34
Chloroethane	U		99	150	µg/Kg-dry	1	10/29/13 04:34
Chloroform	U		19	46	µg/Kg-dry	1	10/29/13 04:34
Chloromethane	U		26	150	µg/Kg-dry	1	10/29/13 04:34
cis-1,2-Dichloroethene	U		19	46	µg/Kg-dry	1	10/29/13 04:34

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102313-MR-077
Collection Date: 10/23/13 12:30 PM

Work Order: 13101246
Lab ID: 13101246-59
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		16	46	µg/Kg-dry	1	10/29/13 04:34
Cyclohexane	U		21	46	µg/Kg-dry	1	10/29/13 04:34
Dibromochloromethane	U		8.6	46	µg/Kg-dry	1	10/29/13 04:34
Dichlorodifluoromethane	U		21	46	µg/Kg-dry	1	10/29/13 04:34
Ethylbenzene	U		17	46	µg/Kg-dry	1	10/29/13 04:34
Isopropylbenzene	U		20	46	µg/Kg-dry	1	10/29/13 04:34
Methyl acetate	280	J	62	310	µg/Kg-dry	1	10/29/13 04:34
Methyl tert-butyl ether	U		20	46	µg/Kg-dry	1	10/29/13 04:34
Methylcyclohexane	U		22	46	µg/Kg-dry	1	10/29/13 04:34
Methylene chloride	U		18	46	µg/Kg-dry	1	10/29/13 04:34
Styrene	U		17	46	µg/Kg-dry	1	10/29/13 04:34
Tetrachloroethene	U		21	46	µg/Kg-dry	1	10/29/13 04:34
Toluene	U		17	46	µg/Kg-dry	1	10/29/13 04:34
trans-1,2-Dichloroethene	U		14	46	µg/Kg-dry	1	10/29/13 04:34
trans-1,3-Dichloropropene	U		16	46	µg/Kg-dry	1	10/29/13 04:34
Trichloroethene	3,800		22	46	µg/Kg-dry	1	10/29/13 04:34
Trichlorofluoromethane	U		13	46	µg/Kg-dry	1	10/29/13 04:34
Vinyl chloride	U		21	46	µg/Kg-dry	1	10/29/13 04:34
Xylenes, Total	U		55	140	µg/Kg-dry	1	10/29/13 04:34
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/29/13 04:34
Surr: 4-Bromofluorobenzene	98.8			70-130	%REC	1	10/29/13 04:34
Surr: Dibromofluoromethane	93.8			70-130	%REC	1	10/29/13 04:34
Surr: Toluene-d8	99.2			70-130	%REC	1	10/29/13 04:34
MOISTURE			A2540 G				Analyst: MEB
BatchID: R129428							
Moisture	9.7		0.025	0.050	% of sample	1	10/29/13 12:00

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: GW-017360-102313-MR-078
Collection Date: 10/23/13 01:40 PM

Work Order: 13101246
Lab ID: 13101246-60
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R129392</u>							
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	10/29/13 04:10
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	10/29/13 04:10
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	10/29/13 04:10
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	10/29/13 04:10
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	10/29/13 04:10
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	10/29/13 04:10
1,2,4-Trichlorobenzene	U		0.16	5.0	µg/L	1	10/29/13 04:10
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	10/29/13 04:10
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	10/29/13 04:10
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	10/29/13 04:10
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	10/29/13 04:10
1,2-Dichloropropane	U		0.13	1.0	µg/L	1	10/29/13 04:10
1,3-Dichlorobenzene	U		0.16	1.0	µg/L	1	10/29/13 04:10
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	10/29/13 04:10
2-Butanone	U		0.22	25	µg/L	1	10/29/13 04:10
2-Hexanone	U		0.12	50	µg/L	1	10/29/13 04:10
4-Methyl-2-pentanone	U		0.096	50	µg/L	1	10/29/13 04:10
Acetone	U		0.33	50	µg/L	1	10/29/13 04:10
Benzene	U		0.18	1.0	µg/L	1	10/29/13 04:10
Bromodichloromethane	U		0.12	1.0	µg/L	1	10/29/13 04:10
Bromoform	U		0.15	1.0	µg/L	1	10/29/13 04:10
Bromomethane	U		0.21	5.0	µg/L	1	10/29/13 04:10
Carbon disulfide	U		0.17	5.0	µg/L	1	10/29/13 04:10
Carbon tetrachloride	U		0.12	1.0	µg/L	1	10/29/13 04:10
Chlorobenzene	U		0.13	1.0	µg/L	1	10/29/13 04:10
Chloroethane	U		0.46	5.0	µg/L	1	10/29/13 04:10
Chloroform	U		0.15	1.0	µg/L	1	10/29/13 04:10
Chloromethane	U		0.16	5.0	µg/L	1	10/29/13 04:10
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	10/29/13 04:10
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	10/29/13 04:10
Cyclohexane	U		0.22	1.0	µg/L	1	10/29/13 04:10
Dibromochloromethane	U		0.13	5.0	µg/L	1	10/29/13 04:10
Dichlorodifluoromethane	0.92	J	0.20	5.0	µg/L	1	10/29/13 04:10
Ethylbenzene	U		0.13	1.0	µg/L	1	10/29/13 04:10
Isopropylbenzene	U		0.14	5.0	µg/L	1	10/29/13 04:10
Methyl acetate	U		0.19	10	µg/L	1	10/29/13 04:10
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	10/29/13 04:10

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: GW-017360-102313-MR-078
Collection Date: 10/23/13 01:40 PM

Work Order: 13101246
Lab ID: 13101246-60
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.99	1.0	µg/L	1	10/29/13 04:10
Methylene chloride	U		0.19	5.0	µg/L	1	10/29/13 04:10
Styrene	U		0.11	1.0	µg/L	1	10/29/13 04:10
Tetrachloroethene	U		0.15	1.0	µg/L	1	10/29/13 04:10
Toluene	U		0.12	1.0	µg/L	1	10/29/13 04:10
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	10/29/13 04:10
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	10/29/13 04:10
Trichloroethene	3.5		0.14	1.0	µg/L	1	10/29/13 04:10
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	10/29/13 04:10
Vinyl chloride	U		0.17	1.0	µg/L	1	10/29/13 04:10
Xylenes, Total	U		0.29	3.0	µg/L	1	10/29/13 04:10
Surr: 1,2-Dichloroethane-d4	98.2			70-120	%REC	1	10/29/13 04:10
Surr: 4-Bromofluorobenzene	95.6			75-120	%REC	1	10/29/13 04:10
Surr: Dibromofluoromethane	101			85-115	%REC	1	10/29/13 04:10
Surr: Toluene-d8	99.2			85-120	%REC	1	10/29/13 04:10

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: GW-017360-102313-MR-079
Collection Date: 10/23/13 01:45 PM

Work Order: 13101246
Lab ID: 13101246-61
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R129392</u>							
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	10/29/13 04:34
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	10/29/13 04:34
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	10/29/13 04:34
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	10/29/13 04:34
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	10/29/13 04:34
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	10/29/13 04:34
1,2,4-Trichlorobenzene	U		0.16	5.0	µg/L	1	10/29/13 04:34
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	10/29/13 04:34
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	10/29/13 04:34
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	10/29/13 04:34
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	10/29/13 04:34
1,2-Dichloropropane	U		0.13	1.0	µg/L	1	10/29/13 04:34
1,3-Dichlorobenzene	U		0.16	1.0	µg/L	1	10/29/13 04:34
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	10/29/13 04:34
2-Butanone	U		0.22	25	µg/L	1	10/29/13 04:34
2-Hexanone	U		0.12	50	µg/L	1	10/29/13 04:34
4-Methyl-2-pentanone	U		0.096	50	µg/L	1	10/29/13 04:34
Acetone	U		0.33	50	µg/L	1	10/29/13 04:34
Benzene	U		0.18	1.0	µg/L	1	10/29/13 04:34
Bromodichloromethane	U		0.12	1.0	µg/L	1	10/29/13 04:34
Bromoform	U		0.15	1.0	µg/L	1	10/29/13 04:34
Bromomethane	U		0.21	5.0	µg/L	1	10/29/13 04:34
Carbon disulfide	U		0.17	5.0	µg/L	1	10/29/13 04:34
Carbon tetrachloride	U		0.12	1.0	µg/L	1	10/29/13 04:34
Chlorobenzene	U		0.13	1.0	µg/L	1	10/29/13 04:34
Chloroethane	U		0.46	5.0	µg/L	1	10/29/13 04:34
Chloroform	U		0.15	1.0	µg/L	1	10/29/13 04:34
Chloromethane	U		0.16	5.0	µg/L	1	10/29/13 04:34
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	10/29/13 04:34
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	10/29/13 04:34
Cyclohexane	U		0.22	1.0	µg/L	1	10/29/13 04:34
Dibromochloromethane	U		0.13	5.0	µg/L	1	10/29/13 04:34
Dichlorodifluoromethane	0.96	J	0.20	5.0	µg/L	1	10/29/13 04:34
Ethylbenzene	U		0.13	1.0	µg/L	1	10/29/13 04:34
Isopropylbenzene	U		0.14	5.0	µg/L	1	10/29/13 04:34
Methyl acetate	U		0.19	10	µg/L	1	10/29/13 04:34
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	10/29/13 04:34

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: GW-017360-102313-MR-079
Collection Date: 10/23/13 01:45 PM

Work Order: 13101246
Lab ID: 13101246-61
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.99	1.0	µg/L	1	10/29/13 04:34
Methylene chloride	U		0.19	5.0	µg/L	1	10/29/13 04:34
Styrene	U		0.11	1.0	µg/L	1	10/29/13 04:34
Tetrachloroethene	U		0.15	1.0	µg/L	1	10/29/13 04:34
Toluene	U		0.12	1.0	µg/L	1	10/29/13 04:34
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	10/29/13 04:34
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	10/29/13 04:34
Trichloroethene	3.4		0.14	1.0	µg/L	1	10/29/13 04:34
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	10/29/13 04:34
Vinyl chloride	U		0.17	1.0	µg/L	1	10/29/13 04:34
Xylenes, Total	U		0.29	3.0	µg/L	1	10/29/13 04:34
Surr: 1,2-Dichloroethane-d4	95.2			70-120	%REC	1	10/29/13 04:34
Surr: 4-Bromofluorobenzene	97.0			75-120	%REC	1	10/29/13 04:34
Surr: Dibromofluoromethane	100			85-115	%REC	1	10/29/13 04:34
Surr: Toluene-d8	99.7			85-120	%REC	1	10/29/13 04:34

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: TB-017360-102313-MR-080
Collection Date: 10/23/13

Work Order: 13101246
Lab ID: 13101246-62
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/25/13		Analyst: AK
<u>BatchID: 52677</u>							
1,1,1-Trichloroethane	U		11	30	µg/Kg	1	10/28/13 21:39
1,1,2,2-Tetrachloroethane	U		13	30	µg/Kg	1	10/28/13 21:39
1,1,2-Trichloroethane	U		11	30	µg/Kg	1	10/28/13 21:39
1,1,2-Trichlorotrifluoroethane	U		11	30	µg/Kg	1	10/28/13 21:39
1,1-Dichloroethane	U		11	30	µg/Kg	1	10/28/13 21:39
1,1-Dichloroethene	U		13	30	µg/Kg	1	10/28/13 21:39
1,2,4-Trichlorobenzene	U		16	30	µg/Kg	1	10/28/13 21:39
1,2-Dibromo-3-chloropropane	U		15	30	µg/Kg	1	10/28/13 21:39
1,2-Dibromoethane	U		12	30	µg/Kg	1	10/28/13 21:39
1,2-Dichlorobenzene	U		12	30	µg/Kg	1	10/28/13 21:39
1,2-Dichloroethane	U		14	30	µg/Kg	1	10/28/13 21:39
1,2-Dichloropropane	U		9.9	30	µg/Kg	1	10/28/13 21:39
1,3-Dichlorobenzene	U		12	30	µg/Kg	1	10/28/13 21:39
1,4-Dichlorobenzene	U		11	30	µg/Kg	1	10/28/13 21:39
2-Butanone	U		74	200	µg/Kg	1	10/28/13 21:39
2-Hexanone	U		7.4	30	µg/Kg	1	10/28/13 21:39
4-Methyl-2-pentanone	U		10	30	µg/Kg	1	10/28/13 21:39
Acetone	U		64	100	µg/Kg	1	10/28/13 21:39
Benzene	U		12	30	µg/Kg	1	10/28/13 21:39
Bromodichloromethane	U		6.7	30	µg/Kg	1	10/28/13 21:39
Bromoform	U		5.9	30	µg/Kg	1	10/28/13 21:39
Bromomethane	U		11	75	µg/Kg	1	10/28/13 21:39
Carbon disulfide	U		15	30	µg/Kg	1	10/28/13 21:39
Carbon tetrachloride	U		8.5	30	µg/Kg	1	10/28/13 21:39
Chlorobenzene	U		12	30	µg/Kg	1	10/28/13 21:39
Chloroethane	U		64	100	µg/Kg	1	10/28/13 21:39
Chloroform	U		12	30	µg/Kg	1	10/28/13 21:39
Chloromethane	U		17	100	µg/Kg	1	10/28/13 21:39
cis-1,2-Dichloroethene	U		12	30	µg/Kg	1	10/28/13 21:39
cis-1,3-Dichloropropene	U		10	30	µg/Kg	1	10/28/13 21:39
Cyclohexane	U		13	30	µg/Kg	1	10/28/13 21:39
Dibromochloromethane	U		5.6	30	µg/Kg	1	10/28/13 21:39
Dichlorodifluoromethane	U		14	30	µg/Kg	1	10/28/13 21:39
Ethylbenzene	U		11	30	µg/Kg	1	10/28/13 21:39
Isopropylbenzene	U		13	30	µg/Kg	1	10/28/13 21:39
Methyl acetate	U		40	200	µg/Kg	1	10/28/13 21:39
Methyl tert-butyl ether	U		13	30	µg/Kg	1	10/28/13 21:39

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: TB-017360-102313-MR-080
Collection Date: 10/23/13

Work Order: 13101246
Lab ID: 13101246-62
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		14	30	µg/Kg	1	10/28/13 21:39
Methylene chloride	U		12	30	µg/Kg	1	10/28/13 21:39
Styrene	U		11	30	µg/Kg	1	10/28/13 21:39
Tetrachloroethene	U		13	30	µg/Kg	1	10/28/13 21:39
Toluene	U		11	30	µg/Kg	1	10/28/13 21:39
trans-1,2-Dichloroethene	U		9.2	30	µg/Kg	1	10/28/13 21:39
trans-1,3-Dichloropropene	U		10	30	µg/Kg	1	10/28/13 21:39
Trichloroethene	U		14	30	µg/Kg	1	10/28/13 21:39
Trichlorofluoromethane	U		8.3	30	µg/Kg	1	10/28/13 21:39
Vinyl chloride	U		14	30	µg/Kg	1	10/28/13 21:39
Xylenes, Total	U		35	90	µg/Kg	1	10/28/13 21:39
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/28/13 21:39
Surr: 4-Bromofluorobenzene	98.0			70-130	%REC	1	10/28/13 21:39
Surr: Dibromofluoromethane	97.2			70-130	%REC	1	10/28/13 21:39
Surr: Toluene-d8	98.8			70-130	%REC	1	10/28/13 21:39

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: TB-017360-102313-MR-081
Collection Date: 10/23/13

Work Order: 13101246
Lab ID: 13101246-63
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R129392</u>							
1,1,1-Trichloroethane	U		0.14	1.0	µg/L	1	10/29/13 03:45
1,1,2,2-Tetrachloroethane	U		0.13	1.0	µg/L	1	10/29/13 03:45
1,1,2-Trichloroethane	U		0.084	1.0	µg/L	1	10/29/13 03:45
1,1,2-Trichlorotrifluoroethane	U		0.18	1.0	µg/L	1	10/29/13 03:45
1,1-Dichloroethane	U		0.11	1.0	µg/L	1	10/29/13 03:45
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	10/29/13 03:45
1,2,4-Trichlorobenzene	U		0.16	5.0	µg/L	1	10/29/13 03:45
1,2-Dibromo-3-chloropropane	U		0.31	1.0	µg/L	1	10/29/13 03:45
1,2-Dibromoethane	U		0.16	1.0	µg/L	1	10/29/13 03:45
1,2-Dichlorobenzene	U		0.13	1.0	µg/L	1	10/29/13 03:45
1,2-Dichloroethane	U		0.15	1.0	µg/L	1	10/29/13 03:45
1,2-Dichloropropane	U		0.13	1.0	µg/L	1	10/29/13 03:45
1,3-Dichlorobenzene	U		0.16	1.0	µg/L	1	10/29/13 03:45
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	10/29/13 03:45
2-Butanone	U		0.22	25	µg/L	1	10/29/13 03:45
2-Hexanone	U		0.12	50	µg/L	1	10/29/13 03:45
4-Methyl-2-pentanone	U		0.096	50	µg/L	1	10/29/13 03:45
Acetone	U		0.33	50	µg/L	1	10/29/13 03:45
Benzene	U		0.18	1.0	µg/L	1	10/29/13 03:45
Bromodichloromethane	U		0.12	1.0	µg/L	1	10/29/13 03:45
Bromoform	U		0.15	1.0	µg/L	1	10/29/13 03:45
Bromomethane	U		0.21	5.0	µg/L	1	10/29/13 03:45
Carbon disulfide	U		0.17	5.0	µg/L	1	10/29/13 03:45
Carbon tetrachloride	U		0.12	1.0	µg/L	1	10/29/13 03:45
Chlorobenzene	U		0.13	1.0	µg/L	1	10/29/13 03:45
Chloroethane	U		0.46	5.0	µg/L	1	10/29/13 03:45
Chloroform	U		0.15	1.0	µg/L	1	10/29/13 03:45
Chloromethane	U		0.16	5.0	µg/L	1	10/29/13 03:45
cis-1,2-Dichloroethene	U		0.11	1.0	µg/L	1	10/29/13 03:45
cis-1,3-Dichloropropene	U		0.081	1.0	µg/L	1	10/29/13 03:45
Cyclohexane	U		0.22	1.0	µg/L	1	10/29/13 03:45
Dibromochloromethane	U		0.13	5.0	µg/L	1	10/29/13 03:45
Dichlorodifluoromethane	U		0.20	5.0	µg/L	1	10/29/13 03:45
Ethylbenzene	U		0.13	1.0	µg/L	1	10/29/13 03:45
Isopropylbenzene	U		0.14	5.0	µg/L	1	10/29/13 03:45
Methyl acetate	U		0.19	10	µg/L	1	10/29/13 03:45
Methyl tert-butyl ether	U		0.070	5.0	µg/L	1	10/29/13 03:45

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

ALS Group USA, Corp

Date: 12-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: TB-017360-102313-MR-081
Collection Date: 10/23/13

Work Order: 13101246
Lab ID: 13101246-63
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.99	1.0	µg/L	1	10/29/13 03:45
Methylene chloride	0.62	J	0.19	5.0	µg/L	1	10/29/13 03:45
Styrene	U		0.11	1.0	µg/L	1	10/29/13 03:45
Tetrachloroethene	U		0.15	1.0	µg/L	1	10/29/13 03:45
Toluene	U		0.12	1.0	µg/L	1	10/29/13 03:45
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	10/29/13 03:45
trans-1,3-Dichloropropene	U		0.15	1.0	µg/L	1	10/29/13 03:45
Trichloroethene	U		0.14	1.0	µg/L	1	10/29/13 03:45
Trichlorofluoromethane	U		0.18	1.0	µg/L	1	10/29/13 03:45
Vinyl chloride	U		0.17	1.0	µg/L	1	10/29/13 03:45
Xylenes, Total	U		0.29	3.0	µg/L	1	10/29/13 03:45
Surr: 1,2-Dichloroethane-d4	97.8			70-120	%REC	1	10/29/13 03:45
Surr: 4-Bromofluorobenzene	93.8			75-120	%REC	1	10/29/13 03:45
Surr: Dibromofluoromethane	99.8			85-115	%REC	1	10/29/13 03:45
Surr: Toluene-d8	98.0			85-120	%REC	1	10/29/13 03:45

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52664** Instrument ID **GC4** Method: **SW8082**

MBLK				Sample ID: PBLKS1-52664-52664				Units: µg/Kg			Analysis Date: 10/28/13 10:55 AM		
Client ID:			Run ID: GC4_131028A			SeqNo: 2510093			Prep Date: 10/25/13			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Aroclor 1016	U	40											
Aroclor 1221	U	40											
Aroclor 1232	U	40											
Aroclor 1242	U	40											
Aroclor 1248	U	40											
Aroclor 1254	U	40											
Aroclor 1260	U	40											
Surr: Decachlorobiphenyl	33.33	0	33.3	0	100	40-140	0						

LCS					Sample ID: PLCSS1-52664-52664			Units: µg/Kg		Analysis Date: 10/28/13 11:11 AM	
Client ID:			Run ID: GC4_131028A			SeqNo: 2510096		Prep Date: 10/25/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	796	40	833	0	95.6	50-130	0				
Aroclor 1260	832	40	833	0	99.9	50-130	0				
<i>Surr: Decachlorobiphenyl</i>	28.67	0	33.3	0	86.1	40-140	0				

MS					Sample ID: 13101071-26B MS			Units: µg/Kg		Analysis Date: 10/28/13 11:44 AM	
Client ID:			Run ID: GC4_131028A			SeqNo: 2510102		Prep Date: 10/25/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	839.8	39	812.8	0	103	40-140	0				
Aroclor 1260	893.8	39	812.8	0	110	40-140	0				
Surr: Decachlorobiphenyl	32.2	0	32.49	0	99.1	40-140	0				

MS				Sample ID: 13101246-16A MS				Units: µg/Kg		Analysis Date: 10/28/13 06:14 PM	
Client ID: SO-017360-102213-MR-032				Run ID: GC4_131028A		SeqNo: 2514113		Prep Date: 10/25/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	811.9	81	809	0	100	40-140	0				
Aroclor 1260	872.8	81	809	0	108	40-140	0				

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52664** Instrument ID **GC4** Method: **SW8082**

MSD				Sample ID: 13101071-26B MSD				Units: µg/Kg			Analysis Date: 10/28/13 12:00 PM		
Client ID:				Run ID: GC4_131028A				SeqNo: 2510105		Prep Date: 10/25/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Aroclor 1016	775.5	39	811.3	0	95.6	40-140	839.8	7.96	50				
Aroclor 1260	835.3	39	811.3	0	103	40-140	893.8	6.77	50				
Surr: Decachlorobiphenyl	27.27	0	32.43	0	84.1	40-140	32.2	16.6	50				

MSD				Sample ID: 13101246-16A MSD				Units: µg/Kg		Analysis Date: 10/28/13 06:30 PM			
Client ID: SO-017360-102213-MR-032				Run ID: GC4_131028A				SeqNo: 2514114		Prep Date: 10/25/13		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016				801	81	807.8	0	99.2	40-140	811.9	1.35	50	
Aroclor 1260				847.9	81	807.8	0	105	40-140	872.8	2.89	50	

The following samples were analyzed in this batch:

13101246-04A	13101246-05A	13101246-06A
13101246-07A	13101246-08A	13101246-09A
13101246-10A	13101246-11A	13101246-12A
13101246-14A	13101246-15A	13101246-16A
13101246-17A		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52693** Instrument ID **GC4** Method: **SW8082**

MBLK				Sample ID: PBLKS1-52693-52693				Units: µg/Kg			Analysis Date: 10/28/13 10:18 PM			
Client ID:				Run ID: GC4_131028B				SeqNo: 2512677			Prep Date: 10/27/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Aroclor 1016	U	40												
Aroclor 1221	U	40												
Aroclor 1232	U	40												
Aroclor 1242	U	40												
Aroclor 1248	U	40												
Aroclor 1254	U	40												
Aroclor 1260	U	40												
Surr: Decachlorobiphenyl	26.67	0	33.3	0	80.1	40-140	0							

LCS				Sample ID: PLCSS1-52693-52693				Units: µg/Kg		Analysis Date: 10/28/13 10:34 PM	
Client ID:			Run ID: GC4_131028B			SeqNo: 2512678		Prep Date: 10/27/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	790	40	833		0	94.8	50-130	0			
Aroclor 1260	852.7	40	833		0	102	50-130	0			
<i>Surr: Decachlorobiphenyl</i>	28.67	0	33.3		0	86.1	40-140	0			

MS				Sample ID: 13101246-22A MS				Units: µg/Kg		Analysis Date: 10/29/13 12:28 AM	
Client ID: SO-017360-102213-MR-039			Run ID: GC4_131028B		SeqNo: 2512680		Prep Date: 10/27/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	766.6	38	798.6		0	96	40-140	0			
Aroclor 1260	799.5	38	798.6		0	100	40-140	0			
Surr: Decachlorobiphenyl	26.84	0	31.92		0	84.1	40-140	0			

MSD				Sample ID: 13101246-22A MSD				Units: µg/Kg		Analysis Date: 10/29/13 12:44 AM	
Client ID: SO-017360-102213-MR-039			Run ID: GC4_131028B			SeqNo: 2512681		Prep Date: 10/27/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	759.6	39	806.8	0	94.2	40-140	766.6	0.915	50		
Aroclor 1260	792.2	39	806.8	0	98.2	40-140	799.5	0.916	50		
Surr: Decachlorobiphenyl	26.47	0	32.25	0	82.1	40-140	26.84	1.39	50		

The following samples were analyzed in this batch:

13101246-19A	13101246-20A	13101246-21A
13101246-22A	13101246-23A	13101246-24A
13101246-25A	13101246-26A	13101246-27A
13101246-29A	13101246-30A	13101246-31A
13101246-33A	13101246-34A	13101246-35A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52730a** Instrument ID **GC4** Method: **SW8082**

MBLK				Sample ID: PBLKS1-52730-52730a				Units: µg/Kg			Analysis Date: 10/29/13 03:13 PM		
Client ID:			Run ID: GC4_131029A				SeqNo: 2513950			Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Aroclor 1016	U	83											
Aroclor 1221	U	83											
Aroclor 1232	U	83											
Aroclor 1242	U	83											
Aroclor 1248	U	83											
Aroclor 1254	U	83											
Aroclor 1260	U	83											
Surr: Decachlorobiphenyl	20.33	0	33.3	0	61.1	40-140	0						

LCS				Sample ID: PLCSS1-52730-52730a				Units: µg/Kg			Analysis Date: 10/29/13 03:29 PM		
Client ID:			Run ID: GC4_131029A			SeqNo: 2513951			Prep Date: 10/28/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Aroclor 1016	916.3	83	833	0	110	50-130	0						
Aroclor 1260	857.7	83	833	0	103	50-130	0						
<i>Surr: Decachlorobiphenyl</i>	23.33	0	33.3	0	70.1	40-140	0						

MS				Sample ID: 13101246-28A MS				Units: µg/Kg		Analysis Date: 10/29/13 04:18 PM	
Client ID: SO-017360-102213-MR-045			Run ID: GC4_131029A			SeqNo: 2513953		Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	840.8	83	826.6	0	102	40-140	0				
Aroclor 1260	819.6	83	826.6	0	99.2	40-140	0				
Surr: Decachlorobiphenyl	21.83	0	33.04	0	66.1	40-140	0				

MSD				Sample ID: 13101246-28A MSD				Units: µg/Kg		Analysis Date: 10/29/13 04:34 PM	
Client ID: SO-017360-102213-MR-045			Run ID: GC4_131029A			SeqNo: 2513954		Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aroclor 1016	811.8	80	796.5	0	102	40-140	840.8	3.5	50		
Aroclor 1260	855.8	80	796.5	0	107	40-140	819.6	4.32	50		
Surr: Decachlorobiphenyl	24.22	0	31.84	0	76.1	40-140	21.83	10.4	50		

The following samples were analyzed in this batch:

13101246-28A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52652** Instrument ID **HG1** Method: **SW7471**

MBLK				Sample ID: MBLK-52652-52652				Units:mg/Kg			Analysis Date: 10/25/13 06:38 PM			
Client ID:				Run ID: HG1_131025A				SeqNo: 2507093		Prep Date: 10/25/13		DF: 1		
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-52652-52652					Units: mg/Kg		Analysis Date: 10/25/13 06:40 PM		
Client ID:			Run ID: HG1_131025A			SeqNo: 2507094		Prep Date: 10/25/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.158 0.020 0.1665 0 94.9 80-120 0

MS				Sample ID: 13101144-34AMS				Units: mg/Kg			Analysis Date: 10/25/13 07:01 PM			
Client ID:				Run ID: HG1_131025A				SeqNo: 2507099		Prep Date: 10/25/13		DF: 5		
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.5055 0.070 0.1167 0.4347 60.7 75-125 0 S

MSD				Sample ID: 13101144-34AMSD				Units: mg/Kg			Analysis Date: 10/25/13 07:03 PM			
Client ID:				Run ID: HG1_131025A				SeqNo: 2507100		Prep Date: 10/25/13		DF: 5		
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.533 0.070 0.1166 0.4347 84.3 75-125 0.5055 5.28 35

The following samples were analyzed in this batch:

13101246-04A	13101246-05A	13101246-06A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52718** Instrument ID **HG1** Method: **SW7471**

Sample ID: MBLK-52718-52718					Units: mg/Kg		Analysis Date: 10/29/13 01:03 PM				
Client ID:			Run ID: HG1_131029A			SeqNo: 2511894		Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.0015	0.020								J	

LCS		Sample ID: LCS-52718-52718				Units: mg/Kg		Analysis Date: 10/29/13 01:05 PM		
Client ID:		Run ID: HG1_131029A			SeqNo: 2511895		Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1784	0.020	0.1665	0	107	80-120	0			

MS				Sample ID: 13101246-16AMS				Units: mg/Kg		Analysis Date: 10/29/13 01:09 PM													
Client ID: SO-017360-102213-MR-032				Run ID: HG1_131029A				SeqNo: 2511897		Prep Date: 10/28/13		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	
Mercurv				0.1334		0.015		0.1223		0.008043		103		75-125		0							

MSD				Sample ID: 13101246-16AMSD				Units: mg/Kg		Analysis Date: 10/29/13 01:11 PM			
Client ID: SO-017360-102213-MR-032				Run ID: HG1_131029A				SeqNo: 2511898		Prep Date: 10/28/13		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury				0.1377	0.015	0.1208	0.008043	107	75-125	0.1334	3.18	35	

The following samples were analyzed in this batch:

13101246-07A	13101246-08A	13101246-09A
13101246-10A	13101246-11A	13101246-12A
13101246-14A	13101246-15A	13101246-16A
13101246-17A	13101246-19A	13101246-20A
13101246-21A	13101246-23A	13101246-24A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52719** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-52719-52719				Units: mg/Kg		Analysis Date: 10/30/13 03:24 PM		
Client ID:		Run ID: HG1_131030A				SeqNo: 2514518		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.002917 0.020 J

LCS		Sample ID: LCS-52719-52719				Units: mg/Kg		Analysis Date: 10/30/13 03:26 PM		
Client ID:		Run ID: HG1_131030A				SeqNo: 2514519		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1833 0.020 0.1665 0 110 80-120 0

MS		Sample ID: 13101246-22AMS				Units: mg/Kg		Analysis Date: 10/30/13 03:31 PM		
Client ID: SO-017360-102213-MR-039		Run ID: HG1_131030A				SeqNo: 2514521		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.162 0.014 0.1173 0.03485 108 75-125 0

MS		Sample ID: 13101246-28AMS				Units: mg/Kg		Analysis Date: 10/30/13 03:49 PM		
Client ID: SO-017360-102213-MR-045		Run ID: HG1_131030A				SeqNo: 2514530		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1465 0.015 0.1266 0.02079 99.3 75-125 0

MSD		Sample ID: 13101246-22AMSD				Units: mg/Kg		Analysis Date: 10/30/13 03:33 PM		
Client ID: SO-017360-102213-MR-039		Run ID: HG1_131030A				SeqNo: 2514522		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1539 0.014 0.115 0.03485 104 75-125 0.162 5.14 35

MSD		Sample ID: 13101246-28AMSD				Units: mg/Kg		Analysis Date: 10/30/13 03:51 PM		
Client ID: SO-017360-102213-MR-045		Run ID: HG1_131030A				SeqNo: 2514531		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1509 0.014 0.1194 0.02079 109 75-125 0.1465 2.95 35

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52719 Instrument ID HG1 Method: SW7471

The following samples were analyzed in this batch:

13101246-22A	13101246-25A	13101246-26A
13101246-27A	13101246-28A	13101246-29A
13101246-30A	13101246-31A	13101246-33A
13101246-34A	13101246-35A	13101246-40B
13101246-41B	13101246-42B	13101246-43B
13101246-44B	13101246-45B	13101246-46B
13101246-47B	13101246-50B	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52724** Instrument ID **HG1** Method: **SW7470**

MBLK		Sample ID: MBLK-52724-52724				Units: mg/L		Analysis Date: 10/29/13 02:29 PM		
Client ID:		Run ID: HG1_131029A				SeqNo: 2512147		Prep Date: 10/28/13		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-52724-52724				Units: mg/L		Analysis Date: 10/29/13 02:31 PM		
Client ID:		Run ID: HG1_131029A				SeqNo: 2512148		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001902 0.00020 0.002 0 95.1 80-120 0

MS		Sample ID: 13101321-11EMS				Units: mg/L		Analysis Date: 10/30/13 02:16 PM		
Client ID:		Run ID: HG1_131030A				SeqNo: 2514479		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.002061 0.00020 0.002 0.00004 101 75-125 0

MSD		Sample ID: 13101321-11EMSD				Units: mg/L		Analysis Date: 10/30/13 02:18 PM		
Client ID:		Run ID: HG1_131030A				SeqNo: 2514480		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.002087 0.00020 0.002 0.00004 102 75-125 0.002061 1.25 20

The following samples were analyzed in this batch:

13101246-13B	13101246-18B	13101246-32B
13101246-36B	13101246-37B	13101246-38B
13101246-39B	13101246-49B	13101246-54B

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52820** Instrument ID **HG1** Method: **SW7471**

MBLK				Sample ID: MBLK-52820-52820				Units: mg/Kg			Analysis Date: 10/31/13 02:27 PM			
Client ID:				Run ID: HG1_131031A				SeqNo: 2516368		Prep Date: 10/31/13		DF: 1		
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS				Sample ID: LCS-52820-52820				Units: mg/Kg			Analysis Date: 10/31/13 02:29 PM												
Client ID:				Run ID: HG1_131031A				SeqNo: 2516369		Prep Date: 10/31/13		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Mercury 0.1718 0.020 0.1665 0 103 80-120 0

MS				Sample ID: 13101246-48BMS				Units: mg/Kg		Analysis Date: 10/31/13 02:33 PM			
Client ID: SO-017360-102313-MR-066				Run ID: HG1_131031A				SeqNo: 2516371		Prep Date: 10/31/13		DF: 1	
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.153 0.014 0.1186 0.01627 115 75-125 0

MSD				Sample ID: 13101246-48BMSD				Units: mg/Kg		Analysis Date: 10/31/13 02:35 PM			
Client ID: SO-017360-102313-MR-066				Run ID: HG1_131031A				SeqNo: 2516372		Prep Date: 10/31/13		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

Mercury 0.1589 0.015 0.1211 0.01627 118 75-125 0.153 3.81 35

The following samples were analyzed in this batch:

13101246-48B	13101246-51B	13101246-52B
13101246-53B	13101246-55B	13101246-56B
13101246-57B	13101246-58B	13101246-59B

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52701** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-52701-52701				Units: mg/Kg		Analysis Date: 10/29/13 04:20 PM		
Client ID:		Run ID: ICPMS1_131029A				SeqNo: 2512762		Prep Date: 10/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.002808	0.25								J
Arsenic	U	0.25								
Barium	U	0.25								
Beryllium	U	0.10								
Cadmium	0.00174	0.10								J
Chromium	U	0.25								
Cobalt	U	0.25								
Copper	U	0.25								
Iron	1.226	4.0								J
Lead	U	0.25								
Manganese	U	0.25								
Molybdenum	U	0.25								
Nickel	U	0.25								
Selenium	U	0.25								
Silver	0.002222	0.25								J
Thallium	U	0.25								
Vanadium	U	0.25								
Zinc	0.0715	0.50								J

LCS		Sample ID: LCS-52701-52701				Units: mg/Kg		Analysis Date: 10/29/13 04:26 PM		
Client ID:		Run ID: ICPMS1_131029A				SeqNo: 2512764		Prep Date: 10/26/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.7	0.25	5	0	94	80-120	0			
Arsenic	4.416	0.25	5	0	88.3	80-120	0			
Barium	4.774	0.25	5	0	95.5	80-120	0			
Beryllium	4.458	0.10	5	0	89.2	80-120	0			
Cadmium	4.666	0.10	5	0	93.3	80-120	0			
Chromium	4.75	0.25	5	0	95	80-120	0			
Cobalt	4.778	0.25	5	0	95.6	80-120	0			
Copper	4.738	0.25	5	0	94.8	80-120	0			
Iron	486.4	4.0	500	0	97.3	80-120	0			
Lead	4.986	0.25	5	0	99.7	80-120	0			
Manganese	4.838	0.25	5	0	96.8	80-120	0			
Molybdenum	4.848	0.25	5	0	97	80-120	0			
Nickel	4.733	0.25	5	0	94.7	80-120	0			
Selenium	4.21	0.25	5	0	84.2	80-120	0			
Silver	4.959	0.25	5	0	99.2	80-120	0			
Thallium	4.779	0.25	5	0	95.6	80-120	0			
Vanadium	4.876	0.25	5	0	97.5	80-120	0			
Zinc	4.582	0.50	5	0	91.6	80-120	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52701** Instrument ID **ICPMS1** Method: **SW6020A**

MS				Sample ID: 13101246-16AMS			Units: mg/Kg		Analysis Date: 10/29/13 04:39 PM	
Client ID: SO-017360-102213-MR-032				Run ID: ICPMS1_131029A			SeqNo: 2512768		Prep Date: 10/26/13	
									DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Beryllium 7.774 0.75 7.519 0.113 102 75-125 0

MS				Sample ID: 13101246-16AMS			Units: mg/Kg		Analysis Date: 11/04/13 10:08 PM	
Client ID: SO-017360-102213-MR-032				Run ID: ICPMS1_131104A			SeqNo: 2522531		Prep Date: 10/26/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	6.986	0.38	7.519	0.08533	91.8	75-125	0			
Arsenic	7.023	0.38	7.519	1.164	77.9	75-125	0			
Barium	16.23	0.38	7.519	6.078	135	75-125	0			S
Cadmium	6.982	0.15	7.519	0.02685	92.5	75-125	0			
Chromium	12.55	0.38	7.519	5.042	99.8	75-125	0			
Cobalt	8.398	0.38	7.519	1.506	91.7	75-125	0			
Copper	7.714	0.38	7.519	1.091	88.1	75-125	0			
Iron	4307	6.0	751.9	3561	99.2	75-125	0			O
Lead	9.624	0.38	7.519	1.751	105	75-125	0			
Manganese	35.7	0.38	7.519	22.59	174	75-125	0			S
Molybdenum	7.609	0.38	7.519	0.1916	98.7	75-125	0			
Nickel	10.17	0.38	7.519	3.312	91.2	75-125	0			
Selenium	6.095	0.38	7.519	0.07869	80	75-125	0			
Silver	7.42	0.38	7.519	0.005534	98.6	75-125	0			
Thallium	7.394	0.38	7.519	0.0227	98	75-125	0			
Vanadium	15.14	0.38	7.519	7.723	98.7	75-125	0			
Zinc	11.54	0.75	7.519	5.101	85.7	75-125	0			

MSD				Sample ID: 13101246-16AMSD			Units: mg/Kg		Analysis Date: 10/29/13 04:47 PM	
Client ID: SO-017360-102213-MR-032				Run ID: ICPMS1_131029A			SeqNo: 2512769		Prep Date: 10/26/13	
									DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Beryllium 7.546 0.76 7.622 0.113 97.5 75-125 7.774 2.99 25

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52701** Instrument ID **ICPMS1** Method: **SW6020A**

MSD				Sample ID: 13101246-16AMSD			Units: mg/Kg		Analysis Date: 11/04/13 10:14 PM	
Client ID: SO-017360-102213-MR-032				Run ID: ICPMS1_131104A			SeqNo: 2522532		Prep Date: 10/26/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	7.066	0.38	7.622	0.08533	91.6	75-125	6.986	1.15	25	
Arsenic	7.095	0.38	7.622	1.164	77.8	75-125	7.023	1.03	25	
Barium	16.11	0.38	7.622	6.078	132	75-125	16.23	0.745	25	S
Cadmium	7.027	0.15	7.622	0.02685	91.8	75-125	6.982	0.649	25	
Chromium	12.54	0.38	7.622	5.042	98.3	75-125	12.55	0.0858	25	
Cobalt	8.643	0.38	7.622	1.506	93.6	75-125	8.398	2.87	25	
Copper	7.858	0.38	7.622	1.091	88.8	75-125	7.714	1.85	25	
Iron	4194	6.1	762.2	3561	83.2	75-125	4307	2.64	25	O
Lead	9.413	0.38	7.622	1.751	101	75-125	9.624	2.22	25	
Manganese	34.28	0.38	7.622	22.59	153	75-125	35.7	4.05	25	S
Molybdenum	7.652	0.38	7.622	0.1916	97.9	75-125	7.609	0.569	25	
Nickel	10.34	0.38	7.622	3.312	92.1	75-125	10.17	1.58	25	
Selenium	6.19	0.38	7.622	0.07869	80.2	75-125	6.095	1.54	25	
Silver	7.582	0.38	7.622	0.005534	99.4	75-125	7.42	2.16	25	
Thallium	7.478	0.38	7.622	0.0227	97.8	75-125	7.394	1.13	25	
Vanadium	15.55	0.38	7.622	7.723	103	75-125	15.14	2.65	25	
Zinc	11.82	0.76	7.622	5.101	88.2	75-125	11.54	2.4	25	

The following samples were analyzed in this batch:

13101246-04A	13101246-05A	13101246-06A
13101246-07A	13101246-08A	13101246-09A
13101246-10A	13101246-11A	13101246-12A
13101246-14A	13101246-15A	13101246-16A
13101246-17A	13101246-19A	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52720** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-52720-52720				Units: mg/L		Analysis Date: 10/28/13 06:15 PM		
Client ID:		Run ID: ICPMS2_131028A				SeqNo: 2511033		Prep Date: 10/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Lead	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								

LCS		Sample ID: LCS-52720-52720				Units: mg/L		Analysis Date: 10/28/13 06:20 PM		
Client ID:		Run ID: ICPMS2_131028A				SeqNo: 2511034		Prep Date: 10/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09379	0.0050	0.1	0	93.8	80-120	0			
Barium	0.09335	0.0050	0.1	0	93.4	80-120	0			
Cadmium	0.09399	0.0020	0.1	0	94	80-120	0			
Chromium	0.09354	0.0050	0.1	0	93.5	80-120	0			
Lead	0.09245	0.0050	0.1	0	92.4	80-120	0			
Selenium	0.09392	0.0050	0.1	0	93.9	80-120	0			
Silver	0.1018	0.0050	0.1	0	102	80-120	0			

MS		Sample ID: 13101316-01AMS				Units: mg/L		Analysis Date: 10/28/13 06:42 PM		
Client ID:		Run ID: ICPMS2_131028A				SeqNo: 2511038		Prep Date: 10/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	1.588	0.050	1	0.6898	89.8	75-125	0			
Cadmium	0.9044	0.020	1	0.00009588	90.4	75-125	0			
Chromium	0.9597	0.050	1	0.001527	95.8	75-125	0			
Lead	0.9103	0.050	1	0.0001199	91	75-125	0			
Silver	0.9488	0.050	1	-0.00006353	94.9	75-125	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52720 Instrument ID ICPMS2 Method: SW6020A

MSD		Sample ID: 13101316-01AMSD				Units: mg/L		Analysis Date: 10/28/13 06:47 PM		
Client ID:		Run ID: ICPMS2_131028A				SeqNo: 2511039		Prep Date: 10/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.029	0.050	1	0.003343	103	75-125	1.022	0.683	20	
Barium	1.651	0.050	1	0.6898	96.1	75-125	1.588	3.89	20	
Cadmium	0.9407	0.020	1	0.00009588	94.1	75-125	0.9044	3.93	20	
Chromium	0.9617	0.050	1	0.001527	96	75-125	0.9597	0.208	20	
Lead	0.9257	0.050	1	0.0001199	92.6	75-125	0.9103	1.68	20	
Selenium	1.046	0.050	1	0.003975	104	75-125	1.034	1.15	20	
Silver	0.9504	0.050	1	-0.00006353	95	75-125	0.9488	0.168	20	

The following samples were analyzed in this batch:

13101246-13B	13101246-18B	13101246-32B
13101246-36B	13101246-37B	13101246-38B
13101246-39B	13101246-49B	13101246-54B

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52747** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-52747-52747				Units: mg/Kg		Analysis Date: 10/30/13 05:49 AM		
Client ID:		Run ID: ICPMS1_131029A				SeqNo: 2513306		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.25								
Arsenic	U	0.25								
Barium	U	0.25								
Beryllium	U	0.10								
Cadmium	U	0.10								
Chromium	U	0.25								
Cobalt	U	0.25								
Copper	U	0.25								
Iron	U	4.0								
Lead	U	0.25								
Manganese	U	0.25								
Molybdenum	U	0.25								
Nickel	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								
Thallium	U	0.25								
Vanadium	U	0.25								
Zinc	0.0556	0.50								J

LCS		Sample ID: LCS-52747-52747				Units: mg/Kg		Analysis Date: 10/30/13 06:14 AM		
Client ID:		Run ID: ICPMS1_131029A				SeqNo: 2513310		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.698	0.25	5	0	94	80-120	0			
Arsenic	4.5	0.25	5	0	90	80-120	0			
Barium	4.792	0.25	5	0	95.8	80-120	0			
Beryllium	4.498	0.10	5	0	90	80-120	0			
Cadmium	4.646	0.10	5	0	92.9	80-120	0			
Chromium	4.848	0.25	5	0	97	80-120	0			
Cobalt	4.843	0.25	5	0	96.9	80-120	0			
Copper	4.866	0.25	5	0	97.3	80-120	0			
Iron	488.8	4.0	500	0	97.8	80-120	0			
Lead	4.917	0.25	5	0	98.3	80-120	0			
Manganese	4.846	0.25	5	0	96.9	80-120	0			
Molybdenum	4.866	0.25	5	0	97.3	80-120	0			
Nickel	4.87	0.25	5	0	97.4	80-120	0			
Selenium	4.056	0.25	5	0	81.1	80-120	0			
Silver	5.025	0.25	5	0	100	80-120	0			
Thallium	4.744	0.25	5	0	94.9	80-120	0			
Vanadium	4.969	0.25	5	0	99.4	80-120	0			
Zinc	4.504	0.50	5	0	90.1	80-120	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52747** Instrument ID **ICPMS1** Method: **SW6020A**

MS Sample ID: 13101246-28AMS				Units: mg/Kg			Analysis Date: 10/30/13 07:49 AM			
Client ID: SO-017360-102213-MR-045		Run ID: ICPMS1_131029A		SeqNo: 2513325		Prep Date: 10/28/13		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	5.619	1.6	6.289	0.1907	86.3	75-125	0			
Arsenic	8.041	1.6	6.289	1.367	106	75-125	0			
Barium	93.52	1.6	6.289	108.1	-231	75-125	0			SO
Beryllium	5.431	0.63	6.289	0.01596	86.1	75-125	0			
Cadmium	5.761	0.63	6.289	0.07094	90.5	75-125	0			
Chromium	8.711	1.6	6.289	2.552	97.9	75-125	0			
Cobalt	6.358	1.6	6.289	0.4785	93.5	75-125	0			
Copper	8.302	1.6	6.289	2.619	90.4	75-125	0			
Iron	3752	25	628.9	2590	185	75-125	0			SO
Lead	6.358	1.6	6.289	0.114	99.3	75-125	0			
Manganese	57.33	1.6	6.289	63.39	-96.4	75-125	0			SO
Molybdenum	6.937	1.6	6.289	0.799	97.6	75-125	0			
Nickel	7.481	1.6	6.289	1.485	95.3	75-125	0			
Selenium	6.714	1.6	6.289	0.9994	90.9	75-125	0			
Silver	5.459	1.6	6.289	0.001048	86.8	75-125	0			
Thallium	5.994	1.6	6.289	0.0726	94.1	75-125	0			
Vanadium	11.26	1.6	6.289	2.36	142	75-125	0			S
Zinc	9.978	3.1	6.289	3.109	109	75-125	0			

MS Sample ID: 13101246-22AMS				Units: mg/Kg			Analysis Date: 10/30/13 09:07 PM			
Client ID: SO-017360-102213-MR-039		Run ID: ICPMS1_131030A		SeqNo: 2515102		Prep Date: 10/28/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	5.613	0.34	6.84	0.06317	81.1	75-125	0			
Arsenic	7.298	0.34	6.84	1.37	86.7	75-125	0			
Barium	16.14	0.34	6.84	9.932	90.7	75-125	0			
Beryllium	4.194	0.14	6.84	0.1476	59.2	75-125	0			S
Cadmium	6.097	0.14	6.84	0.04351	88.5	75-125	0			
Chromium	11.14	0.34	6.84	4.391	98.7	75-125	0			
Cobalt	7.825	0.34	6.84	1.843	87.5	75-125	0			
Copper	10.51	0.34	6.84	5.981	66.2	75-125	0			S
Iron	4212	5.5	684	3369	123	75-125	0			O
Lead	8.352	0.34	6.84	1.95	93.6	75-125	0			
Manganese	34.04	0.34	6.84	23.89	148	75-125	0			S
Molybdenum	6.888	0.34	6.84	0.4852	93.6	75-125	0			
Nickel	9.466	0.34	6.84	3.473	87.6	75-125	0			
Selenium	5.38	0.34	6.84	0.3887	73	75-125	0			S
Silver	6.081	0.34	6.84	0.01657	88.7	75-125	0			
Thallium	6.466	0.34	6.84	0.0588	93.7	75-125	0			
Vanadium	16.93	0.34	6.84	9.176	113	75-125	0			
Zinc	12.87	0.68	6.84	7.554	77.7	75-125	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52747** Instrument ID **ICPMS1** Method: **SW6020A**

MS					Sample ID: 13101246-22AMS			Units:mg/Kg		Analysis Date: 11/01/13 04:12 PM		
Client ID: SO-017360-102213-MR-039				Run ID: ICPMS1_131101A			SeqNo: 2518842		Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Beryllium	4.669	0.14	6.84	0.1476	66.1	75-125	0			S		

MSD				Sample ID: 13101246-28AMSD			Units: mg/Kg		Analysis Date: 10/30/13 07:56 AM		
Client ID: SO-017360-102213-MR-045			Run ID: ICPMS1_131029A			SeqNo: 2513327		Prep Date: 10/28/13		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	6.006	1.5	6.15	0.1907	94.5	75-125	5.619	6.64	25	SO	
Arsenic	8.576	1.5	6.15	1.367	117	75-125	8.041	6.44	25		
Barium	97.2	1.5	6.15	108.1	-176	75-125	93.52	3.86	25		
Beryllium	5.661	0.62	6.15	0.01596	91.8	75-125	5.431	4.15	25	SO	
Cadmium	5.987	0.62	6.15	0.07094	96.2	75-125	5.761	3.85	25		
Chromium	9.191	1.5	6.15	2.552	108	75-125	8.711	5.37	25		
Cobalt	6.839	1.5	6.15	0.4785	103	75-125	6.358	7.28	25		
Copper	9.167	1.5	6.15	2.619	106	75-125	8.302	9.9	25		
Iron	4394	25	615	2590	293	75-125	3752	15.8	25	SO	
Lead	6.568	1.5	6.15	0.114	105	75-125	6.358	3.25	25		
Manganese	59.62	1.5	6.15	63.39	-61.2	75-125	57.33	3.93	25	SO	
Molybdenum	7.537	1.5	6.15	0.799	110	75-125	6.937	8.29	25		
Nickel	7.82	1.5	6.15	1.485	103	75-125	7.481	4.43	25	S	
Selenium	6.931	1.5	6.15	0.9994	96.5	75-125	6.714	3.18	25		
Silver	5.673	1.5	6.15	0.001048	92.2	75-125	5.459	3.85	25		
Thallium	6.208	1.5	6.15	0.0726	99.8	75-125	5.994	3.52	25		
Vanadium	12.2	1.5	6.15	2.36	160	75-125	11.26	8.02	25		
Zinc	10.77	3.1	6.15	3.109	125	75-125	9.978	7.65	25		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52747** Instrument ID **ICPMS1** Method: **SW6020A**

MSD				Sample ID: 13101246-22AMSD			Units: mg/Kg		Analysis Date: 10/30/13 09:13 PM		
Client ID: SO-017360-102213-MR-039			Run ID: ICPMS1_131030A			SeqNo: 2515105		Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	5.281	0.34	6.775	0.06317	77	75-125	5.613	6.09	25	R	
Arsenic	9.404	0.34	6.775	1.37	119	75-125	7.298	25.2	25		
Barium	16.69	0.34	6.775	9.932	99.7	75-125	16.14	3.36	25		
Beryllium	4.035	0.14	6.775	0.1476	57.4	75-125	4.194	3.85	25	S	
Cadmium	5.981	0.14	6.775	0.04351	87.6	75-125	6.097	1.92	25		
Chromium	11.44	0.34	6.775	4.391	104	75-125	11.14	2.6	25	R	
Cobalt	8.509	0.34	6.775	1.843	98.4	75-125	7.825	8.38	25		
Copper	13.91	0.34	6.775	5.981	117	75-125	10.51	27.9	25		
Iron	6795	5.4	677.5	3369	506	75-125	4212	46.9	25	SRO	
Lead	8.625	0.34	6.775	1.95	98.5	75-125	8.352	3.22	25	S	
Manganese	38.1	0.34	6.775	23.89	210	75-125	34.04	11.2	25		
Molybdenum	7.69	0.34	6.775	0.4852	106	75-125	6.888	11	25		
Nickel	10.03	0.34	6.775	3.473	96.8	75-125	9.466	5.82	25		
Selenium	5.508	0.34	6.775	0.3887	75.6	75-125	5.38	2.36	25		
Silver	5.705	0.34	6.775	0.01657	84	75-125	6.081	6.38	25		
Thallium	6.362	0.34	6.775	0.0588	93	75-125	6.466	1.62	25	S	
Vanadium	20.73	0.34	6.775	9.176	171	75-125	16.93	20.2	25		
Zinc	16.21	0.68	6.775	7.554	128	75-125	12.87	23	25		

MSD				Sample ID: 13101246-22AMSD				Units: mg/Kg		Analysis Date: 11/01/13 04:19 PM			
Client ID: SO-017360-102213-MR-039				Run ID: ICPMS1_131101A				SeqNo: 2518843		Prep Date: 10/28/13		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium				4.362	0.14	6.775	0.1476	62.2	75-125	4.669	6.79	25	S

The following samples were analyzed in this batch:

13101246-20A	13101246-21A	13101246-22A
13101246-23A	13101246-24A	13101246-25A
13101246-26A	13101246-27A	13101246-28A
13101246-29A	13101246-30A	13101246-31A
13101246-33A	13101246-34A	13101246-35A
13101246-40B	13101246-41B	13101246-42B
13101246-43B	13101246-44B	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52750** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-52750-52750				Units: mg/Kg		Analysis Date: 10/28/13 11:54 PM		
Client ID:		Run ID: ICPMS1_131028A		SeqNo: 2511293		Prep Date: 10/28/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.25								
Arsenic	U	0.25								
Barium	0.01206	0.25								J
Cadmium	U	0.10								
Chromium	U	0.25								
Cobalt	0.001006	0.25								J
Copper	U	0.25								
Iron	0.855	4.0								J
Lead	0.00299	0.25								J
Manganese	U	0.25								
Molybdenum	U	0.25								
Nickel	U	0.25								
Selenium	U	0.25								
Silver	0.00112	0.25								J
Thallium	U	0.25								
Vanadium	U	0.25								
Zinc	0.04367	0.50								J

Sample ID: MBLK-52750-52750					Units: mg/Kg		Analysis Date: 10/29/13 03:36 PM				
Client ID:			Run ID: ICPMS1_131029A			SeqNo: 2512746		Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Beryllium	U	0.10									

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52750** Instrument ID **ICPMS1** Method: **SW6020A**

LCS		Sample ID: LCS-52750-52750				Units: mg/Kg		Analysis Date: 10/29/13 12:01 AM		
Client ID:		Run ID: ICPMS1_131028A				SeqNo: 2511294		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	4.774	0.25	5	0	95.5	80-120	0			
Arsenic	4.298	0.25	5	0	86	80-120	0			
Barium	4.922	0.25	5	0	98.4	80-120	0			
Cadmium	4.646	0.10	5	0	92.9	80-120	0			
Chromium	4.688	0.25	5	0	93.8	80-120	0			
Cobalt	4.743	0.25	5	0	94.9	80-120	0			
Copper	4.865	0.25	5	0	97.3	80-120	0			
Iron	480.8	4.0	500	0	96.2	80-120	0			
Lead	4.994	0.25	5	0	99.9	80-120	0			
Manganese	4.77	0.25	5	0	95.4	80-120	0			
Molybdenum	4.8	0.25	5	0	96	80-120	0			
Nickel	4.652	0.25	5	0	93	80-120	0			
Selenium	4.1	0.25	5	0	82	80-120	0			
Silver	5.115	0.25	5	0	102	80-120	0			
Thallium	4.794	0.25	5	0	95.9	80-120	0			
Vanadium	4.758	0.25	5	0	95.2	80-120	0			
Zinc	4.385	0.50	5	0	87.7	80-120	0			

LCS		Sample ID: LCS-52750-52750				Units: mg/Kg		Analysis Date: 10/29/13 03:42 PM		
Client ID:		Run ID: ICPMS1_131029A				SeqNo: 2512749		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	4.37	0.10	5	0	87.4	80-120	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52750** Instrument ID **ICPMS1** Method: **SW6020A**

MS				Sample ID: 13101246-48BMS			Units: mg/Kg		Analysis Date: 10/29/13 02:26 AM	
Client ID: SO-017360-102313-MR-066				Run ID: ICPMS1_131028A			SeqNo: 2511314		Prep Date: 10/28/13	
							DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	7.496	1.8	7.246	0.4256	97.6	75-125	0			
Arsenic	8.728	1.8	7.246	1.358	102	75-125	0			
Barium	39.64	1.8	7.246	53.81	-196	75-125	0			SO
Beryllium	6.986	0.72	7.246	0.139	94.5	75-125	0			
Cadmium	7.928	0.72	7.246	0.1998	107	75-125	0			
Chromium	29.91	1.8	7.246	26.69	44.4	75-125	0			S
Cobalt	10.55	1.8	7.246	3.518	97	75-125	0			
Copper	47.43	1.8	7.246	29.1	253	75-125	0			SO
Iron	6627	29	724.6	6265	50	75-125	0			SO
Lead	24.43	1.8	7.246	28.12	-50.9	75-125	0			S
Manganese	147.7	1.8	7.246	148.2	-7.72	75-125	0			SO
Molybdenum	16.45	1.8	7.246	7.925	118	75-125	0			
Nickel	29.2	1.8	7.246	23.64	76.8	75-125	0			
Selenium	7.058	1.8	7.246	0.1949	94.7	75-125	0			
Silver	8.192	1.8	7.246	0.1148	111	75-125	0			
Thallium	7.413	1.8	7.246	0.05422	102	75-125	0			
Vanadium	16.28	1.8	7.246	8.017	114	75-125	0			
Zinc	54.49	3.6	7.246	67.19	-175	75-125	0			SO

MSD				Sample ID: 13101246-48BMSD			Units: mg/Kg		Analysis Date: 10/29/13 02:32 AM	
Client ID: SO-017360-102313-MR-066				Run ID: ICPMS1_131028A			SeqNo: 2511315		Prep Date: 10/28/13	
							DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	7.511	1.8	7.396	0.4256	95.8	75-125	7.496	0.196	25	
Arsenic	8.983	1.8	7.396	1.358	103	75-125	8.728	2.88	25	
Barium	41.97	1.8	7.396	53.81	-160	75-125	39.64	5.73	25	SO
Beryllium	7.123	0.74	7.396	0.139	94.4	75-125	6.986	1.95	25	
Cadmium	8.129	0.74	7.396	0.1998	107	75-125	7.928	2.51	25	
Chromium	33.23	1.8	7.396	26.69	88.4	75-125	29.91	10.5	25	
Cobalt	11.04	1.8	7.396	3.518	102	75-125	10.55	4.59	25	
Copper	26.83	1.8	7.396	29.1	-30.7	75-125	47.43	55.5	25	SR
Iron	7134	30	739.6	6265	118	75-125	6627	7.37	25	O
Lead	24.49	1.8	7.396	28.12	-49	75-125	24.43	0.254	25	S
Manganese	164.9	1.8	7.396	148.2	225	75-125	147.7	11	25	SO
Molybdenum	18.74	1.8	7.396	7.925	146	75-125	16.45	13	25	S
Nickel	28.41	1.8	7.396	23.64	64.5	75-125	29.2	2.75	25	S
Selenium	7.411	1.8	7.396	0.1949	97.6	75-125	7.058	4.88	25	
Silver	8.425	1.8	7.396	0.1148	112	75-125	8.192	2.8	25	
Thallium	7.674	1.8	7.396	0.05422	103	75-125	7.413	3.46	25	
Vanadium	17.77	1.8	7.396	8.017	132	75-125	16.28	8.8	25	S
Zinc	47.93	3.7	7.396	67.19	-260	75-125	54.49	12.8	25	SO

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52750** Instrument ID **ICPMS1** Method: **SW6020A**

The following samples were analyzed in this batch:

13101246-45B	13101246-46B	13101246-47B
13101246-48B	13101246-50B	13101246-51B
13101246-52B	13101246-53B	13101246-55B
13101246-56B	13101246-57B	13101246-58B
13101246-59B		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52635** Instrument ID **SVMS4** Method: **SW8270**

MBLK		Sample ID: SBLKS1-52635-52635				Units: µg/Kg		Analysis Date: 10/28/13 08:48 AM		
Client ID:		Run ID: SVMS4_131027A				SeqNo: 2510898		Prep Date: 10/25/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	U	6.7								
Acenaphthene	U	6.7								
Acenaphthylene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(g,h,i)perylene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Phenanthrene	U	6.7								
Pyrene	U	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	<i>1415</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>84.9</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1637</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>98.2</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1463</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>87.8</i>	<i>37-107</i>	<i>0</i>			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52635** Instrument ID **SVMS4** Method: **SW8270**

LCS				Sample ID: SLCSS1-52635-52635			Units: µg/Kg		Analysis Date: 10/28/13 05:39 AM	
Client ID:				Run ID: SVMS4_131027A			SeqNo: 2510892		Prep Date: 10/25/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	540.3	6.7	666.7	0	81	45-105	0			
Acenaphthene	541.7	6.7	666.7	0	81.2	45-110	0			
Acenaphthylene	526.7	6.7	666.7	0	79	45-105	0			
Anthracene	594	6.7	666.7	0	89.1	55-105	0			
Benzo(a)anthracene	607.3	6.7	666.7	0	91.1	50-110	0			
Benzo(a)pyrene	724.7	6.7	666.7	0	109	50-110	0			
Benzo(b)fluoranthene	704	6.7	666.7	0	106	45-115	0			
Benzo(g,h,i)perylene	796.7	6.7	666.7	0	119	40-125	0			
Benzo(k)fluoranthene	685.7	6.7	666.7	0	103	45-115	0			
Chrysene	599	6.7	666.7	0	89.8	55-110	0			
Dibenzo(a,h)anthracene	755.7	6.7	666.7	0	113	40-125	0			
Fluoranthene	622.3	6.7	666.7	0	93.3	55-115	0			
Fluorene	579.7	6.7	666.7	0	86.9	50-110	0			
Indeno(1,2,3-cd)pyrene	749	6.7	666.7	0	112	40-120	0			
Naphthalene	536.3	6.7	666.7	0	80.4	40-105	0			
Phenanthrene	589.3	6.7	666.7	0	88.4	50-110	0			
Pyrene	601.7	6.7	666.7	0	90.2	45-125	0			
Surr: 2-Fluorobiphenyl	1318	0	1667	0	79.1	12-100	0			
Surr: 4-Terphenyl-d14	1607	0	1667	0	96.4	25-137	0			
Surr: Nitrobenzene-d5	1409	0	1667	0	84.5	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52635** Instrument ID **SVMS4** Method: **SW8270**

MS				Sample ID: 13101246-16A MS			Units: µg/Kg		Analysis Date: 10/28/13 07:13 AM	
Client ID: SO-017360-102213-MR-032				Run ID: SVMS4_131027A			SeqNo: 2510893		Prep Date: 10/25/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	999.7	13	1331	0	75.1	45-105	0			
Acenaphthene	1028	13	1331	0	77.2	45-110	0			
Acenaphthylene	1002	13	1331	0	75.2	45-105	0			
Anthracene	1144	13	1331	0	85.9	55-105	0			
Benzo(a)anthracene	1155	13	1331	0	86.8	50-110	0			
Benzo(a)pyrene	1370	13	1331	0	103	50-110	0			
Benzo(b)fluoranthene	1353	13	1331	0	102	45-115	0			
Benzo(g,h,i)perylene	1545	13	1331	0	116	40-125	0			
Benzo(k)fluoranthene	1292	13	1331	0	97	45-115	0			
Chrysene	1146	13	1331	0	86.1	55-110	0			
Dibenzo(a,h)anthracene	1451	13	1331	0	109	40-125	0			
Fluoranthene	1203	13	1331	0	90.4	55-115	0			
Fluorene	1105	13	1331	0	83	50-110	0			
Indeno(1,2,3-cd)pyrene	1441	13	1331	0	108	40-120	0			
Naphthalene	995.7	13	1331	0	74.8	40-105	0			
Phenanthrene	1151	13	1331	0	86.5	50-110	0			
Pyrene	1164	13	1331	0	87.4	45-125	0			
Surr: 2-Fluorobiphenyl	2517	0	3328	0	75.6	12-100	0			
Surr: 4-Terphenyl-d14	3191	0	3328	0	95.9	25-137	0			
Surr: Nitrobenzene-d5	2653	0	3328	0	79.7	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52635** Instrument ID **SVMS4** Method: **SW8270**

MSD				Sample ID: 13101246-16A MSD			Units: µg/Kg		Analysis Date: 10/28/13 07:45 AM	
Client ID: SO-017360-102213-MR-032				Run ID: SVMS4_131027A			SeqNo: 2510897		Prep Date: 10/25/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1031	13	1278	0	80.6	45-105	999.7	3.06	30	
Acenaphthene	1040	13	1278	0	81.4	45-110	1028	1.16	30	
Acenaphthylene	1016	13	1278	0	79.5	45-105	1002	1.42	30	
Anthracene	1109	13	1278	0	86.8	55-105	1144	3.08	30	
Benzo(a)anthracene	1116	13	1278	0	87.3	50-110	1155	3.44	30	
Benzo(a)pyrene	1337	13	1278	0	105	50-110	1370	2.43	30	
Benzo(b)fluoranthene	1202	13	1278	0	94	45-115	1353	11.8	30	
Benzo(g,h,i)perylene	1486	13	1278	0	116	40-125	1545	3.85	30	
Benzo(k)fluoranthene	1389	13	1278	0	109	45-115	1292	7.22	30	
Chrysene	1098	13	1278	0	85.9	55-110	1146	4.3	30	
Dibenzo(a,h)anthracene	1400	13	1278	0	110	40-125	1451	3.57	30	
Fluoranthene	1157	13	1278	0	90.5	55-115	1203	3.96	30	
Fluorene	1111	13	1278	0	86.9	50-110	1105	0.58	30	
Indeno(1,2,3-cd)pyrene	1394	13	1278	0	109	40-120	1441	3.33	30	
Naphthalene	1027	13	1278	0	80.3	40-105	995.7	3.09	30	
Phenanthrene	1107	13	1278	0	86.6	50-110	1151	3.9	30	
Pyrene	1124	13	1278	0	87.9	45-125	1164	3.5	30	
Surr: 2-Fluorobiphenyl	2518	0	3195	0	78.8	12-100	2517	0.049	40	
Surr: 4-Terphenyl-d14	3037	0	3195	0	95	25-137	3191	4.97	40	
Surr: Nitrobenzene-d5	2678	0	3195	0	83.8	37-107	2653	0.946	40	

The following samples were analyzed in this batch:

13101246-01A	13101246-02A	13101246-03A
13101246-16A		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52659** Instrument ID **SVMS5** Method: **SW8270**

MBLK		Sample ID: SBLKS1-52659-52659				Units: µg/Kg		Analysis Date: 10/25/13 09:56 PM		
Client ID:		Run ID: SVMS5_131025A				SeqNo: 2509341		Prep Date: 10/25/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	U	6.7								
Acenaphthene	U	6.7								
Acenaphthylene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(g,h,i)perylene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Phenanthrene	U	6.7								
Pyrene	U	6.7								
Surr: 2-Fluorobiphenyl	1398	0	1667	0	83.9	12-100	0			
Surr: 4-Terphenyl-d14	1965	0	1667	0	118	25-137	0			
Surr: Nitrobenzene-d5	1385	0	1667	0	83.1	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52659** Instrument ID **SVMS5** Method: **SW8270**

LCS		Sample ID: SLCSS1-52659-52659				Units: µg/Kg		Analysis Date: 10/25/13 10:18 PM		
Client ID:		Run ID: SVMS5_131025A				SeqNo: 2509342		Prep Date: 10/25/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	543	6.7	666.7	0	81.4	45-105	0			
Acenaphthene	549.3	6.7	666.7	0	82.4	45-110	0			
Acenaphthylene	531	6.7	666.7	0	79.6	45-105	0			
Anthracene	561	6.7	666.7	0	84.1	55-105	0			
Benzo(a)anthracene	589.3	6.7	666.7	0	88.4	50-110	0			
Benzo(a)pyrene	676.3	6.7	666.7	0	101	50-110	0			
Benzo(b)fluoranthene	678.3	6.7	666.7	0	102	45-115	0			
Benzo(g,h,i)perylene	626	6.7	666.7	0	93.9	40-125	0			
Benzo(k)fluoranthene	736.7	6.7	666.7	0	110	45-115	0			
Chrysene	595.7	6.7	666.7	0	89.3	55-110	0			
Dibenzo(a,h)anthracene	638	6.7	666.7	0	95.7	40-125	0			
Fluoranthene	580.3	6.7	666.7	0	87	55-115	0			
Fluorene	544	6.7	666.7	0	81.6	50-110	0			
Indeno(1,2,3-cd)pyrene	637	6.7	666.7	0	95.5	40-120	0			
Naphthalene	538.3	6.7	666.7	0	80.7	40-105	0			
Phenanthrene	577.7	6.7	666.7	0	86.6	50-110	0			
Pyrene	631.7	6.7	666.7	0	94.7	45-125	0			
Surr: 2-Fluorobiphenyl	1378	0	1667	0	82.7	12-100	0			
Surr: 4-Terphenyl-d14	1939	0	1667	0	116	25-137	0			
Surr: Nitrobenzene-d5	1327	0	1667	0	79.6	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52659** Instrument ID **SVMS5** Method: **SW8270**

MS				Sample ID: 13101246-22A MS			Units: µg/Kg		Analysis Date: 10/25/13 10:41 PM	
Client ID: SO-017360-102213-MR-039				Run ID: SVMS5_131025A			SeqNo: 2509343		Prep Date: 10/25/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1047	13	1291	0	81.1	45-105	0			
Acenaphthene	1046	13	1291	0	81	45-110	0			
Acenaphthylene	998.6	13	1291	0	77.3	45-105	0			
Anthracene	1065	13	1291	0	82.5	55-105	0			
Benzo(a)anthracene	1091	13	1291	0	84.5	50-110	0			
Benzo(a)pyrene	1243	13	1291	0	96.3	50-110	0			
Benzo(b)fluoranthene	1255	13	1291	0	97.2	45-115	0			
Benzo(g,h,i)perylene	1161	13	1291	28.69	87.7	40-125	0			
Benzo(k)fluoranthene	1336	13	1291	0	103	45-115	0			
Chrysene	1126	13	1291	0	87.2	55-110	0			
Dibenzo(a,h)anthracene	1177	13	1291	0	91.2	40-125	0			
Fluoranthene	1101	13	1291	0	85.2	55-115	0			
Fluorene	1046	13	1291	0	81	50-110	0			
Indeno(1,2,3-cd)pyrene	1190	13	1291	0	92.1	40-120	0			
Naphthalene	1017	13	1291	0	78.7	40-105	0			
Phenanthrene	1100	13	1291	0	85.2	50-110	0			
Pyrene	1179	13	1291	0	91.3	45-125	0			
Surr: 2-Fluorobiphenyl	2648	0	3228	0	82	12-100	0			
Surr: 4-Terphenyl-d14	3695	0	3228	0	114	25-137	0			
Surr: Nitrobenzene-d5	2576	0	3228	0	79.8	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52659** Instrument ID **SVMS5** Method: **SW8270**

MSD				Sample ID: 13101246-22A MSD			Units: µg/Kg		Analysis Date: 10/25/13 11:03 PM	
Client ID: SO-017360-102213-MR-039				Run ID: SVMS5_131025A			SeqNo: 2509344		Prep Date: 10/25/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1032	13	1271	0	81.2	45-105	1047	1.44	30	
Acenaphthene	1040	13	1271	0	81.8	45-110	1046	0.58	30	
Acenaphthylene	988.8	13	1271	0	77.8	45-105	998.6	0.983	30	
Anthracene	1033	13	1271	0	81.3	55-105	1065	3.03	30	
Benzo(a)anthracene	1075	13	1271	0	84.5	50-110	1091	1.5	30	
Benzo(a)pyrene	1234	13	1271	0	97.1	50-110	1243	0.735	30	
Benzo(b)fluoranthene	1264	13	1271	0	99.4	45-115	1255	0.674	30	
Benzo(g,h,i)perylene	1129	13	1271	28.69	86.5	40-125	1161	2.85	30	
Benzo(k)fluoranthene	1299	13	1271	0	102	45-115	1336	2.78	30	
Chrysene	1095	13	1271	0	86.1	55-110	1126	2.77	30	
Dibenzo(a,h)anthracene	1144	13	1271	0	90	40-125	1177	2.89	30	
Fluoranthene	1078	13	1271	0	84.8	55-115	1101	2.09	30	
Fluorene	1005	13	1271	0	79	50-110	1046	4.06	30	
Indeno(1,2,3-cd)pyrene	1129	13	1271	0	88.8	40-120	1190	5.21	30	
Naphthalene	1019	13	1271	0	80.2	40-105	1017	0.262	30	
Phenanthrene	1054	13	1271	0	82.9	50-110	1100	4.24	30	
Pyrene	1143	13	1271	0	89.9	45-125	1179	3.05	30	
Surr: 2-Fluorobiphenyl	2646	0	3177	0	83.3	12-100	2648	0.0626	40	
Surr: 4-Terphenyl-d14	3616	0	3177	0	114	25-137	3695	2.16	40	
Surr: Nitrobenzene-d5	2567	0	3177	0	80.8	37-107	2576	0.342	40	

The following samples were analyzed in this batch:

13101246-04A	13101246-05A	13101246-06A
13101246-07A	13101246-08A	13101246-09A
13101246-10A	13101246-11A	13101246-12A
13101246-14A	13101246-15A	13101246-17A
13101246-19A	13101246-20A	13101246-21A
13101246-22A	13101246-23A	13101246-24A
13101246-25A	13101246-26A	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52689** Instrument ID **SVMS5** Method: **SW8270**

MBLK		Sample ID: SBLKS1-52689-52689				Units: µg/Kg		Analysis Date: 10/28/13 11:22 AM		
Client ID:		Run ID: SVMS5_131028A				SeqNo: 2511185		Prep Date: 10/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	U	6.7								
Acenaphthene	U	6.7								
Acenaphthylene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(g,h,i)perylene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Phenanthrene	U	6.7								
Pyrene	U	6.7								
Surr: 2-Fluorobiphenyl	1245	0	1667	0	74.7	12-100	0			
Surr: 4-Terphenyl-d14	1983	0	1667	0	119	25-137	0			
Surr: Nitrobenzene-d5	1281	0	1667	0	76.9	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52689** Instrument ID **SVMS5** Method: **SW8270**

LCS		Sample ID: SLCSS1-52689-52689				Units: µg/Kg		Analysis Date: 10/28/13 11:45 AM		
Client ID:		Run ID: SVMS5_131028A				SeqNo: 2511186		Prep Date: 10/27/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	435.7	6.7	666.7	0	65.3	45-105	0			
Acenaphthene	494.3	6.7	666.7	0	74.1	45-110	0			
Acenaphthylene	479.3	6.7	666.7	0	71.9	45-105	0			
Anthracene	520	6.7	666.7	0	78	55-105	0			
Benzo(a)anthracene	572	6.7	666.7	0	85.8	50-110	0			
Benzo(a)pyrene	676.7	6.7	666.7	0	101	50-110	0			
Benzo(b)fluoranthene	691	6.7	666.7	0	104	45-115	0			
Benzo(g,h,i)perylene	632.7	6.7	666.7	0	94.9	40-125	0			
Benzo(k)fluoranthene	718.3	6.7	666.7	0	108	45-115	0			
Chrysene	596	6.7	666.7	0	89.4	55-110	0			
Dibenzo(a,h)anthracene	616.3	6.7	666.7	0	92.4	40-125	0			
Fluoranthene	567	6.7	666.7	0	85	55-115	0			
Fluorene	508.3	6.7	666.7	0	76.2	50-110	0			
Indeno(1,2,3-cd)pyrene	632.7	6.7	666.7	0	94.9	40-120	0			
Naphthalene	483.3	6.7	666.7	0	72.5	40-105	0			
Phenanthrene	543.3	6.7	666.7	0	81.5	50-110	0			
Pyrene	619	6.7	666.7	0	92.8	45-125	0			
Surr: 2-Fluorobiphenyl	1263	0	1667	0	75.8	12-100	0			
Surr: 4-Terphenyl-d14	1959	0	1667	0	118	25-137	0			
Surr: Nitrobenzene-d5	1216	0	1667	0	73	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52689** Instrument ID **SVMS5** Method: **SW8270**

MS				Sample ID: 13101246-28A MS			Units: µg/Kg		Analysis Date: 10/28/13 02:23 PM	
Client ID: SO-017360-102213-MR-045				Run ID: SVMS5_131028A			SeqNo: 2511193		Prep Date: 10/27/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	925.6	13	1316	0	70.3	45-105	0			
Acenaphthene	932.8	13	1316	0	70.9	45-110	0			
Acenaphthylene	903.9	13	1316	0	68.7	45-105	0			
Anthracene	1107	13	1316	0	84.1	55-105	0			
Benzo(a)anthracene	1159	13	1316	0	88.1	50-110	0			
Benzo(a)pyrene	1326	13	1316	0	101	50-110	0			
Benzo(b)fluoranthene	1295	13	1316	0	98.4	45-115	0			
Benzo(g,h,i)perylene	1268	13	1316	0	96.4	40-125	0			
Benzo(k)fluoranthene	1393	13	1316	0	106	45-115	0			
Chrysene	1179	13	1316	0	89.6	55-110	0			
Dibenzo(a,h)anthracene	1261	13	1316	0	95.8	40-125	0			
Fluoranthene	1110	13	1316	0	84.3	55-115	0			
Fluorene	949.9	13	1316	0	72.2	50-110	0			
Indeno(1,2,3-cd)pyrene	1284	13	1316	0	97.6	40-120	0			
Naphthalene	992	13	1316	0	75.4	40-105	0			
Phenanthrene	1102	13	1316	0	83.7	50-110	0			
Pyrene	1278	13	1316	0	97.1	45-125	0			
Surr: 2-Fluorobiphenyl	2344	0	3289	0	71.3	12-100	0			
Surr: 4-Terphenyl-d14	3863	0	3289	0	117	25-137	0			
Surr: Nitrobenzene-d5	2496	0	3289	0	75.9	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52689** Instrument ID **SVMS5** Method: **SW8270**

MSD				Sample ID: 13101246-28A MSD			Units: µg/Kg		Analysis Date: 10/28/13 02:45 PM	
Client ID: SO-017360-102213-MR-045				Run ID: SVMS5_131028A			SeqNo: 2511194		Prep Date: 10/27/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	857.8	13	1261	0	68	45-105	925.6	7.61	30	
Acenaphthene	832.5	13	1261	0	66	45-110	932.8	11.4	30	
Acenaphthylene	814.3	13	1261	0	64.5	45-105	903.9	10.4	30	
Anthracene	1070	13	1261	0	84.8	55-105	1107	3.32	30	
Benzo(a)anthracene	1103	13	1261	0	87.4	50-110	1159	4.95	30	
Benzo(a)pyrene	1243	13	1261	0	98.5	50-110	1326	6.47	30	
Benzo(b)fluoranthene	1206	13	1261	0	95.6	45-115	1295	7.15	30	
Benzo(g,h,i)perylene	1203	13	1261	0	95.4	40-125	1268	5.25	30	
Benzo(k)fluoranthene	1314	13	1261	0	104	45-115	1393	5.88	30	
Chrysene	1119	13	1261	0	88.7	55-110	1179	5.22	30	
Dibenzo(a,h)anthracene	1204	13	1261	0	95.4	40-125	1261	4.63	30	
Fluoranthene	1066	13	1261	0	84.5	55-115	1110	4.03	30	
Fluorene	867.9	13	1261	0	68.8	50-110	949.9	9.03	30	
Indeno(1,2,3-cd)pyrene	1204	13	1261	0	95.4	40-120	1284	6.44	30	
Naphthalene	884.9	13	1261	0	70.1	40-105	992	11.4	30	
Phenanthrene	1064	13	1261	0	84.3	50-110	1102	3.5	30	
Pyrene	1210	13	1261	0	95.9	45-125	1278	5.45	30	
Surr: 2-Fluorobiphenyl	2057	0	3154	0	65.2	12-100	2344	13	40	
Surr: 4-Terphenyl-d14	3643	0	3154	0	116	25-137	3863	5.86	40	
Surr: Nitrobenzene-d5	2134	0	3154	0	67.7	37-107	2496	15.6	40	

The following samples were analyzed in this batch:

13101246-27A	13101246-28A	13101246-29A
13101246-30A	13101246-31A	13101246-33A
13101246-34A	13101246-35A	13101246-40A
13101246-41A	13101246-42A	13101246-43A
13101246-44A	13101246-45A	13101246-46A
13101246-47A	13101246-50A	13101246-51A
13101246-52A		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52716** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKS1-52716-52716				Units: µg/Kg		Analysis Date: 10/28/13 08:25 PM		
Client ID:		Run ID: SVMS6_131028A				SeqNo: 2511791		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	U	6.7								
Acenaphthene	U	6.7								
Acenaphthylene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(g,h,i)perylene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Phenanthrene	U	6.7								
Pyrene	U	6.7								
Surr: 2-Fluorobiphenyl	1387	0	1667	0	83.2	12-100	0			
Surr: 4-Terphenyl-d14	2163	0	1667	0	130	25-137	0			
Surr: Nitrobenzene-d5	1172	0	1667	0	70.3	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52716** Instrument ID **SVMS6** Method: **SW8270**

LCS		Sample ID: SLCSS1-52716-52716				Units: µg/Kg		Analysis Date: 10/28/13 08:45 PM		
Client ID:		Run ID: SVMS6_131028A				SeqNo: 2511792		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	533.7	6.7	666.7	0	80	45-105	0			
Acenaphthene	541.3	6.7	666.7	0	81.2	45-110	0			
Acenaphthylene	554.3	6.7	666.7	0	83.1	45-105	0			
Anthracene	581	6.7	666.7	0	87.1	55-105	0			
Benzo(a)anthracene	619.3	6.7	666.7	0	92.9	50-110	0			
Benzo(a)pyrene	613.3	6.7	666.7	0	92	50-110	0			
Benzo(b)fluoranthene	628.3	6.7	666.7	0	94.2	45-115	0			
Benzo(g,h,i)perylene	583.3	6.7	666.7	0	87.5	40-125	0			
Benzo(k)fluoranthene	609.3	6.7	666.7	0	91.4	45-115	0			
Chrysene	560	6.7	666.7	0	84	55-110	0			
Dibenzo(a,h)anthracene	567.7	6.7	666.7	0	85.1	40-125	0			
Fluoranthene	612	6.7	666.7	0	91.8	55-115	0			
Fluorene	547.3	6.7	666.7	0	82.1	50-110	0			
Indeno(1,2,3-cd)pyrene	567	6.7	666.7	0	85	40-120	0			
Naphthalene	516.3	6.7	666.7	0	77.4	40-105	0			
Phenanthrene	606.3	6.7	666.7	0	90.9	50-110	0			
Pyrene	676.7	6.7	666.7	0	101	45-125	0			
Surr: 2-Fluorobiphenyl	1541	0	1667	0	92.4	12-100	0			
Surr: 4-Terphenyl-d14	2198	0	1667	0	132	25-137	0			
Surr: Nitrobenzene-d5	1240	0	1667	0	74.4	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52716** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 13101267-02A MS			Units: µg/Kg		Analysis Date: 10/29/13 12:58 PM	
Client ID:				Run ID: SVMS6_131029A			SeqNo: 2512796		Prep Date: 10/28/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1438	19	1893	0	75.9	45-105	0			
Acenaphthene	1465	19	1893	0	77.4	45-110	0			
Acenaphthylene	1484	19	1893	0	78.4	45-105	0			
Anthracene	1538	19	1893	0	81.2	55-105	0			
Benzo(a)anthracene	1676	19	1893	95.65	83.4	50-110	0			
Benzo(a)pyrene	1647	19	1893	118.8	80.7	50-110	0			
Benzo(b)fluoranthene	1803	19	1893	161.4	86.7	45-115	0			
Benzo(g,h,i)perylene	1392	19	1893	54.11	70.6	40-125	0			
Benzo(k)fluoranthene	1506	19	1893	0	79.5	45-115	0			
Chrysene	1449	19	1893	78.26	72.4	55-110	0			
Dibenzo(a,h)anthracene	1318	19	1893	0	69.6	40-125	0			
Fluoranthene	1901	19	1893	184.5	90.6	55-115	0			
Fluorene	1415	19	1893	0	74.7	50-110	0			
Indeno(1,2,3-cd)pyrene	1400	19	1893	80.19	69.7	40-120	0			
Naphthalene	1266	19	1893	0	66.8	40-105	0			
Phenanthrene	1741	19	1893	105.3	86.4	50-110	0			
Pyrene	1879	19	1893	172	90.2	45-125	0			
Surr: 2-Fluorobiphenyl	3952	0	4733	0	83.5	12-100	0			
Surr: 4-Terphenyl-d14	5106	0	4733	0	108	25-137	0			
Surr: Nitrobenzene-d5	3235	0	4733	0	68.3	37-107	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52716** Instrument ID **SVMS6** Method: **SW8270**

MSD				Sample ID: 13101267-02A MSD			Units: µg/Kg		Analysis Date: 10/29/13 01:18 PM	
Client ID:				Run ID: SVMS6_131029A			SeqNo: 2512797		Prep Date: 10/28/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	1534	20	1963	0	78.1	45-105	1438	6.48	30	
Acenaphthene	1593	20	1963	0	81.1	45-110	1465	8.35	30	
Acenaphthylene	1602	20	1963	0	81.6	45-105	1484	7.62	30	
Anthracene	1734	20	1963	0	88.3	55-105	1538	12	30	
Benzo(a)anthracene	1842	20	1963	95.65	89	50-110	1676	9.49	30	
Benzo(a)pyrene	1820	20	1963	118.8	86.6	50-110	1647	9.96	30	
Benzo(b)fluoranthene	1972	20	1963	161.4	92.2	45-115	1803	8.93	30	
Benzo(g,h,i)perylene	1557	20	1963	54.11	76.5	40-125	1392	11.2	30	
Benzo(k)fluoranthene	1696	20	1963	0	86.4	45-115	1506	11.9	30	
Chrysene	1584	20	1963	78.26	76.7	55-110	1449	8.9	30	
Dibenzo(a,h)anthracene	1500	20	1963	0	76.4	40-125	1318	12.9	30	
Fluoranthene	1875	20	1963	184.5	86.1	55-115	1901	1.38	30	
Fluorene	1544	20	1963	0	78.6	50-110	1415	8.7	30	
Indeno(1,2,3-cd)pyrene	1560	20	1963	80.19	75.4	40-120	1400	10.8	30	
Naphthalene	1366	20	1963	0	69.6	40-105	1266	7.65	30	
Phenanthrene	1809	20	1963	105.3	86.8	50-110	1741	3.84	30	
Pyrene	2045	20	1963	172	95.4	45-125	1879	8.44	30	
Surr: 2-Fluorobiphenyl	4379	0	4908	0	89.2	12-100	3952	10.2	40	
Surr: 4-Terphenyl-d14	6270	0	4908	0	128	25-137	5106	20.5	40	
Surr: Nitrobenzene-d5	3534	0	4908	0	72	37-107	3235	8.84	40	

The following samples were analyzed in this batch:

13101246-53A	13101246-55A	13101246-56A
13101246-57A	13101246-58A	13101246-59A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52727** Instrument ID **SVMS7** Method: **SW8270**

MBLK		Sample ID: SBLKW1-52727-52727				Units: µg/L		Analysis Date: 10/28/13 07:44 PM		
Client ID:		Run ID: SVMS7_131028A				SeqNo: 2512239		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	U	5.0								
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
Hexachloro-1,3-butadiene	U	5.0								
Hexachlorobenzene	U	5.0								
Hexachloroethane	U	5.0								
m-Cresol	U	5.0								
Nitrobenzene	U	5.0								
o-Cresol	U	5.0								
p-Cresol	U	5.0								
Pentachlorophenol	U	20								
Pyridine	U	20								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>29.25</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>58.5</i>	<i>38-115</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>25.56</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>51.1</i>	<i>32-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>18.49</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>37</i>	<i>22-59</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>45.01</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>90</i>	<i>23-112</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>24.53</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>49.1</i>	<i>31-93</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>10.71</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>21.4</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: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52727** Instrument ID **SVMS7** Method: **SW8270**

LCS				Sample ID: SLCSW1-52727-52727			Units: µg/L		Analysis Date: 10/28/13 06:16 PM	
Client ID:				Run ID: SVMS7_131028A			SeqNo: 2512231		Prep Date: 10/28/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	11.99	5.0	20	0	60	30-110	0			
2,4,5-Trichlorophenol	14.25	5.0	20	0	71.2	50-110	0			
2,4,6-Trichlorophenol	12.05	5.0	20	0	60.2	50-115	0			
2,4-Dinitrotoluene	16.4	5.0	20	0	82	50-120	0			
Hexachloro-1,3-butadiene	11.62	5.0	20	0	58.1	25-105	0			
Hexachlorobenzene	13.64	5.0	20	0	68.2	50-110	0			
Hexachloroethane	12.52	5.0	20	0	62.6	30-95	0			
m-Cresol	8.7	5.0	20	0	43.5	30-110	0			
Nitrobenzene	13.03	5.0	20	0	65.2	45-110	0			
o-Cresol	10.33	5.0	20	0	51.6	40-110	0			
p-Cresol	8.7	5.0	20	0	43.5	30-110	0			
Pentachlorophenol	12.44	20	20	0	62.2	40-115	0			J
Pyridine	5.63	20	20	0	28.2	10-71	0			J
<i>Surr: 2,4,6-Tribromophenol</i>	<i>34.48</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>69</i>	<i>38-115</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>29.75</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>59.5</i>	<i>32-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>18.53</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>37.1</i>	<i>22-59</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>40.77</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>81.5</i>	<i>23-112</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>29.19</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>58.4</i>	<i>31-93</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>11.83</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>23.7</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: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52727** Instrument ID **SVMS7** Method: **SW8270**

MS				Sample ID: 13101220-02A MS			Units: µg/L		Analysis Date: 10/28/13 06:38 PM		
Client ID:			Run ID: SVMS7_131028A			SeqNo:2512232		Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,4-Dichlorobenzene	222.4	100	400	0	55.6	30-110	0				
2,4,5-Trichlorophenol	267.2	100	400	0	66.8	50-110	0				
2,4,6-Trichlorophenol	228.2	100	400	0	57	50-115	0				
2,4-Dinitrotoluene	297.2	100	400	0	74.3	50-120	0				
Hexachloro-1,3-butadiene	212.8	100	400	0	53.2	25-105	0				
Hexachlorobenzene	254.2	100	400	0	63.6	50-110	0				
Hexachloroethane	231	100	400	0	57.8	30-95	0				
m-Cresol	171.6	100	400	0	42.9	30-110	0				
Nitrobenzene	238.2	100	400	0	59.6	45-110	0				
o-Cresol	205.6	100	400	0	51.4	40-110	0				
p-Cresol	171.6	100	400	0	42.9	30-110	0				
Pentachlorophenol	271.4	400	400	0	67.8	40-115	0			J	
Pyridine	138.8	400	400	0	34.7	10-80	0			J	
Surr: 2,4,6-Tribromophenol	661	0	1000	0	66.1	38-115	0				
Surr: 2-Fluorobiphenyl	558.8	0	1000	0	55.9	32-100	0				
Surr: 2-Fluorophenol	365	0	1000	0	36.5	22-59	0				
Surr: 4-Terphenyl-d14	884.8	0	1000	0	88.5	23-112	0				
Surr: Nitrobenzene-d5	546	0	1000	0	54.6	31-93	0				
Surr: Phenol-d6	222.6	0	1000	0	22.3	13-36	0				

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52727** Instrument ID **SVMS7** Method: **SW8270**

MSD				Sample ID: 13101220-02A MSD				Units: µg/L		Analysis Date: 10/28/13 07:00 PM	
Client ID:			Run ID: SVMS7_131028A			SeqNo: 2512234		Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,4-Dichlorobenzene	233.6	100	400	0	58.4	30-110	222.4	4.91	30		
2,4,5-Trichlorophenol	274.4	100	400	0	68.6	50-110	267.2	2.66	30		
2,4,6-Trichlorophenol	230.8	100	400	0	57.7	50-115	228.2	1.13	30		
2,4-Dinitrotoluene	320	100	400	0	80	50-120	297.2	7.39	30		
Hexachloro-1,3-butadiene	223.8	100	400	0	56	25-105	212.8	5.04	30		
Hexachlorobenzene	266.8	100	400	0	66.7	50-110	254.2	4.84	30		
Hexachloroethane	239	100	400	0	59.8	30-95	231	3.4	30		
m-Cresol	184.6	100	400	0	46.2	30-110	171.6	7.3	30		
Nitrobenzene	248.8	100	400	0	62.2	45-110	238.2	4.35	30		
o-Cresol	222.6	100	400	0	55.6	40-110	205.6	7.94	30		
p-Cresol	184.6	100	400	0	46.2	30-110	171.6	7.3	30		
Pentachlorophenol	273.4	400	400	0	68.4	40-115	271.4	0	30	J	
Pyridine	141.2	400	400	0	35.3	10-80	138.8	0	30	J	
Surr: 2,4,6-Tribromophenol	676.2	0	1000	0	67.6	38-115	661	2.27	0		
Surr: 2-Fluorobiphenyl	544.8	0	1000	0	54.5	32-100	558.8	2.54	0		
Surr: 2-Fluorophenol	409.4	0	1000	0	40.9	22-59	365	11.5	0		
Surr: 4-Terphenyl-d14	861.6	0	1000	0	86.2	23-112	884.8	2.66	0		
Surr: Nitrobenzene-d5	559.2	0	1000	0	55.9	31-93	546	2.39	0		
Surr: Phenol-d6	258.4	0	1000	0	25.8	13-36	222.6	14.9	0		

The following samples were analyzed in this batch:

13101246-54B

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52731** Instrument ID **SVMS6** Method: **SW8270**

MBLK		Sample ID: SBLKS1-52731-52731				Units: µg/Kg		Analysis Date: 10/29/13 11:19 AM		
Client ID:		Run ID: SVMS6_131029A				SeqNo: 2512791		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	U	6.7								
Acenaphthene	U	6.7								
Acenaphthylene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(g,h,i)perylene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Phenanthrene	U	6.7								
Pyrene	U	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	<i>1496</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>89.8</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>2168</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>130</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1205</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>72.3</i>	<i>37-107</i>	<i>0</i>			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52731** Instrument ID **SVMS6** Method: **SW8270**

LCS		Sample ID: SLCSS1-52731-52731				Units: µg/Kg		Analysis Date: 10/29/13 11:39 AM		
Client ID:		Run ID: SVMS6_131029A				SeqNo: 2512792		Prep Date: 10/28/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	508.7	6.7	666.7	0	76.3	45-105	0			
Acenaphthene	474	6.7	666.7	0	71.1	45-110	0			
Acenaphthylene	498.7	6.7	666.7	0	74.8	45-105	0			
Anthracene	557.7	6.7	666.7	0	83.6	55-105	0			
Benzo(a)anthracene	594	6.7	666.7	0	89.1	50-110	0			
Benzo(a)pyrene	635.7	6.7	666.7	0	95.3	50-110	0			
Benzo(b)fluoranthene	660.3	6.7	666.7	0	99	45-115	0			
Benzo(g,h,i)perylene	625.7	6.7	666.7	0	93.8	40-125	0			
Benzo(k)fluoranthene	580	6.7	666.7	0	87	45-115	0			
Chrysene	522	6.7	666.7	0	78.3	55-110	0			
Dibenzo(a,h)anthracene	599.7	6.7	666.7	0	89.9	40-125	0			
Fluoranthene	592.7	6.7	666.7	0	88.9	55-115	0			
Fluorene	492.3	6.7	666.7	0	73.8	50-110	0			
Indeno(1,2,3-cd)pyrene	618.7	6.7	666.7	0	92.8	40-120	0			
Naphthalene	487.3	6.7	666.7	0	73.1	40-105	0			
Phenanthrene	574.3	6.7	666.7	0	86.1	50-110	0			
Pyrene	625.7	6.7	666.7	0	93.8	45-125	0			
<i>Surr: 2-Fluorobiphenyl</i>	<i>1355</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>81.3</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1998</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>120</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1172</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>70.3</i>	<i>37-107</i>	<i>0</i>			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52731** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 13101246-48A MS			Units: µg/Kg		Analysis Date: 10/29/13 11:59 AM	
Client ID: SO-017360-102313-MR-066				Run ID: SVMS6_131029A			SeqNo: 2512793		Prep Date: 10/28/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	364.1	13	1284	0	28.3	45-105	0			S
Acenaphthene	319.2	13	1284	0	24.8	45-110	0			S
Acenaphthylene	312.7	13	1284	0	24.3	45-105	0			S
Anthracene	351.9	13	1284	0	27.4	55-105	0			S
Benzo(a)anthracene	387.9	13	1284	56.48	25.8	50-110	0			S
Benzo(a)pyrene	426.4	13	1284	67.97	27.9	50-110	0			S
Benzo(b)fluoranthene	513.7	13	1284	98.84	32.3	45-115	0			S
Benzo(g,h,i)perylene	344.8	13	1284	44	23.4	40-125	0			S
Benzo(k)fluoranthene	377.6	13	1284	26.6	27.3	45-115	0			S
Chrysene	335.2	13	1284	49.91	22.2	55-110	0			S
Dibenzo(a,h)anthracene	329.4	13	1284	20.69	24	40-125	0			S
Fluoranthene	432.2	13	1284	94.57	26.3	55-115	0			S
Fluorene	301.8	13	1284	0	23.5	50-110	0			S
Indeno(1,2,3-cd)pyrene	371.2	13	1284	46.63	25.3	40-120	0			S
Naphthalene	344.8	13	1284	0	26.8	40-105	0			S
Phenanthrene	395.6	13	1284	37.11	27.9	50-110	0			S
Pyrene	438	13	1284	86.69	27.3	45-125	0			S
<i>Surr: 2-Fluorobiphenyl</i>	<i>784.1</i>	0	<i>3211</i>	0	<i>24.4</i>	<i>12-100</i>	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1040</i>	0	<i>3211</i>	0	<i>32.4</i>	<i>25-137</i>	0			
<i>Surr: Nitrobenzene-d5</i>	<i>791.8</i>	0	<i>3211</i>	0	<i>24.7</i>	<i>37-107</i>	0			S

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52731** Instrument ID **SVMS6** Method: **SW8270**

MSD				Sample ID: 13101246-48A MSD			Units: µg/Kg		Analysis Date: 10/29/13 12:18 PM		
Client ID: SO-017360-102313-MR-066			Run ID: SVMS6_131029A			SeqNo:2512794		Prep Date: 10/28/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2-Methylnaphthalene	953.9	13	1261	0	75.6	45-105	364.1	89.5	30	R	
Acenaphthene	931.8	13	1261	0	73.9	45-110	319.2	98	30	R	
Acenaphthylene	981	13	1261	0	77.8	45-105	312.7	103	30	R	
Anthracene	1062	13	1261	0	84.2	55-105	351.9	100	30	R	
Benzo(a)anthracene	1207	13	1261	56.48	91.2	50-110	387.9	103	30	R	
Benzo(a)pyrene	1269	13	1261	67.97	95.2	50-110	426.4	99.4	30	R	
Benzo(b)fluoranthene	1371	13	1261	98.84	101	45-115	513.7	91	30	R	
Benzo(g,h,i)perylene	1154	13	1261	44	88.1	40-125	344.8	108	30	R	
Benzo(k)fluoranthene	1175	13	1261	26.6	91	45-115	377.6	103	30	R	
Chrysene	1066	13	1261	49.91	80.5	55-110	335.2	104	30	R	
Dibenzo(a,h)anthracene	1084	13	1261	20.69	84.4	40-125	329.4	107	30	R	
Fluoranthene	1249	13	1261	94.57	91.5	55-115	432.2	97.2	30	R	
Fluorene	962.7	13	1261	0	76.3	50-110	301.8	105	30	R	
Indeno(1,2,3-cd)pyrene	1119	13	1261	46.63	85	40-120	371.2	100	30	R	
Naphthalene	907.3	13	1261	0	71.9	40-105	344.8	89.8	30	R	
Phenanthrene	1159	13	1261	37.11	89	50-110	395.6	98.2	30	R	
Pyrene	1321	13	1261	86.69	97.9	45-125	438	100	30	R	
Surr: 2-Fluorobiphenyl	2634	0	3152	0	83.6	12-100	784.1	108	40	R	
Surr: 4-Terphenyl-d14	3801	0	3152	0	121	25-137	1040	114	40	R	
Surr: Nitrobenzene-d5	2159	0	3152	0	68.5	37-107	791.8	92.7	40	R	

The following samples were analyzed in this batch:

13101246-48A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52677** Instrument ID **VMS8** Method: **SW8260B**

MBLK		Sample ID: MBLK-52677-52677				Units: µg/Kg		Analysis Date: 10/25/13 07:09 PM		
Client ID:		Run ID: VMS8_131025A				SeqNo: 2508109		Prep Date: 10/25/13		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	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52677	Instrument ID VMS8	Method: SW8260B						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1023</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1019</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>973.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.4</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>951.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.2</i>	<i>70-130</i>	<i>0</i>	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52677** Instrument ID **VMS8** Method: **SW8260B**

LCS Sample ID: LCS-52677-52677				Units: µg/Kg			Analysis Date: 10/25/13 04:19 PM			
Client ID:		Run ID: VMS8_131025A		SeqNo: 2508108		Prep Date: 10/25/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1049	30	1000	0	105	70-135	0			
1,1,2,2-Tetrachloroethane	951.5	30	1000	0	95.2	55-130	0			
1,1,2-Trichloroethane	925	30	1000	0	92.5	60-125	0			
1,1-Dichloroethane	994.5	30	1000	0	99.4	75-125	0			
1,1-Dichloroethene	950	30	1000	0	95	65-135	0			
1,2,4-Trichlorobenzene	1012	30	1000	0	101	65-130	0			
1,2-Dibromo-3-chloropropane	901	30	1000	0	90.1	40-135	0			
1,2-Dibromoethane	1022	30	1000	0	102	70-125	0			
1,2-Dichlorobenzene	947.5	30	1000	0	94.8	75-120	0			
1,2-Dichloroethane	1044	30	1000	0	104	70-135	0			
1,2-Dichloropropane	958	30	1000	0	95.8	70-120	0			
1,3-Dichlorobenzene	940.5	30	1000	0	94	70-125	0			
1,4-Dichlorobenzene	952.5	30	1000	0	95.2	70-125	0			
2-Butanone	993.5	200	1000	0	99.4	30-160	0			
2-Hexanone	925.5	30	1000	0	92.6	45-145	0			
4-Methyl-2-pentanone	1237	30	1000	0	124	45-145	0			
Acetone	1116	100	1000	0	112	20-160	0			
Benzene	968.5	30	1000	0	96.8	75-125	0			
Bromodichloromethane	999	30	1000	0	99.9	70-130	0			
Bromoform	815.5	30	1000	0	81.6	55-135	0			
Bromomethane	790.5	75	1000	0	79	30-160	0			
Carbon disulfide	1064	30	1000	0	106	45-160	0			
Carbon tetrachloride	1002	30	1000	0	100	65-135	0			
Chlorobenzene	920	30	1000	0	92	75-125	0			
Chloroethane	930	100	1000	0	93	40-155	0			
Chloroform	1052	30	1000	0	105	70-125	0			
Chloromethane	930.5	100	1000	0	93	50-130	0			
cis-1,2-Dichloroethene	993	30	1000	0	99.3	65-125	0			
cis-1,3-Dichloropropene	1038	30	1000	0	104	70-125	0			
Dibromochloromethane	898	30	1000	0	89.8	65-135	0			
Dichlorodifluoromethane	783.5	30	1000	0	78.4	35-135	0			
Ethylbenzene	951.5	30	1000	0	95.2	75-125	0			
Isopropylbenzene	936.5	30	1000	0	93.6	75-130	0			
Methyl tert-butyl ether	1100	30	1000	0	110	75-125	0			
Methylene chloride	977.5	30	1000	0	97.8	55-145	0			
Styrene	955	30	1000	0	95.5	75-125	0			
Tetrachloroethene	1080	30	1000	0	108	64-140	0			
Toluene	927	30	1000	0	92.7	70-125	0			
trans-1,2-Dichloroethene	1068	30	1000	0	107	65-135	0			
trans-1,3-Dichloropropene	989.5	30	1000	0	99	65-125	0			
Trichloroethene	935.5	30	1000	0	93.6	75-125	0			
Trichlorofluoromethane	906	30	1000	0	90.6	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52677	Instrument ID VMS8		Method: SW8260B				
Vinyl chloride	852.5	30	1000	0	85.2	60-125	0
Xylenes, Total	2854	90	3000	0	95.1	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1015</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1014</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>986.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.6</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>959</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.9</i>	<i>70-130</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52677** Instrument ID **VMS8** Method: **SW8260B**

MS				Sample ID: 13101246-48C MS			Units: µg/Kg		Analysis Date: 10/29/13 04:57 AM	
Client ID: SO-017360-102313-MR-066				Run ID: VMS5_131028A			SeqNo: 2512411		Prep Date: 10/25/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1026	31	1048	0	97.9	70-135	0			
1,1,2,2-Tetrachloroethane	948.6	31	1048	0	90.5	55-130	0			
1,1,2-Trichloroethane	1019	31	1048	0	97.2	60-125	0			
1,1-Dichloroethane	1016	31	1048	0	96.9	75-125	0			
1,1-Dichloroethene	1094	31	1048	0	104	65-135	0			
1,2,4-Trichlorobenzene	870.5	31	1048	0	83	65-130	0			
1,2-Dibromo-3-chloropropane	625.8	31	1048	0	59.7	40-135	0			
1,2-Dibromoethane	990	31	1048	0	94.4	70-125	0			
1,2-Dichlorobenzene	1006	31	1048	0	96	75-120	0			
1,2-Dichloroethane	990	31	1048	0	94.4	70-135	0			
1,2-Dichloropropane	953.9	31	1048	0	91	70-120	0			
1,3-Dichlorobenzene	1006	31	1048	0	96	70-125	0			
1,4-Dichlorobenzene	989.5	31	1048	0	94.4	70-125	0			
2-Butanone	1167	210	1048	0	111	30-160	0			
2-Hexanone	1025	31	1048	0	97.8	45-145	0			
4-Methyl-2-pentanone	1123	31	1048	0	107	45-145	0			
Acetone	622.6	100	1048	0	59.4	20-160	0			
Benzene	999	31	1048	0	95.3	75-125	0			
Bromodichloromethane	827	31	1048	0	78.9	70-130	0			
Bromoform	627.4	31	1048	0	59.8	55-135	0			
Bromomethane	760.5	79	1048	0	72.6	30-160	0			
Carbon disulfide	882.1	31	1048	0	84.2	45-160	0			
Carbon tetrachloride	935.5	31	1048	0	89.2	65-135	0			
Chlorobenzene	1007	31	1048	0	96.1	75-125	0			
Chloroethane	1124	100	1048	0	107	40-155	0			
Chloroform	956.5	31	1048	0	91.2	70-125	0			
Chloromethane	1119	100	1048	0	107	50-130	0			
cis-1,2-Dichloroethene	941.8	31	1048	0	89.8	65-125	0			
cis-1,3-Dichloropropene	920.3	31	1048	0	87.8	70-125	0			
Dibromochloromethane	692.3	31	1048	0	66	65-135	0			
Dichlorodifluoromethane	899.4	31	1048	0	85.8	35-135	0			
Ethylbenzene	1038	31	1048	0	99	75-125	0			
Isopropylbenzene	1063	31	1048	0	101	75-130	0			
Methyl tert-butyl ether	1024	31	1048	0	97.7	75-125	0			
Methylene chloride	1104	31	1048	0	105	55-145	0			
Styrene	1035	31	1048	0	98.8	75-125	0			
Tetrachloroethene	1045	31	1048	0	99.7	64-140	0			
Toluene	1007	31	1048	0	96.1	70-125	0			
trans-1,2-Dichloroethene	1028	31	1048	0	98.1	65-135	0			
trans-1,3-Dichloropropene	886.8	31	1048	0	84.6	65-125	0			
Trichloroethene	1667	31	1048	1053	58.5	75-125	0			S
Trichlorofluoromethane	1117	31	1048	0	107	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52677	Instrument ID VMS8			Method: SW8260B			
Vinyl chloride	991.6	31	1048	0	94.6	60-125	0
Xylenes, Total	3109	94	3145	0	98.9	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1040</i>	<i>0</i>	<i>1048</i>	<i>0</i>	<i>99.2</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1069</i>	<i>0</i>	<i>1048</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1014</i>	<i>0</i>	<i>1048</i>	<i>0</i>	<i>96.8</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1055</i>	<i>0</i>	<i>1048</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52677** Instrument ID **VMS8** Method: **SW8260B**

MSD				Sample ID: 13101246-48C MSD			Units: µg/Kg		Analysis Date: 10/29/13 05:20 AM		
Client ID: SO-017360-102313-MR-066			Run ID: VMS5_131028A			SeqNo: 2512412		Prep Date: 10/25/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	1010	31	1048	0	96.4	70-135	1026	1.6	30		
1,1,2,2-Tetrachloroethane	970.6	31	1048	0	92.6	55-130	948.6	2.29	30		
1,1,2-Trichloroethane	1011	31	1048	0	96.4	60-125	1019	0.775	30		
1,1-Dichloroethane	996.9	31	1048	0	95.1	75-125	1016	1.87	30		
1,1-Dichloroethene	1100	31	1048	0	105	65-135	1094	0.526	30		
1,2,4-Trichlorobenzene	1015	31	1048	0	96.8	65-130	870.5	15.3	30		
1,2-Dibromo-3-chloropropane	627.9	31	1048	0	59.9	40-135	625.8	0.334	30		
1,2-Dibromoethane	1004	31	1048	0	95.8	70-125	990	1.37	30		
1,2-Dichlorobenzene	1054	31	1048	0	101	75-120	1006	4.68	30		
1,2-Dichloroethane	984.8	31	1048	0	94	70-135	990	0.531	30		
1,2-Dichloropropane	987.4	31	1048	0	94.2	70-120	953.9	3.46	30		
1,3-Dichlorobenzene	1044	31	1048	0	99.6	70-125	1006	3.63	30		
1,4-Dichlorobenzene	1018	31	1048	0	97.2	70-125	989.5	2.87	30		
2-Butanone	1140	210	1048	0	109	30-160	1167	2.27	30		
2-Hexanone	976.9	31	1048	0	93.2	45-145	1025	4.77	30		
4-Methyl-2-pentanone	1152	31	1048	0	110	45-145	1123	2.58	30		
Acetone	645.7	100	1048	0	61.6	20-160	622.6	3.64	30		
Benzene	988.5	31	1048	0	94.3	75-125	999	1.05	30		
Bromodichloromethane	807.7	31	1048	0	77	70-130	827	2.37	30		
Bromoform	633.6	31	1048	0	60.4	55-135	627.4	0.998	30		
Bromomethane	691.8	79	1048	0	66	30-160	760.5	9.46	30		
Carbon disulfide	865.8	31	1048	0	82.6	45-160	882.1	1.86	30		
Carbon tetrachloride	939.2	31	1048	0	89.6	65-135	935.5	0.391	30		
Chlorobenzene	999.5	31	1048	0	95.4	75-125	1007	0.783	30		
Chloroethane	1106	100	1048	0	106	40-155	1124	1.65	30		
Chloroform	978.5	31	1048	0	93.4	70-125	956.5	2.28	30		
Chloromethane	1094	100	1048	0	104	50-130	1119	2.27	30		
cis-1,2-Dichloroethene	957	31	1048	0	91.3	65-125	941.8	1.6	30		
cis-1,3-Dichloropropene	946.5	31	1048	0	90.3	70-125	920.3	2.81	30		
Dibromochloromethane	702.3	31	1048	0	67	65-135	692.3	1.43	30		
Dichlorodifluoromethane	871.1	31	1048	0	83.1	35-135	899.4	3.2	30		
Ethylbenzene	1056	31	1048	0	101	75-125	1038	1.65	30		
Isopropylbenzene	1104	31	1048	0	105	75-130	1063	3.72	30		
Methyl tert-butyl ether	1042	31	1048	0	99.4	75-125	1024	1.73	30		
Methylene chloride	1115	31	1048	0	106	55-145	1104	0.992	30		
Styrene	1036	31	1048	0	98.8	75-125	1035	0.101	30		
Tetrachloroethene	1008	31	1048	0	96.2	64-140	1045	3.57	30		
Toluene	1004	31	1048	0	95.8	70-125	1007	0.313	30		
trans-1,2-Dichloroethene	1022	31	1048	0	97.5	65-135	1028	0.613	30		
trans-1,3-Dichloropropene	906.2	31	1048	0	86.4	65-125	886.8	2.16	30		
Trichloroethene	1653	31	1048	1053	57.2	75-125	1667	0.821	30	S	
Trichlorofluoromethane	1177	31	1048	0	112	25-185	1117	5.21	30		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52677	Instrument ID VMS8	Method: SW8260B							
Vinyl chloride	979.6	31	1048	0	93.4	60-125	991.6	1.22	30
Xylenes, Total	3137	94	3145	0	99.8	75-125	3109	0.889	30
Surr: 1,2-Dichloroethane-d4	1047	0	1048	0	99.8	70-130	1040	0.603	30
Surr: 4-Bromofluorobenzene	1064	0	1048	0	102	70-130	1069	0.442	30
Surr: Dibromofluoromethane	1008	0	1048	0	96.2	70-130	1014	0.57	30
Surr: Toluene-d8	1046	0	1048	0	99.8	70-130	1055	0.848	30

The following samples were analyzed in this batch:	13101246-40C	13101246-41C	13101246-42C
	13101246-43C	13101246-44C	13101246-45C
	13101246-46C	13101246-47C	13101246-48C
	13101246-50C	13101246-51C	13101246-52C
	13101246-53C	13101246-55C	13101246-56C
	13101246-57C	13101246-58C	13101246-59C
	13101246-62A		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52808** Instrument ID **VMS8** Method: **SW8260B**

MBLK		Sample ID: MBLK-52808-52808				Units: µg/Kg		Analysis Date: 10/31/13 10:08 AM		
Client ID:		Run ID: VMS8_131030B				SeqNo: 2515899		Prep Date: 10/30/13		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	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52808	Instrument ID VMS8	Method: SW8260B						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1053</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1037</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>976</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.6</i>	<i>70-130</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>999</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.9</i>	<i>70-130</i>	<i>0</i>	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52808** Instrument ID **VMS8** Method: **SW8260B**

LCS Sample ID: LCS-52808-52808				Units: µg/Kg			Analysis Date: 10/30/13 12:41 PM			
Client ID:		Run ID: VMS8_131030A		SeqNo: 2515367		Prep Date: 10/30/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	972.5	30	1000	0	97.2	70-135	0			
1,1,2,2-Tetrachloroethane	1029	30	1000	0	103	55-130	0			
1,1,2-Trichloroethane	953	30	1000	0	95.3	60-125	0			
1,1-Dichloroethane	916	30	1000	0	91.6	75-125	0			
1,1-Dichloroethene	833.5	30	1000	0	83.4	65-135	0			
1,2,4-Trichlorobenzene	968.5	30	1000	0	96.8	65-130	0			
1,2-Dibromo-3-chloropropane	1053	30	1000	0	105	40-135	0			
1,2-Dibromoethane	1026	30	1000	0	103	70-125	0			
1,2-Dichlorobenzene	939	30	1000	0	93.9	75-120	0			
1,2-Dichloroethane	996.5	30	1000	0	99.6	70-135	0			
1,2-Dichloropropane	912.5	30	1000	0	91.2	70-120	0			
1,3-Dichlorobenzene	907.5	30	1000	0	90.8	70-125	0			
1,4-Dichlorobenzene	938	30	1000	0	93.8	70-125	0			
2-Butanone	1050	200	1000	0	105	30-160	0			
2-Hexanone	1068	30	1000	0	107	45-145	0			
4-Methyl-2-pentanone	1434	30	1000	0	143	45-145	0			
Acetone	1058	100	1000	0	106	20-160	0			
Benzene	890.5	30	1000	0	89	75-125	0			
Bromodichloromethane	958	30	1000	0	95.8	70-130	0			
Bromoform	832.5	30	1000	0	83.2	55-135	0			
Bromomethane	556	75	1000	0	55.6	30-160	0			
Carbon disulfide	888	30	1000	0	88.8	45-160	0			
Carbon tetrachloride	887	30	1000	0	88.7	65-135	0			
Chlorobenzene	901.5	30	1000	0	90.2	75-125	0			
Chloroethane	814.5	100	1000	0	81.4	40-155	0			
Chloroform	968.5	30	1000	0	96.8	70-125	0			
Chloromethane	710	100	1000	0	71	50-130	0			
cis-1,2-Dichloroethene	951	30	1000	0	95.1	65-125	0			
cis-1,3-Dichloropropene	1012	30	1000	0	101	70-125	0			
Dibromochloromethane	887.5	30	1000	0	88.8	65-135	0			
Dichlorodifluoromethane	463.5	30	1000	0	46.4	35-135	0			
Ethylbenzene	918.5	30	1000	0	91.8	75-125	0			
Isopropylbenzene	886	30	1000	0	88.6	75-130	0			
Methyl tert-butyl ether	1082	30	1000	0	108	75-125	0			
Methylene chloride	932	30	1000	0	93.2	55-145	0			
Styrene	943.5	30	1000	0	94.4	75-125	0			
Tetrachloroethene	1000	30	1000	0	100	64-140	0			
Toluene	894.5	30	1000	0	89.4	70-125	0			
trans-1,2-Dichloroethene	942.5	30	1000	0	94.2	65-135	0			
trans-1,3-Dichloropropene	921.5	30	1000	0	92.2	65-125	0			
Trichloroethene	852.5	30	1000	0	85.2	75-125	0			
Trichlorofluoromethane	727.5	30	1000	0	72.8	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52808	Instrument ID VMS8		Method: SW8260B				
Vinyl chloride	637	30	1000	0	63.7	60-125	0
Xylenes, Total	2758	90	3000	0	91.9	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1056</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>106</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1020</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1006</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>985</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.5</i>	<i>70-130</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52808** Instrument ID **VMS8** Method: **SW8260B**

MS				Sample ID: 13101246-16C MS			Units: µg/Kg		Analysis Date: 11/05/13 11:53 AM	
Client ID: SO-017360-102213-MR-032				Run ID: VMS6_131104A			SeqNo: 2523227		Prep Date: 10/30/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1060	34	1140	0	93	70-135	0			
1,1,2,2-Tetrachloroethane	1227	34	1140	0	108	55-130	0			
1,1,2-Trichloroethane	1095	34	1140	0	96	60-125	0			
1,1-Dichloroethane	995.4	34	1140	0	87.3	75-125	0			
1,1-Dichloroethene	1003	34	1140	0	88	65-135	0			
1,2,4-Trichlorobenzene	1238	34	1140	0	109	65-130	0			
1,2-Dibromo-3-chloropropane	1059	34	1140	0	92.9	40-135	0			
1,2-Dibromoethane	1258	34	1140	0	110	70-125	0			
1,2-Dichlorobenzene	1190	34	1140	0	104	75-120	0			
1,2-Dichloroethane	1126	34	1140	0	98.8	70-135	0			
1,2-Dichloropropane	1068	34	1140	0	93.7	70-120	0			
1,3-Dichlorobenzene	1158	34	1140	0	102	70-125	0			
1,4-Dichlorobenzene	1155	34	1140	0	101	70-125	0			
2-Butanone	1318	230	1140	0	116	30-160	0			
2-Hexanone	1222	34	1140	0	107	45-145	0			
4-Methyl-2-pentanone	1563	34	1140	0	137	45-145	0			
Acetone	1353	110	1140	0	119	20-160	0			
Benzene	1076	34	1140	0	94.4	75-125	0			
Bromodichloromethane	1023	34	1140	0	89.7	70-130	0			
Bromoform	894	34	1140	0	78.4	55-135	0			
Bromomethane	1015	86	1140	0	89	30-160	0			
Carbon disulfide	976.1	34	1140	0	85.6	45-160	0			
Carbon tetrachloride	994.3	34	1140	0	87.2	65-135	0			
Chlorobenzene	1121	34	1140	0	98.3	75-125	0			
Chloroethane	868.9	110	1140	0	76.2	40-155	0			
Chloroform	1032	34	1140	0	90.6	70-125	0			
Chloromethane	928.2	110	1140	0	81.4	50-130	0			
cis-1,2-Dichloroethene	939	34	1140	0	82.4	65-125	0			
cis-1,3-Dichloropropene	1062	34	1140	0	93.2	70-125	0			
Dibromochloromethane	886.5	34	1140	0	77.8	65-135	0			
Dichlorodifluoromethane	665.9	34	1140	0	58.4	35-135	0			
Ethylbenzene	1125	34	1140	0	98.6	75-125	0			
Isopropylbenzene	1148	34	1140	0	101	75-130	0			
Methyl tert-butyl ether	1124	34	1140	0	98.6	75-125	0			
Methylene chloride	1113	34	1140	0	97.6	55-145	0			
Styrene	1183	34	1140	0	104	75-125	0			
Tetrachloroethene	1099	34	1140	0	96.4	64-140	0			
Toluene	1082	34	1140	0	94.9	70-125	0			
trans-1,2-Dichloroethene	1023	34	1140	0	89.8	65-135	0			
trans-1,3-Dichloropropene	1086	34	1140	0	95.2	65-125	0			
Trichloroethene	1068	34	1140	0	93.6	75-125	0			
Trichlorofluoromethane	882	34	1140	0	77.4	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52808	Instrument ID VMS8		Method: SW8260B				
Vinyl chloride	836.9	34	1140	0	73.4	60-125	0
Xylenes, Total	3399	100	3421	0	99.4	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1122</i>	<i>0</i>	<i>1140</i>	<i>0</i>	<i>98.4</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1138</i>	<i>0</i>	<i>1140</i>	<i>0</i>	<i>99.8</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1117</i>	<i>0</i>	<i>1140</i>	<i>0</i>	<i>98</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1108</i>	<i>0</i>	<i>1140</i>	<i>0</i>	<i>97.2</i>	<i>70-130</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52808** Instrument ID **VMS8** Method: **SW8260B**

MSD				Sample ID: 13101246-16C MSD				Units: µg/Kg		Analysis Date: 11/05/13 12:17 PM	
Client ID: SO-017360-102213-MR-032			Run ID: VMS6_131104A			SeqNo: 2523228		Prep Date: 10/30/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	1026	34	1140	0	90	70-135	1060	3.28	30		
1,1,2,2-Tetrachloroethane	1190	34	1140	0	104	55-130	1227	3.07	30		
1,1,2-Trichloroethane	1078	34	1140	0	94.6	60-125	1095	1.52	30		
1,1-Dichloroethane	960.1	34	1140	0	84.2	75-125	995.4	3.62	30		
1,1-Dichloroethene	929.3	34	1140	0	81.5	65-135	1003	7.61	30		
1,2,4-Trichlorobenzene	1278	34	1140	0	112	65-130	1238	3.17	30		
1,2-Dibromo-3-chloropropane	1062	34	1140	0	93.1	40-135	1059	0.215	30		
1,2-Dibromoethane	1257	34	1140	0	110	70-125	1258	0.0907	30		
1,2-Dichlorobenzene	1161	34	1140	0	102	75-120	1190	2.52	30		
1,2-Dichloroethane	1088	34	1140	0	95.4	70-135	1126	3.4	30		
1,2-Dichloropropane	1013	34	1140	0	88.8	70-120	1068	5.37	30		
1,3-Dichlorobenzene	1119	34	1140	0	98.2	70-125	1158	3.41	30		
1,4-Dichlorobenzene	1123	34	1140	0	98.5	70-125	1155	2.8	30		
2-Butanone	1328	230	1140	0	116	30-160	1318	0.776	30		
2-Hexanone	1180	34	1140	0	104	45-145	1222	3.51	30		
4-Methyl-2-pentanone	1578	34	1140	0	138	45-145	1563	0.908	30		
Acetone	1362	110	1140	0	119	20-160	1353	0.63	30		
Benzene	1033	34	1140	0	90.6	75-125	1076	4.06	30		
Bromodichloromethane	1007	34	1140	0	88.3	70-130	1023	1.57	30		
Bromoform	901.9	34	1140	0	79.1	55-135	894	0.889	30		
Bromomethane	972.6	86	1140	0	85.3	30-160	1015	4.25	30		
Carbon disulfide	883.7	34	1140	0	77.5	45-160	976.1	9.93	30		
Carbon tetrachloride	911.6	34	1140	0	80	65-135	994.3	8.67	30		
Chlorobenzene	1082	34	1140	0	94.8	75-125	1121	3.57	30		
Chloroethane	816.4	110	1140	0	71.6	40-155	868.9	6.22	30		
Chloroform	989.2	34	1140	0	86.8	70-125	1032	4.29	30		
Chloromethane	851.2	110	1140	0	74.6	50-130	928.2	8.65	30		
cis-1,2-Dichloroethene	892.2	34	1140	0	78.2	65-125	939	5.11	30		
cis-1,3-Dichloropropene	1041	34	1140	0	91.3	70-125	1062	2.01	30		
Dibromochloromethane	870.6	34	1140	0	76.4	65-135	886.5	1.82	30		
Dichlorodifluoromethane	624.9	34	1140	0	54.8	35-135	665.9	6.36	30		
Ethylbenzene	1084	34	1140	0	95.1	75-125	1125	3.66	30		
Isopropylbenzene	1120	34	1140	0	98.2	75-130	1148	2.46	30		
Methyl tert-butyl ether	1082	34	1140	0	94.9	75-125	1124	3.77	30		
Methylene chloride	1070	34	1140	0	93.8	55-145	1113	3.97	30		
Styrene	1137	34	1140	0	99.8	75-125	1183	3.93	30		
Tetrachloroethene	1066	34	1140	0	93.5	64-140	1099	3.05	30		
Toluene	1043	34	1140	0	91.4	70-125	1082	3.7	30		
trans-1,2-Dichloroethene	969.2	34	1140	0	85	65-135	1023	5.44	30		
trans-1,3-Dichloropropene	1052	34	1140	0	92.3	65-125	1086	3.15	30		
Trichloroethene	1030	34	1140	0	90.4	75-125	1068	3.59	30		
Trichlorofluoromethane	838.7	34	1140	0	73.6	25-185	882	5.04	30		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52808	Instrument ID VMS8		Method: SW8260B						
Vinyl chloride	779.9	34	1140	0	68.4	60-125	836.9	7.05	30
Xylenes, Total	3295	100	3421	0	96.3	75-125	3399	3.12	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1091</i>	<i>0</i>	<i>1140</i>	<i>0</i>	<i>95.7</i>	<i>70-130</i>	<i>1122</i>	<i>2.78</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1131</i>	<i>0</i>	<i>1140</i>	<i>0</i>	<i>99.2</i>	<i>70-130</i>	<i>1138</i>	<i>0.653</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>1105</i>	<i>0</i>	<i>1140</i>	<i>0</i>	<i>97</i>	<i>70-130</i>	<i>1117</i>	<i>1.08</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>1107</i>	<i>0</i>	<i>1140</i>	<i>0</i>	<i>97</i>	<i>70-130</i>	<i>1108</i>	<i>0.154</i>	<i>30</i>

The following samples were analyzed in this batch:

13101246-04C	13101246-05C	13101246-06C
13101246-07C	13101246-08C	13101246-09C
13101246-10C	13101246-11C	13101246-12C
13101246-14C	13101246-15C	13101246-16C
13101246-17C	13101246-19C	13101246-20C
13101246-21C	13101246-23C	13101246-24C

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52888** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-52888-52888				Units: µg/Kg		Analysis Date: 11/01/13 04:16 PM		
Client ID:		Run ID: VMS6_131101A				SeqNo: 2519010		Prep Date: 11/01/13		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	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52888		Instrument ID VMS6		Method: SW8260B				
trans-1,2-Dichloroethene		U	30					
trans-1,3-Dichloropropene		U	30					
Trichloroethene		U	30					
Trichlorofluoromethane		U	30					
Vinyl chloride		U	30					
Xylenes, Total		U	90					
Surr: 1,2-Dichloroethane-d4		984	0	1000	0	98.4	70-130	0
Surr: 4-Bromofluorobenzene		989.5	0	1000	0	99	70-130	0
Surr: Dibromofluoromethane		914.5	0	1000	0	91.4	70-130	0
Surr: Toluene-d8		990	0	1000	0	99	70-130	0

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52888** Instrument ID **VMS6** Method: **SW8260B**

LCS Sample ID: LCS-52888-52888				Units: µg/Kg		Analysis Date: 11/01/13 03:00 PM				
Client ID:		Run ID: VMS6_131101A		SeqNo: 2519009		Prep Date: 11/01/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	969	30	1000	0	96.9	70-135	0			
1,1,2,2-Tetrachloroethane	1009	30	1000	0	101	55-130	0			
1,1,2-Trichloroethane	977	30	1000	0	97.7	60-125	0			
1,1-Dichloroethane	1060	30	1000	0	106	75-125	0			
1,1-Dichloroethene	1038	30	1000	0	104	65-135	0			
1,2,4-Trichlorobenzene	902.5	30	1000	0	90.2	65-130	0			
1,2-Dibromo-3-chloropropane	706	30	1000	0	70.6	40-135	0			
1,2-Dibromoethane	994	30	1000	0	99.4	70-125	0			
1,2-Dichlorobenzene	950	30	1000	0	95	75-120	0			
1,2-Dichloroethane	1008	30	1000	0	101	70-135	0			
1,2-Dichloropropane	1016	30	1000	0	102	70-120	0			
1,3-Dichlorobenzene	956	30	1000	0	95.6	70-125	0			
1,4-Dichlorobenzene	949.5	30	1000	0	95	70-125	0			
2-Butanone	1016	200	1000	0	102	30-160	0			
2-Hexanone	1014	30	1000	0	101	45-145	0			
4-Methyl-2-pentanone	1356	30	1000	0	136	45-145	0			
Acetone	955.5	100	1000	0	95.6	20-160	0			
Benzene	1008	30	1000	0	101	75-125	0			
Bromodichloromethane	987.5	30	1000	0	98.8	70-130	0			
Bromoform	740.5	30	1000	0	74	55-135	0			
Bromomethane	1211	75	1000	0	121	30-160	0			
Carbon disulfide	1033	30	1000	0	103	45-160	0			
Carbon tetrachloride	800	30	1000	0	80	65-135	0			
Chlorobenzene	990	30	1000	0	99	75-125	0			
Chloroethane	827	100	1000	0	82.7	40-155	0			
Chloroform	1050	30	1000	0	105	70-125	0			
Chloromethane	762	100	1000	0	76.2	50-130	0			
cis-1,2-Dichloroethene	1096	30	1000	0	110	65-125	0			
cis-1,3-Dichloropropene	1025	30	1000	0	102	70-125	0			
Dibromochloromethane	776.5	30	1000	0	77.6	65-135	0			
Dichlorodifluoromethane	562.5	30	1000	0	56.2	35-135	0			
Ethylbenzene	1018	30	1000	0	102	75-125	0			
Isopropylbenzene	1022	30	1000	0	102	75-130	0			
Methyl tert-butyl ether	1078	30	1000	0	108	75-125	0			
Methylene chloride	930	30	1000	0	93	55-145	0			
Styrene	1032	30	1000	0	103	75-125	0			
Tetrachloroethene	1052	30	1000	0	105	64-140	0			
Toluene	983.5	30	1000	0	98.4	70-125	0			
trans-1,2-Dichloroethene	1125	30	1000	0	112	65-135	0			
trans-1,3-Dichloropropene	822.5	30	1000	0	82.2	65-125	0			
Trichloroethene	996.5	30	1000	0	99.6	75-125	0			
Trichlorofluoromethane	823.5	30	1000	0	82.4	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52888	Instrument ID VMS6		Method: SW8260B				
Vinyl chloride	723	30	1000	0	72.3	60-125	0
Xylenes, Total	3036	90	3000	0	101	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>985.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.6</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1041</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>966.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>96.6</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>978.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.8</i>	<i>70-130</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52888** Instrument ID **VMS6** Method: **SW8260B**

MS				Sample ID: 13101246-22C MS			Units: µg/Kg		Analysis Date: 11/05/13 11:03 AM	
Client ID: SO-017360-102213-MR-039				Run ID: VMS6_131104A			SeqNo: 2523225		Prep Date: 11/01/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1102	38	1252	0	88	70-135	0			
1,1,2,2-Tetrachloroethane	1223	38	1252	0	97.7	55-130	0			
1,1,2-Trichloroethane	1125	38	1252	0	89.8	60-125	0			
1,1-Dichloroethane	1056	38	1252	0	84.4	75-125	0			
1,1-Dichloroethene	1057	38	1252	0	84.4	65-135	0			
1,2,4-Trichlorobenzene	1220	38	1252	0	97.4	65-130	0			
1,2-Dibromo-3-chloropropane	1003	38	1252	0	80.1	40-135	0			
1,2-Dibromoethane	1286	38	1252	0	103	70-125	0			
1,2-Dichlorobenzene	1221	38	1252	0	97.5	75-120	0			
1,2-Dichloroethane	1182	38	1252	0	94.4	70-135	0			
1,2-Dichloropropane	1097	38	1252	0	87.6	70-120	0			
1,3-Dichlorobenzene	1184	38	1252	0	94.6	70-125	0			
1,4-Dichlorobenzene	1204	38	1252	0	96.2	70-125	0			
2-Butanone	1289	250	1252	0	103	30-160	0			
2-Hexanone	1097	38	1252	0	87.6	45-145	0			
4-Methyl-2-pentanone	1452	38	1252	0	116	45-145	0			
Acetone	1254	130	1252	0	100	20-160	0			
Benzene	1135	38	1252	0	90.7	75-125	0			
Bromodichloromethane	1039	38	1252	0	83	70-130	0			
Bromoform	886.9	38	1252	0	70.8	55-135	0			
Bromomethane	1020	94	1252	0	81.4	30-160	0			
Carbon disulfide	1009	38	1252	0	80.6	45-160	0			
Carbon tetrachloride	961.4	38	1252	0	76.8	65-135	0			
Chlorobenzene	1172	38	1252	0	93.6	75-125	0			
Chloroethane	933.3	130	1252	0	74.6	40-155	0			
Chloroform	1075	38	1252	0	85.9	70-125	0			
Chloromethane	1025	130	1252	0	81.8	50-130	0			
cis-1,2-Dichloroethene	1000	38	1252	0	79.9	65-125	0			
cis-1,3-Dichloropropene	1136	38	1252	0	90.8	70-125	0			
Dibromochloromethane	898.2	38	1252	0	71.8	65-135	0			
Dichlorodifluoromethane	724.2	38	1252	0	57.8	35-135	0			
Ethylbenzene	1177	38	1252	0	94	75-125	0			
Isopropylbenzene	1187	38	1252	0	94.8	75-130	0			
Methyl tert-butyl ether	1170	38	1252	0	93.4	75-125	0			
Methylene chloride	1152	38	1252	0	92	55-145	0			
Styrene	1221	38	1252	0	97.6	75-125	0			
Tetrachloroethene	1165	38	1252	0	93	64-140	0			
Toluene	1139	38	1252	0	91	70-125	0			
trans-1,2-Dichloroethene	1092	38	1252	0	87.2	65-135	0			
trans-1,3-Dichloropropene	1120	38	1252	0	89.4	65-125	0			
Trichloroethene	1120	38	1252	0	89.5	75-125	0			
Trichlorofluoromethane	958.9	38	1252	0	76.6	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52888	Instrument ID VMS6		Method: SW8260B				
Vinyl chloride	894.4	38	1252	0	71.4	60-125	0
Xylenes, Total	3557	110	3756	0	94.7	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1217</i>	<i>0</i>	<i>1252</i>	<i>0</i>	<i>97.2</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1233</i>	<i>0</i>	<i>1252</i>	<i>0</i>	<i>98.5</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1244</i>	<i>0</i>	<i>1252</i>	<i>0</i>	<i>99.4</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1232</i>	<i>0</i>	<i>1252</i>	<i>0</i>	<i>98.4</i>	<i>70-130</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52888** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 13101246-22C MSD			Units: µg/Kg		Analysis Date: 11/05/13 11:28 AM	
Client ID: SO-017360-102213-MR-039				Run ID: VMS6_131104A			SeqNo: 2523226		Prep Date: 11/01/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1033	38	1252	0	82.5	70-135	1102	6.45	30	
1,1,2,2-Tetrachloroethane	1283	38	1252	0	102	55-130	1223	4.8	30	
1,1,2-Trichloroethane	1120	38	1252	0	89.4	60-125	1125	0.446	30	
1,1-Dichloroethane	996.5	38	1252	0	79.6	75-125	1056	5.79	30	
1,1-Dichloroethene	977.1	38	1252	0	78	65-135	1057	7.82	30	
1,2,4-Trichlorobenzene	1278	38	1252	0	102	65-130	1220	4.66	30	
1,2-Dibromo-3-chloropropane	1035	38	1252	0	82.6	40-135	1003	3.13	30	
1,2-Dibromoethane	1306	38	1252	0	104	70-125	1286	1.55	30	
1,2-Dichlorobenzene	1204	38	1252	0	96.2	75-120	1221	1.34	30	
1,2-Dichloroethane	1146	38	1252	0	91.6	70-135	1182	3.12	30	
1,2-Dichloropropane	1088	38	1252	0	86.9	70-120	1097	0.859	30	
1,3-Dichlorobenzene	1145	38	1252	0	91.5	70-125	1184	3.28	30	
1,4-Dichlorobenzene	1158	38	1252	0	92.5	70-125	1204	3.87	30	
2-Butanone	1358	250	1252	0	108	30-160	1289	5.2	30	
2-Hexanone	1188	38	1252	0	94.9	45-145	1097	8	30	
4-Methyl-2-pentanone	1569	38	1252	0	125	45-145	1452	7.79	30	
Acetone	1334	130	1252	0	107	20-160	1254	6.24	30	
Benzene	1067	38	1252	0	85.2	75-125	1135	6.25	30	
Bromodichloromethane	1026	38	1252	0	82	70-130	1039	1.27	30	
Bromoform	918.9	38	1252	0	73.4	55-135	886.9	3.54	30	
Bromomethane	985.2	94	1252	0	78.7	30-160	1020	3.43	30	
Carbon disulfide	899.5	38	1252	0	71.8	45-160	1009	11.5	30	
Carbon tetrachloride	931.4	38	1252	0	74.4	65-135	961.4	3.17	30	
Chlorobenzene	1124	38	1252	0	89.8	75-125	1172	4.2	30	
Chloroethane	891.9	130	1252	0	71.2	40-155	933.3	4.53	30	
Chloroform	1035	38	1252	0	82.6	70-125	1075	3.86	30	
Chloromethane	903.2	130	1252	0	72.2	50-130	1025	12.6	30	
cis-1,2-Dichloroethene	935.1	38	1252	0	74.7	65-125	1000	6.73	30	
cis-1,3-Dichloropropene	1112	38	1252	0	88.8	70-125	1136	2.12	30	
Dibromochloromethane	903.2	38	1252	0	72.2	65-135	898.2	0.556	30	
Dichlorodifluoromethane	665.4	38	1252	0	53.2	35-135	724.2	8.47	30	
Ethylbenzene	1120	38	1252	0	89.4	75-125	1177	4.96	30	
Isopropylbenzene	1160	38	1252	0	92.6	75-130	1187	2.35	30	
Methyl tert-butyl ether	1177	38	1252	0	94	75-125	1170	0.587	30	
Methylene chloride	1099	38	1252	0	87.8	55-145	1152	4.73	30	
Styrene	1192	38	1252	0	95.2	75-125	1221	2.39	30	
Tetrachloroethene	1085	38	1252	0	86.7	64-140	1165	7.07	30	
Toluene	1082	38	1252	0	86.4	70-125	1139	5.13	30	
trans-1,2-Dichloroethene	992.7	38	1252	0	79.3	65-135	1092	9.49	30	
trans-1,3-Dichloropropene	1130	38	1252	0	90.2	65-125	1120	0.89	30	
Trichloroethene	1057	38	1252	0	84.4	75-125	1120	5.87	30	
Trichlorofluoromethane	889.4	38	1252	0	71	25-185	958.9	7.52	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52888		Instrument ID VMS6		Method: SW8260B					
Vinyl chloride	814.3	38	1252	0	65	60-125	894.4	9.38	30
Xylenes, Total	3414	110	3756	0	90.9	75-125	3557	4.11	30
<i>Surr: 1,2-Dichloroethane-d4</i>	1192	0	1252	0	95.2	70-130	1217	2.08	30
<i>Surr: 4-Bromofluorobenzene</i>	1243	0	1252	0	99.3	70-130	1233	0.809	30
<i>Surr: Dibromofluoromethane</i>	1197	0	1252	0	95.6	70-130	1244	3.79	30
<i>Surr: Toluene-d8</i>	1224	0	1252	0	97.8	70-130	1232	0.612	30

The following samples were analyzed in this batch:	13101246-22C	13101246-25C	13101246-26C	
	13101246-27C	13101246-29C	13101246-30C	
	13101246-31C			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52892** Instrument ID **VMS8** Method: **SW8260B**

MBLK				Sample ID: MBLK-52892-52892			Units: µg/Kg		Analysis Date: 11/03/13 02:15 AM		
Client ID:			Run ID: VMS8_131102A			SeqNo: 2520834		Prep Date: 11/01/13		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	30									
1,1,2,2-Tetrachloroethane	U	30									
1,1,2-Trichloroethane	U	30									
1,1,2-Trichlorotrifluoroethane	U	30									
1,1-Dichloroethane	U	30									
1,1-Dichloroethene	U	30									
1,2,4-Trichlorobenzene	U	30									
1,2-Dibromo-3-chloropropane	U	30									
1,2-Dibromoethane	U	30									
1,2-Dichlorobenzene	U	30									
1,2-Dichloroethane	U	30									
1,2-Dichloropropane	U	30									
1,3-Dichlorobenzene	U	30									
1,4-Dichlorobenzene	U	30									
2-Butanone	U	200									
2-Hexanone	U	30									
4-Methyl-2-pentanone	U	30									
Acetone	U	100									
Benzene	U	30									
Bromodichloromethane	U	30									
Bromoform	U	30									
Bromomethane	U	75									
Carbon disulfide	U	30									
Carbon tetrachloride	U	30									
Chlorobenzene	U	30									
Chloroethane	U	100									
Chloroform	U	30									
Chloromethane	U	100									
cis-1,2-Dichloroethene	U	30									
cis-1,3-Dichloropropene	U	30									
Cyclohexane	U	30									
Dibromochloromethane	U	30									
Dichlorodifluoromethane	U	30									
Ethylbenzene	U	30									
Isopropylbenzene	U	30									
Methyl acetate	U	200									
Methyl tert-butyl ether	U	30									
Methylcyclohexane	U	30									
Methylene chloride	U	30									
Styrene	U	30									
Tetrachloroethene	U	30									
Toluene	U	30									

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52892	Instrument ID VMS8	Method: SW8260B						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	982	0	1000	0	98.2	70-130	0	
<i>Surr: 4-Bromofluorobenzene</i>	970	0	1000	0	97	70-130	0	
<i>Surr: Dibromofluoromethane</i>	986.5	0	1000	0	98.6	70-130	0	
<i>Surr: Toluene-d8</i>	982.5	0	1000	0	98.2	70-130	0	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52892** Instrument ID **VMS8** Method: **SW8260B**

LCS Sample ID: LCS-52892-52892				Units: µg/Kg			Analysis Date: 11/01/13 03:09 PM			
Client ID:		Run ID: VMS8_131101A		SeqNo: 2518972		Prep Date: 11/01/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1021	30	1000	0	102	70-135	0			
1,1,2,2-Tetrachloroethane	1003	30	1000	0	100	55-130	0			
1,1,2-Trichloroethane	970	30	1000	0	97	60-125	0			
1,1-Dichloroethane	1058	30	1000	0	106	75-125	0			
1,1-Dichloroethene	867.5	30	1000	0	86.8	65-135	0			
1,2,4-Trichlorobenzene	1024	30	1000	0	102	65-130	0			
1,2-Dibromo-3-chloropropane	944	30	1000	0	94.4	40-135	0			
1,2-Dibromoethane	1050	30	1000	0	105	70-125	0			
1,2-Dichlorobenzene	988	30	1000	0	98.8	75-120	0			
1,2-Dichloroethane	1055	30	1000	0	106	70-135	0			
1,2-Dichloropropane	994	30	1000	0	99.4	70-120	0			
1,3-Dichlorobenzene	965	30	1000	0	96.5	70-125	0			
1,4-Dichlorobenzene	976	30	1000	0	97.6	70-125	0			
2-Butanone	1094	200	1000	0	109	30-160	0			
2-Hexanone	998	30	1000	0	99.8	45-145	0			
4-Methyl-2-pentanone	1334	30	1000	0	133	45-145	0			
Acetone	1002	100	1000	0	100	20-160	0			
Benzene	969.5	30	1000	0	97	75-125	0			
Bromodichloromethane	1000	30	1000	0	100	70-130	0			
Bromoform	783	30	1000	0	78.3	55-135	0			
Bromomethane	494	75	1000	0	49.4	30-160	0			
Carbon disulfide	1017	30	1000	0	102	45-160	0			
Carbon tetrachloride	960.5	30	1000	0	96	65-135	0			
Chlorobenzene	937.5	30	1000	0	93.8	75-125	0			
Chloroethane	807	100	1000	0	80.7	40-155	0			
Chloroform	1082	30	1000	0	108	70-125	0			
Chloromethane	785.5	100	1000	0	78.6	50-130	0			
cis-1,2-Dichloroethene	1073	30	1000	0	107	65-125	0			
cis-1,3-Dichloropropene	1084	30	1000	0	108	70-125	0			
Dibromochloromethane	901	30	1000	0	90.1	65-135	0			
Dichlorodifluoromethane	555	30	1000	0	55.5	35-135	0			
Ethylbenzene	978	30	1000	0	97.8	75-125	0			
Isopropylbenzene	945.5	30	1000	0	94.6	75-130	0			
Methyl tert-butyl ether	1176	30	1000	0	118	75-125	0			
Methylene chloride	1080	30	1000	0	108	55-145	0			
Styrene	984	30	1000	0	98.4	75-125	0			
Tetrachloroethene	1031	30	1000	0	103	64-140	0			
Toluene	961.5	30	1000	0	96.2	70-125	0			
trans-1,2-Dichloroethene	1086	30	1000	0	109	65-135	0			
trans-1,3-Dichloropropene	1068	30	1000	0	107	65-125	0			
Trichloroethene	888	30	1000	0	88.8	75-125	0			
Trichlorofluoromethane	742.5	30	1000	0	74.2	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52892	Instrument ID VMS8		Method: SW8260B				
Vinyl chloride	729	30	1000	0	72.9	60-125	0
Xylenes, Total	2930	90	3000	0	97.7	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1075</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>108</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1050</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1004</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52892** Instrument ID **VMS8** Method: **SW8260B**

MS				Sample ID: 13101246-28C MS			Units: µg/Kg		Analysis Date: 11/05/13 08:38 AM	
Client ID: SO-017360-102213-MR-045				Run ID: VMS7_131104B			SeqNo: 2522859		Prep Date: 11/01/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1191	42	1416	0	84	70-135	0			
1,1,2,2-Tetrachloroethane	1246	42	1416	0	88	55-130	0			
1,1,2-Trichloroethane	1247	42	1416	0	88	60-125	0			
1,1-Dichloroethane	1225	42	1416	0	86.4	75-125	0			
1,1-Dichloroethene	1104	42	1416	0	78	65-135	0			
1,2,4-Trichlorobenzene	1181	42	1416	0	83.4	65-130	0			
1,2-Dibromo-3-chloropropane	1227	42	1416	0	86.6	40-135	0			
1,2-Dibromoethane	1316	42	1416	0	92.9	70-125	0			
1,2-Dichlorobenzene	1268	42	1416	0	89.6	75-120	0			
1,2-Dichloroethane	1191	42	1416	0	84	70-135	0			
1,2-Dichloropropane	1319	42	1416	0	93.1	70-120	0			
1,3-Dichlorobenzene	1270	42	1416	0	89.6	70-125	0			
1,4-Dichlorobenzene	1235	42	1416	0	87.2	70-125	0			
2-Butanone	1414	280	1416	50	96.3	30-160	0			
2-Hexanone	1360	42	1416	0	96	45-145	0			
4-Methyl-2-pentanone	1904	42	1416	0	134	45-145	0			
Acetone	1394	140	1416	0	98.4	20-160	0			
Benzene	1271	42	1416	0	89.8	75-125	0			
Bromodichloromethane	1205	42	1416	0	85	70-130	0			
Bromoform	1189	42	1416	0	84	55-135	0			
Bromomethane	929.2	110	1416	0	65.6	30-160	0			
Carbon disulfide	1297	42	1416	10.11	90.8	45-160	0			
Carbon tetrachloride	1174	42	1416	0	82.9	65-135	0			
Chlorobenzene	1216	42	1416	0	85.8	75-125	0			
Chloroethane	774.1	140	1416	0	54.6	40-155	0			
Chloroform	1174	42	1416	0	82.9	70-125	0			
Chloromethane	1174	140	1416	0	82.9	50-130	0			
cis-1,2-Dichloroethene	1163	42	1416	0	82.1	65-125	0			
cis-1,3-Dichloropropene	1232	42	1416	0	87	70-125	0			
Dibromochloromethane	1185	42	1416	0	83.6	65-135	0			
Dichlorodifluoromethane	693.3	42	1416	0	49	35-135	0			
Ethylbenzene	1214	42	1416	0	85.7	75-125	0			
Isopropylbenzene	1171	42	1416	0	82.7	75-130	0			
Methyl tert-butyl ether	1264	42	1416	0	89.2	75-125	0			
Methylene chloride	1297	42	1416	0	91.6	55-145	0			
Styrene	1222	42	1416	0	86.3	75-125	0			
Tetrachloroethene	1251	42	1416	0	88.3	64-140	0			
Toluene	1254	42	1416	0	88.6	70-125	0			
trans-1,2-Dichloroethene	1234	42	1416	0	87.2	65-135	0			
trans-1,3-Dichloropropene	1148	42	1416	0	81	65-125	0			
Trichloroethene	1228	42	1416	0	86.7	75-125	0			
Trichlorofluoromethane	811.6	42	1416	0	57.3	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52892	Instrument ID VMS8		Method: SW8260B				
Vinyl chloride	971.7	42	1416	0	68.6	60-125	0
Xylenes, Total	3753	130	4249	0	88.3	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	1243	0	1416	0	87.8	70-130	0
<i>Surr: 4-Bromofluorobenzene</i>	1491	0	1416	0	105	70-130	0
<i>Surr: Dibromofluoromethane</i>	1358	0	1416	0	95.8	70-130	0
<i>Surr: Toluene-d8</i>	1410	0	1416	0	99.6	70-130	0

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52892** Instrument ID **VMS8** Method: **SW8260B**

MSD				Sample ID: 13101246-28C MSD			Units: µg/Kg		Analysis Date: 11/05/13 09:02 AM	
Client ID: SO-017360-102213-MR-045				Run ID: VMS7_131104B			SeqNo: 2522860		Prep Date: 11/01/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1184	42	1416	0	83.6	70-135	1191	0.537	30	
1,1,2,2-Tetrachloroethane	1262	42	1416	0	89.1	55-130	1246	1.3	30	
1,1,2-Trichloroethane	1271	42	1416	0	89.7	60-125	1247	1.86	30	
1,1-Dichloroethane	1234	42	1416	0	87.1	75-125	1225	0.749	30	
1,1-Dichloroethene	1079	42	1416	0	76.2	65-135	1104	2.34	30	
1,2,4-Trichlorobenzene	1231	42	1416	0	86.9	65-130	1181	4.11	30	
1,2-Dibromo-3-chloropropane	1173	42	1416	0	82.8	40-135	1227	4.54	30	
1,2-Dibromoethane	1353	42	1416	0	95.6	70-125	1316	2.81	30	
1,2-Dichlorobenzene	1200	42	1416	0	84.8	75-120	1268	5.51	30	
1,2-Dichloroethane	1208	42	1416	0	85.3	70-135	1191	1.48	30	
1,2-Dichloropropane	1275	42	1416	0	90	70-120	1319	3.39	30	
1,3-Dichlorobenzene	1217	42	1416	0	85.9	70-125	1270	4.27	30	
1,4-Dichlorobenzene	1213	42	1416	0	85.6	70-125	1235	1.79	30	
2-Butanone	1436	280	1416	50	97.9	30-160	1414	1.54	30	
2-Hexanone	1394	42	1416	0	98.4	45-145	1360	2.47	30	
4-Methyl-2-pentanone	1948	42	1416	0	138	45-145	1904	2.32	30	
Acetone	1347	140	1416	0	95.1	20-160	1394	3.46	30	
Benzene	1259	42	1416	0	88.9	75-125	1271	0.952	30	
Bromodichloromethane	1220	42	1416	0	86.1	70-130	1205	1.23	30	
Bromoform	1185	42	1416	0	83.6	55-135	1189	0.358	30	
Bromomethane	830	110	1416	0	58.6	30-160	929.2	11.3	30	
Carbon disulfide	1258	42	1416	10.11	88.1	45-160	1297	2.99	30	
Carbon tetrachloride	1181	42	1416	0	83.4	65-135	1174	0.541	30	
Chlorobenzene	1236	42	1416	0	87.2	75-125	1216	1.62	30	
Chloroethane	738	140	1416	0	52.1	40-155	774.1	4.78	30	
Chloroform	1169	42	1416	0	82.6	70-125	1174	0.423	30	
Chloromethane	1175	140	1416	0	83	50-130	1174	0.0603	30	
cis-1,2-Dichloroethene	1156	42	1416	0	81.6	65-125	1163	0.611	30	
cis-1,3-Dichloropropene	1261	42	1416	0	89	70-125	1232	2.33	30	
Dibromochloromethane	1191	42	1416	0	84.1	65-135	1185	0.537	30	
Dichlorodifluoromethane	700.4	42	1416	0	49.4	35-135	693.3	1.02	30	
Ethylbenzene	1232	42	1416	0	87	75-125	1214	1.45	30	
Isopropylbenzene	1183	42	1416	0	83.6	75-130	1171	1.02	30	
Methyl tert-butyl ether	1286	42	1416	0	90.8	75-125	1264	1.72	30	
Methylene chloride	1329	42	1416	0	93.8	55-145	1297	2.37	30	
Styrene	1208	42	1416	0	85.2	75-125	1222	1.22	30	
Tetrachloroethene	1207	42	1416	0	85.2	64-140	1251	3.57	30	
Toluene	1187	42	1416	0	83.8	70-125	1254	5.51	30	
trans-1,2-Dichloroethene	1188	42	1416	0	83.8	65-135	1234	3.86	30	
trans-1,3-Dichloropropene	1115	42	1416	0	78.8	65-125	1148	2.88	30	
Trichloroethene	1212	42	1416	0	85.6	75-125	1228	1.34	30	
Trichlorofluoromethane	712.5	42	1416	0	50.3	25-185	811.6	13	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52892	Instrument ID VMS8			Method: SW8260B					
Vinyl chloride	976.6	42	1416	0	69	60-125	971.7	0.509	30
Xylenes, Total	3623	130	4249	0	85.2	75-125	3753	3.53	30
Surr: 1,2-Dichloroethane-d4	1246	0	1416	0	88	70-130	1243	0.228	30
Surr: 4-Bromofluorobenzene	1407	0	1416	0	99.3	70-130	1491	5.82	30
Surr: Dibromofluoromethane	1356	0	1416	0	95.7	70-130	1358	0.157	30
Surr: Toluene-d8	1357	0	1416	0	95.8	70-130	1410	3.84	30

The following samples were analyzed in this batch:	13101246-28C	13101246-33C	13101246-34C
	13101246-35C		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129392A** Instrument ID **VMS7** Method: **SW8260**

MBLK				Sample ID: VBK2-131028-R129392A			Units: µg/L		Analysis Date: 10/29/13 01:45 AM	
Client ID:				Run ID: VMS7_131028B			SeqNo: 2511876		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	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
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	5.0								
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	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	2.0								
Toluene	U	1.0								

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: R129392A		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		18.67	0	20	0	93.4	70-120	0
Surr: 4-Bromofluorobenzene		19.81	0	20	0	99	75-120	0
Surr: Dibromofluoromethane		19.29	0	20	0	96.4	85-115	0
Surr: Toluene-d8		19.92	0	20	0	99.6	85-120	0

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129392A** Instrument ID **VMS7** Method: **SW8260**

LCS				Sample ID: VLCSW1-131028-R129392A			Units: µg/L		Analysis Date: 10/29/13 12:33 PM		
Client ID:		Run ID: VMS7_131028B			SeqNo: 2511890		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	19.31	1.0	20	0	96.6	65-130	0				
1,1,2,2-Tetrachloroethane	19.54	1.0	20	0	97.7	65-130	0				
1,1,2-Trichloroethane	18.84	1.0	20	0	94.2	75-125	0				
1,1-Dichloroethane	17.57	1.0	20	0	87.8	70-135	0				
1,1-Dichloroethene	18.33	1.0	20	0	91.6	70-130	0				
1,2,4-Trichlorobenzene	19.9	1.0	20	0	99.5	65-135	0				
1,2-Dibromo-3-chloropropane	18.91	1.0	20	0	94.6	50-130	0				
1,2-Dibromoethane	19.73	1.0	20	0	98.6	80-120	0				
1,2-Dichlorobenzene	19.43	1.0	20	0	97.2	70-120	0				
1,2-Dichloroethane	18.66	1.0	20	0	93.3	70-130	0				
1,2-Dichloropropane	17.56	2.0	20	0	87.8	75-125	0				
1,3-Dichlorobenzene	18.42	2.0	20	0	92.1	75-125	0				
1,4-Dichlorobenzene	18.83	2.0	20	0	94.2	75-125	0				
2-Butanone	18.9	5.0	20	0	94.5	30-150	0				
2-Hexanone	20.12	5.0	20	0	101	55-130	0				
4-Methyl-2-pentanone	26.26	5.0	20	0	131	60-135	0				
Acetone	19.93	20	20	0	99.6	40-140	0			J	
Benzene	17.9	1.0	20	0	89.5	80-120	0				
Bromodichloromethane	18.61	1.0	20	0	93	75-120	0				
Bromoform	20.14	1.0	20	0	101	70-130	0				
Bromomethane	25.12	1.0	20	0	126	30-145	0				
Carbon disulfide	17.66	2.5	20	0	88.3	35-165	0				
Carbon tetrachloride	19.85	1.0	20	0	99.2	65-140	0				
Chlorobenzene	19.2	1.0	20	0	96	80-120	0				
Chloroethane	15.89	1.0	20	0	79.4	60-135	0				
Chloroform	17.16	1.0	20	0	85.8	65-135	0				
Chloromethane	13.83	1.0	20	0	69.2	70-125	0			S	
cis-1,2-Dichloroethene	17.37	1.0	20	0	86.8	70-125	0				
cis-1,3-Dichloropropene	18.72	1.0	20	0	93.6	70-130	0				
Dibromochloromethane	18.8	1.0	20	0	94	60-135	0				
Dichlorodifluoromethane	13.24	1.0	20	0	66.2	30-155	0				
Ethylbenzene	19.52	1.0	20	0	97.6	75-125	0				
Isopropylbenzene	19.76	1.0	20	0	98.8	75-125	0				
Methyl tert-butyl ether	19.12	5.0	20	0	95.6	65-125	0				
Methylene chloride	17.73	5.0	20	0	88.6	55-140	0				
Styrene	19.89	1.0	20	0	99.4	65-135	0				
Tetrachloroethene	20.41	2.0	20	0	102	45-150	0				
Toluene	18.67	1.0	20	0	93.4	75-120	0				
trans-1,2-Dichloroethene	18.96	1.0	20	0	94.8	60-140	0				
trans-1,3-Dichloropropene	18.22	1.0	20	0	91.1	55-140	0				
Trichloroethene	19.59	1.0	20	0	98	70-125	0				
Trichlorofluoromethane	17.34	1.0	20	0	86.7	60-145	0				

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: R129392A	Instrument ID VMS7		Method: SW8260				
Vinyl chloride	15.1	1.0	20	0	75.5	50-145	0
Xylenes, Total	57.31	3.0	60	0	95.5	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.25</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.2</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.57</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.9</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.5</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.83</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.2</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129392A** Instrument ID **VMS7** Method: **SW8260**

MS				Sample ID: 13101246-60A MS			Units: µg/L		Analysis Date: 10/29/13 10:19 AM	
Client ID: GW-017360-102313-MR-078				Run ID: VMS7_131028B			SeqNo: 2511880		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	24.57	1.0	20	0	123	65-130	0			
1,1,2,2-Tetrachloroethane	22.52	1.0	20	0	113	65-130	0			
1,1,2-Trichloroethane	22.47	1.0	20	0	112	75-125	0			
1,1-Dichloroethane	22.22	1.0	20	0	111	70-135	0			
1,1-Dichloroethene	24.83	1.0	20	0	124	70-130	0			
1,2,4-Trichlorobenzene	22.09	1.0	20	0	110	65-135	0			
1,2-Dibromo-3-chloropropane	22.7	1.0	20	0	114	50-130	0			
1,2-Dibromoethane	24.01	1.0	20	0	120	80-120	0			S
1,2-Dichlorobenzene	22.52	1.0	20	0	113	70-120	0			
1,2-Dichloroethane	21.68	1.0	20	0	108	70-130	0			
1,2-Dichloropropane	20.89	2.0	20	0	104	75-125	0			
1,3-Dichlorobenzene	22.61	2.0	20	0	113	75-125	0			
1,4-Dichlorobenzene	22.6	2.0	20	0	113	75-125	0			
2-Butanone	22.49	5.0	20	0	112	30-150	0			
2-Hexanone	25.25	5.0	20	0	126	55-130	0			
4-Methyl-2-pentanone	32.89	5.0	20	0	164	60-135	0			S
Acetone	26.08	20	20	0	130	40-140	0			
Benzene	22.5	1.0	20	0	112	80-120	0			
Bromodichloromethane	22.26	1.0	20	0	111	75-120	0			
Bromoform	24.73	1.0	20	0	124	70-130	0			
Bromomethane	26.06	1.0	20	0	130	30-145	0			
Carbon disulfide	23.72	2.5	20	0	119	35-165	0			
Carbon tetrachloride	25.49	1.0	20	0	127	65-140	0			
Chlorobenzene	24.19	1.0	20	0	121	80-120	0			S
Chloroethane	37.4	1.0	20	0	187	60-135	0			S
Chloroform	21.5	1.0	20	0	108	65-135	0			
Chloromethane	17.59	1.0	20	0	88	70-125	0			
cis-1,2-Dichloroethene	21.24	1.0	20	0	106	70-125	0			
cis-1,3-Dichloropropene	21.08	1.0	20	0	105	70-130	0			
Dibromochloromethane	21.8	1.0	20	0	109	60-135	0			
Dichlorodifluoromethane	18.67	1.0	20	0.92	88.8	30-155	0			
Ethylbenzene	23.95	1.0	20	0	120	75-125	0			
Isopropylbenzene	23.54	1.0	20	0	118	75-125	0			
Methyl tert-butyl ether	22.83	5.0	20	0	114	65-125	0			
Methylene chloride	21.19	5.0	20	0	106	55-140	0			
Styrene	22.69	1.0	20	0	113	65-135	0			
Tetrachloroethene	26.11	2.0	20	0	131	45-150	0			
Toluene	23.63	1.0	20	0	118	75-120	0			
trans-1,2-Dichloroethene	24.55	1.0	20	0	123	60-140	0			
trans-1,3-Dichloropropene	20.88	1.0	20	0	104	55-140	0			
Trichloroethene	27.96	1.0	20	3.48	122	70-125	0			
Trichlorofluoromethane	23.98	1.0	20	0	120	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: R129392A	Instrument ID VMS7		Method: SW8260				
Vinyl chloride	20.76	1.0	20	0	104	50-145	0
Xylenes, Total	69.9	3.0	60	0	116	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.52</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.6</i>	<i>70-120</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>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.79</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>20.16</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129392A** Instrument ID **VMS7** Method: **SW8260**

MSD					Sample ID: 13101246-60A MSD			Units: µg/L		Analysis Date: 10/29/13 10:43 AM	
Client ID: GW-017360-102313-MR-078			Run ID: VMS7_131028B			SeqNo: 2511885		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	24.51	1.0	20	0	123	65-130	24.57	0.244	30		
1,1,2,2-Tetrachloroethane	21.86	1.0	20	0	109	65-130	22.52	2.97	30		
1,1,2-Trichloroethane	21.97	1.0	20	0	110	75-125	22.47	2.25	30		
1,1-Dichloroethane	21.61	1.0	20	0	108	70-135	22.22	2.78	30		
1,1-Dichloroethene	23.45	1.0	20	0	117	70-130	24.83	5.72	30		
1,2,4-Trichlorobenzene	23.19	1.0	20	0	116	65-135	22.09	4.86	30		
1,2-Dibromo-3-chloropropane	22.91	1.0	20	0	115	50-130	22.7	0.921	30		
1,2-Dibromoethane	22.82	1.0	20	0	114	80-120	24.01	5.08	30		
1,2-Dichlorobenzene	23.27	1.0	20	0	116	70-120	22.52	3.28	30		
1,2-Dichloroethane	21.84	1.0	20	0	109	70-130	21.68	0.735	30		
1,2-Dichloropropane	21.34	2.0	20	0	107	75-125	20.89	2.13	30		
1,3-Dichlorobenzene	24.03	2.0	20	0	120	75-125	22.61	6.09	30		
1,4-Dichlorobenzene	23.47	2.0	20	0	117	75-125	22.6	3.78	30		
2-Butanone	22.1	5.0	20	0	110	30-150	22.49	1.75	30		
2-Hexanone	24.64	5.0	20	0	123	55-130	25.25	2.45	30		
4-Methyl-2-pentanone	31.1	5.0	20	0	156	60-135	32.89	5.59	30	S	
Acetone	24.36	20	20	0	122	40-140	26.08	6.82	30		
Benzene	22.04	1.0	20	0	110	80-120	22.5	2.07	30		
Bromodichloromethane	22.09	1.0	20	0	110	75-120	22.26	0.767	30		
Bromoform	23.2	1.0	20	0	116	70-130	24.73	6.38	30		
Bromomethane	29.31	1.0	20	0	147	30-145	26.06	11.7	30	S	
Carbon disulfide	23.14	2.5	20	0	116	35-165	23.72	2.48	30		
Carbon tetrachloride	24.56	1.0	20	0	123	65-140	25.49	3.72	30		
Chlorobenzene	23.37	1.0	20	0	117	80-120	24.19	3.45	30		
Chloroethane	35.83	1.0	20	0	179	60-135	37.4	4.29	30	S	
Chloroform	20.93	1.0	20	0	105	65-135	21.5	2.69	30		
Chloromethane	17.1	1.0	20	0	85.5	70-125	17.59	2.83	30		
cis-1,2-Dichloroethene	20.88	1.0	20	0	104	70-125	21.24	1.71	30		
cis-1,3-Dichloropropene	20.97	1.0	20	0	105	70-130	21.08	0.523	30		
Dibromochloromethane	21.6	1.0	20	0	108	60-135	21.8	0.922	30		
Dichlorodifluoromethane	17.95	1.0	20	0.92	85.2	30-155	18.67	3.93	30		
Ethylbenzene	23.66	1.0	20	0	118	75-125	23.95	1.22	30		
Isopropylbenzene	23.29	1.0	20	0	116	75-125	23.54	1.07	30		
Methyl tert-butyl ether	21.86	5.0	20	0	109	65-125	22.83	4.34	30		
Methylene chloride	20.87	5.0	20	0	104	55-140	21.19	1.52	30		
Styrene	20.45	1.0	20	0	102	65-135	22.69	10.4	30		
Tetrachloroethene	24.33	2.0	20	0	122	45-150	26.11	7.06	30		
Toluene	22.47	1.0	20	0	112	75-120	23.63	5.03	30		
trans-1,2-Dichloroethene	23.44	1.0	20	0	117	60-140	24.55	4.63	30		
trans-1,3-Dichloropropene	19.93	1.0	20	0	99.6	55-140	20.88	4.66	30		
Trichloroethene	27.53	1.0	20	3.48	120	70-125	27.96	1.55	30		
Trichlorofluoromethane	22.8	1.0	20	0	114	60-145	23.98	5.04	30		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: R129392A	Instrument ID VMS7			Method: SW8260					
Vinyl chloride	19.88	1.0	20	0	99.4	50-145	20.76	4.33	30
Xylenes, Total	68.77	3.0	60	0	115	75-130	69.9	1.63	30
<i>Surr: 1,2-Dichloroethane-d4</i>	19.09	0	20	0	95.4	70-120	19.52	2.23	30
<i>Surr: 4-Bromofluorobenzene</i>	19.28	0	20	0	96.4	75-120	19.93	3.32	30
<i>Surr: Dibromofluoromethane</i>	19.69	0	20	0	98.4	85-115	19.79	0.507	30
<i>Surr: Toluene-d8</i>	19.48	0	20	0	97.4	85-120	20.16	3.43	30

The following samples were analyzed in this batch:

13101246-60A	13101246-61A	13101246-63A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129805** Instrument ID **VMS9** Method: **SW8260**

MBLK				Sample ID: VBLKW1-131104-R129805				Units: µg/L			Analysis Date: 11/04/13 02:10 PM		
Client ID:			Run ID: VMS9_131104A			SeqNo: 2521298			Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
1,1-Dichloroethene	U	1.0											
1,2-Dichloroethane	U	1.0											
2-Butanone	U	5.0											
Benzene	U	1.0											
Carbon tetrachloride	U	1.0											
Chlorobenzene	U	1.0											
Chloroform	U	1.0											
Tetrachloroethene	U	2.0											
Trichloroethene	U	1.0											
Vinyl chloride	U	1.0											
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.5</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.5</i>	<i>70-120</i>	<i>0</i>						
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.37</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>91.8</i>	<i>75-120</i>	<i>0</i>						
<i>Surr: Dibromofluoromethane</i>	<i>20.88</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>85-115</i>	<i>0</i>						
<i>Surr: Toluene-d8</i>	<i>19.05</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.2</i>	<i>85-120</i>	<i>0</i>						

LCS				Sample ID: VLCSW1-131104-R129805				Units: µg/L		Analysis Date: 11/04/13 12:58 PM	
Client ID:			Run ID: VMS9_131104A			SeqNo: 2521297		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1-Dichloroethene	17.07	1.0	20	0	85.4	70-130	0				
1,2-Dichloroethane	17.4	1.0	20	0	87	70-130	0				
2-Butanone	15.98	5.0	20	0	79.9	30-150	0				
Benzene	19.81	1.0	20	0	99	80-120	0				
Carbon tetrachloride	16.84	1.0	20	0	84.2	65-140	0				
Chlorobenzene	19.54	1.0	20	0	97.7	80-120	0				
Chloroform	18.18	1.0	20	0	90.9	65-135	0				
Tetrachloroethene	18.56	2.0	20	0	92.8	45-150	0				
Trichloroethene	20.04	1.0	20	0	100	70-125	0				
Vinyl chloride	16.26	1.0	20	0	81.3	50-145	0				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.21</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>91</i>	<i>70-120</i>	<i>0</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.06</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>75-120</i>	<i>0</i>				
<i>Surr: Dibromofluoromethane</i>	<i>20.77</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>85-115</i>	<i>0</i>				
<i>Surr: Toluene-d8</i>	<i>19.53</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.6</i>	<i>85-120</i>	<i>0</i>				

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129805** Instrument ID **VMS9** Method: **SW8260**

MS				Sample ID: 13101598-04A MS				Units: µg/L		Analysis Date: 11/04/13 10:38 PM	
Client ID:			Run ID: VMS9_131104A			SeqNo: 2522429		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1-Dichloroethene	16.2	1.0	20	0	81	70-130		0			
1,2-Dichloroethane	18.75	1.0	20	0	93.8	70-130		0			
2-Butanone	12.84	5.0	20	0	64.2	30-150		0			
Benzene	87.94	1.0	20	73.12	74.1	80-120		0		S	
Carbon tetrachloride	18.22	1.0	20	0	91.1	65-140		0			
Chlorobenzene	19.96	1.0	20	0	99.8	80-120		0			
Chloroform	18.64	1.0	20	0	93.2	65-135		0			
Tetrachloroethene	17.97	2.0	20	0	89.8	45-150		0			
Trichloroethene	20.63	1.0	20	0	103	70-125		0			
Vinyl chloride	16.16	1.0	20	0	80.8	50-145		0			
Surr: 1,2-Dichloroethane-d4	18.55	0	20	0	92.8	70-120		0			
Surr: 4-Bromofluorobenzene	19.72	0	20	0	98.6	75-120		0			
Surr: Dibromofluoromethane	20.6	0	20	0	103	85-115		0			
Surr: Toluene-d8	20.91	0	20	0	105	85-120		0			

MSD				Sample ID: 13101598-04A MSD				Units: µg/L		Analysis Date: 11/04/13 11:02 PM	
Client ID:			Run ID: VMS9_131104A			SeqNo: 2522431		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1-Dichloroethene	15.81	1.0	20	0	79	70-130	16.2	2.44	30		
1,2-Dichloroethane	18.21	1.0	20	0	91	70-130	18.75	2.92	30		
2-Butanone	12.81	5.0	20	0	64	30-150	12.84	0.234	30		
Benzene	85.16	1.0	20	73.12	60.2	80-120	87.94	3.21	30	S	
Carbon tetrachloride	18.22	1.0	20	0	91.1	65-140	18.22	0	30		
Chlorobenzene	19.65	1.0	20	0	98.2	80-120	19.96	1.57	30		
Chloroform	17.92	1.0	20	0	89.6	65-135	18.64	3.94	30		
Tetrachloroethene	17.5	2.0	20	0	87.5	45-150	17.97	2.65	30		
Trichloroethene	20.2	1.0	20	0	101	70-125	20.63	2.11	30		
Vinyl chloride	16.36	1.0	20	0	81.8	50-145	16.16	1.23	30		
Surr: 1,2-Dichloroethane-d4	18.32	0	20	0	91.6	70-120	18.55	1.25	30		
Surr: 4-Bromofluorobenzene	19.67	0	20	0	98.4	75-120	19.72	0.254	30		
Surr: Dibromofluoromethane	20.1	0	20	0	100	85-115	20.6	2.46	30		
Surr: Toluene-d8	20.7	0	20	0	104	85-120	20.91	1.01	30		

The following samples were analyzed in this batch:

13101246-13A	13101246-18A	13101246-36A
13101246-37A	13101246-38A	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129907A** Instrument ID **VMS6** Method: **SW8260**

MBLK		Sample ID: VBLKW1-131105-R129907A				Units: µg/L		Analysis Date: 11/05/13 03:45 PM		
Client ID:		Run ID: VMS6_131105A				SeqNo: 2524721		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	U	1.0								
1,2-Dichloroethane	U	1.0								
2-Butanone	U	5.0								
Benzene	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroform	U	1.0								
Tetrachloroethene	U	2.0								
Trichloroethene	U	1.0								
Vinyl chloride	U	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.79</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.02</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.1</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>18.84</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.2</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>19.74</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.7</i>	<i>85-120</i>	<i>0</i>			

LCS		Sample ID: VLCSW1-131105-R129907A				Units: µg/L		Analysis Date: 11/05/13 02:55 PM		
Client ID:		Run ID: VMS6_131105A				SeqNo: 2524720		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.95	1.0	20	0	94.8	70-130	0			
1,2-Dichloroethane	18.69	1.0	20	0	93.4	70-130	0			
2-Butanone	18.74	5.0	20	0	93.7	30-150	0			
Benzene	19.32	1.0	20	0	96.6	80-120	0			
Carbon tetrachloride	18.11	1.0	20	0	90.6	65-140	0			
Chlorobenzene	19.09	1.0	20	0	95.4	80-120	0			
Chloroform	17.57	1.0	20	0	87.8	65-135	0			
Tetrachloroethene	20.02	2.0	20	0	100	45-150	0			
Trichloroethene	19.22	1.0	20	0	96.1	70-125	0			
Vinyl chloride	17.79	1.0	20	0	89	50-145	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.39</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.61</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>20.38</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>19.8</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99</i>	<i>85-120</i>	<i>0</i>			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129907A** Instrument ID **VMS6** Method: **SW8260**

MS				Sample ID: 1311208-03A MS				Units: µg/L			Analysis Date: 11/06/13 12:03 PM		
Client ID:			Run ID: VMS6_131105A			SeqNo: 2524731			Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
1,1-Dichloroethene	1939	100	2000	0	97	70-130	0						
1,2-Dichloroethane	2010	100	2000	0	100	70-130	0						
2-Butanone	3080	500	2000	0	154	30-150	0			S			
Benzene	1985	100	2000	0	99.2	80-120	0						
Carbon tetrachloride	1814	100	2000	0	90.7	65-140	0						
Chlorobenzene	1971	100	2000	0	98.6	80-120	0						
Chloroform	1835	100	2000	0	91.8	65-135	0						
Tetrachloroethene	2039	200	2000	0	102	45-150	0						
Trichloroethene	2019	100	2000	0	101	70-125	0						
Vinyl chloride	1910	100	2000	111	90	50-145	0						
Surr: 1,2-Dichloroethane-d4	1950	0	2000	0	97.5	70-120	0						
Surr: 4-Bromofluorobenzene	1981	0	2000	0	99	75-120	0						
Surr: Dibromofluoromethane	1982	0	2000	0	99.1	85-115	0						
Surr: Toluene-d8	1948	0	2000	0	97.4	85-120	0						

MSD					Sample ID: 1311208-03A MSD			Units: µg/L		Analysis Date: 11/06/13 12:28 PM	
Client ID:			Run ID: VMS6_131105A			SeqNo: 2524732		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1-Dichloroethene	1831	100	2000	0	91.6	70-130	1939	5.73	30		
1,2-Dichloroethane	1967	100	2000	0	98.4	70-130	2010	2.16	30		
2-Butanone	2814	500	2000	0	141	30-150	3080	9.03	30		
Benzene	1857	100	2000	0	92.8	80-120	1985	6.66	30		
Carbon tetrachloride	1684	100	2000	0	84.2	65-140	1814	7.43	30		
Chlorobenzene	1871	100	2000	0	93.6	80-120	1971	5.21	30		
Chloroform	1749	100	2000	0	87.4	65-135	1835	4.8	30		
Tetrachloroethene	1952	200	2000	0	97.6	45-150	2039	4.36	30		
Trichloroethene	1824	100	2000	0	91.2	70-125	2019	10.1	30		
Vinyl chloride	1772	100	2000	111	83	50-145	1910	7.5	30		
Surr: 1,2-Dichloroethane-d4	1931	0	2000	0	96.6	70-120	1950	0.979	30		
Surr: 4-Bromofluorobenzene	1987	0	2000	0	99.4	75-120	1981	0.302	30		
Surr: Dibromofluoromethane	1934	0	2000	0	96.7	85-115	1982	2.45	30		
Surr: Toluene-d8	1956	0	2000	0	97.8	85-120	1948	0.41	30		

The following samples were analyzed in this batch:

13101246-13A	13101246-39A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129317** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R129317				Units: % of sample		Analysis Date: 10/25/13 04:30 PM		
Client ID:		Run ID: MOIST_131025B				SeqNo: 2509286		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R129317				Units: % of sample		Analysis Date: 10/25/13 04:30 PM		
Client ID:		Run ID: MOIST_131025B				SeqNo: 2509282		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 13101246-05A DUP				Units: % of sample		Analysis Date: 10/25/13 04:30 PM		
Client ID: SO-017360-102113-MR-019		Run ID: MOIST_131025B				SeqNo: 2509264		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.81 0.050 0 0 0 0-0 5.65 2.79 20

DUP		Sample ID: 13101289-01B DUP				Units: % of sample		Analysis Date: 10/25/13 04:30 PM		
Client ID:		Run ID: MOIST_131025B				SeqNo: 2509275		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 17.48 0.050 0 0 0 0-0 18.49 5.62 20

The following samples were analyzed in this batch:

13101246-01A	13101246-02A	13101246-03A
13101246-04A	13101246-05A	13101246-06A
13101246-07A	13101246-08A	13101246-09A
13101246-10A	13101246-11A	13101246-12A
13101246-14A	13101246-15A	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129320** Instrument ID **MOIST** Method: **A2540 G**

MBLK				Sample ID: WBLKS-R129320				Units: % of sample			Analysis Date: 10/25/13 06:50 PM			
Client ID:				Run ID: MOIST_131025D				SeqNo: 2509405		Prep Date:		DF: 1		
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS				Sample ID: LCS-R129320				Units: % of sample				Analysis Date: 10/25/13 06:50 PM																															
Client ID:				Run ID: MOIST_131025D				SeqNo: 2509401				Prep Date:				DF: 1																											
Analyte				Result				PQL				SPK Val				SPK Ref Value				%REC				Control Limit				RPD Ref Value				%RPD				RPD Limit				Qual			

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP					Sample ID: 13101246-16A DUP					Units: % of sample			Analysis Date: 10/25/13 06:50 PM			
Client ID: SO-017360-102213-MR-032					Run ID: MOIST_131025D					SeqNo: 2509379			Prep Date:		DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

Moisture 5.73 0.050 0 0 0 0-0 6.33 9.95 20

DUP					Sample ID: 13101246-25A DUP					Units: % of sample			Analysis Date: 10/25/13 06:50 PM																																									
Client ID: SO-017360-102213-MR-042					Run ID: MOIST_131025D					SeqNo: 2509389			Prep Date:		DF: 1																																							
Analyte					Result					PQL					SPK Val					SPK Ref Value					%REC					Control Limit					RPD Ref Value					%RPD					RPD Limit					Qual				

Moisture 8.19 0.050 0 0 0 0-0 8.05 1.72 20

The following samples were analyzed in this batch:

13101246-16A	13101246-17A	13101246-18A
13101246-19A	13101246-20A	13101246-21A
13101246-22A	13101246-23A	13101246-24A
13101246-25A	13101246-26A	13101246-27A
13101246-28A	13101246-29A	13101246-30A
13101246-31A	13101246-33A	13101246-34A
13101246-35A		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101246
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129428** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R129428				Units: % of sample		Analysis Date: 10/29/13 12:00 PM		
Client ID:		Run ID: MOIST_131029A				SeqNo: 2513440		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R129428				Units: % of sample		Analysis Date: 10/29/13 12:00 PM		
Client ID:		Run ID: MOIST_131029A				SeqNo: 2513436		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 13101246-46A DUP				Units: % of sample		Analysis Date: 10/29/13 12:00 PM		
Client ID: SO-017360-102313-MR-064		Run ID: MOIST_131029A				SeqNo: 2513420		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 11.22 0.050 0 0 0 0-0 11.43 1.85 20

DUP		Sample ID: 13101246-48A DUP				Units: % of sample		Analysis Date: 10/29/13 12:00 PM		
Client ID: SO-017360-102313-MR-066		Run ID: MOIST_131029A				SeqNo: 2513423		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 7.47 0.050 0 0 0 0-0 7.31 2.17 20

The following samples were analyzed in this batch:

13101246-40A	13101246-41A	13101246-42A
13101246-43A	13101246-44A	13101246-45A
13101246-46A	13101246-47A	13101246-48A
13101246-50A	13101246-51A	13101246-52A
13101246-53A	13101246-55A	13101246-56A
13101246-57A	13101246-58A	13101246-59A

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-12237**

PAGE **1** OF **5**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-702Y13				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-702Y13-023									
Project Name: Former GRMP				Lab Contact: Tom Bamish				Lab Quote No:				Cooler No:									
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)									
Chemistry Contact: Paul W. Zeman				Matrix Code (see back of COC)				Grab (G) or Comp (C)				MS/MSD Request									
Sampler(s): Matt Ramsey																					
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	PAHs	TEL Vols	TEL Metals	PCBs	TEL Vols (HOLD)	TULP Vols (HOLD)	TULP Metals (HOLD)	TULP Metals	
1	~~50-017360-102113-MR-001~~	10/21/13	1020	50	G	1						1	X								
2	-002		1050			1						1	X								
3	-003		1135			1						1	X								
4	-018		1515			2				2		4	X		X	X	X				
5	-019		1520									4	X		X	X	X				
6	-020		1525									4	X		X	X	X				
7	-021		1530									4	X		X	X	X				
8	-022		1545									2					X	X			
9	-023		1605							2		4	X		X	X	X				
10	-024		1610									4	X		X	X	X				
11	-025		1620									4	X		X	X	X				
12	-026		1625									4	X		X	X	X				
13	-027		1630									4	X		X	X	X				
14	50-017360-102213-MR-029	10/22/13	945									2					X	X			
15	-030		1005							2		4	X		X	X	X				
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: <i>See comments</i>				Total Number of Containers:				Notes/ Special Requirements:													
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: <i>See comments</i>				All Samples in Cooler must be on COC																	
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME							
1. <i>Matt Ramsey</i>		CRA		10/23/13		1625		1. <i>[Signature]</i>		ALS		10/23/13		1625							
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)

4.00

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**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-12406**

PAGE **2** OF **5**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-102Y13				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-102Y13-023											
Project Name: Former GRMP				Lab Contact: Tom Beamish				Lab Quote No:				Cooler No:											
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)											
Chemistry Contact: Paul Wierman				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 (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample TZL VOLs (HOLD) PWAs TAL Metals PCBs TCUP VOLs (HOLD) TCUP Metals (HOLD) TCUP Metals MS/MSD Request											
Sampler(s): Paul Wierman Matt Ransy																							
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	TZL VOLs (HOLD)	PWAs	TAL Metals	PCBs	TCUP VOLs (HOLD)	TCUP Metals (HOLD)	TCUP Metals	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
-15	✓ SO-017360-102Y13-MR-031	10/22/13	1610	SO	G	2					2			4	X	X	X	X					
-16	✓ -032		1615											1	X	X	X	X					X
-17	✓ -033		1620											1	X	X	X	X					
4	✓ -034		1636											2					X	X			
-18	✓ -035		1650											2					X	X			
-19	✓ -036		1130								2			4	X	X	X	X					
-20	✓ -037		1135											1	X	X	X	X					
-21	✓ -038		1140											1	X	X	X	X					
-22	✓ -039		1145											1	X	X	X	X				X	
-23	✓ -040		1305											1	X	X	X	X					
-24	✓ -041		1310											1	X	X	X	X					
-25	✓ -042		1315											1	X	X	X	X					
-26	✓ -043		1320											1	X	X	X	X					
-27	✓ -044		1325											1	X	X	X	X					
-28	✓ -045		1330											1	X	X	X	X				X	
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: see pg 1 comments				Total Number of Containers:				Notes/ Special Requirements:															
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:				All Samples in Cooler must be on COC																			
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME									
1. Matt Ransy		CRA		10/23/13		1625		1. Ransy		ALS		10/23/13		1625									
2.								2.															
3.								3.															

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1327



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Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-12407**

PAGE 3 OF 5

(See Reverse Side for Instructions)

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[illegible]

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& ASSOCIATES**

CHAIN OF CUSTODY RECORD

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COC NO.: **PL-12405**

PAGE **5** OF **5**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-TO2X13				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-TO2X13-023														
Project Name: Former GRMP				Lab Contact: Tom Bamish				Lab Quote No:				Cooler No:														
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)														
Chemistry Contact: Paul Wiseman				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Matrix Code (see back of COC)</th> <th>Grab (G) or Comp (C)</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO₃)</th> <th>Sulfuric Acid (H₂SO₄)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> <th>TCL VOCs</th> <th>PNA's</th> <th>PAH Metals</th> <th>MS/MSD Request</th> </tr> </table>				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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	TCL VOCs	PNA's	PAH Metals	MS/MSD Request	Carrier: CRA			
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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	TCL VOCs	PNA's	PAH Metals	MS/MSD Request								
Sampler(s): Matt Ramsey				Date Shipped: 10/23/13				COMMENTS/ SPECIAL INSTRUCTIONS:																		
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	TCL VOCs	PNA's	PAH Metals	MS/MSD Request								
1	SO-17360-102313-MR-076	10/23/13	1225	SO	G	2					2			4	X	X	X									
2	-077		1230			2					2			4	X	X	X									
3	GW-17360-102313-MR-078		1340	GW			3							3	X											
4	-079		1345				3							3	X											
5	TB-17360-102313-MR-080		-	TB							1			1	X											
6	-081		-				1							1	X											
7																										
8																										
9																										
10																										
11																										
12																										
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:		Notes/ Special Requirements:			
All Samples in Cooler must be on COC									
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME		
1. Matt Ramsey	CRA	10/23/13	1625	1. [Signature]	ALS	10/23/13	1625		
2.				2.					
3.				3.					

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13101246
10.10.12
COC NO.: **PL-12237**
PAGE 1 OF 5
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CRA Form: COC-10A (20110204)

13101246


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& ASSOCIATES**

* REVISED COC-10/30/13-PGW *

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Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-12406**PAGE **2** OF **5**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-10213				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-10213-023																			
Project Name: Former GRMP				Lab Contact: Tom Beamish				Lab Quote No:				Cooler No:																			
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)																			
Chemistry Contact: Paul Wiegman				Matrix Code (see back of COC)				Grab (G) or Comp (C)				Unpreserved																			
Sampler(s): Matt Ransy																															
Carrier: CRA				Airbill No:				Date Shipped: 10/23/13				COMMENTS/ SPECIAL INSTRUCTIONS:																			
Airbill No:				Date Shipped:																											
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yy)	TIME (hh:mm)	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 (Soil VOC)	EnCeres 3x5-g, 1x25-g	Other:	Total Containers/Sample	TOTAL VOL (HOLD)	WAS	TAL Metals	PCBs	TCUPVOC (HOLD)	TCUP Metals (HOLD)	TCUP Metals	MS/MSD Request							
-15	✓	S-017360-10213-MR-031			10/22/13	1010	SO	G	2							4	✓	✓	✓												
-16	✓	-032				1015										1	✓	✓	✓						✓						
-17	✓	-033				1020										2	✓	✓	✓												
-18	✓	-034				1030										2				✓	✓										
-19	✓	-035				1050										2				✓	✓										
-20	✓	-036				1130								2		4	✓	✓	✓												
-21	✓	-037				1135											✓	✓	✓												
-22	✓	-038				1140											✓	✓	✓												
-23	✓	-039				1145											✓	✓	✓						✓						
-24	✓	-040				1305											✓	✓	✓												
-25	✓	-041				1310											✓	✓	✓												
-26	✓	-042				1315											✓	✓	✓												
-27	✓	-043				1320											✓	✓	✓												
-28	✓	-044				1325											✓	✓	✓												
-29	✓	-045				1330											✓	✓	✓						✓						
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: <i>see pg 1 comments</i>																	Total Number of Containers:				Notes/ Special Requirements:										
All Samples in Cooler must be on COC																															
RELINQUISHED BY				COMPANY				DATE				TIME				RECEIVED BY				COMPANY				DATE				TIME			
1. <i>Matthew</i>				CRA				10/23/13				1625				1. <i>Ray</i>				ALS				10/23/13				1625			
2.																2.															
3.																3.															

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* REVISED COC - 10/30/13 - P6W *

CHAIN OF CUSTODY RECORD

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

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-12407**

PAGE **3** OF **5**

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13101246

Project No/ Phase/Task Code: 017360-702Y13				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-702Y13-023			
Project Name: Former GRMP				Lab Contact: Tom Benish				Lab Quote No:				Cooler No:			
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: Paul Wiseman				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 (Soil VOC) EnCores 3-5-9, 1-25-9 Other:				Total Containers/Sample TEL VOCs (Hold) TEL Metals (Hold) TEL VOCs (Hold) PNA's TEL Metals PCBs TEL Metals TEL VOCs MSMSD Request			
Sampler(s): Matt Raney															
Carrier: CRA				Airbill No:				Date Shipped: 10/23/13				COMMENTS/ SPECIAL INSTRUCTIONS:			
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)				DATE (mm/dd/yy)				TIME (hh:mm)							
1 SO-17360-102213-MR-046				10/22/13				1340				SO G 2			
2 -047				1400				2				4			
3 -048				1405				↓				↓			
4 -049				1410				↓				↓			
5 -050				1420				2				2			
6 -051				1445				2				4			
7 -052				1450				↓				↓			
8 -053				1455				↓				↓			
9 -054				1515				2				2			
10 -055				1525				2				2			
11 -056				1540				2				2			
12 -057				1555				2				2			
13 -058				1630				2				4			
14 -059				1635				↓				↓			
15 -060				1640				↓				↓			
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: 300 ps! Comments				Total Number of Containers:				Notes/ Special Requirements:							
All Samples in Cooler must be on COC															
RELINQUISHED BY Matt Raney				COMPANY CRA				DATE 10/23/13				TIME 1625			
1. Matt Raney				2. ALS				3. ALS				4. ALS			
2.				3.				4.				5.			
3.				4.				5.				6.			

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CRA Form: COC-10A (20110804)

Sample Receipt Checklist

Client Name: **CRA - PLYMOUTH**

Date/Time Received: **23-Oct-13 16:25**

Work Order: **13101246**

Received by: **KRW**

Checklist completed by <u>Keith Wurenga</u>	24-Oct-13	Reviewed by: <u>Tom Bramish</u>	24-Oct-13
eSignature	Date	eSignature	Date

Matrices: Soil & 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>4.0 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>10/24/2013 10:02:41 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:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



07-Nov-2013

Paul Wiseman
Conestoga-Rovers & Associates
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360-T02Y13)**

Work Order: **13101245**

Dear Paul,

ALS Environmental received 3 samples on 23-Oct-2013 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 15.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior 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

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Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Work Order: 13101245

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>
13101245-01	SO-017360-102113-MR-022	Soil		10/21/13 15:45	10/23/13 16:25	☐
13101245-02	SO-017360-102213-MR-034	Soil		10/22/13 10:30	10/23/13 16:25	☒
13101245-03	SO-017360-102213-MR-046	Soil		10/22/13 13:40	10/23/13 16:25	☒

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
WorkOrder: 13101245

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

<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
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

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Work Order: 13101245

Case Narrative**TCLP Metals - 40 CFR Part 261.24 (b)**

Parameter	Maximum Concentration For Toxicity Characteristic (mg/L)
Mercury	0.2
Arsenic	5.0
Barium	100
Cadmium	1.0
Chromium	5.0
Lead	5.0
Selenium	1.0
Silver	5.0

TCLP Volatiles - 40 CFR Part 261.24 (b)

Parameter	Maximum Concentration For Toxicity Characteristic (µg/L)
1,1-Dichloroethene	700
1,2-Dichloroethane	500
2-Butanone	200,000
Benzene	500
Carbon Tetrachloride	500
Chlorobenzene	100,000
Chloroform	6,000
Tetrachloroethene	700
Trichloroethene	500
Vinyl Chloride	200

ALS Group USA, Corp

Date: 07-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SO-017360-102113-MR-022
Collection Date: 10/21/13 03:45 PM

Work Order: 13101245
Lab ID: 13101245-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA							
			SW7470A			Prep: SW7470 / 11/5/13	Analyst: LR
BatchID: <u>53002</u>							
Mercury	0.00020	J	0.000080	0.0020	mg/L	1	11/05/13 15:05
TCLP METALS ANALYSIS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/5/13	Analyst: ML
BatchID: <u>52996</u>							
Arsenic	0.013		0.0072	0.010	mg/L	1	11/06/13 04:44
Barium	0.89		0.0027	0.050	mg/L	1	11/06/13 04:44
Cadmium	0.017		0.00034	0.0020	mg/L	1	11/06/13 04:44
Lead	0.078		0.00027	0.010	mg/L	1	11/06/13 04:44
BatchID: <u>52996</u>							
Chromium	U		0.0021	0.10	mg/L	5	11/06/13 16:15
Selenium	U		0.021	0.10	mg/L	5	11/06/13 16:15
Silver	U		0.0012	0.025	mg/L	5	11/06/13 16:15
TCLP VOLATILE ORGANICS							
			SW8260			Leachate: SW1311 / 11/4/13	Analyst: AK
BatchID: <u>R129781</u>							
1,1-Dichloroethene	U		3.9	20	µg/L	20	11/04/13 20:11
1,2-Dichloroethane	U		3.0	20	µg/L	20	11/04/13 20:11
2-Butanone	16	J	7.1	200	µg/L	20	11/04/13 20:11
Benzene	U		3.6	20	µg/L	20	11/04/13 20:11
Carbon tetrachloride	U		3.2	20	µg/L	20	11/04/13 20:11
Chlorobenzene	U		2.9	20	µg/L	20	11/04/13 20:11
Chloroform	U		3.8	20	µg/L	20	11/04/13 20:11
Tetrachloroethene	U		2.7	20	µg/L	20	11/04/13 20:11
Trichloroethene	U		3.8	20	µg/L	20	11/04/13 20:11
Vinyl chloride	U		5.6	20	µg/L	20	11/04/13 20:11
Surr: 1,2-Dichloroethane-d4	94.2			70-130	%REC	20	11/04/13 20:11
Surr: 4-Bromofluorobenzene	98.2			70-130	%REC	20	11/04/13 20:11
Surr: Dibromofluoromethane	99.7			70-130	%REC	20	11/04/13 20:11
Surr: Toluene-d8	95.6			70-130	%REC	20	11/04/13 20:11

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

Client: Conestoga-Rovers & Associates

Work Order: 13101245

Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **53002**

Instrument ID **HG1**

Method: **SW7470**

MBLK	Sample ID: MBLK-53002-53002					Units: mg/L	Analysis Date: 11/05/13 02:39 PM			
Client ID:	Run ID: HG1_131105A				SeqNo: 2523382	Prep Date: 11/05/13		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-53002-53002					Units: mg/L	Analysis Date: 11/05/13 02:41 PM			
Client ID:	Run ID: HG1_131105A				SeqNo: 2523383	Prep Date: 11/05/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.00198 0.00020 0.002 0 99 80-120 0

MS	Sample ID: 1311053-01AMS					Units: mg/L	Analysis Date: 11/05/13 02:47 PM			
Client ID:	Run ID: HG1_131105A				SeqNo: 2523386	Prep Date: 11/05/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.02093 0.0020 0.02 0.00014 104 75-125 0

MSD	Sample ID: 1311053-01AMSD					Units: mg/L	Analysis Date: 11/05/13 02:49 PM			
Client ID:	Run ID: HG1_131105A				SeqNo: 2523387	Prep Date: 11/05/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.02066 0.0020 0.02 0.00014 103 75-125 0.02093 1.3 20

The following samples were analyzed in this batch:

13101245-01B

Client: Conestoga-Rovers & Associates
Work Order: 13101245
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52996** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-52996-52996				Units: mg/L		Analysis Date: 11/05/13 05:09 PM		
Client ID:		Run ID: ICPMS1_131105A				SeqNo: 2523981		Prep Date: 11/05/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Lead	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								

LCS		Sample ID: LCS-52996-52996				Units: mg/L		Analysis Date: 11/05/13 05:16 PM		
Client ID:		Run ID: ICPMS1_131105A				SeqNo: 2523982		Prep Date: 11/05/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09891	0.0050	0.1	0	98.9	80-120	0			
Barium	0.09646	0.0050	0.1	0	96.5	80-120	0			
Cadmium	0.09995	0.0020	0.1	0	100	80-120	0			
Chromium	0.09409	0.0050	0.1	0	94.1	80-120	0			
Lead	0.09861	0.0050	0.1	0	98.6	80-120	0			
Selenium	0.09893	0.0050	0.1	0	98.9	80-120	0			
Silver	0.1021	0.0050	0.1	0	102	80-120	0			

MS		Sample ID: 13101619-02BMS				Units: mg/L		Analysis Date: 11/05/13 08:31 PM		
Client ID:		Run ID: ICPMS1_131105A				SeqNo: 2524421		Prep Date: 11/05/13		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.08735	0.25	0.1	-0.01066	98	75-125	0			J
Barium	0.3516	0.25	0.1	0.2773	74.2	75-125	0			S
Cadmium	0.0945	0.10	0.1	-0.0001012	94.6	75-125	0			J
Chromium	0.09575	0.25	0.1	0.003106	92.6	75-125	0			J
Lead	0.0995	0.25	0.1	0.004595	94.9	75-125	0			J
Selenium	0.0988	0.25	0.1	0.01804	80.8	75-125	0			J
Silver	0.09465	0.25	0.1	-0.001428	96.1	75-125	0			J

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

Client: Conestoga-Rovers & Associates
Work Order: 13101245
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52996** Instrument ID **ICPMS1** Method: **SW6020A**

MSD				Sample ID: 13101619-02BMSD			Units: mg/L		Analysis Date: 11/05/13 08:37 PM		
Client ID:			Run ID: ICPMS1_131105A			SeqNo: 2524425		Prep Date: 11/05/13		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	0.0954	0.25	0.1	-0.01066	106	75-125	0.08735	0	20	J	
Barium	0.3522	0.25	0.1	0.2773	74.8	75-125	0.3516	0.171	20	S	
Cadmium	0.0997	0.10	0.1	-0.0001012	99.8	75-125	0.0945	0	20	J	
Chromium	0.1046	0.25	0.1	0.003106	102	75-125	0.09575	0	20	J	
Lead	0.108	0.25	0.1	0.004595	103	75-125	0.0995	0	20	J	
Selenium	0.1032	0.25	0.1	0.01804	85.2	75-125	0.0988	0	20	J	
Silver	0.0981	0.25	0.1	-0.001428	99.5	75-125	0.09465	0	20	J	

The following samples were analyzed in this batch:

13101245-01B

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

Client: Conestoga-Rovers & Associates
Work Order: 13101245
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129781A** Instrument ID **VMS7** Method: **SW8260**

MBLK				Sample ID: VBLKW1-131104-R129781A				Units: µg/L			Analysis Date: 11/04/13 11:45 AM			
Client ID:				Run ID: VMS7_131104A				SeqNo: 2521216			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
1,1-Dichloroethene	U	1.0												
1,2-Dichloroethane	U	1.0												
2-Butanone	U	5.0												
Benzene	U	1.0												
Carbon tetrachloride	U	1.0												
Chlorobenzene	U	1.0												
Chloroform	U	1.0												
Tetrachloroethene	U	2.0												
Trichloroethene	U	1.0												
Vinyl chloride	U	1.0												
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.1</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>90.5</i>	<i>70-120</i>	<i>0</i>							
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.04</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>75-120</i>	<i>0</i>							
<i>Surr: Dibromofluoromethane</i>	<i>19.26</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.3</i>	<i>85-115</i>	<i>0</i>							
<i>Surr: Toluene-d8</i>	<i>19.2</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96</i>	<i>85-120</i>	<i>0</i>							

LCS				Sample ID: VLCSW1-131104-R129781A				Units: µg/L		Analysis Date: 11/04/13 10:33 AM	
Client ID:			Run ID: VMS7_131104A			SeqNo: 2521212		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1-Dichloroethene	19.07	1.0	20	0	95.4	70-130	0				
1,2-Dichloroethane	17.99	1.0	20	0	90	70-130	0				
2-Butanone	21.61	5.0	20	0	108	30-150	0				
Benzene	19.65	1.0	20	0	98.2	80-120	0				
Carbon tetrachloride	19.14	1.0	20	0	95.7	65-140	0				
Chlorobenzene	19.79	1.0	20	0	99	80-120	0				
Chloroform	17.81	1.0	20	0	89	65-135	0				
Tetrachloroethene	20.03	2.0	20	0	100	45-150	0				
Trichloroethene	19.14	1.0	20	0	95.7	70-125	0				
Vinyl chloride	17.4	1.0	20	0	87	50-145	0				
Surr: 1,2-Dichloroethane-d4	18.2	0	20	0	91	70-120	0				
Surr: 4-Bromofluorobenzene	20.72	0	20	0	104	75-120	0				
Surr: Dibromofluoromethane	19.48	0	20	0	97.4	85-115	0				
Surr: Toluene-d8	20.29	0	20	0	101	85-120	0				

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

Client: Conestoga-Rovers & Associates
Work Order: 13101245
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129781A** Instrument ID **VMS7** Method: **SW8260**

MS				Sample ID: 1311088-03A MS				Units: µg/L		Analysis Date: 11/04/13 08:59 PM		
Client ID:			Run ID: VMS7_131104A			SeqNo: 2522621		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
1,1-Dichloroethene	19.51	1.0	20	0	97.6	70-130	0					
1,2-Dichloroethane	17.02	1.0	20	0	85.1	70-130	0					
2-Butanone	17.27	5.0	20	0	86.4	30-150	0					
Benzene	18.96	1.0	20	0	94.8	80-120	0					
Carbon tetrachloride	19.73	1.0	20	0	98.6	65-140	0					
Chlorobenzene	18.36	1.0	20	0	91.8	80-120	0					
Chloroform	17.95	1.0	20	0	89.8	65-135	0					
Tetrachloroethene	41.8	2.0	20	21.06	104	45-150	0					
Trichloroethene	19.16	1.0	20	0	95.8	70-125	0					
Vinyl chloride	18.17	1.0	20	0	90.8	50-145	0					
Surr: 1,2-Dichloroethane-d4	17.28	0	20	0	86.4	70-120	0					
Surr: 4-Bromofluorobenzene	19.98	0	20	0	99.9	75-120	0					
Surr: Dibromofluoromethane	19.21	0	20	0	96	85-115	0					
Surr: Toluene-d8	19.61	0	20	0	98	85-120	0					

MSD					Sample ID: 1311088-03A MSD		Units: µg/L		Analysis Date: 11/04/13 09:23 PM		
Client ID:			Run ID: VMS7_131104A			SeqNo: 2522622		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1-Dichloroethene	20.33	1.0	20	0	102	70-130	19.51	4.12	30		
1,2-Dichloroethane	17.71	1.0	20	0	88.6	70-130	17.02	3.97	30		
2-Butanone	18.2	5.0	20	0	91	30-150	17.27	5.24	30		
Benzene	19.84	1.0	20	0	99.2	80-120	18.96	4.54	30		
Carbon tetrachloride	19.7	1.0	20	0	98.5	65-140	19.73	0.152	30		
Chlorobenzene	18.34	1.0	20	0	91.7	80-120	18.36	0.109	30		
Chloroform	18.48	1.0	20	0	92.4	65-135	17.95	2.91	30		
Tetrachloroethene	40.46	2.0	20	21.06	97	45-150	41.8	3.26	30		
Trichloroethene	19.55	1.0	20	0	97.8	70-125	19.16	2.01	30		
Vinyl chloride	18.45	1.0	20	0	92.2	50-145	18.17	1.53	30		
Surr: 1,2-Dichloroethane-d4	18.3	0	20	0	91.5	70-120	17.28	5.73	30		
Surr: 4-Bromofluorobenzene	20.35	0	20	0	102	75-120	19.98	1.83	30		
Surr: Dibromofluoromethane	19.01	0	20	0	95	85-115	19.21	1.05	30		
Surr: Toluene-d8	19.23	0	20	0	96.2	85-120	19.61	1.96	30		

The following samples were analyzed in this batch:

13101245-01A

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

13101245

COC NO.: **PL-12237**

PAGE 1 OF 5

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017360-102713				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-102713-023				
Project Name: Former GRMP				Lab Contact: Tom Bamish				Lab Quote No:				Cooler No:				
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				
Chemistry Contact: Paul W. Jensen				Matrix Code (See back of COC)				Grab (G) or Comp (C)				Carrier: CRA				
Sampler(s): Matt Ramsey				Unpreserved				Hydrochloric Acid (HCl)				Airbill No:				
				Nitric Acid (HNO ₃)				Sulfuric Acid (H ₂ SO ₄)				Date Shipped: 10/23/13				
				Sodium Hydroxide (NaOH)				Methanol/Water (Soil VOC)				MS/MSD Request				
				EnCores 3x5-g, 1x25-g				Other:				COMMENTS/SPECIAL INSTRUCTIONS				
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)				DATE (mm/dd/yy)				TIME (hh:mm)								
1	~~50-017360-102113-MR-001~~			10/21/13	1020	50	G	1								
2	-002				1050			1								
3	-003				1135			1								
4	-018				1515			2								
5	-019				1520											
6	-020				1525											
7	-021				1530											
8	-022				1545											
9	-023				1605											
10	-024				1610											
11	-025				1620											
12	-026				1625											
13	-027				1630											
14	50-017360-102213-MR-029			10/22/13	1645											
15	-030				1605											
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: <i>See comments</i>								Total Number of Containers:				Notes/ Special Requirements:				
								All Samples in Cooler must be on COC								
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME		
1. <i>Matt Ramsey</i>		CRA		10/23/13		1625		1. <i>R. W. Jensen</i>		ALS		10/23/13		1625		
2.								2.								
3.								3.								

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Distribution: WHITE - Fully Executed Copy (CRA)

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PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)

4.0°

RB



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

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL- 12406**

PAGE 2 OF 5

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-70213				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-70213-023			
Project Name: Former GRMP				Lab Contact: Tom Beamish				Lab Quote No:				Cooler No:			
Project Location: Wyoming, MI				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier: CRA			
Chemistry Contact: Paul Wierman												Airbill No:			
Sampler(s): Matt Ransy				Matrix Code (see back of COC)				Grab (G) or Comp (C)				Date Shipped: 10/23/13			
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)				DATE (mm/dd/yy)				TIME (h:mm)				COMMENTS/ SPECIAL INSTRUCTIONS			
1				2				3				4			
2				3				4				5			
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**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

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

Phone: (734) 453-5123

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COC NO.: **PL-12407**

PAGE **3** OF **5**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-T02Y13				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-T02Y13-023																																																
Project Name: Former GRMP				Lab Contact: Tom Benish				Lab Quote No:				Cooler No:																																																
Project Location: Wyoming, MI				<table border="1"> <tr> <th colspan="2">SAMPLE TYPE</th> <th colspan="8">CONTAINER QUANTITIES PRESERVATION</th> <th colspan="8">ANALYSIS REQUESTED</th> </tr> <tr> <th>Matrix Code (see back of COC)</th> <th>Grab (G) or Comp (C)</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO₃)</th> <th>Sulfuric Acid (H₂SO₄)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> <th>TEL VOCs (HOLD)</th> <th>TEL Metals (HOLD)</th> <th>TEL VOCs (HOLD)</th> <th>INAs</th> <th>TAL Metals</th> <th>PCBs</th> <th>TEL Metals</th> <th>TEL VOCs</th> <th>MS/MSD Request</th> </tr> </table>				SAMPLE TYPE		CONTAINER QUANTITIES PRESERVATION								ANALYSIS REQUESTED								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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	TEL VOCs (HOLD)	TEL Metals (HOLD)	TEL VOCs (HOLD)	INAs	TAL Metals	PCBs	TEL Metals	TEL VOCs	MS/MSD Request	Carrier: CRA														
SAMPLE TYPE		CONTAINER QUANTITIES PRESERVATION								ANALYSIS REQUESTED																																																		
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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)

103



**CONESTOGA-ROVERS
& ASSOCIATES**

*** REVISED LOC - 10/30/13 - PGW ***
CHAIN OF CUSTODY RECORD

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

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-12237**

PAGE **1** OF **5**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-102413				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-102413-023			
Project Name: Former GRMP				Lab Contact: Tom Bamish				Lab Quote No:				Cooler No:			
Project Location: Wyoming, MI				SAMPLE TYPE:				CONTAINER QUANTITY & PRESERVATION:				ANALYSIS REQUESTED (See Back of COC for Definitions)			
Chemistry Contact: Paul W. Zeman				Carrier: CRA				Airbill No:				Date Shipped: 10/23/13			
Sampler(s): Matt Ramsey				Matrix Code (see back of COC)				Grab (G) or Comp (C)				MS/MSD Request			
SAMPLER IDENTIFICATION (Containers for each sample may be combined on one line)				DATE (mm/dd/yyyy)				TIME (hh:mm)				COMMENTS/ SPECIAL INSTRUCTIONS:			
1 ~~50-017360-102113-MR-001~~				10/21/13				1020				50 G			
2 -002				1050				1							
3 -003				1135				1							
4 -018				1515				2				2			
5 -019				1520				1				4			
6 -020				1525				1				4			
7 -021				1530				1				4			
8 -022				1545				1				2			
9 -023				1605				1				4			
10 -024				1610				1				4			
11 -025				1620				1				4			
12 -026				1625				1				4			
13 -027				1630				1				4			
14 50-017360-102213-MR-029				10/23/13				945				2			
15 -030				1005				1				4			
TAT Required in business days (use separate COCs for different TATs):				Total Number of Containers:				Notes/ Special Requirements:							
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other: <i>See comments</i>				All Samples in Cooler must be on COC											
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME	
1. <i>Max</i>		CRA		10/23/13		1625		1. <i>Ching</i>		ALS		10/23/13		1625	
2.								2.							
3.								3.							

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CRA Form: COC-10A (20110804)

4.00

Sample Receipt Checklist

Client Name: **CRA - PLYMOUTH**

Date/Time Received: **23-Oct-13 16:25**

Work Order: **13101245**

Received by: **KRW**

Checklist completed by <u>Keith Wurenga</u>	24-Oct-13	Reviewed by: <u>Tom Bramish</u>	24-Oct-13
eSignature	Date	eSignature	Date

Matrices: Soil

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>4.0 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>10/24/2013 9:27:48 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:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



07-Nov-2013

Paul Wiseman
Conestoga-Rovers & Associates
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360-T02Y13)**

Work Order: **13101165**

Dear Paul,

ALS Environmental received 2 samples on 22-Oct-2013 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 20.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior 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-T02Y13)
Work Order: 13101165

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>
13101165-01	SB-017360-102113-MR-012	Tclp Extract		10/21/13 14:35	10/22/13 10:00	☐
13101165-02	SB-017360-102113-MR-004	Tclp Extract		10/21/13 13:15	10/22/13 10:00	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
WorkOrder: 13101165

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

<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
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

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Work Order: 13101165

Case Narrative

TCLP Metals - 40 CFR Part 261.24 (b)

Parameter	Maximum Concentration For Toxicity Characteristic (mg/L)
Mercury	0.2
Arsenic	5.0
Barium	100
Cadmium	1.0
Chromium	5.0
Lead	5.0
Selenium	1.0
Silver	5.0

TCLP Semi-Volatiles - 40 CFR Part 261.24 (b)

Parameter	Maximum Concentration For Toxicity Characteristic (µg/L)
1,4-Dichlorobenzene	7,500
2,4-Dinitrotoluene	130
Hexachloro-1,3-butadiene	500
Hexachlorobenzene	130
Hexachloroethane	3,000
Nitrobenzene	2,000
Pyridine	5,000
m-Cresol	200,000
o-Cresol	200,000
p-Cresol	200,000
Pentachlorophenol	100,000
2,4,5-Trichlorophenol	400,000
2,4,6-Trichlorophenol	2,000

TCLP Volatiles - 40 CFR Part 261.24 (b)

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Work Order: 13101165

Case Narrative

Parameter	Maximum Concentration For Toxicity Characteristic (µg/L)
1,1-Dichloroethene	700
1,2-Dichloroethane	500
2-Butanone	200,000
Benzene	500
Carbon Tetrachloride	500
Chlorobenzene	100,000
Chloroform	6,000
Tetrachloroethene	700
Trichloroethene	500
Vinyl Chloride	200

ALS Group USA, Corp

Date: 07-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-012
Collection Date: 10/21/13 02:35 PM

Work Order: 13101165
Lab ID: 13101165-01
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA							
			SW7470A			Prep: SW7470 / 11/4/13	Analyst: LR
BatchID: <u>52953</u>							
Mercury	0.00014	J	0.000080	0.0020	mg/L	1	11/04/13 14:51
TCLP METALS ANALYSIS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/4/13	Analyst: RH
BatchID: <u>52940</u>							
Arsenic	U		0.0072	0.010	mg/L	1	11/05/13 22:20
Barium	3.7		0.0027	0.050	mg/L	1	11/05/13 22:20
Cadmium	0.19		0.00034	0.0020	mg/L	1	11/05/13 22:20
Chromium	0.0042	J	0.00042	0.020	mg/L	1	11/05/13 22:20
Lead	13	*	0.00027	0.010	mg/L	1	11/05/13 22:20
Selenium	0.0070	J	0.0041	0.020	mg/L	1	11/05/13 22:20
Silver	U		0.00025	0.0050	mg/L	1	11/05/13 22:20
TCLP SEMI-VOLATILE ORGANICS							
			SW8270			Prep: SW3510 / 10/30/13	Analyst: HL
BatchID: <u>52794</u>							
1,4-Dichlorobenzene	U		5.8	100	µg/L	1	10/30/13 20:55
2,4,5-Trichlorophenol	U		5.0	100	µg/L	1	10/30/13 20:55
2,4,6-Trichlorophenol	U		5.4	100	µg/L	1	10/30/13 20:55
2,4-Dinitrotoluene	U		5.4	100	µg/L	1	10/30/13 20:55
Hexachloro-1,3-butadiene	U		4.7	100	µg/L	1	10/30/13 20:55
Hexachlorobenzene	U		4.4	100	µg/L	1	10/30/13 20:55
Hexachloroethane	U		9.5	100	µg/L	1	10/30/13 20:55
m-Cresol	U		3.9	100	µg/L	1	10/30/13 20:55
Nitrobenzene	U		6.6	100	µg/L	1	10/30/13 20:55
o-Cresol	U		4.0	100	µg/L	1	10/30/13 20:55
p-Cresol	U		3.9	100	µg/L	1	10/30/13 20:55
Pentachlorophenol	U		4.4	400	µg/L	1	10/30/13 20:55
Pyridine	U		7.0	400	µg/L	1	10/30/13 20:55
Surr: 2,4,6-Tribromophenol	73.0			38-115	%REC	1	10/30/13 20:55
Surr: 2-Fluorobiphenyl	65.1			32-100	%REC	1	10/30/13 20:55
Surr: 2-Fluorophenol	41.4			22-59	%REC	1	10/30/13 20:55
Surr: 4-Terphenyl-d14	87.4			23-112	%REC	1	10/30/13 20:55
Surr: Nitrobenzene-d5	66.7			31-93	%REC	1	10/30/13 20:55
Surr: Phenol-d6	26.1			13-36	%REC	1	10/30/13 20:55
TCLP VOLATILE ORGANICS							
			SW8260			Leachate: SW1311 / 11/4/13	Analyst: RS
BatchID: <u>R129805</u>							
1,1-Dichloroethene	U		3.9	20	µg/L	20	11/04/13 20:13
1,2-Dichloroethane	U		3.0	20	µg/L	20	11/04/13 20:13
2-Butanone	U		7.1	200	µg/L	20	11/04/13 20:13

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

ALS Group USA, Corp

Date: 07-Nov-13

Client: Conestoga-Rovers & Associates**Project:** Former GRMP (17360-T02Y13)**Sample ID:** SB-017360-102113-MR-012**Collection Date:** 10/21/13 02:35 PM**Work Order:** 13101165**Lab ID:** 13101165-01**Matrix:** TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Benzene	U		3.6	20	µg/L	20	11/04/13 20:13
Carbon tetrachloride	U		3.2	20	µg/L	20	11/04/13 20:13
Chlorobenzene	U		2.9	20	µg/L	20	11/04/13 20:13
Chloroform	U		3.8	20	µg/L	20	11/04/13 20:13
Tetrachloroethene	U		2.7	20	µg/L	20	11/04/13 20:13
Trichloroethene	U		3.8	20	µg/L	20	11/04/13 20:13
Vinyl chloride	U		5.6	20	µg/L	20	11/04/13 20:13
Surr: 1,2-Dichloroethane-d4	96.5			70-130	%REC	20	11/04/13 20:13
Surr: 4-Bromofluorobenzene	95.6			70-130	%REC	20	11/04/13 20:13
Surr: Dibromofluoromethane	99.8			70-130	%REC	20	11/04/13 20:13
Surr: Toluene-d8	97.2			70-130	%REC	20	11/04/13 20:13

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

ALS Group USA, Corp

Date: 07-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-004
Collection Date: 10/21/13 01:15 PM

Work Order: 13101165
Lab ID: 13101165-02
Matrix: TCLP EXTRACT

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA							
			SW7470A			Prep: SW7470 / 11/4/13	Analyst: LR
BatchID: 52953							
Mercury	0.00012	J	0.000080	0.0020	mg/L	1	11/04/13 14:53
TCLP METALS ANALYSIS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/4/13	Analyst: RH
BatchID: 52940							
Arsenic	U		0.0072	0.010	mg/L	1	11/05/13 22:26
Barium	0.41		0.0027	0.050	mg/L	1	11/05/13 22:26
Cadmium	0.013		0.00034	0.0020	mg/L	1	11/05/13 22:26
Chromium	0.0022	J	0.00042	0.020	mg/L	1	11/05/13 22:26
Lead	0.018		0.00027	0.010	mg/L	1	11/05/13 22:26
Selenium	0.0045	J	0.0041	0.020	mg/L	1	11/05/13 22:26
Silver	U		0.00025	0.0050	mg/L	1	11/05/13 22:26
TCLP SEMI-VOLATILE ORGANICS							
			SW8270			Prep: SW3510 / 10/30/13	Analyst: HL
BatchID: 52794							
1,4-Dichlorobenzene	U		5.8	100	µg/L	1	10/30/13 21:27
2,4,5-Trichlorophenol	U		5.0	100	µg/L	1	10/30/13 21:27
2,4,6-Trichlorophenol	U		5.4	100	µg/L	1	10/30/13 21:27
2,4-Dinitrotoluene	U		5.4	100	µg/L	1	10/30/13 21:27
Hexachloro-1,3-butadiene	U		4.7	100	µg/L	1	10/30/13 21:27
Hexachlorobenzene	U		4.4	100	µg/L	1	10/30/13 21:27
Hexachloroethane	U		9.5	100	µg/L	1	10/30/13 21:27
m-Cresol	U		3.9	100	µg/L	1	10/30/13 21:27
Nitrobenzene	U		6.6	100	µg/L	1	10/30/13 21:27
o-Cresol	U		4.0	100	µg/L	1	10/30/13 21:27
p-Cresol	U		3.9	100	µg/L	1	10/30/13 21:27
Pentachlorophenol	U		4.4	400	µg/L	1	10/30/13 21:27
Pyridine	U		7.0	400	µg/L	1	10/30/13 21:27
Surr: 2,4,6-Tribromophenol	76.6			38-115	%REC	1	10/30/13 21:27
Surr: 2-Fluorobiphenyl	64.4			32-100	%REC	1	10/30/13 21:27
Surr: 2-Fluorophenol	38.6			22-59	%REC	1	10/30/13 21:27
Surr: 4-Terphenyl-d14	83.5			23-112	%REC	1	10/30/13 21:27
Surr: Nitrobenzene-d5	66.2			31-93	%REC	1	10/30/13 21:27
Surr: Phenol-d6	25.2			13-36	%REC	1	10/30/13 21:27

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

Client: Conestoga-Rovers & Associates
Work Order: 13101165
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52953** Instrument ID **HG1** Method: **SW7470**

MBLK		Sample ID: MBLK-52953-52953				Units: mg/L		Analysis Date: 11/04/13 02:34 PM		
Client ID:		Run ID: HG1_131104A				SeqNo: 2521163		Prep Date: 11/04/13		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-52953-52953				Units: mg/L		Analysis Date: 11/04/13 02:37 PM		
Client ID:		Run ID: HG1_131104A				SeqNo: 2521164		Prep Date: 11/04/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002026	0.00020	0.002	0	101	80-120	0			

MS		Sample ID: 13101532-02AMS				Units: mg/L		Analysis Date: 11/04/13 02:47 PM		
Client ID:		Run ID: HG1_131104A				SeqNo: 2521169		Prep Date: 11/04/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002057	0.00020	0.002	0.00001	102	75-125	0			

MSD		Sample ID: 13101532-02AMSD				Units: mg/L		Analysis Date: 11/04/13 02:49 PM		
Client ID:		Run ID: HG1_131104A				SeqNo: 2521170		Prep Date: 11/04/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002069	0.00020	0.002	0.00001	103	75-125	0.002057	0.582	20	

The following samples were analyzed in this batch:

13101165-01A	13101165-02A

Client: Conestoga-Rovers & Associates
Work Order: 13101165
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52940** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-52940-52940				Units: mg/L		Analysis Date: 11/05/13 02:54 PM		
Client ID:		Run ID: ICPMS2_131105A				SeqNo: 2523495		Prep Date: 11/04/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Lead	0.00005927	0.0050								J
Selenium	U	0.0050								
Silver	U	0.0050								

LCS		Sample ID: LCS-52940-52940				Units: mg/L		Analysis Date: 11/05/13 03:00 PM		
Client ID:		Run ID: ICPMS2_131105A				SeqNo: 2523497		Prep Date: 11/04/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09699	0.0050	0.1	0	97	80-120	0			
Barium	0.09662	0.0050	0.1	0	96.6	80-120	0			
Cadmium	0.09718	0.0020	0.1	0	97.2	80-120	0			
Chromium	0.09629	0.0050	0.1	0	96.3	80-120	0			
Lead	0.09283	0.0050	0.1	0	92.8	80-120	0			
Selenium	0.09584	0.0050	0.1	0	95.8	80-120	0			
Silver	0.1022	0.0050	0.1	0	102	80-120	0			

MS		Sample ID: 13101563-06CMS				Units: mg/L		Analysis Date: 11/05/13 03:22 PM		
Client ID:		Run ID: ICPMS2_131105A				SeqNo: 2523506		Prep Date: 11/04/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09993	0.0050	0.1	0.000612	99.3	75-125	0			
Barium	0.1158	0.0050	0.1	0.01916	96.6	75-125	0			
Cadmium	0.09678	0.0020	0.1	-0.0001598	96.9	75-125	0			
Chromium	0.09633	0.0050	0.1	0.0002475	96.1	75-125	0			
Lead	0.09325	0.0050	0.1	0.0001584	93.1	75-125	0			
Selenium	0.0978	0.0050	0.1	0.00008796	97.7	75-125	0			
Silver	0.09815	0.0050	0.1	0.00002105	98.1	75-125	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101165
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52940** Instrument ID **ICPMS2** Method: **SW6020A**

MSD		Sample ID: 13101563-06CMSD				Units: mg/L		Analysis Date: 11/05/13 03:27 PM		
Client ID:		Run ID: ICPMS2_131105A				SeqNo: 2523508		Prep Date: 11/04/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1006	0.0050	0.1	0.000612	100	75-125	0.09993	0.668	20	
Barium	0.115	0.0050	0.1	0.01916	95.8	75-125	0.1158	0.693	20	
Cadmium	0.09634	0.0020	0.1	-0.0001598	96.5	75-125	0.09678	0.456	20	
Chromium	0.09604	0.0050	0.1	0.0002475	95.8	75-125	0.09633	0.302	20	
Lead	0.0923	0.0050	0.1	0.0001584	92.1	75-125	0.09325	1.02	20	
Selenium	0.09882	0.0050	0.1	0.00008796	98.7	75-125	0.0978	1.04	20	
Silver	0.09824	0.0050	0.1	0.00002105	98.2	75-125	0.09815	0.0917	20	

The following samples were analyzed in this batch:

13101165-01A	13101165-02A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101165
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52794** Instrument ID **SVMS4** Method: **SW8270**

MBLK		Sample ID: SBLKW1-52794-52794				Units: µg/L		Analysis Date: 10/30/13 08:23 PM		
Client ID:		Run ID: SVMS4_131030A				SeqNo: 2515387		Prep Date: 10/30/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	U	5.0								
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
Hexachloro-1,3-butadiene	U	5.0								
Hexachlorobenzene	U	5.0								
Hexachloroethane	U	5.0								
m-Cresol	U	5.0								
Nitrobenzene	U	5.0								
o-Cresol	U	5.0								
p-Cresol	U	5.0								
Pentachlorophenol	U	20								
Pyridine	U	20								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>31.27</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>62.5</i>	<i>38-115</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>25.55</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>51.1</i>	<i>32-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>15.01</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>30</i>	<i>22-59</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>42.1</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>84.2</i>	<i>23-112</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>26.61</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>53.2</i>	<i>31-93</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>9.17</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>18.3</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: 13101165
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52794** Instrument ID **SVMS4** Method: **SW8270**

LCS		Sample ID: SLCSW1-52794-52794				Units: µg/L		Analysis Date: 10/30/13 06:17 PM		
Client ID:		Run ID: SVMS4_131030A				SeqNo: 2515378		Prep Date: 10/30/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	12.18	5.0	20	0	60.9	30-110	0			
2,4,5-Trichlorophenol	12.47	5.0	20	0	62.4	50-110	0			
2,4,6-Trichlorophenol	12.93	5.0	20	0	64.6	50-115	0			
2,4-Dinitrotoluene	15.51	5.0	20	0	77.6	50-120	0			
Hexachloro-1,3-butadiene	12.42	5.0	20	0	62.1	25-105	0			
Hexachlorobenzene	15.31	5.0	20	0	76.6	50-110	0			
Hexachloroethane	12.66	5.0	20	0	63.3	30-95	0			
m-Cresol	7.98	5.0	20	0	39.9	30-110	0			
Nitrobenzene	12.71	5.0	20	0	63.6	45-110	0			
o-Cresol	8.73	5.0	20	0	43.6	40-110	0			
p-Cresol	7.98	5.0	20	0	39.9	30-110	0			
Pentachlorophenol	9.09	20	20	0	45.4	40-115	0			J
Pyridine	4.84	20	20	0	24.2	10-71	0			J
<i>Surr: 2,4,6-Tribromophenol</i>	<i>35.87</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>71.7</i>	<i>38-115</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>29.73</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>59.5</i>	<i>32-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>15.41</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>30.8</i>	<i>22-59</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>40.38</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>80.8</i>	<i>23-112</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>30.74</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>61.5</i>	<i>31-93</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>10.18</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>20.4</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: 13101165
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52794** Instrument ID **SVMS4** Method: **SW8270**

MS				Sample ID: 13101397-05B MS			Units: µg/L		Analysis Date: 10/30/13 06:48 PM	
Client ID:				Run ID: SVMS4_131030A			SeqNo: 2515381		Prep Date: 10/30/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	125	50	200	0	62.5	30-110	0			
2,4,5-Trichlorophenol	130.1	50	200	0	65	50-110	0			
2,4,6-Trichlorophenol	133	50	200	0	66.5	50-115	0			
2,4-Dinitrotoluene	148.5	50	200	0	74.2	50-120	0			
Hexachloro-1,3-butadiene	126.2	50	200	0	63.1	25-105	0			
Hexachlorobenzene	147.2	50	200	0	73.6	50-110	0			
Hexachloroethane	128.9	50	200	0	64.4	30-95	0			
m-Cresol	94.1	50	200	0	47	30-110	0			
Nitrobenzene	132.4	50	200	0	66.2	45-110	0			
o-Cresol	101.6	50	200	0	50.8	40-110	0			
p-Cresol	94.1	50	200	0	47	30-110	0			
Pentachlorophenol	106.9	200	200	0	53.4	40-115	0			J
Pyridine	59.4	200	200	0	29.7	10-80	0			J
<i>Surr: 2,4,6-Tribromophenol</i>	<i>352.3</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>70.5</i>	<i>38-115</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>307.5</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>61.5</i>	<i>32-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>187.4</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>37.5</i>	<i>22-59</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>399.1</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>79.8</i>	<i>23-112</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>318.6</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>63.7</i>	<i>31-93</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>116.2</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>23.2</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: 13101165
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52794** Instrument ID **SVMS4** Method: **SW8270**

MSD				Sample ID: 13101397-05B MSD				Units: µg/L		Analysis Date: 10/30/13 07:20 PM	
Client ID:			Run ID: SVMS4_131030A			SeqNo: 2515383		Prep Date: 10/30/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,4-Dichlorobenzene	87	50	200	0	43.5	30-110	125	35.8	30	R	
2,4,5-Trichlorophenol	101.5	50	200	0	50.8	50-110	130.1	24.7	30		
2,4,6-Trichlorophenol	99	50	200	0	49.5	50-115	133	29.3	30	S	
2,4-Dinitrotoluene	147.4	50	200	0	73.7	50-120	148.5	0.743	30		
Hexachloro-1,3-butadiene	87.1	50	200	0	43.6	25-105	126.2	36.7	30	R	
Hexachlorobenzene	139	50	200	0	69.5	50-110	147.2	5.73	30		
Hexachloroethane	85.1	50	200	0	42.6	30-95	128.9	40.9	30	R	
m-Cresol	72.2	50	200	0	36.1	30-110	94.1	26.3	30		
Nitrobenzene	93.8	50	200	0	46.9	45-110	132.4	34.1	30	R	
o-Cresol	76.1	50	200	0	38	40-110	101.6	28.7	30	S	
p-Cresol	72.2	50	200	0	36.1	30-110	94.1	26.3	30		
Pentachlorophenol	100	200	200	0	50	40-115	106.9	0	30	J	
Pyridine	55	200	200	0	27.5	10-80	59.4	0	30	J	
Surr: 2,4,6-Tribromophenol	321.4	0	500	0	64.3	38-115	352.3	9.17	0		
Surr: 2-Fluorobiphenyl	225.2	0	500	0	45	32-100	307.5	30.9	0		
Surr: 2-Fluorophenol	138.8	0	500	0	27.8	22-59	187.4	29.8	0		
Surr: 4-Terphenyl-d14	410.2	0	500	0	82	23-112	399.1	2.74	0		
Surr: Nitrobenzene-d5	226.2	0	500	0	45.2	31-93	318.6	33.9	0		
Surr: Phenol-d6	90.1	0	500	0	18	13-36	116.2	25.3	0		

The following samples were analyzed in this batch:

13101165-01A	13101165-02A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101165
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129805** Instrument ID **VMS9** Method: **SW8260**

MBLK				Sample ID: VBLKW1-131104-R129805				Units: µg/L			Analysis Date: 11/04/13 02:10 PM		
Client ID:			Run ID: VMS9_131104A			SeqNo: 2521298			Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
1,1-Dichloroethene	U	1.0											
1,2-Dichloroethane	U	1.0											
2-Butanone	U	5.0											
Benzene	U	1.0											
Carbon tetrachloride	U	1.0											
Chlorobenzene	U	1.0											
Chloroform	U	1.0											
Tetrachloroethene	U	2.0											
Trichloroethene	U	1.0											
Vinyl chloride	U	1.0											
Surr: 1,2-Dichloroethane-d4	19.5	0	20	0	97.5	70-120		0					
Surr: 4-Bromofluorobenzene	18.37	0	20	0	91.8	75-120		0					
Surr: Dibromofluoromethane	20.88	0	20	0	104	85-115		0					
Surr: Toluene-d8	19.05	0	20	0	95.2	85-120		0					

LCS				Sample ID: VLCSW1-131104-R129805				Units: µg/L		Analysis Date: 11/04/13 12:58 PM	
Client ID:			Run ID: VMS9_131104A			SeqNo: 2521297		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1-Dichloroethene	17.07	1.0	20	0	85.4	70-130	0				
1,2-Dichloroethane	17.4	1.0	20	0	87	70-130	0				
2-Butanone	15.98	5.0	20	0	79.9	30-150	0				
Benzene	19.81	1.0	20	0	99	80-120	0				
Carbon tetrachloride	16.84	1.0	20	0	84.2	65-140	0				
Chlorobenzene	19.54	1.0	20	0	97.7	80-120	0				
Chloroform	18.18	1.0	20	0	90.9	65-135	0				
Tetrachloroethene	18.56	2.0	20	0	92.8	45-150	0				
Trichloroethene	20.04	1.0	20	0	100	70-125	0				
Vinyl chloride	16.26	1.0	20	0	81.3	50-145	0				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.21</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>91</i>	<i>70-120</i>	<i>0</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.06</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>75-120</i>	<i>0</i>				
<i>Surr: Dibromofluoromethane</i>	<i>20.77</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>85-115</i>	<i>0</i>				
<i>Surr: Toluene-d8</i>	<i>19.53</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.6</i>	<i>85-120</i>	<i>0</i>				

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

Client: Conestoga-Rovers & Associates
Work Order: 13101165
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129805** Instrument ID **VMS9** Method: **SW8260**

MS					Sample ID: 13101598-04A MS			Units: µg/L		Analysis Date: 11/04/13 10:38 PM	
Client ID:			Run ID: VMS9_131104A			SeqNo:2522429		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1-Dichloroethene	16.2	1.0	20	0	81	70-130	0				
1,2-Dichloroethane	18.75	1.0	20	0	93.8	70-130	0				
2-Butanone	12.84	5.0	20	0	64.2	30-150	0				
Benzene	87.94	1.0	20	73.12	74.1	80-120	0			S	
Carbon tetrachloride	18.22	1.0	20	0	91.1	65-140	0				
Chlorobenzene	19.96	1.0	20	0	99.8	80-120	0				
Chloroform	18.64	1.0	20	0	93.2	65-135	0				
Tetrachloroethene	17.97	2.0	20	0	89.8	45-150	0				
Trichloroethene	20.63	1.0	20	0	103	70-125	0				
Vinyl chloride	16.16	1.0	20	0	80.8	50-145	0				
Surr: 1,2-Dichloroethane-d4	18.55	0	20	0	92.8	70-120	0				
Surr: 4-Bromofluorobenzene	19.72	0	20	0	98.6	75-120	0				
Surr: Dibromofluoromethane	20.6	0	20	0	103	85-115	0				
Surr: Toluene-d8	20.91	0	20	0	105	85-120	0				

MSD					Sample ID: 13101598-04A MSD			Units: µg/L		Analysis Date: 11/04/13 11:02 PM	
Client ID:			Run ID: VMS9_131104A			SeqNo: 2522431		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1-Dichloroethene	15.81	1.0	20	0	79	70-130	16.2	2.44	30		
1,2-Dichloroethane	18.21	1.0	20	0	91	70-130	18.75	2.92	30		
2-Butanone	12.81	5.0	20	0	64	30-150	12.84	0.234	30		
Benzene	85.16	1.0	20	73.12	60.2	80-120	87.94	3.21	30	S	
Carbon tetrachloride	18.22	1.0	20	0	91.1	65-140	18.22	0	30		
Chlorobenzene	19.65	1.0	20	0	98.2	80-120	19.96	1.57	30		
Chloroform	17.92	1.0	20	0	89.6	65-135	18.64	3.94	30		
Tetrachloroethene	17.5	2.0	20	0	87.5	45-150	17.97	2.65	30		
Trichloroethene	20.2	1.0	20	0	101	70-125	20.63	2.11	30		
Vinyl chloride	16.36	1.0	20	0	81.8	50-145	16.16	1.23	30		
Surr: 1,2-Dichloroethane-d4	18.32	0	20	0	91.6	70-120	18.55	1.25	30		
Surr: 4-Bromofluorobenzene	19.67	0	20	0	98.4	75-120	19.72	0.254	30		
Surr: Dibromofluoromethane	20.1	0	20	0	100	85-115	20.6	2.46	30		
Surr: Toluene-d8	20.7	0	20	0	104	85-120	20.91	1.01	30		

The following samples were analyzed in this batch:

13101165-01B

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

13101165
COC NO.: PL-12409
PAGE 7 OF

(See Reverse Side for Instructions)

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

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GOLDENROD — Sampling Crew

CRA Form: COC-10A (20110804)



CHAIN OF CUSTODY RECORD

Fax: (734) 453-5201

13101165
COC NO.: PL-12409

PAGE 7 OF

(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)

YELLOW – Receiving Laboratory Copy

PINK – Shipper

GOLDENROD — Sampling Crew

2 CRA Form: COC-10A (20110804)

Sample Receipt Checklist

Client Name: **CRA - PLYMOUTH**

Date/Time Received: **22-Oct-13 10:00**

Work Order: **13101165**

Received by: **KRW**

Checklist completed by Keith Wurenga 22-Oct-13 Reviewed by: Tom Bramish 22-Oct-13
eSignature Date eSignature Date

Matrices: **Soil**

Carrier name: **FedEx**

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>5.2 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>10/22/2013 4:15:25 PM</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:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



26-Oct-2013

Paul Wiseman
Conestoga-Rovers & Associates
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360-T02Y13)**

Work Order: **13101141**

Dear Paul,

ALS Environmental received 15 samples on 22-Oct-2013 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 47.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior 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-T02Y13)
Work Order: 13101141

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>
13101141-01	SB-017360-102113-MR-005	Soil		10/21/13 13:20	10/22/13 10:00	☐
13101141-02	SB-017360-102113-MR-006	Soil		10/21/13 13:20	10/22/13 10:00	☐
13101141-03	SB-017360-102113-MR-007	Soil		10/21/13 13:30	10/22/13 10:00	☐
13101141-04	SB-017360-102113-MR-008	Soil		10/21/13 13:35	10/22/13 10:00	☐
13101141-05	SB-017360-102113-MR-009	Soil		10/21/13 13:40	10/22/13 10:00	☐
13101141-06	SB-017360-102113-MR-010	Soil		10/21/13 13:45	10/22/13 10:00	☐
13101141-07	SB-017360-102113-MR-011	Soil		10/21/13 13:55	10/22/13 10:00	☐
13101141-08	SB-017360-102113-MR-012	Soil		10/21/13 14:35	10/22/13 10:00	☒
13101141-09	SB-017360-102113-MR-013	Soil		10/21/13 14:40	10/22/13 10:00	☐
13101141-10	SB-017360-102113-MR-014	Soil		10/21/13 14:45	10/22/13 10:00	☐
13101141-11	SB-017360-102113-MR-015	Soil		10/21/13 14:50	10/22/13 10:00	☐
13101141-12	SB-017360-102113-MR-016	Soil		10/21/13 14:55	10/22/13 10:00	☐
13101141-13	SB-017360-102113-MR-017	Soil		10/21/13 15:00	10/22/13 10:00	☐
13101141-14	SB-017360-102113-MR-028	Soil		10/21/13	10/22/13 10:00	☐
13101141-15	SB-017360-102113-MR-004	Soil		10/21/13 13:15	10/22/13 10:00	☒

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
WorkOrder: 13101141

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

<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
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg	Micrograms per Kilogram
µg/Kg-dry	Micrograms per Kilogram Dry Weight

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Work Order: 13101141

Case Narrative**Analytical Comments:**

Batch 52569, Method VOC_8260_S, Sample 13101141-05A: The analysis was run at dilution due to matrix interference.

The positive results for Acetone and Methyl acetate should be considered as sample artifacts and not inherent in the samples themselves, unless historical data from the site indicates otherwise. There were no observances of these analytes in the associated method blanks, therefore lab contamination is not suspected. The exact source of the artifacts are not able to be determined, but potential causes could be any of the following: sample collection equipment and procedures, sample storage and transport, and/or background laboratory levels due to routine analytical procedures or factors affecting the air handling system within the laboratory. These analytes are commonly found at low levels in environmental samples and positive results should be considered as estimated.

QC Comments:

Batch 52569, Method VOC_8260_S, Sample LCS-52569: The LCS recovery was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for 4-Methyl-2-pentanone.

Batch 52569, Method VOC_8260_S, Sample 13101141-11A MS: The MS and/or MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for Bromoform and Dibromochloromethane.

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-005
Collection Date: 10/21/13 01:20 PM

Work Order: 13101141
Lab ID: 13101141-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13		Analyst: BG
BatchID: 52569							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	10/24/13 15:35
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	10/24/13 15:35
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	10/24/13 15:35
1,1,2-Trichlorotrifluoroethane	U		13	34	µg/Kg-dry	1	10/24/13 15:35
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	10/24/13 15:35
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	10/24/13 15:35
1,2,4-Trichlorobenzene	U		18	34	µg/Kg-dry	1	10/24/13 15:35
1,2-Dibromo-3-chloropropane	U		17	34	µg/Kg-dry	1	10/24/13 15:35
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	10/24/13 15:35
1,2-Dichlorobenzene	U		14	34	µg/Kg-dry	1	10/24/13 15:35
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	10/24/13 15:35
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	10/24/13 15:35
1,3-Dichlorobenzene	U		14	34	µg/Kg-dry	1	10/24/13 15:35
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	10/24/13 15:35
2-Butanone	U		84	230	µg/Kg-dry	1	10/24/13 15:35
2-Hexanone	U		8.3	34	µg/Kg-dry	1	10/24/13 15:35
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	10/24/13 15:35
Acetone	U		72	110	µg/Kg-dry	1	10/24/13 15:35
Benzene	U		14	34	µg/Kg-dry	1	10/24/13 15:35
Bromodichloromethane	U		7.6	34	µg/Kg-dry	1	10/24/13 15:35
Bromoform	U		6.7	34	µg/Kg-dry	1	10/24/13 15:35
Bromomethane	U		13	85	µg/Kg-dry	1	10/24/13 15:35
Carbon disulfide	U		17	34	µg/Kg-dry	1	10/24/13 15:35
Carbon tetrachloride	U		9.7	34	µg/Kg-dry	1	10/24/13 15:35
Chlorobenzene	U		14	34	µg/Kg-dry	1	10/24/13 15:35
Chloroethane	U		72	110	µg/Kg-dry	1	10/24/13 15:35
Chloroform	U		14	34	µg/Kg-dry	1	10/24/13 15:35
Chloromethane	U		19	110	µg/Kg-dry	1	10/24/13 15:35
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	10/24/13 15:35
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	10/24/13 15:35
Cyclohexane	U		15	34	µg/Kg-dry	1	10/24/13 15:35
Dibromochloromethane	U		6.3	34	µg/Kg-dry	1	10/24/13 15:35
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	10/24/13 15:35
Ethylbenzene	U		13	34	µg/Kg-dry	1	10/24/13 15:35
Isopropylbenzene	U		15	34	µg/Kg-dry	1	10/24/13 15:35
Methyl acetate	U		46	230	µg/Kg-dry	1	10/24/13 15:35
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	10/24/13 15:35

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-005
Collection Date: 10/21/13 01:20 PM

Work Order: 13101141
Lab ID: 13101141-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		16	34	µg/Kg-dry	1	10/24/13 15:35
Methylene chloride	U		13	34	µg/Kg-dry	1	10/24/13 15:35
Styrene	U		13	34	µg/Kg-dry	1	10/24/13 15:35
Tetrachloroethene	U		15	34	µg/Kg-dry	1	10/24/13 15:35
Toluene	U		13	34	µg/Kg-dry	1	10/24/13 15:35
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	10/24/13 15:35
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	10/24/13 15:35
Trichloroethene	U		16	34	µg/Kg-dry	1	10/24/13 15:35
Trichlorofluoromethane	U		9.4	34	µg/Kg-dry	1	10/24/13 15:35
Vinyl chloride	U		15	34	µg/Kg-dry	1	10/24/13 15:35
Xylenes, Total	U		40	100	µg/Kg-dry	1	10/24/13 15:35
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/24/13 15:35
Surr: 4-Bromofluorobenzene	98.5			70-130	%REC	1	10/24/13 15:35
Surr: Dibromofluoromethane	92.6			70-130	%REC	1	10/24/13 15:35
Surr: Toluene-d8	100			70-130	%REC	1	10/24/13 15:35
MOISTURE			A2540 G				Analyst: MEB
<u>BatchID: R129165</u>							
Moisture	6.8		0.025	0.050	% of sample	1	10/23/13 18:20

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-006
Collection Date: 10/21/13 01:20 PM

Work Order: 13101141
Lab ID: 13101141-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13		Analyst: BG
<u>BatchID: 52569</u>							
1,1,1-Trichloroethane	U		16	42	µg/Kg-dry	1	10/24/13 16:24
1,1,2,2-Tetrachloroethane	U		18	42	µg/Kg-dry	1	10/24/13 16:24
1,1,2-Trichloroethane	U		15	42	µg/Kg-dry	1	10/24/13 16:24
1,1,2-Trichlorotrifluoroethane	U		15	42	µg/Kg-dry	1	10/24/13 16:24
1,1-Dichloroethane	U		15	42	µg/Kg-dry	1	10/24/13 16:24
1,1-Dichloroethene	U		18	42	µg/Kg-dry	1	10/24/13 16:24
1,2,4-Trichlorobenzene	U		22	42	µg/Kg-dry	1	10/24/13 16:24
1,2-Dibromo-3-chloropropane	U		20	42	µg/Kg-dry	1	10/24/13 16:24
1,2-Dibromoethane	U		16	42	µg/Kg-dry	1	10/24/13 16:24
1,2-Dichlorobenzene	U		17	42	µg/Kg-dry	1	10/24/13 16:24
1,2-Dichloroethane	U		20	42	µg/Kg-dry	1	10/24/13 16:24
1,2-Dichloropropane	U		14	42	µg/Kg-dry	1	10/24/13 16:24
1,3-Dichlorobenzene	U		17	42	µg/Kg-dry	1	10/24/13 16:24
1,4-Dichlorobenzene	U		16	42	µg/Kg-dry	1	10/24/13 16:24
2-Butanone	U		100	280	µg/Kg-dry	1	10/24/13 16:24
2-Hexanone	U		10	42	µg/Kg-dry	1	10/24/13 16:24
4-Methyl-2-pentanone	U		14	42	µg/Kg-dry	1	10/24/13 16:24
Acetone	U		89	140	µg/Kg-dry	1	10/24/13 16:24
Benzene	U		17	42	µg/Kg-dry	1	10/24/13 16:24
Bromodichloromethane	U		9.4	42	µg/Kg-dry	1	10/24/13 16:24
Bromoform	U		8.2	42	µg/Kg-dry	1	10/24/13 16:24
Bromomethane	U		16	100	µg/Kg-dry	1	10/24/13 16:24
Carbon disulfide	U		21	42	µg/Kg-dry	1	10/24/13 16:24
Carbon tetrachloride	U		12	42	µg/Kg-dry	1	10/24/13 16:24
Chlorobenzene	U		17	42	µg/Kg-dry	1	10/24/13 16:24
Chloroethane	U		89	140	µg/Kg-dry	1	10/24/13 16:24
Chloroform	U		17	42	µg/Kg-dry	1	10/24/13 16:24
Chloromethane	U		23	140	µg/Kg-dry	1	10/24/13 16:24
cis-1,2-Dichloroethene	U		17	42	µg/Kg-dry	1	10/24/13 16:24
cis-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	10/24/13 16:24
Cyclohexane	U		19	42	µg/Kg-dry	1	10/24/13 16:24
Dibromochloromethane	U		7.7	42	µg/Kg-dry	1	10/24/13 16:24
Dichlorodifluoromethane	U		19	42	µg/Kg-dry	1	10/24/13 16:24
Ethylbenzene	U		16	42	µg/Kg-dry	1	10/24/13 16:24
Isopropylbenzene	U		18	42	µg/Kg-dry	1	10/24/13 16:24
Methyl acetate	U		56	280	µg/Kg-dry	1	10/24/13 16:24
Methyl tert-butyl ether	U		18	42	µg/Kg-dry	1	10/24/13 16:24

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates**Project:** Former GRMP (17360-T02Y13)**Sample ID:** SB-017360-102113-MR-006**Collection Date:** 10/21/13 01:20 PM**Work Order:** 13101141**Lab ID:** 13101141-02**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		19	42	µg/Kg-dry	1	10/24/13 16:24
Methylene chloride	U		16	42	µg/Kg-dry	1	10/24/13 16:24
Styrene	U		16	42	µg/Kg-dry	1	10/24/13 16:24
Tetrachloroethene	U		19	42	µg/Kg-dry	1	10/24/13 16:24
Toluene	U		16	42	µg/Kg-dry	1	10/24/13 16:24
trans-1,2-Dichloroethene	U		13	42	µg/Kg-dry	1	10/24/13 16:24
trans-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	10/24/13 16:24
Trichloroethene	U		20	42	µg/Kg-dry	1	10/24/13 16:24
Trichlorofluoromethane	U		12	42	µg/Kg-dry	1	10/24/13 16:24
Vinyl chloride	U		19	42	µg/Kg-dry	1	10/24/13 16:24
Xylenes, Total	U		49	130	µg/Kg-dry	1	10/24/13 16:24
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	10/24/13 16:24
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	10/24/13 16:24
Surr: Dibromofluoromethane	92.2			70-130	%REC	1	10/24/13 16:24
Surr: Toluene-d8	100			70-130	%REC	1	10/24/13 16:24
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129165</u>							
Moisture	6.0		0.025	0.050	% of sample	1	10/23/13 18:20

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-007
Collection Date: 10/21/13 01:30 PM

Work Order: 13101141
Lab ID: 13101141-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13	Analyst: BG	
<u>BatchID: 52569</u>							
1,1,1-Trichloroethane	U		13	33	µg/Kg-dry	1	10/24/13 16:49
1,1,2,2-Tetrachloroethane	U		15	33	µg/Kg-dry	1	10/24/13 16:49
1,1,2-Trichloroethane	U		12	33	µg/Kg-dry	1	10/24/13 16:49
1,1,2-Trichlorotrifluoroethane	U		12	33	µg/Kg-dry	1	10/24/13 16:49
1,1-Dichloroethane	U		12	33	µg/Kg-dry	1	10/24/13 16:49
1,1-Dichloroethene	U		14	33	µg/Kg-dry	1	10/24/13 16:49
1,2,4-Trichlorobenzene	U		17	33	µg/Kg-dry	1	10/24/13 16:49
1,2-Dibromo-3-chloropropane	U		16	33	µg/Kg-dry	1	10/24/13 16:49
1,2-Dibromoethane	U		13	33	µg/Kg-dry	1	10/24/13 16:49
1,2-Dichlorobenzene	U		13	33	µg/Kg-dry	1	10/24/13 16:49
1,2-Dichloroethane	U		16	33	µg/Kg-dry	1	10/24/13 16:49
1,2-Dichloropropane	U		11	33	µg/Kg-dry	1	10/24/13 16:49
1,3-Dichlorobenzene	U		13	33	µg/Kg-dry	1	10/24/13 16:49
1,4-Dichlorobenzene	U		13	33	µg/Kg-dry	1	10/24/13 16:49
2-Butanone	U		82	220	µg/Kg-dry	1	10/24/13 16:49
2-Hexanone	U		8.2	33	µg/Kg-dry	1	10/24/13 16:49
4-Methyl-2-pentanone	U		11	33	µg/Kg-dry	1	10/24/13 16:49
Acetone	210		70	110	µg/Kg-dry	1	10/24/13 16:49
Benzene	U		13	33	µg/Kg-dry	1	10/24/13 16:49
Bromodichloromethane	U		7.5	33	µg/Kg-dry	1	10/24/13 16:49
Bromoform	U		6.6	33	µg/Kg-dry	1	10/24/13 16:49
Bromomethane	U		13	83	µg/Kg-dry	1	10/24/13 16:49
Carbon disulfide	U		16	33	µg/Kg-dry	1	10/24/13 16:49
Carbon tetrachloride	U		9.5	33	µg/Kg-dry	1	10/24/13 16:49
Chlorobenzene	U		14	33	µg/Kg-dry	1	10/24/13 16:49
Chloroethane	U		71	110	µg/Kg-dry	1	10/24/13 16:49
Chloroform	U		14	33	µg/Kg-dry	1	10/24/13 16:49
Chloromethane	U		19	110	µg/Kg-dry	1	10/24/13 16:49
cis-1,2-Dichloroethene	U		13	33	µg/Kg-dry	1	10/24/13 16:49
cis-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	10/24/13 16:49
Cyclohexane	U		15	33	µg/Kg-dry	1	10/24/13 16:49
Dibromochloromethane	U		6.2	33	µg/Kg-dry	1	10/24/13 16:49
Dichlorodifluoromethane	U		15	33	µg/Kg-dry	1	10/24/13 16:49
Ethylbenzene	13	J	12	33	µg/Kg-dry	1	10/24/13 16:49
Isopropylbenzene	15	J	14	33	µg/Kg-dry	1	10/24/13 16:49
Methyl acetate	250		45	220	µg/Kg-dry	1	10/24/13 16:49
Methyl tert-butyl ether	U		14	33	µg/Kg-dry	1	10/24/13 16:49

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-007
Collection Date: 10/21/13 01:30 PM

Work Order: 13101141
Lab ID: 13101141-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		15	33	µg/Kg-dry	1	10/24/13 16:49
Methylene chloride	U		13	33	µg/Kg-dry	1	10/24/13 16:49
Styrene	U		12	33	µg/Kg-dry	1	10/24/13 16:49
Tetrachloroethene	U		15	33	µg/Kg-dry	1	10/24/13 16:49
Toluene	22	J	12	33	µg/Kg-dry	1	10/24/13 16:49
trans-1,2-Dichloroethene	U		10	33	µg/Kg-dry	1	10/24/13 16:49
trans-1,3-Dichloropropene	U		11	33	µg/Kg-dry	1	10/24/13 16:49
Trichloroethene	U		16	33	µg/Kg-dry	1	10/24/13 16:49
Trichlorofluoromethane	U		9.2	33	µg/Kg-dry	1	10/24/13 16:49
Vinyl chloride	U		15	33	µg/Kg-dry	1	10/24/13 16:49
Xylenes, Total	51	J	39	100	µg/Kg-dry	1	10/24/13 16:49
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	10/24/13 16:49
Surr: 4-Bromofluorobenzene	98.8			70-130	%REC	1	10/24/13 16:49
Surr: Dibromofluoromethane	95.0			70-130	%REC	1	10/24/13 16:49
Surr: Toluene-d8	99.8			70-130	%REC	1	10/24/13 16:49
MOISTURE			A2540 G				Analyst: MEB
BatchID: R129165							
Moisture	7.1		0.025	0.050	% of sample	1	10/23/13 18:20

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-008
Collection Date: 10/21/13 01:35 PM

Work Order: 13101141
Lab ID: 13101141-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13	Analyst: BG	
BatchID: 52569							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	10/24/13 17:14
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	10/24/13 17:14
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	10/24/13 17:14
1,1,2-Trichlorotrifluoroethane	U		12	34	µg/Kg-dry	1	10/24/13 17:14
1,1-Dichloroethane	U		12	34	µg/Kg-dry	1	10/24/13 17:14
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	10/24/13 17:14
1,2,4-Trichlorobenzene	U		17	34	µg/Kg-dry	1	10/24/13 17:14
1,2-Dibromo-3-chloropropane	U		16	34	µg/Kg-dry	1	10/24/13 17:14
1,2-Dibromoethane	U		13	34	µg/Kg-dry	1	10/24/13 17:14
1,2-Dichlorobenzene	U		13	34	µg/Kg-dry	1	10/24/13 17:14
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	10/24/13 17:14
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	10/24/13 17:14
1,3-Dichlorobenzene	U		13	34	µg/Kg-dry	1	10/24/13 17:14
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	10/24/13 17:14
2-Butanone	U		83	220	µg/Kg-dry	1	10/24/13 17:14
2-Hexanone	U		8.3	34	µg/Kg-dry	1	10/24/13 17:14
4-Methyl-2-pentanone	U		11	34	µg/Kg-dry	1	10/24/13 17:14
Acetone	U		71	110	µg/Kg-dry	1	10/24/13 17:14
Benzene	U		14	34	µg/Kg-dry	1	10/24/13 17:14
Bromodichloromethane	U		7.5	34	µg/Kg-dry	1	10/24/13 17:14
Bromoform	U		6.6	34	µg/Kg-dry	1	10/24/13 17:14
Bromomethane	U		13	84	µg/Kg-dry	1	10/24/13 17:14
Carbon disulfide	U		17	34	µg/Kg-dry	1	10/24/13 17:14
Carbon tetrachloride	U		9.6	34	µg/Kg-dry	1	10/24/13 17:14
Chlorobenzene	U		14	34	µg/Kg-dry	1	10/24/13 17:14
Chloroethane	U		71	110	µg/Kg-dry	1	10/24/13 17:14
Chloroform	U		14	34	µg/Kg-dry	1	10/24/13 17:14
Chloromethane	U		19	110	µg/Kg-dry	1	10/24/13 17:14
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	10/24/13 17:14
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	10/24/13 17:14
Cyclohexane	U		15	34	µg/Kg-dry	1	10/24/13 17:14
Dibromochloromethane	U		6.2	34	µg/Kg-dry	1	10/24/13 17:14
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	10/24/13 17:14
Ethylbenzene	15	J	12	34	µg/Kg-dry	1	10/24/13 17:14
Isopropylbenzene	65		14	34	µg/Kg-dry	1	10/24/13 17:14
Methyl acetate	U		45	220	µg/Kg-dry	1	10/24/13 17:14
Methyl tert-butyl ether	U		14	34	µg/Kg-dry	1	10/24/13 17:14

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-008
Collection Date: 10/21/13 01:35 PM

Work Order: 13101141
Lab ID: 13101141-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		16	34	µg/Kg-dry	1	10/24/13 17:14
Methylene chloride	U		13	34	µg/Kg-dry	1	10/24/13 17:14
Styrene	U		13	34	µg/Kg-dry	1	10/24/13 17:14
Tetrachloroethene	U		15	34	µg/Kg-dry	1	10/24/13 17:14
Toluene	U		13	34	µg/Kg-dry	1	10/24/13 17:14
trans-1,2-Dichloroethene	U		10	34	µg/Kg-dry	1	10/24/13 17:14
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	10/24/13 17:14
Trichloroethene	U		16	34	µg/Kg-dry	1	10/24/13 17:14
Trichlorofluoromethane	U		9.3	34	µg/Kg-dry	1	10/24/13 17:14
Vinyl chloride	U		15	34	µg/Kg-dry	1	10/24/13 17:14
Xylenes, Total	100		40	100	µg/Kg-dry	1	10/24/13 17:14
Surr: 1,2-Dichloroethane-d4	99.2			70-130	%REC	1	10/24/13 17:14
Surr: 4-Bromofluorobenzene	106			70-130	%REC	1	10/24/13 17:14
Surr: Dibromofluoromethane	91.2			70-130	%REC	1	10/24/13 17:14
Surr: Toluene-d8	100			70-130	%REC	1	10/24/13 17:14
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129202</u>							
Moisture	11		0.025	0.050	% of sample	1	10/24/13 12:10

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-009
Collection Date: 10/21/13 01:40 PM

Work Order: 13101141
Lab ID: 13101141-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13		Analyst: BG
BatchID: 52569							
1,1,1-Trichloroethane	U		250	660	µg/Kg-dry	20	10/24/13 17:39
1,1,2,2-Tetrachloroethane	U		290	660	µg/Kg-dry	20	10/24/13 17:39
1,1,2-Trichloroethane	U		230	660	µg/Kg-dry	20	10/24/13 17:39
1,1,2-Trichlorotrifluoroethane	U		240	660	µg/Kg-dry	20	10/24/13 17:39
1,1-Dichloroethane	U		240	660	µg/Kg-dry	20	10/24/13 17:39
1,1-Dichloroethene	U		280	660	µg/Kg-dry	20	10/24/13 17:39
1,2,4-Trichlorobenzene	U		340	660	µg/Kg-dry	20	10/24/13 17:39
1,2-Dibromo-3-chloropropane	U		320	660	µg/Kg-dry	20	10/24/13 17:39
1,2-Dibromoethane	U		260	660	µg/Kg-dry	20	10/24/13 17:39
1,2-Dichlorobenzene	U		260	660	µg/Kg-dry	20	10/24/13 17:39
1,2-Dichloroethane	U		310	660	µg/Kg-dry	20	10/24/13 17:39
1,2-Dichloropropane	U		220	660	µg/Kg-dry	20	10/24/13 17:39
1,3-Dichlorobenzene	U		260	660	µg/Kg-dry	20	10/24/13 17:39
1,4-Dichlorobenzene	U		250	660	µg/Kg-dry	20	10/24/13 17:39
2-Butanone	U		1,600	4,400	µg/Kg-dry	20	10/24/13 17:39
2-Hexanone	U		160	660	µg/Kg-dry	20	10/24/13 17:39
4-Methyl-2-pentanone	U		220	660	µg/Kg-dry	20	10/24/13 17:39
Acetone	U		1,400	2,200	µg/Kg-dry	20	10/24/13 17:39
Benzene	U		260	660	µg/Kg-dry	20	10/24/13 17:39
Bromodichloromethane	U		150	660	µg/Kg-dry	20	10/24/13 17:39
Bromoform	U		130	660	µg/Kg-dry	20	10/24/13 17:39
Bromomethane	U		250	1,600	µg/Kg-dry	20	10/24/13 17:39
Carbon disulfide	U		320	660	µg/Kg-dry	20	10/24/13 17:39
Carbon tetrachloride	U		190	660	µg/Kg-dry	20	10/24/13 17:39
Chlorobenzene	U		270	660	µg/Kg-dry	20	10/24/13 17:39
Chloroethane	U		1,400	2,200	µg/Kg-dry	20	10/24/13 17:39
Chloroform	U		270	660	µg/Kg-dry	20	10/24/13 17:39
Chloromethane	U		360	2,200	µg/Kg-dry	20	10/24/13 17:39
cis-1,2-Dichloroethene	U		270	660	µg/Kg-dry	20	10/24/13 17:39
cis-1,3-Dichloropropene	U		220	660	µg/Kg-dry	20	10/24/13 17:39
Cyclohexane	U		290	660	µg/Kg-dry	20	10/24/13 17:39
Dibromochloromethane	U		120	660	µg/Kg-dry	20	10/24/13 17:39
Dichlorodifluoromethane	U		300	660	µg/Kg-dry	20	10/24/13 17:39
Ethylbenzene	U		240	660	µg/Kg-dry	20	10/24/13 17:39
Isopropylbenzene	U		280	660	µg/Kg-dry	20	10/24/13 17:39
Methyl acetate	U		880	4,400	µg/Kg-dry	20	10/24/13 17:39
Methyl tert-butyl ether	U		280	660	µg/Kg-dry	20	10/24/13 17:39

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-009
Collection Date: 10/21/13 01:40 PM

Work Order: 13101141
Lab ID: 13101141-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		300	660	µg/Kg-dry	20	10/24/13 17:39
Methylene chloride	U		260	660	µg/Kg-dry	20	10/24/13 17:39
Styrene	U		240	660	µg/Kg-dry	20	10/24/13 17:39
Tetrachloroethene	U		290	660	µg/Kg-dry	20	10/24/13 17:39
Toluene	U		250	660	µg/Kg-dry	20	10/24/13 17:39
trans-1,2-Dichloroethene	U		200	660	µg/Kg-dry	20	10/24/13 17:39
trans-1,3-Dichloropropene	U		220	660	µg/Kg-dry	20	10/24/13 17:39
Trichloroethene	U		310	660	µg/Kg-dry	20	10/24/13 17:39
Trichlorofluoromethane	U		180	660	µg/Kg-dry	20	10/24/13 17:39
Vinyl chloride	U		300	660	µg/Kg-dry	20	10/24/13 17:39
Xylenes, Total	U		770	2,000	µg/Kg-dry	20	10/24/13 17:39
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	20	10/24/13 17:39
Surr: 4-Bromofluorobenzene	102			70-130	%REC	20	10/24/13 17:39
Surr: Dibromofluoromethane	94.8			70-130	%REC	20	10/24/13 17:39
Surr: Toluene-d8	101			70-130	%REC	20	10/24/13 17:39
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129202</u>							
Moisture	8.5		0.025	0.050	% of sample	1	10/24/13 12:10

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-010
Collection Date: 10/21/13 01:45 PM

Work Order: 13101141
Lab ID: 13101141-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13	Analyst: BG	
BatchID: 52569							
1,1,1-Trichloroethane	U		13	34	µg/Kg-dry	1	10/24/13 18:03
1,1,2,2-Tetrachloroethane	U		15	34	µg/Kg-dry	1	10/24/13 18:03
1,1,2-Trichloroethane	U		12	34	µg/Kg-dry	1	10/24/13 18:03
1,1,2-Trichlorotrifluoroethane	U		13	34	µg/Kg-dry	1	10/24/13 18:03
1,1-Dichloroethane	U		13	34	µg/Kg-dry	1	10/24/13 18:03
1,1-Dichloroethene	U		14	34	µg/Kg-dry	1	10/24/13 18:03
1,2,4-Trichlorobenzene	U		18	34	µg/Kg-dry	1	10/24/13 18:03
1,2-Dibromo-3-chloropropane	U		17	34	µg/Kg-dry	1	10/24/13 18:03
1,2-Dibromoethane	U		14	34	µg/Kg-dry	1	10/24/13 18:03
1,2-Dichlorobenzene	U		14	34	µg/Kg-dry	1	10/24/13 18:03
1,2-Dichloroethane	U		16	34	µg/Kg-dry	1	10/24/13 18:03
1,2-Dichloropropane	U		11	34	µg/Kg-dry	1	10/24/13 18:03
1,3-Dichlorobenzene	U		14	34	µg/Kg-dry	1	10/24/13 18:03
1,4-Dichlorobenzene	U		13	34	µg/Kg-dry	1	10/24/13 18:03
2-Butanone	U		85	230	µg/Kg-dry	1	10/24/13 18:03
2-Hexanone	U		8.4	34	µg/Kg-dry	1	10/24/13 18:03
4-Methyl-2-pentanone	U		12	34	µg/Kg-dry	1	10/24/13 18:03
Acetone	U		73	110	µg/Kg-dry	1	10/24/13 18:03
Benzene	U		14	34	µg/Kg-dry	1	10/24/13 18:03
Bromodichloromethane	U		7.7	34	µg/Kg-dry	1	10/24/13 18:03
Bromoform	U		6.7	34	µg/Kg-dry	1	10/24/13 18:03
Bromomethane	U		13	86	µg/Kg-dry	1	10/24/13 18:03
Carbon disulfide	U		17	34	µg/Kg-dry	1	10/24/13 18:03
Carbon tetrachloride	U		9.7	34	µg/Kg-dry	1	10/24/13 18:03
Chlorobenzene	U		14	34	µg/Kg-dry	1	10/24/13 18:03
Chloroethane	U		73	110	µg/Kg-dry	1	10/24/13 18:03
Chloroform	U		14	34	µg/Kg-dry	1	10/24/13 18:03
Chloromethane	U		19	110	µg/Kg-dry	1	10/24/13 18:03
cis-1,2-Dichloroethene	U		14	34	µg/Kg-dry	1	10/24/13 18:03
cis-1,3-Dichloropropene	U		12	34	µg/Kg-dry	1	10/24/13 18:03
Cyclohexane	U		15	34	µg/Kg-dry	1	10/24/13 18:03
Dibromochloromethane	U		6.3	34	µg/Kg-dry	1	10/24/13 18:03
Dichlorodifluoromethane	U		15	34	µg/Kg-dry	1	10/24/13 18:03
Ethylbenzene	17	J	13	34	µg/Kg-dry	1	10/24/13 18:03
Isopropylbenzene	77		15	34	µg/Kg-dry	1	10/24/13 18:03
Methyl acetate	U		46	230	µg/Kg-dry	1	10/24/13 18:03
Methyl tert-butyl ether	U		15	34	µg/Kg-dry	1	10/24/13 18:03

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-010
Collection Date: 10/21/13 01:45 PM

Work Order: 13101141
Lab ID: 13101141-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		16	34	µg/Kg-dry	1	10/24/13 18:03
Methylene chloride	U		13	34	µg/Kg-dry	1	10/24/13 18:03
Styrene	U		13	34	µg/Kg-dry	1	10/24/13 18:03
Tetrachloroethene	U		15	34	µg/Kg-dry	1	10/24/13 18:03
Toluene	U		13	34	µg/Kg-dry	1	10/24/13 18:03
trans-1,2-Dichloroethene	U		11	34	µg/Kg-dry	1	10/24/13 18:03
trans-1,3-Dichloropropene	U		11	34	µg/Kg-dry	1	10/24/13 18:03
Trichloroethene	U		16	34	µg/Kg-dry	1	10/24/13 18:03
Trichlorofluoromethane	U		9.4	34	µg/Kg-dry	1	10/24/13 18:03
Vinyl chloride	U		15	34	µg/Kg-dry	1	10/24/13 18:03
Xylenes, Total	120		40	100	µg/Kg-dry	1	10/24/13 18:03
Surr: 1,2-Dichloroethane-d4	99.9			70-130	%REC	1	10/24/13 18:03
Surr: 4-Bromofluorobenzene	108			70-130	%REC	1	10/24/13 18:03
Surr: Dibromofluoromethane	93.0			70-130	%REC	1	10/24/13 18:03
Surr: Toluene-d8	100			70-130	%REC	1	10/24/13 18:03
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129202</u>							
Moisture	12		0.025	0.050	% of sample	1	10/24/13 12:10

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-011
Collection Date: 10/21/13 01:55 PM

Work Order: 13101141
Lab ID: 13101141-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13		Analyst: BG
<u>BatchID: 52569</u>							
1,1,1-Trichloroethane	U		12	32	µg/Kg-dry	1	10/24/13 18:28
1,1,2,2-Tetrachloroethane	U		14	32	µg/Kg-dry	1	10/24/13 18:28
1,1,2-Trichloroethane	U		11	32	µg/Kg-dry	1	10/24/13 18:28
1,1,2-Trichlorotrifluoroethane	U		12	32	µg/Kg-dry	1	10/24/13 18:28
1,1-Dichloroethane	U		12	32	µg/Kg-dry	1	10/24/13 18:28
1,1-Dichloroethene	U		13	32	µg/Kg-dry	1	10/24/13 18:28
1,2,4-Trichlorobenzene	U		17	32	µg/Kg-dry	1	10/24/13 18:28
1,2-Dibromo-3-chloropropane	U		16	32	µg/Kg-dry	1	10/24/13 18:28
1,2-Dibromoethane	U		13	32	µg/Kg-dry	1	10/24/13 18:28
1,2-Dichlorobenzene	U		13	32	µg/Kg-dry	1	10/24/13 18:28
1,2-Dichloroethane	U		15	32	µg/Kg-dry	1	10/24/13 18:28
1,2-Dichloropropane	U		11	32	µg/Kg-dry	1	10/24/13 18:28
1,3-Dichlorobenzene	U		13	32	µg/Kg-dry	1	10/24/13 18:28
1,4-Dichlorobenzene	U		12	32	µg/Kg-dry	1	10/24/13 18:28
2-Butanone	U		79	210	µg/Kg-dry	1	10/24/13 18:28
2-Hexanone	U		7.9	32	µg/Kg-dry	1	10/24/13 18:28
4-Methyl-2-pentanone	U		11	32	µg/Kg-dry	1	10/24/13 18:28
Acetone	U		68	110	µg/Kg-dry	1	10/24/13 18:28
Benzene	U		13	32	µg/Kg-dry	1	10/24/13 18:28
Bromodichloromethane	U		7.2	32	µg/Kg-dry	1	10/24/13 18:28
Bromoform	U		6.3	32	µg/Kg-dry	1	10/24/13 18:28
Bromomethane	U		12	80	µg/Kg-dry	1	10/24/13 18:28
Carbon disulfide	U		16	32	µg/Kg-dry	1	10/24/13 18:28
Carbon tetrachloride	U		9.1	32	µg/Kg-dry	1	10/24/13 18:28
Chlorobenzene	U		13	32	µg/Kg-dry	1	10/24/13 18:28
Chloroethane	U		68	110	µg/Kg-dry	1	10/24/13 18:28
Chloroform	U		13	32	µg/Kg-dry	1	10/24/13 18:28
Chloromethane	U		18	110	µg/Kg-dry	1	10/24/13 18:28
cis-1,2-Dichloroethene	U		13	32	µg/Kg-dry	1	10/24/13 18:28
cis-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	10/24/13 18:28
Cyclohexane	U		14	32	µg/Kg-dry	1	10/24/13 18:28
Dibromochloromethane	U		5.9	32	µg/Kg-dry	1	10/24/13 18:28
Dichlorodifluoromethane	U		14	32	µg/Kg-dry	1	10/24/13 18:28
Ethylbenzene	U		12	32	µg/Kg-dry	1	10/24/13 18:28
Isopropylbenzene	U		14	32	µg/Kg-dry	1	10/24/13 18:28
Methyl acetate	U		43	210	µg/Kg-dry	1	10/24/13 18:28
Methyl tert-butyl ether	U		14	32	µg/Kg-dry	1	10/24/13 18:28

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-011
Collection Date: 10/21/13 01:55 PM

Work Order: 13101141
Lab ID: 13101141-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		15	32	µg/Kg-dry	1	10/24/13 18:28
Methylene chloride	U		13	32	µg/Kg-dry	1	10/24/13 18:28
Styrene	U		12	32	µg/Kg-dry	1	10/24/13 18:28
Tetrachloroethene	U		14	32	µg/Kg-dry	1	10/24/13 18:28
Toluene	U		12	32	µg/Kg-dry	1	10/24/13 18:28
trans-1,2-Dichloroethene	U		9.9	32	µg/Kg-dry	1	10/24/13 18:28
trans-1,3-Dichloropropene	U		11	32	µg/Kg-dry	1	10/24/13 18:28
Trichloroethene	U		15	32	µg/Kg-dry	1	10/24/13 18:28
Trichlorofluoromethane	U		8.8	32	µg/Kg-dry	1	10/24/13 18:28
Vinyl chloride	U		14	32	µg/Kg-dry	1	10/24/13 18:28
Xylenes, Total	U		38	96	µg/Kg-dry	1	10/24/13 18:28
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/24/13 18:28
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	10/24/13 18:28
Surr: Dibromofluoromethane	92.6			70-130	%REC	1	10/24/13 18:28
Surr: Toluene-d8	101			70-130	%REC	1	10/24/13 18:28
MOISTURE			A2540 G				Analyst: MEB
BatchID: R129202							
Moisture	6.3		0.025	0.050	% of sample	1	10/24/13 12:10

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-013
Collection Date: 10/21/13 02:40 PM

Work Order: 13101141
Lab ID: 13101141-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13		Analyst: BG
BatchID: 52569							
1,1,1-Trichloroethane	U		16	42	µg/Kg-dry	1	10/24/13 04:08
1,1,2,2-Tetrachloroethane	U		18	42	µg/Kg-dry	1	10/24/13 04:08
1,1,2-Trichloroethane	U		15	42	µg/Kg-dry	1	10/24/13 04:08
1,1,2-Trichlorotrifluoroethane	U		15	42	µg/Kg-dry	1	10/24/13 04:08
1,1-Dichloroethane	U		15	42	µg/Kg-dry	1	10/24/13 04:08
1,1-Dichloroethene	U		18	42	µg/Kg-dry	1	10/24/13 04:08
1,2,4-Trichlorobenzene	U		22	42	µg/Kg-dry	1	10/24/13 04:08
1,2-Dibromo-3-chloropropane	U		20	42	µg/Kg-dry	1	10/24/13 04:08
1,2-Dibromoethane	U		16	42	µg/Kg-dry	1	10/24/13 04:08
1,2-Dichlorobenzene	U		17	42	µg/Kg-dry	1	10/24/13 04:08
1,2-Dichloroethane	U		20	42	µg/Kg-dry	1	10/24/13 04:08
1,2-Dichloropropane	U		14	42	µg/Kg-dry	1	10/24/13 04:08
1,3-Dichlorobenzene	U		17	42	µg/Kg-dry	1	10/24/13 04:08
1,4-Dichlorobenzene	U		16	42	µg/Kg-dry	1	10/24/13 04:08
2-Butanone	U		100	280	µg/Kg-dry	1	10/24/13 04:08
2-Hexanone	U		10	42	µg/Kg-dry	1	10/24/13 04:08
4-Methyl-2-pentanone	U		14	42	µg/Kg-dry	1	10/24/13 04:08
Acetone	U		88	140	µg/Kg-dry	1	10/24/13 04:08
Benzene	U		17	42	µg/Kg-dry	1	10/24/13 04:08
Bromodichloromethane	U		9.3	42	µg/Kg-dry	1	10/24/13 04:08
Bromoform	U		8.2	42	µg/Kg-dry	1	10/24/13 04:08
Bromomethane	U		16	100	µg/Kg-dry	1	10/24/13 04:08
Carbon disulfide	U		21	42	µg/Kg-dry	1	10/24/13 04:08
Carbon tetrachloride	U		12	42	µg/Kg-dry	1	10/24/13 04:08
Chlorobenzene	U		17	42	µg/Kg-dry	1	10/24/13 04:08
Chloroethane	U		88	140	µg/Kg-dry	1	10/24/13 04:08
Chloroform	U		17	42	µg/Kg-dry	1	10/24/13 04:08
Chloromethane	U		23	140	µg/Kg-dry	1	10/24/13 04:08
cis-1,2-Dichloroethene	U		17	42	µg/Kg-dry	1	10/24/13 04:08
cis-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	10/24/13 04:08
Cyclohexane	U		19	42	µg/Kg-dry	1	10/24/13 04:08
Dibromochloromethane	U		7.7	42	µg/Kg-dry	1	10/24/13 04:08
Dichlorodifluoromethane	U		19	42	µg/Kg-dry	1	10/24/13 04:08
Ethylbenzene	U		15	42	µg/Kg-dry	1	10/24/13 04:08
Isopropylbenzene	U		18	42	µg/Kg-dry	1	10/24/13 04:08
Methyl acetate	U		56	280	µg/Kg-dry	1	10/24/13 04:08
Methyl tert-butyl ether	U		18	42	µg/Kg-dry	1	10/24/13 04:08

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-013
Collection Date: 10/21/13 02:40 PM

Work Order: 13101141
Lab ID: 13101141-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		19	42	µg/Kg-dry	1	10/24/13 04:08
Methylene chloride	U		16	42	µg/Kg-dry	1	10/24/13 04:08
Styrene	U		16	42	µg/Kg-dry	1	10/24/13 04:08
Tetrachloroethene	U		19	42	µg/Kg-dry	1	10/24/13 04:08
Toluene	U		16	42	µg/Kg-dry	1	10/24/13 04:08
trans-1,2-Dichloroethene	U		13	42	µg/Kg-dry	1	10/24/13 04:08
trans-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	10/24/13 04:08
Trichloroethene	480		19	42	µg/Kg-dry	1	10/24/13 04:08
Trichlorofluoromethane	U		11	42	µg/Kg-dry	1	10/24/13 04:08
Vinyl chloride	U		19	42	µg/Kg-dry	1	10/24/13 04:08
Xylenes, Total	U		49	130	µg/Kg-dry	1	10/24/13 04:08
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/24/13 04:08
Surr: 4-Bromofluorobenzene	94.1			70-130	%REC	1	10/24/13 04:08
Surr: Dibromofluoromethane	95.2			70-130	%REC	1	10/24/13 04:08
Surr: Toluene-d8	100			70-130	%REC	1	10/24/13 04:08
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129202</u>							
Moisture	9.3		0.025	0.050	% of sample	1	10/24/13 12:10

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-014
Collection Date: 10/21/13 02:45 PM

Work Order: 13101141
Lab ID: 13101141-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13		Analyst: BG
BatchID: 52569							
1,1,1-Trichloroethane	U		16	42	µg/Kg-dry	1	10/24/13 04:31
1,1,2,2-Tetrachloroethane	U		18	42	µg/Kg-dry	1	10/24/13 04:31
1,1,2-Trichloroethane	U		15	42	µg/Kg-dry	1	10/24/13 04:31
1,1,2-Trichlorotrifluoroethane	U		16	42	µg/Kg-dry	1	10/24/13 04:31
1,1-Dichloroethane	U		15	42	µg/Kg-dry	1	10/24/13 04:31
1,1-Dichloroethene	U		18	42	µg/Kg-dry	1	10/24/13 04:31
1,2,4-Trichlorobenzene	U		22	42	µg/Kg-dry	1	10/24/13 04:31
1,2-Dibromo-3-chloropropane	U		20	42	µg/Kg-dry	1	10/24/13 04:31
1,2-Dibromoethane	U		17	42	µg/Kg-dry	1	10/24/13 04:31
1,2-Dichlorobenzene	U		17	42	µg/Kg-dry	1	10/24/13 04:31
1,2-Dichloroethane	U		20	42	µg/Kg-dry	1	10/24/13 04:31
1,2-Dichloropropane	U		14	42	µg/Kg-dry	1	10/24/13 04:31
1,3-Dichlorobenzene	U		17	42	µg/Kg-dry	1	10/24/13 04:31
1,4-Dichlorobenzene	U		16	42	µg/Kg-dry	1	10/24/13 04:31
2-Butanone	U		100	280	µg/Kg-dry	1	10/24/13 04:31
2-Hexanone	U		10	42	µg/Kg-dry	1	10/24/13 04:31
4-Methyl-2-pentanone	U		14	42	µg/Kg-dry	1	10/24/13 04:31
Acetone	U		89	140	µg/Kg-dry	1	10/24/13 04:31
Benzene	U		17	42	µg/Kg-dry	1	10/24/13 04:31
Bromodichloromethane	U		9.4	42	µg/Kg-dry	1	10/24/13 04:31
Bromoform	U		8.3	42	µg/Kg-dry	1	10/24/13 04:31
Bromomethane	U		16	110	µg/Kg-dry	1	10/24/13 04:31
Carbon disulfide	U		21	42	µg/Kg-dry	1	10/24/13 04:31
Carbon tetrachloride	U		12	42	µg/Kg-dry	1	10/24/13 04:31
Chlorobenzene	U		17	42	µg/Kg-dry	1	10/24/13 04:31
Chloroethane	U		89	140	µg/Kg-dry	1	10/24/13 04:31
Chloroform	U		17	42	µg/Kg-dry	1	10/24/13 04:31
Chloromethane	U		23	140	µg/Kg-dry	1	10/24/13 04:31
cis-1,2-Dichloroethene	U		17	42	µg/Kg-dry	1	10/24/13 04:31
cis-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	10/24/13 04:31
Cyclohexane	U		19	42	µg/Kg-dry	1	10/24/13 04:31
Dibromochloromethane	U		7.8	42	µg/Kg-dry	1	10/24/13 04:31
Dichlorodifluoromethane	U		19	42	µg/Kg-dry	1	10/24/13 04:31
Ethylbenzene	U		16	42	µg/Kg-dry	1	10/24/13 04:31
Isopropylbenzene	U		18	42	µg/Kg-dry	1	10/24/13 04:31
Methyl acetate	U		56	280	µg/Kg-dry	1	10/24/13 04:31
Methyl tert-butyl ether	U		18	42	µg/Kg-dry	1	10/24/13 04:31

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-014
Collection Date: 10/21/13 02:45 PM

Work Order: 13101141
Lab ID: 13101141-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		19	42	µg/Kg-dry	1	10/24/13 04:31
Methylene chloride	U		16	42	µg/Kg-dry	1	10/24/13 04:31
Styrene	U		16	42	µg/Kg-dry	1	10/24/13 04:31
Tetrachloroethene	U		19	42	µg/Kg-dry	1	10/24/13 04:31
Toluene	U		16	42	µg/Kg-dry	1	10/24/13 04:31
trans-1,2-Dichloroethene	U		13	42	µg/Kg-dry	1	10/24/13 04:31
trans-1,3-Dichloropropene	U		14	42	µg/Kg-dry	1	10/24/13 04:31
Trichloroethene	410		20	42	µg/Kg-dry	1	10/24/13 04:31
Trichlorofluoromethane	U		12	42	µg/Kg-dry	1	10/24/13 04:31
Vinyl chloride	U		19	42	µg/Kg-dry	1	10/24/13 04:31
Xylenes, Total	U		50	130	µg/Kg-dry	1	10/24/13 04:31
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	10/24/13 04:31
Surr: 4-Bromofluorobenzene	97.0			70-130	%REC	1	10/24/13 04:31
Surr: Dibromofluoromethane	93.3			70-130	%REC	1	10/24/13 04:31
Surr: Toluene-d8	101			70-130	%REC	1	10/24/13 04:31
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129202</u>							
Moisture	19		0.025	0.050	% of sample	1	10/24/13 12:10

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-015
Collection Date: 10/21/13 02:50 PM

Work Order: 13101141
Lab ID: 13101141-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13		Analyst: BG
<u>BatchID: 52569</u>							
1,1,1-Trichloroethane	U		14	38	µg/Kg-dry	1	10/24/13 04:54
1,1,2,2-Tetrachloroethane	U		17	38	µg/Kg-dry	1	10/24/13 04:54
1,1,2-Trichloroethane	U		13	38	µg/Kg-dry	1	10/24/13 04:54
1,1,2-Trichlorotrifluoroethane	U		14	38	µg/Kg-dry	1	10/24/13 04:54
1,1-Dichloroethane	U		14	38	µg/Kg-dry	1	10/24/13 04:54
1,1-Dichloroethene	U		16	38	µg/Kg-dry	1	10/24/13 04:54
1,2,4-Trichlorobenzene	U		20	38	µg/Kg-dry	1	10/24/13 04:54
1,2-Dibromo-3-chloropropane	U		19	38	µg/Kg-dry	1	10/24/13 04:54
1,2-Dibromoethane	U		15	38	µg/Kg-dry	1	10/24/13 04:54
1,2-Dichlorobenzene	U		15	38	µg/Kg-dry	1	10/24/13 04:54
1,2-Dichloroethane	U		18	38	µg/Kg-dry	1	10/24/13 04:54
1,2-Dichloropropane	U		13	38	µg/Kg-dry	1	10/24/13 04:54
1,3-Dichlorobenzene	U		15	38	µg/Kg-dry	1	10/24/13 04:54
1,4-Dichlorobenzene	U		14	38	µg/Kg-dry	1	10/24/13 04:54
2-Butanone	U		94	250	µg/Kg-dry	1	10/24/13 04:54
2-Hexanone	U		9.3	38	µg/Kg-dry	1	10/24/13 04:54
4-Methyl-2-pentanone	U		13	38	µg/Kg-dry	1	10/24/13 04:54
Acetone	U		81	130	µg/Kg-dry	1	10/24/13 04:54
Benzene	U		15	38	µg/Kg-dry	1	10/24/13 04:54
Bromodichloromethane	U		8.5	38	µg/Kg-dry	1	10/24/13 04:54
Bromoform	U		7.5	38	µg/Kg-dry	1	10/24/13 04:54
Bromomethane	U		15	95	µg/Kg-dry	1	10/24/13 04:54
Carbon disulfide	U		19	38	µg/Kg-dry	1	10/24/13 04:54
Carbon tetrachloride	U		11	38	µg/Kg-dry	1	10/24/13 04:54
Chlorobenzene	U		15	38	µg/Kg-dry	1	10/24/13 04:54
Chloroethane	U		81	130	µg/Kg-dry	1	10/24/13 04:54
Chloroform	U		16	38	µg/Kg-dry	1	10/24/13 04:54
Chloromethane	U		21	130	µg/Kg-dry	1	10/24/13 04:54
cis-1,2-Dichloroethene	U		15	38	µg/Kg-dry	1	10/24/13 04:54
cis-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	10/24/13 04:54
Cyclohexane	U		17	38	µg/Kg-dry	1	10/24/13 04:54
Dibromochloromethane	U		7.0	38	µg/Kg-dry	1	10/24/13 04:54
Dichlorodifluoromethane	U		17	38	µg/Kg-dry	1	10/24/13 04:54
Ethylbenzene	U		14	38	µg/Kg-dry	1	10/24/13 04:54
Isopropylbenzene	U		16	38	µg/Kg-dry	1	10/24/13 04:54
Methyl acetate	U		51	250	µg/Kg-dry	1	10/24/13 04:54
Methyl tert-butyl ether	U		16	38	µg/Kg-dry	1	10/24/13 04:54

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-015
Collection Date: 10/21/13 02:50 PM

Work Order: 13101141
Lab ID: 13101141-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		18	38	µg/Kg-dry	1	10/24/13 04:54
Methylene chloride	U		15	38	µg/Kg-dry	1	10/24/13 04:54
Styrene	U		14	38	µg/Kg-dry	1	10/24/13 04:54
Tetrachloroethene	U		17	38	µg/Kg-dry	1	10/24/13 04:54
Toluene	U		14	38	µg/Kg-dry	1	10/24/13 04:54
trans-1,2-Dichloroethene	U		12	38	µg/Kg-dry	1	10/24/13 04:54
trans-1,3-Dichloropropene	U		13	38	µg/Kg-dry	1	10/24/13 04:54
Trichloroethene	1,400		18	38	µg/Kg-dry	1	10/24/13 04:54
Trichlorofluoromethane	U		10	38	µg/Kg-dry	1	10/24/13 04:54
Vinyl chloride	U		17	38	µg/Kg-dry	1	10/24/13 04:54
Xylenes, Total	U		45	110	µg/Kg-dry	1	10/24/13 04:54
Surr: 1,2-Dichloroethane-d4	98.8			70-130	%REC	1	10/24/13 04:54
Surr: 4-Bromofluorobenzene	95.8			70-130	%REC	1	10/24/13 04:54
Surr: Dibromofluoromethane	94.0			70-130	%REC	1	10/24/13 04:54
Surr: Toluene-d8	99.2			70-130	%REC	1	10/24/13 04:54
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129202</u>							
Moisture	12		0.025	0.050	% of sample	1	10/24/13 12:10

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-016
Collection Date: 10/21/13 02:55 PM

Work Order: 13101141
Lab ID: 13101141-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13		Analyst: BG
<u>BatchID: 52570</u>							
1,1,1-Trichloroethane	U		19	49	µg/Kg-dry	1	10/24/13 05:17
1,1,2,2-Tetrachloroethane	U		22	49	µg/Kg-dry	1	10/24/13 05:17
1,1,2-Trichloroethane	U		17	49	µg/Kg-dry	1	10/24/13 05:17
1,1,2-Trichlorotrifluoroethane	U		18	49	µg/Kg-dry	1	10/24/13 05:17
1,1-Dichloroethane	U		18	49	µg/Kg-dry	1	10/24/13 05:17
1,1-Dichloroethene	U		21	49	µg/Kg-dry	1	10/24/13 05:17
1,2,4-Trichlorobenzene	U		25	49	µg/Kg-dry	1	10/24/13 05:17
1,2-Dibromo-3-chloropropane	U		24	49	µg/Kg-dry	1	10/24/13 05:17
1,2-Dibromoethane	U		19	49	µg/Kg-dry	1	10/24/13 05:17
1,2-Dichlorobenzene	U		20	49	µg/Kg-dry	1	10/24/13 05:17
1,2-Dichloroethane	U		23	49	µg/Kg-dry	1	10/24/13 05:17
1,2-Dichloropropane	U		16	49	µg/Kg-dry	1	10/24/13 05:17
1,3-Dichlorobenzene	U		20	49	µg/Kg-dry	1	10/24/13 05:17
1,4-Dichlorobenzene	U		19	49	µg/Kg-dry	1	10/24/13 05:17
2-Butanone	U		120	330	µg/Kg-dry	1	10/24/13 05:17
2-Hexanone	U		12	49	µg/Kg-dry	1	10/24/13 05:17
4-Methyl-2-pentanone	U		17	49	µg/Kg-dry	1	10/24/13 05:17
Acetone	U		100	160	µg/Kg-dry	1	10/24/13 05:17
Benzene	U		20	49	µg/Kg-dry	1	10/24/13 05:17
Bromodichloromethane	U		11	49	µg/Kg-dry	1	10/24/13 05:17
Bromoform	U		9.7	49	µg/Kg-dry	1	10/24/13 05:17
Bromomethane	U		19	120	µg/Kg-dry	1	10/24/13 05:17
Carbon disulfide	U		24	49	µg/Kg-dry	1	10/24/13 05:17
Carbon tetrachloride	U		14	49	µg/Kg-dry	1	10/24/13 05:17
Chlorobenzene	U		20	49	µg/Kg-dry	1	10/24/13 05:17
Chloroethane	U		100	160	µg/Kg-dry	1	10/24/13 05:17
Chloroform	U		20	49	µg/Kg-dry	1	10/24/13 05:17
Chloromethane	U		27	160	µg/Kg-dry	1	10/24/13 05:17
cis-1,2-Dichloroethene	U		20	49	µg/Kg-dry	1	10/24/13 05:17
cis-1,3-Dichloropropene	U		17	49	µg/Kg-dry	1	10/24/13 05:17
Cyclohexane	U		22	49	µg/Kg-dry	1	10/24/13 05:17
Dibromochloromethane	U		9.1	49	µg/Kg-dry	1	10/24/13 05:17
Dichlorodifluoromethane	U		22	49	µg/Kg-dry	1	10/24/13 05:17
Ethylbenzene	U		18	49	µg/Kg-dry	1	10/24/13 05:17
Isopropylbenzene	U		21	49	µg/Kg-dry	1	10/24/13 05:17
Methyl acetate	U		66	330	µg/Kg-dry	1	10/24/13 05:17
Methyl tert-butyl ether	U		21	49	µg/Kg-dry	1	10/24/13 05:17

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-016
Collection Date: 10/21/13 02:55 PM

Work Order: 13101141
Lab ID: 13101141-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		23	49	µg/Kg-dry	1	10/24/13 05:17
Methylene chloride	U		19	49	µg/Kg-dry	1	10/24/13 05:17
Styrene	U		18	49	µg/Kg-dry	1	10/24/13 05:17
Tetrachloroethene	U		22	49	µg/Kg-dry	1	10/24/13 05:17
Toluene	U		18	49	µg/Kg-dry	1	10/24/13 05:17
trans-1,2-Dichloroethene	U		15	49	µg/Kg-dry	1	10/24/13 05:17
trans-1,3-Dichloropropene	U		16	49	µg/Kg-dry	1	10/24/13 05:17
Trichloroethene	2,000		23	49	µg/Kg-dry	1	10/24/13 05:17
Trichlorofluoromethane	U		13	49	µg/Kg-dry	1	10/24/13 05:17
Vinyl chloride	U		22	49	µg/Kg-dry	1	10/24/13 05:17
Xylenes, Total	U		58	150	µg/Kg-dry	1	10/24/13 05:17
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/24/13 05:17
Surr: 4-Bromofluorobenzene	97.8			70-130	%REC	1	10/24/13 05:17
Surr: Dibromofluoromethane	93.6			70-130	%REC	1	10/24/13 05:17
Surr: Toluene-d8	99.5			70-130	%REC	1	10/24/13 05:17
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129202</u>							
Moisture	24		0.025	0.050	% of sample	1	10/24/13 12:10

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-017
Collection Date: 10/21/13 03:00 PM

Work Order: 13101141
Lab ID: 13101141-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13		Analyst: BG
<u>BatchID: 52570</u>							
1,1,1-Trichloroethane	U		13	35	µg/Kg-dry	1	10/24/13 05:40
1,1,2,2-Tetrachloroethane	U		15	35	µg/Kg-dry	1	10/24/13 05:40
1,1,2-Trichloroethane	U		12	35	µg/Kg-dry	1	10/24/13 05:40
1,1,2-Trichlorotrifluoroethane	U		13	35	µg/Kg-dry	1	10/24/13 05:40
1,1-Dichloroethane	U		13	35	µg/Kg-dry	1	10/24/13 05:40
1,1-Dichloroethene	U		15	35	µg/Kg-dry	1	10/24/13 05:40
1,2,4-Trichlorobenzene	U		18	35	µg/Kg-dry	1	10/24/13 05:40
1,2-Dibromo-3-chloropropane	U		17	35	µg/Kg-dry	1	10/24/13 05:40
1,2-Dibromoethane	U		14	35	µg/Kg-dry	1	10/24/13 05:40
1,2-Dichlorobenzene	U		14	35	µg/Kg-dry	1	10/24/13 05:40
1,2-Dichloroethane	U		16	35	µg/Kg-dry	1	10/24/13 05:40
1,2-Dichloropropane	U		12	35	µg/Kg-dry	1	10/24/13 05:40
1,3-Dichlorobenzene	U		14	35	µg/Kg-dry	1	10/24/13 05:40
1,4-Dichlorobenzene	U		13	35	µg/Kg-dry	1	10/24/13 05:40
2-Butanone	U		86	230	µg/Kg-dry	1	10/24/13 05:40
2-Hexanone	U		8.5	35	µg/Kg-dry	1	10/24/13 05:40
4-Methyl-2-pentanone	U		12	35	µg/Kg-dry	1	10/24/13 05:40
Acetone	U		74	120	µg/Kg-dry	1	10/24/13 05:40
Benzene	U		14	35	µg/Kg-dry	1	10/24/13 05:40
Bromodichloromethane	U		7.8	35	µg/Kg-dry	1	10/24/13 05:40
Bromoform	U		6.8	35	µg/Kg-dry	1	10/24/13 05:40
Bromomethane	U		13	87	µg/Kg-dry	1	10/24/13 05:40
Carbon disulfide	U		17	35	µg/Kg-dry	1	10/24/13 05:40
Carbon tetrachloride	U		9.9	35	µg/Kg-dry	1	10/24/13 05:40
Chlorobenzene	U		14	35	µg/Kg-dry	1	10/24/13 05:40
Chloroethane	U		74	120	µg/Kg-dry	1	10/24/13 05:40
Chloroform	U		14	35	µg/Kg-dry	1	10/24/13 05:40
Chloromethane	U		19	120	µg/Kg-dry	1	10/24/13 05:40
cis-1,2-Dichloroethene	U		14	35	µg/Kg-dry	1	10/24/13 05:40
cis-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	10/24/13 05:40
Cyclohexane	U		16	35	µg/Kg-dry	1	10/24/13 05:40
Dibromochloromethane	U		6.4	35	µg/Kg-dry	1	10/24/13 05:40
Dichlorodifluoromethane	U		16	35	µg/Kg-dry	1	10/24/13 05:40
Ethylbenzene	U		13	35	µg/Kg-dry	1	10/24/13 05:40
Isopropylbenzene	U		15	35	µg/Kg-dry	1	10/24/13 05:40
Methyl acetate	U		47	230	µg/Kg-dry	1	10/24/13 05:40
Methyl tert-butyl ether	U		15	35	µg/Kg-dry	1	10/24/13 05:40

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-017
Collection Date: 10/21/13 03:00 PM

Work Order: 13101141
Lab ID: 13101141-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		16	35	µg/Kg-dry	1	10/24/13 05:40
Methylene chloride	U		14	35	µg/Kg-dry	1	10/24/13 05:40
Styrene	U		13	35	µg/Kg-dry	1	10/24/13 05:40
Tetrachloroethene	U		15	35	µg/Kg-dry	1	10/24/13 05:40
Toluene	U		13	35	µg/Kg-dry	1	10/24/13 05:40
trans-1,2-Dichloroethene	U		11	35	µg/Kg-dry	1	10/24/13 05:40
trans-1,3-Dichloropropene	U		12	35	µg/Kg-dry	1	10/24/13 05:40
Trichloroethene	U		16	35	µg/Kg-dry	1	10/24/13 05:40
Trichlorofluoromethane	U		9.6	35	µg/Kg-dry	1	10/24/13 05:40
Vinyl chloride	U		16	35	µg/Kg-dry	1	10/24/13 05:40
Xylenes, Total	U		41	100	µg/Kg-dry	1	10/24/13 05:40
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/24/13 05:40
Surr: 4-Bromofluorobenzene	97.2			70-130	%REC	1	10/24/13 05:40
Surr: Dibromofluoromethane	94.0			70-130	%REC	1	10/24/13 05:40
Surr: Toluene-d8	103			70-130	%REC	1	10/24/13 05:40
MOISTURE			A2540 G				Analyst: MEB
BatchID: <u>R129202</u>							
Moisture	11		0.025	0.050	% of sample	1	10/24/13 12:10

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-028
Collection Date: 10/21/13

Work Order: 13101141
Lab ID: 13101141-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 10/23/13		Analyst: BG
<u>BatchID: 52570</u>							
1,1,1-Trichloroethane	U		11	30	µg/Kg	1	10/24/13 01:03
1,1,2,2-Tetrachloroethane	U		13	30	µg/Kg	1	10/24/13 01:03
1,1,2-Trichloroethane	U		11	30	µg/Kg	1	10/24/13 01:03
1,1,2-Trichlorotrifluoroethane	U		11	30	µg/Kg	1	10/24/13 01:03
1,1-Dichloroethane	U		11	30	µg/Kg	1	10/24/13 01:03
1,1-Dichloroethene	U		13	30	µg/Kg	1	10/24/13 01:03
1,2,4-Trichlorobenzene	U		16	30	µg/Kg	1	10/24/13 01:03
1,2-Dibromo-3-chloropropane	U		15	30	µg/Kg	1	10/24/13 01:03
1,2-Dibromoethane	U		12	30	µg/Kg	1	10/24/13 01:03
1,2-Dichlorobenzene	U		12	30	µg/Kg	1	10/24/13 01:03
1,2-Dichloroethane	U		14	30	µg/Kg	1	10/24/13 01:03
1,2-Dichloropropane	U		9.9	30	µg/Kg	1	10/24/13 01:03
1,3-Dichlorobenzene	U		12	30	µg/Kg	1	10/24/13 01:03
1,4-Dichlorobenzene	U		11	30	µg/Kg	1	10/24/13 01:03
2-Butanone	U		74	200	µg/Kg	1	10/24/13 01:03
2-Hexanone	U		7.4	30	µg/Kg	1	10/24/13 01:03
4-Methyl-2-pentanone	U		10	30	µg/Kg	1	10/24/13 01:03
Acetone	U		64	100	µg/Kg	1	10/24/13 01:03
Benzene	U		12	30	µg/Kg	1	10/24/13 01:03
Bromodichloromethane	U		6.7	30	µg/Kg	1	10/24/13 01:03
Bromoform	U		5.9	30	µg/Kg	1	10/24/13 01:03
Bromomethane	U		11	75	µg/Kg	1	10/24/13 01:03
Carbon disulfide	U		15	30	µg/Kg	1	10/24/13 01:03
Carbon tetrachloride	U		8.5	30	µg/Kg	1	10/24/13 01:03
Chlorobenzene	U		12	30	µg/Kg	1	10/24/13 01:03
Chloroethane	U		64	100	µg/Kg	1	10/24/13 01:03
Chloroform	U		12	30	µg/Kg	1	10/24/13 01:03
Chloromethane	U		17	100	µg/Kg	1	10/24/13 01:03
cis-1,2-Dichloroethene	U		12	30	µg/Kg	1	10/24/13 01:03
cis-1,3-Dichloropropene	U		10	30	µg/Kg	1	10/24/13 01:03
Cyclohexane	U		13	30	µg/Kg	1	10/24/13 01:03
Dibromochloromethane	U		5.6	30	µg/Kg	1	10/24/13 01:03
Dichlorodifluoromethane	U		14	30	µg/Kg	1	10/24/13 01:03
Ethylbenzene	U		11	30	µg/Kg	1	10/24/13 01:03
Isopropylbenzene	U		13	30	µg/Kg	1	10/24/13 01:03
Methyl acetate	U		40	200	µg/Kg	1	10/24/13 01:03
Methyl tert-butyl ether	U		13	30	µg/Kg	1	10/24/13 01:03

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

ALS Group USA, Corp

Date: 26-Oct-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T02Y13)
Sample ID: SB-017360-102113-MR-028
Collection Date: 10/21/13

Work Order: 13101141
Lab ID: 13101141-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		14	30	µg/Kg	1	10/24/13 01:03
Methylene chloride	U		12	30	µg/Kg	1	10/24/13 01:03
Styrene	U		11	30	µg/Kg	1	10/24/13 01:03
Tetrachloroethene	U		13	30	µg/Kg	1	10/24/13 01:03
Toluene	U		11	30	µg/Kg	1	10/24/13 01:03
trans-1,2-Dichloroethene	U		9.2	30	µg/Kg	1	10/24/13 01:03
trans-1,3-Dichloropropene	U		10	30	µg/Kg	1	10/24/13 01:03
Trichloroethene	U		14	30	µg/Kg	1	10/24/13 01:03
Trichlorofluoromethane	U		8.3	30	µg/Kg	1	10/24/13 01:03
Vinyl chloride	U		14	30	µg/Kg	1	10/24/13 01:03
Xylenes, Total	U		35	90	µg/Kg	1	10/24/13 01:03
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/24/13 01:03
Surr: 4-Bromofluorobenzene	96.2			70-130	%REC	1	10/24/13 01:03
Surr: Dibromofluoromethane	97.3			70-130	%REC	1	10/24/13 01:03
Surr: Toluene-d8	100			70-130	%REC	1	10/24/13 01:03

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

Client: Conestoga-Rovers & Associates

Work Order: 13101141

Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52569

Instrument ID VMS6

Method: SW8260B

MBLK		Sample ID: MBLK-52569-52569				Units: µg/Kg		Analysis Date: 10/23/13 12:08 PM		
Client ID:		Run ID: VMS6_131023A				SeqNo: 2502765		Prep Date: 10/23/13		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	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	19.5	30								J
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
Styrene	U	30								
Tetrachloroethene	U	30								

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52569	Instrument ID VMS6	Method: SW8260B					
Toluene	U	30					
trans-1,2-Dichloroethene	U	30					
trans-1,3-Dichloropropene	U	30					
Trichloroethene	U	30					
Trichlorofluoromethane	U	30					
Vinyl chloride	U	30					
Xylenes, Total	U	90					
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1001</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>975</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.5</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>901</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>90.1</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>997</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.7</i>	<i>70-130</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52569** Instrument ID **VMS6** Method: **SW8260B**

LCS Sample ID: LCS-52569-52569				Units: µg/Kg		Analysis Date: 10/23/13 10:53 AM				
Client ID:		Run ID: VMS6_131023A		SeqNo: 2502764		Prep Date: 10/23/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	992	30	1000	0	99.2	70-135	0			
1,1,2,2-Tetrachloroethane	1129	30	1000	0	113	55-130	0			
1,1,2-Trichloroethane	1009	30	1000	0	101	60-125	0			
1,1-Dichloroethane	988.5	30	1000	0	98.8	75-125	0			
1,1-Dichloroethene	993	30	1000	0	99.3	65-135	0			
1,2,4-Trichlorobenzene	1054	30	1000	0	105	65-130	0			
1,2-Dibromo-3-chloropropane	990	30	1000	0	99	40-135	0			
1,2-Dibromoethane	1088	30	1000	0	109	70-125	0			
1,2-Dichlorobenzene	1051	30	1000	0	105	75-120	0			
1,2-Dichloroethane	1002	30	1000	0	100	70-135	0			
1,2-Dichloropropane	965.5	30	1000	0	96.6	70-120	0			
1,3-Dichlorobenzene	1041	30	1000	0	104	70-125	0			
1,4-Dichlorobenzene	1034	30	1000	0	103	70-125	0			
2-Butanone	1056	200	1000	0	106	30-160	0			
2-Hexanone	1122	30	1000	0	112	45-145	0			
4-Methyl-2-pentanone	1556	30	1000	0	156	45-145	0			S
Acetone	1052	100	1000	0	105	20-160	0			
Benzene	1009	30	1000	0	101	75-125	0			
Bromodichloromethane	1002	30	1000	0	100	70-130	0			
Bromoform	923	30	1000	0	92.3	55-135	0			
Bromomethane	952	75	1000	0	95.2	30-160	0			
Carbon disulfide	1092	30	1000	0	109	45-160	0			
Carbon tetrachloride	917.5	30	1000	0	91.8	65-135	0			
Chlorobenzene	1026	30	1000	0	103	75-125	0			
Chloroethane	924.5	100	1000	0	92.4	40-155	0			
Chloroform	1006	30	1000	0	101	70-125	0			
Chloromethane	959	100	1000	0	95.9	50-130	0			
cis-1,2-Dichloroethene	1022	30	1000	0	102	65-125	0			
cis-1,3-Dichloropropene	1090	30	1000	0	109	70-125	0			
Dibromochloromethane	867.5	30	1000	0	86.8	65-135	0			
Dichlorodifluoromethane	764.5	30	1000	0	76.4	35-135	0			
Ethylbenzene	1052	30	1000	0	105	75-125	0			
Isopropylbenzene	1062	30	1000	0	106	75-130	0			
Methyl tert-butyl ether	1007	30	1000	0	101	75-125	0			
Methylene chloride	774.5	30	1000	0	77.4	55-145	0			
Styrene	1082	30	1000	0	108	75-125	0			
Tetrachloroethene	976.5	30	1000	0	97.6	64-140	0			
Toluene	1020	30	1000	0	102	70-125	0			
trans-1,2-Dichloroethene	1074	30	1000	0	107	65-135	0			
trans-1,3-Dichloropropene	939.5	30	1000	0	94	65-125	0			
Trichloroethene	996	30	1000	0	99.6	75-125	0			
Trichlorofluoromethane	828.5	30	1000	0	82.8	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52569	Instrument ID VMS6		Method: SW8260B				
Vinyl chloride	805.5	30	1000	0	80.6	60-125	0
Xylenes, Total	3139	90	3000	0	105	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1016</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>993.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.4</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1000</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1006</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52569** Instrument ID **VMS6** Method: **SW8260B**

MS Sample ID: 13101141-11A MS				Units: µg/Kg			Analysis Date: 10/24/13 08:20 AM			
Client ID: SB-017360-102113-MR-015		Run ID: VMS5_131023B		SeqNo: 2504029		Prep Date: 10/23/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1006	34	1121	0	89.8	70-135	0			
1,1,2,2-Tetrachloroethane	1121	34	1121	0	100	55-130	0			
1,1,2-Trichloroethane	1126	34	1121	0	100	60-125	0			
1,1-Dichloroethane	1128	34	1121	0	101	75-125	0			
1,1-Dichloroethene	1125	34	1121	0	100	65-135	0			
1,2,4-Trichlorobenzene	1109	34	1121	0	99	65-130	0			
1,2-Dibromo-3-chloropropane	711.3	34	1121	0	63.4	40-135	0			
1,2-Dibromoethane	1154	34	1121	0	103	70-125	0			
1,2-Dichlorobenzene	1099	34	1121	0	98	75-120	0			
1,2-Dichloroethane	1092	34	1121	0	97.4	70-135	0			
1,2-Dichloropropane	1145	34	1121	0	102	70-120	0			
1,3-Dichlorobenzene	1054	34	1121	0	94	70-125	0			
1,4-Dichlorobenzene	1064	34	1121	0	95	70-125	0			
2-Butanone	1165	220	1121	0	104	30-160	0			
2-Hexanone	1193	34	1121	0	106	45-145	0			
4-Methyl-2-pentanone	1465	34	1121	0	131	45-145	0			
Acetone	1307	110	1121	0	117	20-160	0			
Benzene	1118	34	1121	0	99.7	75-125	0			
Bromodichloromethane	923.8	34	1121	0	82.4	70-130	0			
Bromoform	608.7	34	1121	0	54.3	55-135	0			S
Bromomethane	634	84	1121	0	56.6	30-160	0			
Carbon disulfide	962.4	34	1121	0	85.8	45-160	0			
Carbon tetrachloride	907.5	34	1121	0	81	65-135	0			
Chlorobenzene	1048	34	1121	0	93.5	75-125	0			
Chloroethane	968	110	1121	0	86.4	40-155	0			
Chloroform	1078	34	1121	0	96.2	70-125	0			
Chloromethane	982.6	110	1121	0	87.6	50-130	0			
cis-1,2-Dichloroethene	1104	34	1121	0	98.5	65-125	0			
cis-1,3-Dichloropropene	1081	34	1121	0	96.4	70-125	0			
Dibromochloromethane	663.1	34	1121	0	59.2	65-135	0			S
Dichlorodifluoromethane	782.5	34	1121	0	69.8	35-135	0			
Ethylbenzene	1117	34	1121	0	99.6	75-125	0			
Isopropylbenzene	1149	34	1121	0	102	75-130	0			
Methyl tert-butyl ether	1138	34	1121	0	102	75-125	0			
Methylene chloride	1085	34	1121	0	96.8	55-145	0			
Styrene	1168	34	1121	0	104	75-125	0			
Tetrachloroethene	1044	34	1121	0	93.1	64-140	0			
Toluene	1082	34	1121	0	96.6	70-125	0			
trans-1,2-Dichloroethene	1131	34	1121	0	101	65-135	0			
trans-1,3-Dichloropropene	994.4	34	1121	0	88.7	65-125	0			
Trichloroethene	2309	34	1121	1242	95.2	75-125	0			
Trichlorofluoromethane	1376	34	1121	0	123	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52569	Instrument ID VMS6		Method: SW8260B				
Vinyl chloride	941.1	34	1121	0	84	60-125	0
Xylenes, Total	3400	100	3363	0	101	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1121</i>	<i>0</i>	<i>1121</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1144</i>	<i>0</i>	<i>1121</i>	<i>0</i>	<i>102</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>1065</i>	<i>0</i>	<i>1121</i>	<i>0</i>	<i>95</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>1136</i>	<i>0</i>	<i>1121</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52569** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 13101141-11A MSD			Units: µg/Kg		Analysis Date: 10/24/13 08:43 AM	
Client ID: SB-017360-102113-MR-015				Run ID: VMS5_131023B			SeqNo: 2504030		Prep Date: 10/23/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	986.5	34	1121	0	88	70-135	1006	1.97	30	
1,1,2,2-Tetrachloroethane	1092	34	1121	0	97.4	55-130	1121	2.63	30	
1,1,2-Trichloroethane	1095	34	1121	0	97.7	60-125	1126	2.73	30	
1,1-Dichloroethane	1136	34	1121	0	101	75-125	1128	0.644	30	
1,1-Dichloroethene	1117	34	1121	0	99.6	65-135	1125	0.75	30	
1,2,4-Trichlorobenzene	1238	34	1121	0	110	65-130	1109	10.9	30	
1,2-Dibromo-3-chloropropane	724.2	34	1121	0	64.6	40-135	711.3	1.8	30	
1,2-Dibromoethane	1109	34	1121	0	99	70-125	1154	3.91	30	
1,2-Dichlorobenzene	1126	34	1121	0	100	75-120	1099	2.37	30	
1,2-Dichloroethane	1077	34	1121	0	96	70-135	1092	1.45	30	
1,2-Dichloropropane	1111	34	1121	0	99.1	70-120	1145	3.03	30	
1,3-Dichlorobenzene	1111	34	1121	0	99.1	70-125	1054	5.28	30	
1,4-Dichlorobenzene	1087	34	1121	0	97	70-125	1064	2.08	30	
2-Butanone	1200	220	1121	0	107	30-160	1165	2.99	30	
2-Hexanone	1197	34	1121	0	107	45-145	1193	0.328	30	
4-Methyl-2-pentanone	1438	34	1121	0	128	45-145	1465	1.85	30	
Acetone	1268	110	1121	0	113	20-160	1307	3.05	30	
Benzene	1098	34	1121	0	97.9	75-125	1118	1.82	30	
Bromodichloromethane	889	34	1121	0	79.3	70-130	923.8	3.83	30	
Bromoform	619.4	34	1121	0	55.2	55-135	608.7	1.73	30	
Bromomethane	616.6	84	1121	0	55	30-160	634	2.78	30	
Carbon disulfide	915.4	34	1121	0	81.6	45-160	962.4	5.01	30	
Carbon tetrachloride	871.6	34	1121	0	77.8	65-135	907.5	4.03	30	
Chlorobenzene	1024	34	1121	0	91.3	75-125	1048	2.38	30	
Chloroethane	892.4	110	1121	0	79.6	40-155	968	8.13	30	
Chloroform	1047	34	1121	0	93.4	70-125	1078	2.96	30	
Chloromethane	943.9	110	1121	0	84.2	50-130	982.6	4.02	30	
cis-1,2-Dichloroethene	1076	34	1121	0	96	65-125	1104	2.57	30	
cis-1,3-Dichloropropene	1049	34	1121	0	93.6	70-125	1081	3	30	
Dibromochloromethane	663.1	34	1121	0	59.2	65-135	663.1	0	30	S
Dichlorodifluoromethane	761.2	34	1121	0	67.9	35-135	782.5	2.76	30	
Ethylbenzene	1103	34	1121	0	98.4	75-125	1117	1.21	30	
Isopropylbenzene	1177	34	1121	0	105	75-130	1149	2.46	30	
Methyl tert-butyl ether	1137	34	1121	0	101	75-125	1138	0.0493	30	
Methylene chloride	1060	34	1121	0	94.6	55-145	1085	2.35	30	
Styrene	1126	34	1121	0	100	75-125	1168	3.67	30	
Tetrachloroethene	1040	34	1121	0	92.8	64-140	1044	0.323	30	
Toluene	1043	34	1121	0	93	70-125	1082	3.69	30	
trans-1,2-Dichloroethene	1093	34	1121	0	97.5	65-135	1131	3.38	30	
trans-1,3-Dichloropropene	954.6	34	1121	0	85.2	65-125	994.4	4.08	30	
Trichloroethene	2215	34	1121	1242	86.8	75-125	2309	4.14	30	
Trichlorofluoromethane	1370	34	1121	0	122	25-185	1376	0.408	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52569	Instrument ID VMS6			Method: SW8260B					
Vinyl chloride	919.3	34	1121	0	82	60-125	941.1	2.35	30
Xylenes, Total	3350	100	3363	0	99.6	75-125	3400	1.48	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1121</i>	0	<i>1121</i>	0	<i>100</i>	<i>70-130</i>	<i>1121</i>	<i>0</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1129</i>	0	<i>1121</i>	0	<i>101</i>	<i>70-130</i>	<i>1144</i>	<i>1.33</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>1043</i>	0	<i>1121</i>	0	<i>93</i>	<i>70-130</i>	<i>1065</i>	<i>2.07</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>1123</i>	0	<i>1121</i>	0	<i>100</i>	<i>70-130</i>	<i>1136</i>	<i>1.19</i>	<i>30</i>

The following samples were analyzed in this batch:

13101141-01A	13101141-02A	13101141-03A
13101141-04A	13101141-05A	13101141-06A
13101141-07A	13101141-09A	13101141-10A
13101141-11A		

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52570** Instrument ID **VMS8** Method: **SW8260B**

MBLK		Sample ID: MBLK-52570-52570				Units: µg/Kg		Analysis Date: 10/23/13 03:28 PM		
Client ID:		Run ID: VMS8_131023A				SeqNo: 2503267		Prep Date: 10/23/13		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	30								
1,1,2,2-Tetrachloroethane	U	30								
1,1,2-Trichloroethane	U	30								
1,1,2-Trichlorotrifluoroethane	U	30								
1,1-Dichloroethane	U	30								
1,1-Dichloroethene	U	30								
1,2,4-Trichlorobenzene	U	30								
1,2-Dibromo-3-chloropropane	U	30								
1,2-Dibromoethane	U	30								
1,2-Dichlorobenzene	U	30								
1,2-Dichloroethane	U	30								
1,2-Dichloropropane	U	30								
1,3-Dichlorobenzene	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
2-Hexanone	U	30								
4-Methyl-2-pentanone	U	30								
Acetone	U	100								
Benzene	U	30								
Bromodichloromethane	U	30								
Bromoform	U	30								
Bromomethane	U	75								
Carbon disulfide	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroethane	U	100								
Chloroform	U	30								
Chloromethane	U	100								
cis-1,2-Dichloroethene	U	30								
cis-1,3-Dichloropropene	U	30								
Cyclohexane	U	30								
Dibromochloromethane	U	30								
Dichlorodifluoromethane	U	30								
Ethylbenzene	U	30								
Isopropylbenzene	U	30								
Methyl acetate	U	200								
Methyl tert-butyl ether	U	30								
Methylcyclohexane	U	30								
Methylene chloride	U	30								
Styrene	U	30								
Tetrachloroethene	U	30								
Toluene	U	30								

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52570	Instrument ID VMS8	Method: SW8260B						
trans-1,2-Dichloroethene	U	30						
trans-1,3-Dichloropropene	U	30						
Trichloroethene	U	30						
Trichlorofluoromethane	U	30						
Vinyl chloride	U	30						
Xylenes, Total	U	90						
<i>Surr: 1,2-Dichloroethane-d4</i>	995.5	0	1000	0	99.6	70-130	0	
<i>Surr: 4-Bromofluorobenzene</i>	1006	0	1000	0	101	70-130	0	
<i>Surr: Dibromofluoromethane</i>	964.5	0	1000	0	96.4	70-130	0	
<i>Surr: Toluene-d8</i>	954.5	0	1000	0	95.4	70-130	0	

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **52570** Instrument ID **VMS8** Method: **SW8260B**

LCS Sample ID: LCS-52570-52570				Units: µg/Kg			Analysis Date: 10/23/13 01:51 PM			
Client ID:		Run ID: VMS8_131023A		SeqNo: 2503266		Prep Date: 10/23/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1050	30	1000	0	105	70-135	0			
1,1,2,2-Tetrachloroethane	993.5	30	1000	0	99.4	55-130	0			
1,1,2-Trichloroethane	969.5	30	1000	0	97	60-125	0			
1,1-Dichloroethane	968.5	30	1000	0	96.8	75-125	0			
1,1-Dichloroethene	951.5	30	1000	0	95.2	65-135	0			
1,2,4-Trichlorobenzene	1029	30	1000	0	103	65-130	0			
1,2-Dibromo-3-chloropropane	931	30	1000	0	93.1	40-135	0			
1,2-Dibromoethane	1053	30	1000	0	105	70-125	0			
1,2-Dichlorobenzene	947.5	30	1000	0	94.8	75-120	0			
1,2-Dichloroethane	1032	30	1000	0	103	70-135	0			
1,2-Dichloropropane	962	30	1000	0	96.2	70-120	0			
1,3-Dichlorobenzene	938	30	1000	0	93.8	70-125	0			
1,4-Dichlorobenzene	970.5	30	1000	0	97	70-125	0			
2-Butanone	986.5	200	1000	0	98.6	30-160	0			
2-Hexanone	960	30	1000	0	96	45-145	0			
4-Methyl-2-pentanone	1280	30	1000	0	128	45-145	0			
Acetone	1020	100	1000	0	102	20-160	0			
Benzene	965	30	1000	0	96.5	75-125	0			
Bromodichloromethane	986.5	30	1000	0	98.6	70-130	0			
Bromoform	853	30	1000	0	85.3	55-135	0			
Bromomethane	806.5	75	1000	0	80.6	30-160	0			
Carbon disulfide	1044	30	1000	0	104	45-160	0			
Carbon tetrachloride	991.5	30	1000	0	99.2	65-135	0			
Chlorobenzene	951	30	1000	0	95.1	75-125	0			
Chloroethane	902.5	100	1000	0	90.2	40-155	0			
Chloroform	1020	30	1000	0	102	70-125	0			
Chloromethane	938.5	100	1000	0	93.8	50-130	0			
cis-1,2-Dichloroethene	989.5	30	1000	0	99	65-125	0			
cis-1,3-Dichloropropene	1023	30	1000	0	102	70-125	0			
Dibromochloromethane	927.5	30	1000	0	92.8	65-135	0			
Dichlorodifluoromethane	815	30	1000	0	81.5	35-135	0			
Ethylbenzene	962	30	1000	0	96.2	75-125	0			
Isopropylbenzene	952	30	1000	0	95.2	75-130	0			
Methyl tert-butyl ether	1094	30	1000	0	109	75-125	0			
Methylene chloride	980	30	1000	0	98	55-145	0			
Styrene	986.5	30	1000	0	98.6	75-125	0			
Tetrachloroethene	1094	30	1000	0	109	64-140	0			
Toluene	957	30	1000	0	95.7	70-125	0			
trans-1,2-Dichloroethene	1026	30	1000	0	103	65-135	0			
trans-1,3-Dichloropropene	999	30	1000	0	99.9	65-125	0			
Trichloroethene	941.5	30	1000	0	94.2	75-125	0			
Trichlorofluoromethane	893	30	1000	0	89.3	25-185	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: 52570	Instrument ID VMS8		Method: SW8260B				
Vinyl chloride	860	30	1000	0	86	60-125	0
Xylenes, Total	2900	90	3000	0	96.7	75-125	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1006</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>999.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>987.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.8</i>	<i>70-130</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>974</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.4</i>	<i>70-130</i>	<i>0</i>

The following samples were analyzed in this batch:

13101141-12A	13101141-13A	13101141-14A

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129165** Instrument ID **MOIST** Method: **A2540 G**

MBLK				Sample ID: WBLKS-R129165				Units: % of sample			Analysis Date: 10/23/13 06:20 PM			
Client ID:				Run ID: MOIST_131023D				SeqNo: 2504978		Prep Date:		DF: 1		
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS				Sample ID: LCS-R129165				Units: % of sample			Analysis Date: 10/23/13 06:20 PM					
Client ID:				Run ID: MOIST_131023D				SeqNo: 2504974		Prep Date:		DF: 1				
Analyte				Result		PQL		SPK Val		SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP					Sample ID: 13101068-04A DUP					Units: % of sample			Analysis Date: 10/23/13 06:20 PM																																									
Client ID:					Run ID: MOIST_131023D					SeqNo: 2504959			Prep Date:		DF: 1																																							
Analyte					Result					PQL					SPK Val					SPK Ref Value					%REC					Control Limit					RPD Ref Value					%RPD					RPD Limit					Qual				

Moisture 11.41 0.050 0 0 0 0-0 11.49 0.699 20

DUP				Sample ID: 1310974-02B DUP				Units: % of sample			Analysis Date: 10/23/13 06:20 PM												
Client ID:				Run ID: MOIST_131023D				SeqNo: 2504966		Prep Date:		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture 29.68 0.050 0 0 0 0-0 31.69 6.55 20

The following samples were analyzed in this batch:

13101141-01B	13101141-02B	13101141-03B

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

Client: Conestoga-Rovers & Associates
Work Order: 13101141
Project: Former GRMP (17360-T02Y13)

QC BATCH REPORT

Batch ID: **R129202** Instrument ID **MOIST** Method: **A2540 G**

MBLK				Sample ID: WBLKS-R129202				Units: % of sample			Analysis Date: 10/24/13 12:10 PM			
Client ID:				Run ID: MOIST_131024A				SeqNo: 2505610			Prep Date:		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 0.05 0.050

LCS				Sample ID: LCS-R129202				Units: % of sample			Analysis Date: 10/24/13 12:10 PM												
Client ID:				Run ID: MOIST_131024A				SeqNo: 2505603		Prep Date:		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture 99.88 0.050 100 0 99.9 99.5-100.5 0

DUP					Sample ID: 13101141-04B DUP					Units: % of sample			Analysis Date: 10/24/13 12:10 PM																																									
Client ID: SB-017360-102113-MR-008					Run ID: MOIST_131024A					SeqNo: 2505570			Prep Date:		DF: 1																																							
Analyte					Result					PQL					SPK Val					SPK Ref Value					%REC					Control Limit					RPD Ref Value					%RPD					RPD Limit					Qual				

Moisture 11.69 0.050 0 0 0 0-0 10.85 7.45 20

DUP				Sample ID: 13101220-01B DUP				Units: % of sample			Analysis Date: 10/24/13 12:10 PM												
Client ID:				Run ID: MOIST_131024A				SeqNo: 2505590		Prep Date:		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture 4.68 0.050 0 0 0 0-0 4.83 3.15 20

The following samples were analyzed in this batch:

13101141-04B	13101141-05B	13101141-06B
13101141-07B	13101141-09B	13101141-10B
13101141-11B	13101141-12B	13101141-13B

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

13101141

COC NO.: **PL-12409**

PAGE 1 OF

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: Former Grand Rapids Metal Plant				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-102113-023										
Project Name: 017360-102113				Lab Contact: Tom Beamish				Lab Quote No:				Cooler No:										
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)										
Chemistry Contact: Paul Wiseman				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 (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample TCL VOCs TCLP VOCs (HAP) TCLP SVOCs (HAP) TCLP Metals (HAP)										
Sampler(s): Matt Ramsey																						
Date Shipped: 10/21/13				Carrier: FedEx				Airbill No:				MS/MSD Request										
COMMENTS/ SPECIAL INSTRUCTIONS:																						
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yy)	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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	TCL VOCs	TCLP VOCs (HAP)	TCLP SVOCs (HAP)	TCLP Metals (HAP)	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	SB-017360-102113-MR-005			10/21/13	1320	SO	G	1						2		3	X					
2	-006				1325			1						2		1	X					-5 DAY TAT
3	-007				1330			1						2		1	X					for TCL VOC
4	-008				1335			1						2		1	X					Samples -
5	-009				1340			1						2		1	X					results by Monday
6	-010				1345			1						2		1	X					
7	-011				1355			1						2		1	X					
8	-012				1435			Z								2	X	X	X			HOLD
9	-013				1440			1						2		3	X					
10	-014				1445			1						2		1	X					
11	-015				1450			1						2		1	X					
12	-016				1455			1						2		1	X					
13	-017				1500			1						2		1	X					
14	-028				-	TB								1		1	X					
15	-004				1315	SO	G	2								2	X	X	X			HOLD
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☐ Other: see comments												Total Number of Containers: 41				Notes/ Special Requirements: 5.2°C						
All Samples in Cooler must be on COC												(41)										
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME								
1. Matt Ramsey		CRA		10/21/13		1830		1. FedEx		ALS		10/22/13		1000								
2. FedEx								2. Kelly														
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)

200 ALLEGAN ST STE 300
PLAINWELL, MI 490801244
UNITED STATES US

DIMS: 24x15x14 IN
BILL SENDER

TO

ALS GROUP
3352 128TH AVE

HOLLAND MI 49424

(616) 399-6070

REF:

INU:
PO:

DEPT:



FedEx
Express



FedEx *NEW Package*
Express *US Airbill*

FedEx Tracking Number 8037 9356 2308

1 From

Date 10-21-13

Sender's Name

Matt Ramsey

Phone

269 998-3699

Company

CRA

Address

200 Allegan St STE. 300

Dept/Floor/Suite/Room

City

Plainwell

State

MI

ZIP

49080-1244

2 Your Internal Billing Reference

MDR-017360

3 To

Recipient's Name

Sample Receiving

Phone

616 399-6070

Company

ALS

Address

3352 128th Ave.

Dept/Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City

Holland

State

MI

ZIP

49424

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

4 Express Package Saver

NOTE: Service order has changed

Next Business Day

☐ FedEx First Overnight
Earliest next business morning delivery
locations. Friday shipments will be
Monday unless SATURDAY Delivery
is selected.

☒ FedEx Priority Overnight
Next business morning. Friday ship
delivered on Monday unless SATURDAY
is selected.

☐ FedEx Standard Overnight
Next business afternoon.
Saturday Delivery NOT available.

5 Packaging

☐ FedEx Envelope*

6 Special Handling a.

☐ SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☒ No Signature Required
Package may be left without
obtaining a signature for delivery.

☐ Direct Signature
Someone at recipient's address
may sign for delivery. Fee applies.

☐ Indirect Signature
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.
☒ No ☐ Yes
As per attached
Shipper's Declaration.

☐ Dry Ice
Dry Ice, 9, UN 1845 x kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging
or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip.
Acct. No. ☐

☒ Sender
Acct. No. if person
I will be billed.

☐ Recipient

☐ Third Party

☐ Credit Card

☐ Cash/Check

Total Packages

Total Weight

lbs.

Credit Card Auth.

Your liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

644

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8037 9356 2308

Sample Receipt Checklist

Client Name: **CRA - PLYMOUTH**

Date/Time Received: **22-Oct-13 10:00**

Work Order: **13101141**

Received by: **KRW**

Checklist completed by <u>Keith Wurenga</u>	22-Oct-13	Reviewed by: <u>Tom Bramish</u>	26-Oct-13
eSignature	Date	eSignature	Date

Matrices: **Soil**

Carrier name: **FedEx**

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>5.2 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>10/22/2013 1:47:36 PM</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:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



15-Nov-2013

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

Re: **Former GRMP (17360-T01Y13)**

Work Order: **1311287**

Dear Rawa,

ALS Environmental received 66 samples on 06-Nov-2013 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 247.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior 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-T01Y13)
Work Order: 1311287

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>
1311287-01	SW-17360-102813-EB-001	Water		10/28/13 10:00	11/06/13 10:05	☐
1311287-02	SW-17360-102813-EB-002	Water		10/28/13 10:15	11/06/13 10:05	☐
1311287-03	WG-17360-102813-MR-003	Water		10/28/13 14:10	11/06/13 10:05	☐
1311287-04	WG-17360-102813-MR-004	Water		10/28/13 14:47	11/06/13 10:05	☐
1311287-05	WG-17360-102813-MR-005	Water		10/28/13 16:06	11/06/13 10:05	☐
1311287-06	WG-17360-102813-MR-006	Water		10/28/13 17:00	11/06/13 10:05	☐
1311287-07	WG-17360-102813-MR-007	Water		10/28/13 17:05	11/06/13 10:05	☐
1311287-08	WG-17360-102913-MR-008	Water		10/29/13 10:28	11/06/13 10:05	☐
1311287-09	WG-17360-102913-MR-009	Water		10/29/13 11:23	11/06/13 10:05	☐
1311287-10	WG-17360-102913-MR-010	Water		10/29/13 12:02	11/06/13 10:05	☐
1311287-11	WG-17360-102913-MR-011	Water		10/29/13 13:45	11/06/13 10:05	☐
1311287-12	WG-17360-102913-MR-012	Water		10/29/13 13:12	11/06/13 10:05	☐
1311287-13	WG-17360-102913-MR-013	Water		10/29/13 15:54	11/06/13 10:05	☐
1311287-14	WG-17360-102913-MR-014	Water		10/29/13 16:47	11/06/13 10:05	☐
1311287-15	SW-17360-102913-MR-024	Water		10/29/13 17:05	11/06/13 10:05	☐
1311287-16	WG-17360-103013-MR-015	Water		10/30/13 10:00	11/06/13 10:05	☐
1311287-17	WG-17360-103013-MR-016	Water		10/30/13 10:45	11/06/13 10:05	☐
1311287-18	WG-17360-103013-MR-017	Water		10/30/13 10:50	11/06/13 10:05	☐
1311287-19	WG-17360-103013-MR-018	Water		10/30/13 12:35	11/06/13 10:05	☐
1311287-20	WG-17360-103013-MR-019	Water		10/30/13 12:12	11/06/13 10:05	☐
1311287-21	WG-17360-103013-MR-020	Water		10/30/13 13:24	11/06/13 10:05	☐
1311287-22	WG-17360-103013-MR-021	Water		10/30/13 16:11	11/06/13 10:05	☐
1311287-23	WG-17360-103013-MR-022	Water		10/30/13 16:57	11/06/13 10:05	☐
1311287-24	WG-17360-103013-MR-023	Water		10/30/13 17:35	11/06/13 10:05	☐
1311287-25	WG-17360-103113-MR-025	Water		10/31/13 10:21	11/06/13 10:05	☐
1311287-26	WG-17360-103113-MR-026	Water		10/31/13 10:58	11/06/13 10:05	☐
1311287-27	WG-17360-103113-MR-027	Water		10/31/13 11:03	11/06/13 10:05	☐
1311287-28	WG-17360-103113-MR-028	Water		10/31/13 12:34	11/06/13 10:05	☐
1311287-29	WG-17360-103113-MR-029	Water		10/31/13 13:17	11/06/13 10:05	☐
1311287-30	WG-17360-103113-MR-030	Water		10/31/13 15:43	11/06/13 10:05	☐
1311287-31	WG-17360-103113-MR-031	Water		10/31/13 16:21	11/06/13 10:05	☐
1311287-32	WG-17360-103113-MR-032	Water		10/31/13 17:24	11/06/13 10:05	☐
1311287-33	WG-17360-103113-MR-033	Water		10/31/13 17:57	11/06/13 10:05	☐
1311287-34	WG-17360-110113-EB-034	Water		11/01/13 10:40	11/06/13 10:05	☐
1311287-35	WG-17360-110113-EB-035	Water		11/01/13 10:25	11/06/13 10:05	☐
1311287-36	WG-17360-110113-EB-036	Water		11/01/13 12:40	11/06/13 10:05	☐
1311287-37	WG-17360-110113-EB-037	Water		11/01/13 13:45	11/06/13 10:05	☐
1311287-38	WG-17360-110113-EB-038	Water		11/01/13 14:55	11/06/13 10:05	☐
1311287-39	WG-17360-110113-EB-039	Water		11/01/13 16:20	11/06/13 10:05	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Work Order: 1311287

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>
1311287-40	WG-17360-110113-EB-040	Water		11/01/13 16:30	11/06/13 10:05	☐
1311287-41	WG-17360-110413-MR-041	Water		11/04/13 11:47	11/06/13 10:05	☐
1311287-42	WG-17360-110413-MR-042	Water		11/04/13 12:21	11/06/13 10:05	☐
1311287-43	WG-17360-110413-MR-043	Water		11/04/13 13:37	11/06/13 10:05	☐
1311287-44	WG-17360-110413-MR-044	Water		11/04/13 14:10	11/06/13 10:05	☐
1311287-45	WG-17360-110413-MR-045	Water		11/04/13 15:13	11/06/13 10:05	☐
1311287-46	WG-17360-110413-MR-046	Water		11/04/13 15:45	11/06/13 10:05	☐
1311287-47	WG-17360-110413-EB-047	Water		11/04/13 11:35	11/06/13 10:05	☐
1311287-48	WG-17360-110413-EB-048	Water		11/04/13 12:25	11/06/13 10:05	☐
1311287-49	WG-17360-110413-EB-049	Water		11/04/13 13:15	11/06/13 10:05	☐
1311287-50	WG-17360-110413-EB-050	Water		11/04/13 14:30	11/06/13 10:05	☐
1311287-51	WG-17360-110413-EB-051	Water		11/04/13 15:05	11/06/13 10:05	☐
1311287-52	WG-17360-110413-EB-052	Water		11/04/13 15:45	11/06/13 10:05	☐
1311287-53	WG-17360-110413-EB-053	Water		11/04/13 16:45	11/06/13 10:05	☐
1311287-54	WG-17360-110513-EB-054	Water		11/05/13 10:15	11/06/13 10:05	☐
1311287-55	WG-17360-110513-EB-055	Water		11/05/13 10:25	11/06/13 10:05	☐
1311287-56	WG-17360-110513-EB-056	Water		11/05/13 11:15	11/06/13 10:05	☐
1311287-57	WG-17360-110513-MR-057	Water		11/05/13 11:11	11/06/13 10:05	☐
1311287-58	WG-17360-110513-MR-058	Water		11/05/13 13:33	11/06/13 10:05	☐
1311287-59	WG-17360-110513-MR-059	Water		11/05/13 12:47	11/06/13 10:05	☐
1311287-60	WG-17360-110513-MR-060	Water		11/05/13 14:25	11/06/13 10:05	☐
1311287-61	WG-17360-110513-MR-061	Water		11/05/13 11:20	11/06/13 10:05	☐
1311287-62	WG-17360-110513-EB-062	Water		11/05/13 12:50	11/06/13 10:05	☐
1311287-63	WG-17360-110513-EB-063	Water		11/05/13 13:35	11/06/13 10:05	☐
1311287-64	WG-17360-110513-EB-064	Water		11/05/13 13:40	11/06/13 10:05	☐
1311287-65	WG-17360-110513-EB-065	Water		11/05/13 14:20	11/06/13 10:05	☐
1311287-66	WG-17360-110513-EB-066	Water		11/05/13 14:55	11/06/13 10:05	☐

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
WorkOrder: 1311287

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

<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
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

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Work Order: 1311287

Case Narrative**QC Comments:**

Batch 53069, Method SVO_8270_W, Sample 1311287-54B MS: The MS and/or MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for Pentachlorophenol.

Batch 53070, Method SVO_625_WW, Sample 1311287-54B MS: The MS and/or MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for Pentachlorophenol.

Batch R130276A, Method VOC_8260_W, Sample VLCSW1-13111: The LCS recovery was outside of the upper control limit but within the Sporadic Marginal Exceedence limit. No qualification is necessary for 4-Methyl-2-pentanone.

Batch R130276A, Method VOC_8260_W, Sample 1311287-12A MS: The MS and/or MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect. No qualification is required for 4-Methyl -2-pentanone and Acetone.

Batch R130334, Method VOC_8260_W, Sample VLCSW2-131111: The LCS recovery was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for 1,2-Dibromoethane, 2-Butanone, 2-Hexanone, 4-Methyl-2-pentanone, and Acetone.

Batch R130334, Method VOC_8260_W, Sample 1311287-57A MSD: The MS and/or MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect. No qualification is required for 4-Methyl-2-pentanone and Acetone.

Batch R130346A, Method VOC_8260_W, Sample VLCSW1-131111: The LCS recovery was above the upper control limit. All sample results in the batch were non-detect. No qualification is necessary for 4-Methyl -2-pentanone.

Batch R130346A, Method VOC_8260_W, Sample 1311287-28A MS: The MS and/or MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for Ethylbenzene, Isopropylbenzene, and Total Xylenes.

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: SW-17360-102813-EB-001
Collection Date: 10/28/13 10:00 AM

Work Order: 1311287
Lab ID: 1311287-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130100</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 06:54
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/08/13 06:54
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 06:54
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/08/13 06:54
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/08/13 06:54
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 06:54
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/08/13 06:54
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/08/13 06:54
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/08/13 06:54
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/08/13 06:54
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/08/13 06:54
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/08/13 06:54
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 06:54
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 06:54
2-Butanone	U		0.64	25	µg/L	1	11/08/13 06:54
2-Hexanone	U		0.19	50	µg/L	1	11/08/13 06:54
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/08/13 06:54
Acetone	U		3.0	50	µg/L	1	11/08/13 06:54
Benzene	U		0.14	1.0	µg/L	1	11/08/13 06:54
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/08/13 06:54
Bromoform	U		0.18	1.0	µg/L	1	11/08/13 06:54
Bromomethane	U		0.38	5.0	µg/L	1	11/08/13 06:54
Carbon disulfide	U		0.26	5.0	µg/L	1	11/08/13 06:54
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/08/13 06:54
Chlorobenzene	U		0.12	1.0	µg/L	1	11/08/13 06:54
Chloroethane	U		0.25	5.0	µg/L	1	11/08/13 06:54
Chloroform	U		0.15	1.0	µg/L	1	11/08/13 06:54
Chloromethane	U		0.29	5.0	µg/L	1	11/08/13 06:54
cis-1,2-Dichloroethene	1.2		0.10	1.0	µg/L	1	11/08/13 06:54
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/08/13 06:54
Cyclohexane	U		0.20	1.0	µg/L	1	11/08/13 06:54
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/08/13 06:54
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/08/13 06:54
Ethylbenzene	U		0.12	1.0	µg/L	1	11/08/13 06:54
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/08/13 06:54
Methyl acetate	U		0.76	10	µg/L	1	11/08/13 06:54
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/08/13 06:54

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: SW-17360-102813-EB-001
Collection Date: 10/28/13 10:00 AM

Work Order: 1311287
Lab ID: 1311287-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/08/13 06:54
Methylene chloride	U		0.75	5.0	µg/L	1	11/08/13 06:54
Styrene	U		0.12	1.0	µg/L	1	11/08/13 06:54
Tetrachloroethene	2.9		0.098	1.0	µg/L	1	11/08/13 06:54
Toluene	U		0.13	1.0	µg/L	1	11/08/13 06:54
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 06:54
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/08/13 06:54
Trichloroethene	U		0.16	1.0	µg/L	1	11/08/13 06:54
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/08/13 06:54
Vinyl chloride	U		0.15	1.0	µg/L	1	11/08/13 06:54
Xylenes, Total	U		0.30	3.0	µg/L	1	11/08/13 06:54
Surr: 1,2-Dichloroethane-d4	95.4			70-120	%REC	1	11/08/13 06:54
Surr: 4-Bromofluorobenzene	95.4			75-120	%REC	1	11/08/13 06:54
Surr: Dibromofluoromethane	98.7			85-115	%REC	1	11/08/13 06:54
Surr: Toluene-d8	97.6			85-120	%REC	1	11/08/13 06:54

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: SW-17360-102813-EB-002
Collection Date: 10/28/13 10:15 AM

Work Order: 1311287
Lab ID: 1311287-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130100</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 07:19
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/08/13 07:19
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 07:19
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/08/13 07:19
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/08/13 07:19
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 07:19
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/08/13 07:19
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/08/13 07:19
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/08/13 07:19
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/08/13 07:19
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/08/13 07:19
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/08/13 07:19
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 07:19
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 07:19
2-Butanone	U		0.64	25	µg/L	1	11/08/13 07:19
2-Hexanone	U		0.19	50	µg/L	1	11/08/13 07:19
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/08/13 07:19
Acetone	U		3.0	50	µg/L	1	11/08/13 07:19
Benzene	U		0.14	1.0	µg/L	1	11/08/13 07:19
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/08/13 07:19
Bromoform	U		0.18	1.0	µg/L	1	11/08/13 07:19
Bromomethane	U		0.38	5.0	µg/L	1	11/08/13 07:19
Carbon disulfide	U		0.26	5.0	µg/L	1	11/08/13 07:19
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/08/13 07:19
Chlorobenzene	U		0.12	1.0	µg/L	1	11/08/13 07:19
Chloroethane	U		0.25	5.0	µg/L	1	11/08/13 07:19
Chloroform	U		0.15	1.0	µg/L	1	11/08/13 07:19
Chloromethane	U		0.29	5.0	µg/L	1	11/08/13 07:19
cis-1,2-Dichloroethene	1.4		0.10	1.0	µg/L	1	11/08/13 07:19
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/08/13 07:19
Cyclohexane	U		0.20	1.0	µg/L	1	11/08/13 07:19
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/08/13 07:19
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/08/13 07:19
Ethylbenzene	U		0.12	1.0	µg/L	1	11/08/13 07:19
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/08/13 07:19
Methyl acetate	U		0.76	10	µg/L	1	11/08/13 07:19
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/08/13 07:19

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: SW-17360-102813-EB-002
Collection Date: 10/28/13 10:15 AM

Work Order: 1311287
Lab ID: 1311287-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/08/13 07:19
Methylene chloride	U		0.75	5.0	µg/L	1	11/08/13 07:19
Styrene	U		0.12	1.0	µg/L	1	11/08/13 07:19
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/08/13 07:19
Toluene	U		0.13	1.0	µg/L	1	11/08/13 07:19
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 07:19
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/08/13 07:19
Trichloroethene	U		0.16	1.0	µg/L	1	11/08/13 07:19
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/08/13 07:19
Vinyl chloride	U		0.15	1.0	µg/L	1	11/08/13 07:19
Xylenes, Total	U		0.30	3.0	µg/L	1	11/08/13 07:19
Surr: 1,2-Dichloroethane-d4	95.0			70-120	%REC	1	11/08/13 07:19
Surr: 4-Bromofluorobenzene	98.4			75-120	%REC	1	11/08/13 07:19
Surr: Dibromofluoromethane	98.2			85-115	%REC	1	11/08/13 07:19
Surr: Toluene-d8	97.8			85-120	%REC	1	11/08/13 07:19

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102813-MR-003
Collection Date: 10/28/13 02:10 PM

Work Order: 1311287
Lab ID: 1311287-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130100</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 07:43
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/08/13 07:43
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 07:43
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/08/13 07:43
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/08/13 07:43
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 07:43
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/08/13 07:43
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/08/13 07:43
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/08/13 07:43
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/08/13 07:43
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/08/13 07:43
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/08/13 07:43
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 07:43
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 07:43
2-Butanone	U		0.64	25	µg/L	1	11/08/13 07:43
2-Hexanone	U		0.19	50	µg/L	1	11/08/13 07:43
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/08/13 07:43
Acetone	U		3.0	50	µg/L	1	11/08/13 07:43
Benzene	U		0.14	1.0	µg/L	1	11/08/13 07:43
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/08/13 07:43
Bromoform	U		0.18	1.0	µg/L	1	11/08/13 07:43
Bromomethane	U		0.38	5.0	µg/L	1	11/08/13 07:43
Carbon disulfide	U		0.26	5.0	µg/L	1	11/08/13 07:43
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/08/13 07:43
Chlorobenzene	U		0.12	1.0	µg/L	1	11/08/13 07:43
Chloroethane	U		0.25	5.0	µg/L	1	11/08/13 07:43
Chloroform	U		0.15	1.0	µg/L	1	11/08/13 07:43
Chloromethane	U		0.29	5.0	µg/L	1	11/08/13 07:43
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/08/13 07:43
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/08/13 07:43
Cyclohexane	U		0.20	1.0	µg/L	1	11/08/13 07:43
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/08/13 07:43
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/08/13 07:43
Ethylbenzene	U		0.12	1.0	µg/L	1	11/08/13 07:43
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/08/13 07:43
Methyl acetate	U		0.76	10	µg/L	1	11/08/13 07:43
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/08/13 07:43

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102813-MR-003
Collection Date: 10/28/13 02:10 PM

Work Order: 1311287
Lab ID: 1311287-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/08/13 07:43
Methylene chloride	U		0.75	5.0	µg/L	1	11/08/13 07:43
Styrene	U		0.12	1.0	µg/L	1	11/08/13 07:43
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/08/13 07:43
Toluene	U		0.13	1.0	µg/L	1	11/08/13 07:43
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 07:43
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/08/13 07:43
Trichloroethene	U		0.16	1.0	µg/L	1	11/08/13 07:43
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/08/13 07:43
Vinyl chloride	U		0.15	1.0	µg/L	1	11/08/13 07:43
Xylenes, Total	U		0.30	3.0	µg/L	1	11/08/13 07:43
Surr: 1,2-Dichloroethane-d4	94.8			70-120	%REC	1	11/08/13 07:43
Surr: 4-Bromofluorobenzene	98.0			75-120	%REC	1	11/08/13 07:43
Surr: Dibromofluoromethane	99.8			85-115	%REC	1	11/08/13 07:43
Surr: Toluene-d8	99.0			85-120	%REC	1	11/08/13 07:43

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102813-MR-004
Collection Date: 10/28/13 02:47 PM

Work Order: 1311287
Lab ID: 1311287-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130100</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 08:07
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/08/13 08:07
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 08:07
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/08/13 08:07
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/08/13 08:07
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 08:07
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/08/13 08:07
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/08/13 08:07
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/08/13 08:07
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/08/13 08:07
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/08/13 08:07
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/08/13 08:07
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 08:07
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 08:07
2-Butanone	U		0.64	25	µg/L	1	11/08/13 08:07
2-Hexanone	U		0.19	50	µg/L	1	11/08/13 08:07
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/08/13 08:07
Acetone	U		3.0	50	µg/L	1	11/08/13 08:07
Benzene	U		0.14	1.0	µg/L	1	11/08/13 08:07
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/08/13 08:07
Bromoform	U		0.18	1.0	µg/L	1	11/08/13 08:07
Bromomethane	U		0.38	5.0	µg/L	1	11/08/13 08:07
Carbon disulfide	U		0.26	5.0	µg/L	1	11/08/13 08:07
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/08/13 08:07
Chlorobenzene	U		0.12	1.0	µg/L	1	11/08/13 08:07
Chloroethane	U		0.25	5.0	µg/L	1	11/08/13 08:07
Chloroform	U		0.15	1.0	µg/L	1	11/08/13 08:07
Chloromethane	U		0.29	5.0	µg/L	1	11/08/13 08:07
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/08/13 08:07
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/08/13 08:07
Cyclohexane	U		0.20	1.0	µg/L	1	11/08/13 08:07
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/08/13 08:07
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/08/13 08:07
Ethylbenzene	U		0.12	1.0	µg/L	1	11/08/13 08:07
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/08/13 08:07
Methyl acetate	U		0.76	10	µg/L	1	11/08/13 08:07
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/08/13 08:07

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102813-MR-004
Collection Date: 10/28/13 02:47 PM

Work Order: 1311287
Lab ID: 1311287-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/08/13 08:07
Methylene chloride	U		0.75	5.0	µg/L	1	11/08/13 08:07
Styrene	U		0.12	1.0	µg/L	1	11/08/13 08:07
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/08/13 08:07
Toluene	U		0.13	1.0	µg/L	1	11/08/13 08:07
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 08:07
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/08/13 08:07
Trichloroethene	U		0.16	1.0	µg/L	1	11/08/13 08:07
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/08/13 08:07
Vinyl chloride	U		0.15	1.0	µg/L	1	11/08/13 08:07
Xylenes, Total	U		0.30	3.0	µg/L	1	11/08/13 08:07
Surr: 1,2-Dichloroethane-d4	94.2			70-120	%REC	1	11/08/13 08:07
Surr: 4-Bromofluorobenzene	98.8			75-120	%REC	1	11/08/13 08:07
Surr: Dibromofluoromethane	97.6			85-115	%REC	1	11/08/13 08:07
Surr: Toluene-d8	99.0			85-120	%REC	1	11/08/13 08:07

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102813-MR-005
Collection Date: 10/28/13 04:06 PM

Work Order: 1311287
Lab ID: 1311287-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130100</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 08:31
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/08/13 08:31
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 08:31
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/08/13 08:31
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/08/13 08:31
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 08:31
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/08/13 08:31
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/08/13 08:31
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/08/13 08:31
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/08/13 08:31
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/08/13 08:31
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/08/13 08:31
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 08:31
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 08:31
2-Butanone	U		0.64	25	µg/L	1	11/08/13 08:31
2-Hexanone	U		0.19	50	µg/L	1	11/08/13 08:31
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/08/13 08:31
Acetone	U		3.0	50	µg/L	1	11/08/13 08:31
Benzene	U		0.14	1.0	µg/L	1	11/08/13 08:31
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/08/13 08:31
Bromoform	U		0.18	1.0	µg/L	1	11/08/13 08:31
Bromomethane	U		0.38	5.0	µg/L	1	11/08/13 08:31
Carbon disulfide	U		0.26	5.0	µg/L	1	11/08/13 08:31
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/08/13 08:31
Chlorobenzene	U		0.12	1.0	µg/L	1	11/08/13 08:31
Chloroethane	U		0.25	5.0	µg/L	1	11/08/13 08:31
Chloroform	25		0.15	1.0	µg/L	1	11/08/13 08:31
Chloromethane	U		0.29	5.0	µg/L	1	11/08/13 08:31
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/08/13 08:31
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/08/13 08:31
Cyclohexane	U		0.20	1.0	µg/L	1	11/08/13 08:31
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/08/13 08:31
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/08/13 08:31
Ethylbenzene	U		0.12	1.0	µg/L	1	11/08/13 08:31
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/08/13 08:31
Methyl acetate	U		0.76	10	µg/L	1	11/08/13 08:31
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/08/13 08:31

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102813-MR-005
Collection Date: 10/28/13 04:06 PM

Work Order: 1311287
Lab ID: 1311287-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/08/13 08:31
Methylene chloride	U		0.75	5.0	µg/L	1	11/08/13 08:31
Styrene	U		0.12	1.0	µg/L	1	11/08/13 08:31
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/08/13 08:31
Toluene	U		0.13	1.0	µg/L	1	11/08/13 08:31
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 08:31
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/08/13 08:31
Trichloroethene	U		0.16	1.0	µg/L	1	11/08/13 08:31
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/08/13 08:31
Vinyl chloride	U		0.15	1.0	µg/L	1	11/08/13 08:31
Xylenes, Total	U		0.30	3.0	µg/L	1	11/08/13 08:31
Surr: 1,2-Dichloroethane-d4	94.3			70-120	%REC	1	11/08/13 08:31
Surr: 4-Bromofluorobenzene	97.6			75-120	%REC	1	11/08/13 08:31
Surr: Dibromofluoromethane	98.5			85-115	%REC	1	11/08/13 08:31
Surr: Toluene-d8	98.3			85-120	%REC	1	11/08/13 08:31

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102813-MR-006
Collection Date: 10/28/13 05:00 PM

Work Order: 1311287
Lab ID: 1311287-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130100</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 08:56
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/08/13 08:56
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 08:56
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/08/13 08:56
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/08/13 08:56
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 08:56
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/08/13 08:56
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/08/13 08:56
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/08/13 08:56
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/08/13 08:56
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/08/13 08:56
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/08/13 08:56
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 08:56
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 08:56
2-Butanone	U		0.64	25	µg/L	1	11/08/13 08:56
2-Hexanone	U		0.19	50	µg/L	1	11/08/13 08:56
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/08/13 08:56
Acetone	U		3.0	50	µg/L	1	11/08/13 08:56
Benzene	U		0.14	1.0	µg/L	1	11/08/13 08:56
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/08/13 08:56
Bromoform	U		0.18	1.0	µg/L	1	11/08/13 08:56
Bromomethane	U		0.38	5.0	µg/L	1	11/08/13 08:56
Carbon disulfide	U		0.26	5.0	µg/L	1	11/08/13 08:56
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/08/13 08:56
Chlorobenzene	U		0.12	1.0	µg/L	1	11/08/13 08:56
Chloroethane	U		0.25	5.0	µg/L	1	11/08/13 08:56
Chloroform	4.8		0.15	1.0	µg/L	1	11/08/13 08:56
Chloromethane	U		0.29	5.0	µg/L	1	11/08/13 08:56
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/08/13 08:56
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/08/13 08:56
Cyclohexane	U		0.20	1.0	µg/L	1	11/08/13 08:56
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/08/13 08:56
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/08/13 08:56
Ethylbenzene	U		0.12	1.0	µg/L	1	11/08/13 08:56
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/08/13 08:56
Methyl acetate	U		0.76	10	µg/L	1	11/08/13 08:56
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/08/13 08:56

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102813-MR-006
Collection Date: 10/28/13 05:00 PM

Work Order: 1311287
Lab ID: 1311287-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/08/13 08:56
Methylene chloride	U		0.75	5.0	µg/L	1	11/08/13 08:56
Styrene	U		0.12	1.0	µg/L	1	11/08/13 08:56
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/08/13 08:56
Toluene	U		0.13	1.0	µg/L	1	11/08/13 08:56
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 08:56
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/08/13 08:56
Trichloroethene	U		0.16	1.0	µg/L	1	11/08/13 08:56
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/08/13 08:56
Vinyl chloride	U		0.15	1.0	µg/L	1	11/08/13 08:56
Xylenes, Total	U		0.30	3.0	µg/L	1	11/08/13 08:56
Surr: 1,2-Dichloroethane-d4	92.5			70-120	%REC	1	11/08/13 08:56
Surr: 4-Bromofluorobenzene	98.8			75-120	%REC	1	11/08/13 08:56
Surr: Dibromofluoromethane	95.2			85-115	%REC	1	11/08/13 08:56
Surr: Toluene-d8	96.6			85-120	%REC	1	11/08/13 08:56

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102813-MR-007
Collection Date: 10/28/13 05:05 PM

Work Order: 1311287
Lab ID: 1311287-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130100</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 09:20
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/08/13 09:20
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/08/13 09:20
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/08/13 09:20
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/08/13 09:20
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 09:20
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/08/13 09:20
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/08/13 09:20
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/08/13 09:20
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/08/13 09:20
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/08/13 09:20
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/08/13 09:20
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 09:20
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/08/13 09:20
2-Butanone	U		0.64	25	µg/L	1	11/08/13 09:20
2-Hexanone	U		0.19	50	µg/L	1	11/08/13 09:20
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/08/13 09:20
Acetone	U		3.0	50	µg/L	1	11/08/13 09:20
Benzene	U		0.14	1.0	µg/L	1	11/08/13 09:20
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/08/13 09:20
Bromoform	U		0.18	1.0	µg/L	1	11/08/13 09:20
Bromomethane	U		0.38	5.0	µg/L	1	11/08/13 09:20
Carbon disulfide	U		0.26	5.0	µg/L	1	11/08/13 09:20
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/08/13 09:20
Chlorobenzene	U		0.12	1.0	µg/L	1	11/08/13 09:20
Chloroethane	U		0.25	5.0	µg/L	1	11/08/13 09:20
Chloroform	4.9		0.15	1.0	µg/L	1	11/08/13 09:20
Chloromethane	U		0.29	5.0	µg/L	1	11/08/13 09:20
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/08/13 09:20
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/08/13 09:20
Cyclohexane	U		0.20	1.0	µg/L	1	11/08/13 09:20
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/08/13 09:20
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/08/13 09:20
Ethylbenzene	U		0.12	1.0	µg/L	1	11/08/13 09:20
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/08/13 09:20
Methyl acetate	U		0.76	10	µg/L	1	11/08/13 09:20
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/08/13 09:20

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102813-MR-007
Collection Date: 10/28/13 05:05 PM

Work Order: 1311287
Lab ID: 1311287-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/08/13 09:20
Methylene chloride	U		0.75	5.0	µg/L	1	11/08/13 09:20
Styrene	U		0.12	1.0	µg/L	1	11/08/13 09:20
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/08/13 09:20
Toluene	U		0.13	1.0	µg/L	1	11/08/13 09:20
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/08/13 09:20
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/08/13 09:20
Trichloroethene	U		0.16	1.0	µg/L	1	11/08/13 09:20
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/08/13 09:20
Vinyl chloride	U		0.15	1.0	µg/L	1	11/08/13 09:20
Xylenes, Total	U		0.30	3.0	µg/L	1	11/08/13 09:20
Surr: 1,2-Dichloroethane-d4	96.0			70-120	%REC	1	11/08/13 09:20
Surr: 4-Bromofluorobenzene	98.1			75-120	%REC	1	11/08/13 09:20
Surr: Dibromofluoromethane	97.9			85-115	%REC	1	11/08/13 09:20
Surr: Toluene-d8	98.8			85-120	%REC	1	11/08/13 09:20

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-008
Collection Date: 10/29/13 10:28 AM

Work Order: 1311287
Lab ID: 1311287-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
BatchID: <u>R130254</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:04
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 15:04
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:04
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 15:04
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 15:04
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 15:04
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 15:04
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 15:04
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 15:04
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 15:04
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:04
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 15:04
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 15:04
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 15:04
2-Butanone	U		0.64	25	µg/L	1	11/11/13 15:04
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 15:04
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 15:04
Acetone	U		3.0	50	µg/L	1	11/11/13 15:04
Benzene	U		0.14	1.0	µg/L	1	11/11/13 15:04
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 15:04
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 15:04
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 15:04
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 15:04
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 15:04
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 15:04
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 15:04
Chloroform	U		0.15	1.0	µg/L	1	11/11/13 15:04
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 15:04
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/11/13 15:04
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 15:04
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 15:04
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 15:04
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 15:04
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 15:04
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 15:04
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 15:04
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/11/13 15:04

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-008
Collection Date: 10/29/13 10:28 AM

Work Order: 1311287
Lab ID: 1311287-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 15:04
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 15:04
Styrene	U		0.12	1.0	µg/L	1	11/11/13 15:04
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/11/13 15:04
Toluene	U		0.13	1.0	µg/L	1	11/11/13 15:04
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 15:04
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 15:04
Trichloroethene	U		0.16	1.0	µg/L	1	11/11/13 15:04
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 15:04
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 15:04
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 15:04
Surr: 1,2-Dichloroethane-d4	92.8			70-120	%REC	1	11/11/13 15:04
Surr: 4-Bromofluorobenzene	98.0			75-120	%REC	1	11/11/13 15:04
Surr: Dibromofluoromethane	96.4			85-115	%REC	1	11/11/13 15:04
Surr: Toluene-d8	97.3			85-120	%REC	1	11/11/13 15:04

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-009
Collection Date: 10/29/13 11:23 AM

Work Order: 1311287
Lab ID: 1311287-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
BatchID: <u>R130254</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:29
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 15:29
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:29
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 15:29
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 15:29
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 15:29
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 15:29
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 15:29
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 15:29
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 15:29
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:29
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 15:29
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 15:29
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 15:29
2-Butanone	U		0.64	25	µg/L	1	11/11/13 15:29
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 15:29
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 15:29
Acetone	U		3.0	50	µg/L	1	11/11/13 15:29
Benzene	U		0.14	1.0	µg/L	1	11/11/13 15:29
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 15:29
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 15:29
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 15:29
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 15:29
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 15:29
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 15:29
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 15:29
Chloroform	U		0.15	1.0	µg/L	1	11/11/13 15:29
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 15:29
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/11/13 15:29
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 15:29
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 15:29
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 15:29
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 15:29
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 15:29
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 15:29
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 15:29
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/11/13 15:29

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-009
Collection Date: 10/29/13 11:23 AM

Work Order: 1311287
Lab ID: 1311287-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 15:29
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 15:29
Styrene	U		0.12	1.0	µg/L	1	11/11/13 15:29
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/11/13 15:29
Toluene	U		0.13	1.0	µg/L	1	11/11/13 15:29
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 15:29
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 15:29
Trichloroethene	U		0.16	1.0	µg/L	1	11/11/13 15:29
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 15:29
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 15:29
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 15:29
Surr: 1,2-Dichloroethane-d4	94.2			70-120	%REC	1	11/11/13 15:29
Surr: 4-Bromofluorobenzene	100			75-120	%REC	1	11/11/13 15:29
Surr: Dibromofluoromethane	97.6			85-115	%REC	1	11/11/13 15:29
Surr: Toluene-d8	98.0			85-120	%REC	1	11/11/13 15:29

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-010
Collection Date: 10/29/13 12:02 PM

Work Order: 1311287
Lab ID: 1311287-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130254</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:53
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 15:53
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:53
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 15:53
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 15:53
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 15:53
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 15:53
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 15:53
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 15:53
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 15:53
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:53
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 15:53
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 15:53
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 15:53
2-Butanone	U		0.64	25	µg/L	1	11/11/13 15:53
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 15:53
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 15:53
Acetone	U		3.0	50	µg/L	1	11/11/13 15:53
Benzene	U		0.14	1.0	µg/L	1	11/11/13 15:53
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 15:53
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 15:53
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 15:53
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 15:53
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 15:53
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 15:53
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 15:53
Chloroform	U		0.15	1.0	µg/L	1	11/11/13 15:53
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 15:53
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/11/13 15:53
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 15:53
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 15:53
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 15:53
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 15:53
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 15:53
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 15:53
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 15:53
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/11/13 15:53

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-010
Collection Date: 10/29/13 12:02 PM

Work Order: 1311287
Lab ID: 1311287-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 15:53
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 15:53
Styrene	U		0.12	1.0	µg/L	1	11/11/13 15:53
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/11/13 15:53
Toluene	U		0.13	1.0	µg/L	1	11/11/13 15:53
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 15:53
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 15:53
Trichloroethene	U		0.16	1.0	µg/L	1	11/11/13 15:53
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 15:53
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 15:53
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 15:53
Surr: 1,2-Dichloroethane-d4	92.0			70-120	%REC	1	11/11/13 15:53
Surr: 4-Bromofluorobenzene	97.9			75-120	%REC	1	11/11/13 15:53
Surr: Dibromofluoromethane	97.2			85-115	%REC	1	11/11/13 15:53
Surr: Toluene-d8	96.5			85-120	%REC	1	11/11/13 15:53

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-011
Collection Date: 10/29/13 01:45 PM

Work Order: 1311287
Lab ID: 1311287-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
BatchID: <u>R130254</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 16:17
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 16:17
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 16:17
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 16:17
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 16:17
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 16:17
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 16:17
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 16:17
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 16:17
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 16:17
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 16:17
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 16:17
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 16:17
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 16:17
2-Butanone	U		0.64	25	µg/L	1	11/11/13 16:17
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 16:17
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 16:17
Acetone	U		3.0	50	µg/L	1	11/11/13 16:17
Benzene	U		0.14	1.0	µg/L	1	11/11/13 16:17
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 16:17
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 16:17
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 16:17
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 16:17
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 16:17
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 16:17
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 16:17
Chloroform	U		0.15	1.0	µg/L	1	11/11/13 16:17
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 16:17
cis-1,2-Dichloroethene	57		0.10	1.0	µg/L	1	11/11/13 16:17
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 16:17
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 16:17
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 16:17
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 16:17
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 16:17
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 16:17
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 16:17
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/11/13 16:17

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-011
Collection Date: 10/29/13 01:45 PM

Work Order: 1311287
Lab ID: 1311287-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 16:17
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 16:17
Styrene	U		0.12	1.0	µg/L	1	11/11/13 16:17
Tetrachloroethene	92		0.098	1.0	µg/L	1	11/11/13 16:17
Toluene	U		0.13	1.0	µg/L	1	11/11/13 16:17
trans-1,2-Dichloroethene	1.2		0.12	1.0	µg/L	1	11/11/13 16:17
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 16:17
Trichloroethene	9.4		0.16	1.0	µg/L	1	11/11/13 16:17
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 16:17
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 16:17
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 16:17
Surr: 1,2-Dichloroethane-d4	93.8			70-120	%REC	1	11/11/13 16:17
Surr: 4-Bromofluorobenzene	98.6			75-120	%REC	1	11/11/13 16:17
Surr: Dibromofluoromethane	97.4			85-115	%REC	1	11/11/13 16:17
Surr: Toluene-d8	95.5			85-120	%REC	1	11/11/13 16:17

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-012
Collection Date: 10/29/13 01:12 PM

Work Order: 1311287
Lab ID: 1311287-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R130276</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:50
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 15:50
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:50
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 15:50
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 15:50
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 15:50
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 15:50
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 15:50
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 15:50
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 15:50
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 15:50
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 15:50
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 15:50
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 15:50
2-Butanone	U		0.64	25	µg/L	1	11/11/13 15:50
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 15:50
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 15:50
Acetone	U		3.0	50	µg/L	1	11/11/13 15:50
Benzene	U		0.14	1.0	µg/L	1	11/11/13 15:50
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 15:50
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 15:50
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 15:50
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 15:50
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 15:50
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 15:50
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 15:50
Chloroform	U		0.15	1.0	µg/L	1	11/11/13 15:50
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 15:50
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/11/13 15:50
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 15:50
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 15:50
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 15:50
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 15:50
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 15:50
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 15:50
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 15:50
Methyl tert-butyl ether	0.83	J	0.28	5.0	µg/L	1	11/11/13 15:50

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-012
Collection Date: 10/29/13 01:12 PM

Work Order: 1311287
Lab ID: 1311287-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 15:50
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 15:50
Styrene	U		0.12	1.0	µg/L	1	11/11/13 15:50
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/11/13 15:50
Toluene	U		0.13	1.0	µg/L	1	11/11/13 15:50
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 15:50
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 15:50
Trichloroethene	U		0.16	1.0	µg/L	1	11/11/13 15:50
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 15:50
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 15:50
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 15:50
Surr: 1,2-Dichloroethane-d4	97.2			70-120	%REC	1	11/11/13 15:50
Surr: 4-Bromofluorobenzene	95.0			75-120	%REC	1	11/11/13 15:50
Surr: Dibromofluoromethane	91.4			85-115	%REC	1	11/11/13 15:50
Surr: Toluene-d8	95.6			85-120	%REC	1	11/11/13 15:50

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-013
Collection Date: 10/29/13 03:54 PM

Work Order: 1311287
Lab ID: 1311287-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R130276</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:03
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 17:03
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:03
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 17:03
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 17:03
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 17:03
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 17:03
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 17:03
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 17:03
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 17:03
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:03
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 17:03
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 17:03
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 17:03
2-Butanone	U		0.64	25	µg/L	1	11/11/13 17:03
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 17:03
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 17:03
Acetone	U		3.0	50	µg/L	1	11/11/13 17:03
Benzene	U		0.14	1.0	µg/L	1	11/11/13 17:03
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 17:03
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 17:03
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 17:03
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 17:03
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 17:03
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 17:03
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 17:03
Chloroform	U		0.15	1.0	µg/L	1	11/11/13 17:03
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 17:03
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/11/13 17:03
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 17:03
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 17:03
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 17:03
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 17:03
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 17:03
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 17:03
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 17:03
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/11/13 17:03

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-013
Collection Date: 10/29/13 03:54 PM

Work Order: 1311287
Lab ID: 1311287-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 17:03
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 17:03
Styrene	U		0.12	1.0	µg/L	1	11/11/13 17:03
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/11/13 17:03
Toluene	U		0.13	1.0	µg/L	1	11/11/13 17:03
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 17:03
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 17:03
Trichloroethene	U		0.16	1.0	µg/L	1	11/11/13 17:03
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 17:03
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 17:03
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 17:03
Surr: 1,2-Dichloroethane-d4	94.9			70-120	%REC	1	11/11/13 17:03
Surr: 4-Bromofluorobenzene	97.5			75-120	%REC	1	11/11/13 17:03
Surr: Dibromofluoromethane	90.4			85-115	%REC	1	11/11/13 17:03
Surr: Toluene-d8	95.2			85-120	%REC	1	11/11/13 17:03

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-014
Collection Date: 10/29/13 04:47 PM

Work Order: 1311287
Lab ID: 1311287-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130254</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 16:41
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 16:41
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 16:41
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 16:41
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 16:41
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 16:41
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 16:41
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 16:41
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 16:41
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 16:41
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 16:41
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 16:41
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 16:41
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 16:41
2-Butanone	U		0.64	25	µg/L	1	11/11/13 16:41
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 16:41
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 16:41
Acetone	U		3.0	50	µg/L	1	11/11/13 16:41
Benzene	U		0.14	1.0	µg/L	1	11/11/13 16:41
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 16:41
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 16:41
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 16:41
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 16:41
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 16:41
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 16:41
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 16:41
Chloroform	1.0		0.15	1.0	µg/L	1	11/11/13 16:41
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 16:41
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/11/13 16:41
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 16:41
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 16:41
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 16:41
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 16:41
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 16:41
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 16:41
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 16:41
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/11/13 16:41

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-102913-MR-014
Collection Date: 10/29/13 04:47 PM

Work Order: 1311287
Lab ID: 1311287-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 16:41
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 16:41
Styrene	U		0.12	1.0	µg/L	1	11/11/13 16:41
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/11/13 16:41
Toluene	U		0.13	1.0	µg/L	1	11/11/13 16:41
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 16:41
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 16:41
Trichloroethene	U		0.16	1.0	µg/L	1	11/11/13 16:41
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 16:41
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 16:41
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 16:41
Surr: 1,2-Dichloroethane-d4	91.6			70-120	%REC	1	11/11/13 16:41
Surr: 4-Bromofluorobenzene	99.1			75-120	%REC	1	11/11/13 16:41
Surr: Dibromofluoromethane	97.7			85-115	%REC	1	11/11/13 16:41
Surr: Toluene-d8	97.0			85-120	%REC	1	11/11/13 16:41

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: SW-17360-102913-MR-024
Collection Date: 10/29/13 05:05 PM

Work Order: 1311287
Lab ID: 1311287-15
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130254</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:06
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 17:06
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:06
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 17:06
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 17:06
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 17:06
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 17:06
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 17:06
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 17:06
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 17:06
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:06
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 17:06
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 17:06
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 17:06
2-Butanone	U		0.64	25	µg/L	1	11/11/13 17:06
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 17:06
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 17:06
Acetone	U		3.0	50	µg/L	1	11/11/13 17:06
Benzene	U		0.14	1.0	µg/L	1	11/11/13 17:06
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 17:06
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 17:06
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 17:06
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 17:06
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 17:06
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 17:06
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 17:06
Chloroform	U		0.15	1.0	µg/L	1	11/11/13 17:06
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 17:06
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/11/13 17:06
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 17:06
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 17:06
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 17:06
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 17:06
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 17:06
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 17:06
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 17:06
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/11/13 17:06

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: SW-17360-102913-MR-024
Collection Date: 10/29/13 05:05 PM

Work Order: 1311287
Lab ID: 1311287-15
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 17:06
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 17:06
Styrene	U		0.12	1.0	µg/L	1	11/11/13 17:06
Tetrachloroethene	2.2		0.098	1.0	µg/L	1	11/11/13 17:06
Toluene	U		0.13	1.0	µg/L	1	11/11/13 17:06
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 17:06
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 17:06
Trichloroethene	U		0.16	1.0	µg/L	1	11/11/13 17:06
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 17:06
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 17:06
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 17:06
Surr: 1,2-Dichloroethane-d4	93.3			70-120	%REC	1	11/11/13 17:06
Surr: 4-Bromofluorobenzene	100			75-120	%REC	1	11/11/13 17:06
Surr: Dibromofluoromethane	97.6			85-115	%REC	1	11/11/13 17:06
Surr: Toluene-d8	96.6			85-120	%REC	1	11/11/13 17:06

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-015
Collection Date: 10/30/13 10:00 AM

Work Order: 1311287
Lab ID: 1311287-16
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R130276</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:28
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 17:28
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:28
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 17:28
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 17:28
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 17:28
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 17:28
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 17:28
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 17:28
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 17:28
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:28
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 17:28
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 17:28
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 17:28
2-Butanone	U		0.64	25	µg/L	1	11/11/13 17:28
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 17:28
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 17:28
Acetone	U		3.0	50	µg/L	1	11/11/13 17:28
Benzene	U		0.14	1.0	µg/L	1	11/11/13 17:28
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 17:28
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 17:28
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 17:28
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 17:28
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 17:28
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 17:28
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 17:28
Chloroform	U		0.15	1.0	µg/L	1	11/11/13 17:28
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 17:28
cis-1,2-Dichloroethene	0.81	J	0.10	1.0	µg/L	1	11/11/13 17:28
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 17:28
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 17:28
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 17:28
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 17:28
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 17:28
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 17:28
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 17:28
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/11/13 17:28

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-015
Collection Date: 10/30/13 10:00 AM

Work Order: 1311287
Lab ID: 1311287-16
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 17:28
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 17:28
Styrene	U		0.12	1.0	µg/L	1	11/11/13 17:28
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/11/13 17:28
Toluene	U		0.13	1.0	µg/L	1	11/11/13 17:28
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 17:28
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 17:28
Trichloroethene	3.9		0.16	1.0	µg/L	1	11/11/13 17:28
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 17:28
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 17:28
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 17:28
Surr: 1,2-Dichloroethane-d4	93.6			70-120	%REC	1	11/11/13 17:28
Surr: 4-Bromofluorobenzene	95.8			75-120	%REC	1	11/11/13 17:28
Surr: Dibromofluoromethane	92.9			85-115	%REC	1	11/11/13 17:28
Surr: Toluene-d8	95.3			85-120	%REC	1	11/11/13 17:28

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-016
Collection Date: 10/30/13 10:45 AM

Work Order: 1311287
Lab ID: 1311287-17
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7470			Prep: SW7470 / 11/7/13	Analyst: LR
BatchID: <u>53079</u>							
Mercury	U		0.00010	0.00020	mg/L	1	11/08/13 12:15
METALS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/10/13	Analyst: RH
BatchID: <u>53157</u>							
Antimony	0.000083	J	0.000036	0.0050	mg/L	1	11/13/13 18:30
Arsenic	U		0.00058	0.0050	mg/L	1	11/13/13 18:30
Barium	0.11		0.000063	0.0050	mg/L	1	11/13/13 18:30
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 18:30
Cadmium	0.00054	J	0.000045	0.0020	mg/L	1	11/14/13 15:30
Chromium	U		0.00027	0.0050	mg/L	1	11/13/13 18:30
Cobalt	0.00065	J	0.000041	0.0050	mg/L	1	11/13/13 18:30
Copper	0.0011	J	0.00053	0.0050	mg/L	1	11/13/13 18:30
Lead	0.00099	J	0.000051	0.0050	mg/L	1	11/13/13 18:30
Manganese	0.074		0.000054	0.0050	mg/L	1	11/13/13 18:30
Molybdenum	0.00020	J	0.000088	0.0050	mg/L	1	11/13/13 18:30
Nickel	0.0040	J	0.00025	0.0050	mg/L	1	11/13/13 18:30
Selenium	0.0010	J	0.00064	0.0050	mg/L	1	11/13/13 18:30
Silver	U		0.000042	0.0050	mg/L	1	11/14/13 15:30
Thallium	U		0.000062	0.0050	mg/L	1	11/13/13 18:30
Vanadium	U		0.00016	0.0050	mg/L	1	11/13/13 18:30
Zinc	1.1		0.00048	0.010	mg/L	1	11/13/13 18:30
VOLATILE ORGANIC COMPOUNDS							
			SW8260				Analyst: BG
BatchID: <u>R130276</u>							
1,1,1-Trichloroethane	0.78	J	0.11	1.0	µg/L	1	11/11/13 17:53
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 17:53
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:53
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 17:53
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 17:53
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 17:53
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 17:53
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 17:53
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 17:53
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 17:53
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 17:53
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 17:53
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 17:53
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 17:53

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-016
Collection Date: 10/30/13 10:45 AM

Work Order: 1311287
Lab ID: 1311287-17
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/11/13 17:53
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 17:53
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 17:53
Acetone	U		3.0	50	µg/L	1	11/11/13 17:53
Benzene	U		0.14	1.0	µg/L	1	11/11/13 17:53
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 17:53
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 17:53
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 17:53
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 17:53
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 17:53
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 17:53
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 17:53
Chloroform	U		0.15	1.0	µg/L	1	11/11/13 17:53
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 17:53
cis-1,2-Dichloroethene	8.3		0.10	1.0	µg/L	1	11/11/13 17:53
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 17:53
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 17:53
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 17:53
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 17:53
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 17:53
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 17:53
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 17:53
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/11/13 17:53
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 17:53
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 17:53
Styrene	U		0.12	1.0	µg/L	1	11/11/13 17:53
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/11/13 17:53
Toluene	U		0.13	1.0	µg/L	1	11/11/13 17:53
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 17:53
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 17:53
Trichloroethene	17		0.16	1.0	µg/L	1	11/11/13 17:53
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 17:53
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 17:53
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 17:53
Surr: 1,2-Dichloroethane-d4	98.3			70-120	%REC	1	11/11/13 17:53
Surr: 4-Bromofluorobenzene	96.1			75-120	%REC	1	11/11/13 17:53
Surr: Dibromofluoromethane	92.9			85-115	%REC	1	11/11/13 17:53
Surr: Toluene-d8	95.8			85-120	%REC	1	11/11/13 17:53

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-017
Collection Date: 10/30/13 10:50 AM

Work Order: 1311287
Lab ID: 1311287-18
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7470			Prep: SW7470 / 11/7/13	Analyst: LR
<u>BatchID:</u> 53079							
Mercury	U		0.00010	0.00020	mg/L	1	11/08/13 12:17
METALS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/10/13	Analyst: RH
<u>BatchID:</u> 53157							
Antimony	0.000086	J	0.000036	0.0050	mg/L	1	11/13/13 18:43
Arsenic	U		0.00058	0.0050	mg/L	1	11/13/13 18:43
Barium	0.12		0.000063	0.0050	mg/L	1	11/13/13 18:43
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 18:43
Cadmium	0.00035	J	0.000045	0.0020	mg/L	1	11/14/13 15:36
Chromium	U		0.00027	0.0050	mg/L	1	11/13/13 18:43
Cobalt	0.00067	J	0.000041	0.0050	mg/L	1	11/13/13 18:43
Copper	0.00092	J	0.00053	0.0050	mg/L	1	11/13/13 18:43
Lead	0.00030	J	0.000051	0.0050	mg/L	1	11/13/13 18:43
Manganese	0.077		0.000054	0.0050	mg/L	1	11/13/13 18:43
Molybdenum	0.00022	J	0.000088	0.0050	mg/L	1	11/13/13 18:43
Nickel	0.0040	J	0.00025	0.0050	mg/L	1	11/13/13 18:43
Selenium	0.00086	J	0.00064	0.0050	mg/L	1	11/13/13 18:43
Silver	U		0.000042	0.0050	mg/L	1	11/14/13 15:36
Thallium	U		0.000062	0.0050	mg/L	1	11/13/13 18:43
Vanadium	U		0.00016	0.0050	mg/L	1	11/13/13 18:43
Zinc	0.55		0.00048	0.010	mg/L	1	11/13/13 18:43
VOLATILE ORGANIC COMPOUNDS							
			SW8260				Analyst: RS
<u>BatchID:</u> R130361							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 17:06
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 17:06
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 17:06
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 17:06
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 17:06
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 17:06
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 17:06
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 17:06
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 17:06
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 17:06
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 17:06
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 17:06
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 17:06
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 17:06

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-017
Collection Date: 10/30/13 10:50 AM

Work Order: 1311287
Lab ID: 1311287-18
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/12/13 17:06
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 17:06
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 17:06
Acetone	U		3.0	50	µg/L	1	11/12/13 17:06
Benzene	U		0.14	1.0	µg/L	1	11/12/13 17:06
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 17:06
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 17:06
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 17:06
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 17:06
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 17:06
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 17:06
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 17:06
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 17:06
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 17:06
cis-1,2-Dichloroethene	9.2		0.10	1.0	µg/L	1	11/12/13 17:06
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 17:06
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 17:06
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 17:06
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 17:06
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 17:06
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 17:06
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 17:06
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 17:06
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 17:06
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 17:06
Styrene	U		0.12	1.0	µg/L	1	11/12/13 17:06
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 17:06
Toluene	U		0.13	1.0	µg/L	1	11/12/13 17:06
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 17:06
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 17:06
Trichloroethene	19		0.16	1.0	µg/L	1	11/12/13 17:06
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 17:06
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 17:06
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 17:06
Surr: 1,2-Dichloroethane-d4	100			70-120	%REC	1	11/12/13 17:06
Surr: 4-Bromofluorobenzene	94.9			75-120	%REC	1	11/12/13 17:06
Surr: Dibromofluoromethane	100			85-115	%REC	1	11/12/13 17:06
Surr: Toluene-d8	98.6			85-120	%REC	1	11/12/13 17:06

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-018
Collection Date: 10/30/13 12:35 PM

Work Order: 1311287
Lab ID: 1311287-19
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R130346</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:45
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 05:45
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:45
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 05:45
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 05:45
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 05:45
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 05:45
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 05:45
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 05:45
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 05:45
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:45
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 05:45
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 05:45
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 05:45
2-Butanone	U		0.64	25	µg/L	1	11/12/13 05:45
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 05:45
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 05:45
Acetone	U		3.0	50	µg/L	1	11/12/13 05:45
Benzene	U		0.14	1.0	µg/L	1	11/12/13 05:45
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 05:45
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 05:45
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 05:45
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 05:45
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 05:45
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 05:45
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 05:45
Chloroform	0.76	J	0.15	1.0	µg/L	1	11/12/13 05:45
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 05:45
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 05:45
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 05:45
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 05:45
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 05:45
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 05:45
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 05:45
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 05:45
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 05:45
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 05:45

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-018
Collection Date: 10/30/13 12:35 PM

Work Order: 1311287
Lab ID: 1311287-19
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 05:45
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 05:45
Styrene	U		0.12	1.0	µg/L	1	11/12/13 05:45
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 05:45
Toluene	U		0.13	1.0	µg/L	1	11/12/13 05:45
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 05:45
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 05:45
Trichloroethene	1.7		0.16	1.0	µg/L	1	11/12/13 05:45
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 05:45
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 05:45
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 05:45
Surr: 1,2-Dichloroethane-d4	101			70-120	%REC	1	11/12/13 05:45
Surr: 4-Bromofluorobenzene	98.2			75-120	%REC	1	11/12/13 05:45
Surr: Dibromofluoromethane	100			85-115	%REC	1	11/12/13 05:45
Surr: Toluene-d8	98.8			85-120	%REC	1	11/12/13 05:45

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-019
Collection Date: 10/30/13 12:12 PM

Work Order: 1311287
Lab ID: 1311287-20
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R130346</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:10
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 06:10
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:10
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 06:10
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 06:10
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:10
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 06:10
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 06:10
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 06:10
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 06:10
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:10
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 06:10
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:10
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:10
2-Butanone	U		0.64	25	µg/L	1	11/12/13 06:10
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 06:10
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 06:10
Acetone	U		3.0	50	µg/L	1	11/12/13 06:10
Benzene	U		0.14	1.0	µg/L	1	11/12/13 06:10
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 06:10
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 06:10
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 06:10
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 06:10
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 06:10
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 06:10
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 06:10
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 06:10
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 06:10
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 06:10
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 06:10
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 06:10
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 06:10
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 06:10
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 06:10
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 06:10
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 06:10
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 06:10

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-019
Collection Date: 10/30/13 12:12 PM

Work Order: 1311287
Lab ID: 1311287-20
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 06:10
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 06:10
Styrene	U		0.12	1.0	µg/L	1	11/12/13 06:10
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 06:10
Toluene	U		0.13	1.0	µg/L	1	11/12/13 06:10
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:10
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 06:10
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 06:10
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 06:10
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 06:10
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 06:10
Surr: 1,2-Dichloroethane-d4	100			70-120	%REC	1	11/12/13 06:10
Surr: 4-Bromofluorobenzene	98.6			75-120	%REC	1	11/12/13 06:10
Surr: Dibromofluoromethane	101			85-115	%REC	1	11/12/13 06:10
Surr: Toluene-d8	98.8			85-120	%REC	1	11/12/13 06:10

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-020
Collection Date: 10/30/13 01:24 PM

Work Order: 1311287
Lab ID: 1311287-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R130346</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:35
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 06:35
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:35
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 06:35
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 06:35
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:35
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 06:35
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 06:35
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 06:35
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 06:35
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:35
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 06:35
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:35
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:35
2-Butanone	U		0.64	25	µg/L	1	11/12/13 06:35
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 06:35
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 06:35
Acetone	U		3.0	50	µg/L	1	11/12/13 06:35
Benzene	U		0.14	1.0	µg/L	1	11/12/13 06:35
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 06:35
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 06:35
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 06:35
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 06:35
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 06:35
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 06:35
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 06:35
Chloroform	0.82	J	0.15	1.0	µg/L	1	11/12/13 06:35
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 06:35
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 06:35
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 06:35
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 06:35
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 06:35
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 06:35
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 06:35
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 06:35
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 06:35
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 06:35

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-020
Collection Date: 10/30/13 01:24 PM

Work Order: 1311287
Lab ID: 1311287-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 06:35
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 06:35
Styrene	U		0.12	1.0	µg/L	1	11/12/13 06:35
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 06:35
Toluene	U		0.13	1.0	µg/L	1	11/12/13 06:35
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:35
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 06:35
Trichloroethene	4.3		0.16	1.0	µg/L	1	11/12/13 06:35
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 06:35
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 06:35
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 06:35
Surr: 1,2-Dichloroethane-d4	101			70-120	%REC	1	11/12/13 06:35
Surr: 4-Bromofluorobenzene	99.5			75-120	%REC	1	11/12/13 06:35
Surr: Dibromofluoromethane	101			85-115	%REC	1	11/12/13 06:35
Surr: Toluene-d8	98.6			85-120	%REC	1	11/12/13 06:35

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-021
Collection Date: 10/30/13 04:11 PM

Work Order: 1311287
Lab ID: 1311287-22
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
BatchID: <u>R130346</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:00
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 07:00
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:00
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 07:00
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 07:00
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:00
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 07:00
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 07:00
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 07:00
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 07:00
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:00
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 07:00
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:00
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:00
2-Butanone	U		0.64	25	µg/L	1	11/12/13 07:00
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 07:00
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 07:00
Acetone	U		3.0	50	µg/L	1	11/12/13 07:00
Benzene	U		0.14	1.0	µg/L	1	11/12/13 07:00
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 07:00
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 07:00
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 07:00
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 07:00
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 07:00
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 07:00
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 07:00
Chloroform	0.88	J	0.15	1.0	µg/L	1	11/12/13 07:00
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 07:00
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 07:00
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 07:00
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 07:00
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 07:00
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 07:00
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 07:00
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 07:00
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 07:00
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 07:00

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-021
Collection Date: 10/30/13 04:11 PM

Work Order: 1311287
Lab ID: 1311287-22
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 07:00
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 07:00
Styrene	U		0.12	1.0	µg/L	1	11/12/13 07:00
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 07:00
Toluene	U		0.13	1.0	µg/L	1	11/12/13 07:00
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:00
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 07:00
Trichloroethene	1.6		0.16	1.0	µg/L	1	11/12/13 07:00
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 07:00
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 07:00
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 07:00
Surr: 1,2-Dichloroethane-d4	101			70-120	%REC	1	11/12/13 07:00
Surr: 4-Bromofluorobenzene	97.4			75-120	%REC	1	11/12/13 07:00
Surr: Dibromofluoromethane	99.9			85-115	%REC	1	11/12/13 07:00
Surr: Toluene-d8	98.1			85-120	%REC	1	11/12/13 07:00

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-022
Collection Date: 10/30/13 04:57 PM

Work Order: 1311287
Lab ID: 1311287-23
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
BatchID: <u>R130254</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 14:39
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/11/13 14:39
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/11/13 14:39
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/11/13 14:39
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/11/13 14:39
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 14:39
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/11/13 14:39
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/11/13 14:39
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/11/13 14:39
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/11/13 14:39
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/11/13 14:39
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/11/13 14:39
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 14:39
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/11/13 14:39
2-Butanone	U		0.64	25	µg/L	1	11/11/13 14:39
2-Hexanone	U		0.19	50	µg/L	1	11/11/13 14:39
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/11/13 14:39
Acetone	U		3.0	50	µg/L	1	11/11/13 14:39
Benzene	U		0.14	1.0	µg/L	1	11/11/13 14:39
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/11/13 14:39
Bromoform	U		0.18	1.0	µg/L	1	11/11/13 14:39
Bromomethane	U		0.38	5.0	µg/L	1	11/11/13 14:39
Carbon disulfide	U		0.26	5.0	µg/L	1	11/11/13 14:39
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/11/13 14:39
Chlorobenzene	U		0.12	1.0	µg/L	1	11/11/13 14:39
Chloroethane	U		0.25	5.0	µg/L	1	11/11/13 14:39
Chloroform	U		0.15	1.0	µg/L	1	11/11/13 14:39
Chloromethane	U		0.29	5.0	µg/L	1	11/11/13 14:39
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/11/13 14:39
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/11/13 14:39
Cyclohexane	U		0.20	1.0	µg/L	1	11/11/13 14:39
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/11/13 14:39
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/11/13 14:39
Ethylbenzene	U		0.12	1.0	µg/L	1	11/11/13 14:39
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/11/13 14:39
Methyl acetate	U		0.76	10	µg/L	1	11/11/13 14:39
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/11/13 14:39

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-022
Collection Date: 10/30/13 04:57 PM

Work Order: 1311287
Lab ID: 1311287-23
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/11/13 14:39
Methylene chloride	U		0.75	5.0	µg/L	1	11/11/13 14:39
Styrene	U		0.12	1.0	µg/L	1	11/11/13 14:39
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/11/13 14:39
Toluene	U		0.13	1.0	µg/L	1	11/11/13 14:39
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/11/13 14:39
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/11/13 14:39
Trichloroethene	1.2		0.16	1.0	µg/L	1	11/11/13 14:39
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/11/13 14:39
Vinyl chloride	U		0.15	1.0	µg/L	1	11/11/13 14:39
Xylenes, Total	U		0.30	3.0	µg/L	1	11/11/13 14:39
Surr: 1,2-Dichloroethane-d4	92.7			70-120	%REC	1	11/11/13 14:39
Surr: 4-Bromofluorobenzene	97.3			75-120	%REC	1	11/11/13 14:39
Surr: Dibromofluoromethane	96.1			85-115	%REC	1	11/11/13 14:39
Surr: Toluene-d8	96.9			85-120	%REC	1	11/11/13 14:39

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-023
Collection Date: 10/30/13 05:35 PM

Work Order: 1311287
Lab ID: 1311287-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R130346</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:26
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 07:26
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:26
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 07:26
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 07:26
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:26
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 07:26
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 07:26
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 07:26
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 07:26
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:26
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 07:26
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:26
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:26
2-Butanone	U		0.64	25	µg/L	1	11/12/13 07:26
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 07:26
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 07:26
Acetone	U		3.0	50	µg/L	1	11/12/13 07:26
Benzene	U		0.14	1.0	µg/L	1	11/12/13 07:26
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 07:26
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 07:26
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 07:26
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 07:26
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 07:26
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 07:26
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 07:26
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 07:26
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 07:26
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 07:26
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 07:26
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 07:26
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 07:26
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 07:26
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 07:26
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 07:26
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 07:26
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 07:26

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103013-MR-023
Collection Date: 10/30/13 05:35 PM

Work Order: 1311287
Lab ID: 1311287-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 07:26
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 07:26
Styrene	U		0.12	1.0	µg/L	1	11/12/13 07:26
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 07:26
Toluene	U		0.13	1.0	µg/L	1	11/12/13 07:26
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:26
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 07:26
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 07:26
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 07:26
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 07:26
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 07:26
Surr: 1,2-Dichloroethane-d4	101			70-120	%REC	1	11/12/13 07:26
Surr: 4-Bromofluorobenzene	97.3			75-120	%REC	1	11/12/13 07:26
Surr: Dibromofluoromethane	100			85-115	%REC	1	11/12/13 07:26
Surr: Toluene-d8	97.8			85-120	%REC	1	11/12/13 07:26

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-025
Collection Date: 10/31/13 10:21 AM

Work Order: 1311287
Lab ID: 1311287-25
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R130346</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:51
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 07:51
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:51
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 07:51
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 07:51
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:51
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 07:51
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 07:51
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 07:51
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 07:51
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:51
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 07:51
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:51
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:51
2-Butanone	U		0.64	25	µg/L	1	11/12/13 07:51
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 07:51
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 07:51
Acetone	U		3.0	50	µg/L	1	11/12/13 07:51
Benzene	U		0.14	1.0	µg/L	1	11/12/13 07:51
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 07:51
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 07:51
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 07:51
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 07:51
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 07:51
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 07:51
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 07:51
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 07:51
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 07:51
cis-1,2-Dichloroethene	1.0		0.10	1.0	µg/L	1	11/12/13 07:51
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 07:51
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 07:51
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 07:51
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 07:51
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 07:51
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 07:51
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 07:51
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 07:51

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-025
Collection Date: 10/31/13 10:21 AM

Work Order: 1311287
Lab ID: 1311287-25
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 07:51
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 07:51
Styrene	U		0.12	1.0	µg/L	1	11/12/13 07:51
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 07:51
Toluene	U		0.13	1.0	µg/L	1	11/12/13 07:51
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:51
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 07:51
Trichloroethene	7.2		0.16	1.0	µg/L	1	11/12/13 07:51
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 07:51
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 07:51
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 07:51
Surr: 1,2-Dichloroethane-d4	102			70-120	%REC	1	11/12/13 07:51
Surr: 4-Bromofluorobenzene	98.8			75-120	%REC	1	11/12/13 07:51
Surr: Dibromofluoromethane	102			85-115	%REC	1	11/12/13 07:51
Surr: Toluene-d8	100			85-120	%REC	1	11/12/13 07:51

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-026
Collection Date: 10/31/13 10:58 AM

Work Order: 1311287
Lab ID: 1311287-26
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 02:24
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 02:24
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 02:24
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 02:24
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 02:24
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 02:24
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 02:24
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 02:24
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 02:24
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 02:24
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 02:24
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 02:24
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 02:24
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 02:24
2-Butanone	U		0.64	25	µg/L	1	11/12/13 02:24
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 02:24
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 02:24
Acetone	U		3.0	50	µg/L	1	11/12/13 02:24
Benzene	U		0.14	1.0	µg/L	1	11/12/13 02:24
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 02:24
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 02:24
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 02:24
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 02:24
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 02:24
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 02:24
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 02:24
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 02:24
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 02:24
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 02:24
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 02:24
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 02:24
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 02:24
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 02:24
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 02:24
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 02:24
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 02:24
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 02:24

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-026
Collection Date: 10/31/13 10:58 AM

Work Order: 1311287
Lab ID: 1311287-26
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 02:24
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 02:24
Styrene	U		0.12	1.0	µg/L	1	11/12/13 02:24
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 02:24
Toluene	U		0.13	1.0	µg/L	1	11/12/13 02:24
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 02:24
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 02:24
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 02:24
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 02:24
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 02:24
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 02:24
Surr: 1,2-Dichloroethane-d4	91.0			70-120	%REC	1	11/12/13 02:24
Surr: 4-Bromofluorobenzene	99.6			75-120	%REC	1	11/12/13 02:24
Surr: Dibromofluoromethane	96.3			85-115	%REC	1	11/12/13 02:24
Surr: Toluene-d8	98.2			85-120	%REC	1	11/12/13 02:24

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-027
Collection Date: 10/31/13 11:03 AM

Work Order: 1311287
Lab ID: 1311287-27
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 02:48
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 02:48
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 02:48
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 02:48
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 02:48
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 02:48
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 02:48
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 02:48
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 02:48
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 02:48
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 02:48
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 02:48
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 02:48
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 02:48
2-Butanone	U		0.64	25	µg/L	1	11/12/13 02:48
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 02:48
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 02:48
Acetone	U		3.0	50	µg/L	1	11/12/13 02:48
Benzene	U		0.14	1.0	µg/L	1	11/12/13 02:48
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 02:48
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 02:48
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 02:48
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 02:48
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 02:48
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 02:48
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 02:48
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 02:48
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 02:48
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 02:48
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 02:48
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 02:48
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 02:48
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 02:48
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 02:48
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 02:48
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 02:48
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 02:48

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-027
Collection Date: 10/31/13 11:03 AM

Work Order: 1311287
Lab ID: 1311287-27
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 02:48
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 02:48
Styrene	U		0.12	1.0	µg/L	1	11/12/13 02:48
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 02:48
Toluene	U		0.13	1.0	µg/L	1	11/12/13 02:48
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 02:48
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 02:48
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 02:48
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 02:48
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 02:48
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 02:48
Surr: 1,2-Dichloroethane-d4	90.0			70-120	%REC	1	11/12/13 02:48
Surr: 4-Bromofluorobenzene	99.2			75-120	%REC	1	11/12/13 02:48
Surr: Dibromofluoromethane	96.5			85-115	%REC	1	11/12/13 02:48
Surr: Toluene-d8	95.1			85-120	%REC	1	11/12/13 02:48

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-028
Collection Date: 10/31/13 12:34 PM

Work Order: 1311287
Lab ID: 1311287-28
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: BG
<u>BatchID: R130346</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:16
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 08:16
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:16
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 08:16
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 08:16
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:16
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 08:16
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 08:16
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 08:16
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 08:16
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:16
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 08:16
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:16
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:16
2-Butanone	U		0.64	25	µg/L	1	11/12/13 08:16
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 08:16
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 08:16
Acetone	U		3.0	50	µg/L	1	11/12/13 08:16
Benzene	U		0.14	1.0	µg/L	1	11/12/13 08:16
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 08:16
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 08:16
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 08:16
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 08:16
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 08:16
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 08:16
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 08:16
Chloroform	1.3		0.15	1.0	µg/L	1	11/12/13 08:16
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 08:16
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 08:16
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 08:16
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 08:16
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 08:16
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 08:16
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 08:16
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 08:16
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 08:16
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 08:16

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-028
Collection Date: 10/31/13 12:34 PM

Work Order: 1311287
Lab ID: 1311287-28
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 08:16
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 08:16
Styrene	U		0.12	1.0	µg/L	1	11/12/13 08:16
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 08:16
Toluene	U		0.13	1.0	µg/L	1	11/12/13 08:16
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:16
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 08:16
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 08:16
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 08:16
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 08:16
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 08:16
Surr: 1,2-Dichloroethane-d4	99.7			70-120	%REC	1	11/12/13 08:16
Surr: 4-Bromofluorobenzene	98.3			75-120	%REC	1	11/12/13 08:16
Surr: Dibromofluoromethane	100			85-115	%REC	1	11/12/13 08:16
Surr: Toluene-d8	99.5			85-120	%REC	1	11/12/13 08:16

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-029
Collection Date: 10/31/13 01:17 PM

Work Order: 1311287
Lab ID: 1311287-29
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:13
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 03:13
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:13
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 03:13
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 03:13
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 03:13
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 03:13
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 03:13
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 03:13
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 03:13
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:13
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 03:13
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 03:13
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 03:13
2-Butanone	U		0.64	25	µg/L	1	11/12/13 03:13
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 03:13
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 03:13
Acetone	U		3.0	50	µg/L	1	11/12/13 03:13
Benzene	U		0.14	1.0	µg/L	1	11/12/13 03:13
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 03:13
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 03:13
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 03:13
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 03:13
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 03:13
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 03:13
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 03:13
Chloroform	5.5		0.15	1.0	µg/L	1	11/12/13 03:13
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 03:13
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 03:13
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 03:13
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 03:13
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 03:13
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 03:13
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 03:13
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 03:13
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 03:13
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 03:13

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-029
Collection Date: 10/31/13 01:17 PM

Work Order: 1311287
Lab ID: 1311287-29
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 03:13
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 03:13
Styrene	U		0.12	1.0	µg/L	1	11/12/13 03:13
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 03:13
Toluene	U		0.13	1.0	µg/L	1	11/12/13 03:13
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 03:13
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 03:13
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 03:13
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 03:13
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 03:13
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 03:13
Surr: 1,2-Dichloroethane-d4	91.4			70-120	%REC	1	11/12/13 03:13
Surr: 4-Bromofluorobenzene	98.6			75-120	%REC	1	11/12/13 03:13
Surr: Dibromofluoromethane	97.2			85-115	%REC	1	11/12/13 03:13
Surr: Toluene-d8	96.2			85-120	%REC	1	11/12/13 03:13

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-030
Collection Date: 10/31/13 03:43 PM

Work Order: 1311287
Lab ID: 1311287-30
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:37
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 03:37
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:37
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 03:37
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 03:37
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 03:37
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 03:37
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 03:37
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 03:37
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 03:37
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:37
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 03:37
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 03:37
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 03:37
2-Butanone	U		0.64	25	µg/L	1	11/12/13 03:37
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 03:37
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 03:37
Acetone	U		3.0	50	µg/L	1	11/12/13 03:37
Benzene	U		0.14	1.0	µg/L	1	11/12/13 03:37
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 03:37
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 03:37
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 03:37
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 03:37
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 03:37
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 03:37
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 03:37
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 03:37
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 03:37
cis-1,2-Dichloroethene	2.2		0.10	1.0	µg/L	1	11/12/13 03:37
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 03:37
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 03:37
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 03:37
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 03:37
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 03:37
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 03:37
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 03:37
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 03:37

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-030
Collection Date: 10/31/13 03:43 PM

Work Order: 1311287
Lab ID: 1311287-30
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 03:37
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 03:37
Styrene	U		0.12	1.0	µg/L	1	11/12/13 03:37
Toluene	U		0.13	1.0	µg/L	1	11/12/13 03:37
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 03:37
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 03:37
Trichloroethene	1.7		0.16	1.0	µg/L	1	11/12/13 03:37
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 03:37
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 03:37
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 03:37
Surr: 1,2-Dichloroethane-d4	91.8			70-120	%REC	1	11/12/13 03:37
Surr: 4-Bromofluorobenzene	97.3			75-120	%REC	1	11/12/13 03:37
Surr: Dibromofluoromethane	97.0			85-115	%REC	1	11/12/13 03:37
Surr: Toluene-d8	96.6			85-120	%REC	1	11/12/13 03:37
BatchID: R130368							
Tetrachloroethene	320		0.49	5.0	µg/L	5	11/12/13 22:46
Surr: 1,2-Dichloroethane-d4	102			70-120	%REC	5	11/12/13 22:46
Surr: 4-Bromofluorobenzene	98.9			75-120	%REC	5	11/12/13 22:46
Surr: Dibromofluoromethane	101			85-115	%REC	5	11/12/13 22:46
Surr: Toluene-d8	99.6			85-120	%REC	5	11/12/13 22:46

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-031
Collection Date: 10/31/13 04:21 PM

Work Order: 1311287
Lab ID: 1311287-31
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:01
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 04:01
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:01
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 04:01
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 04:01
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 04:01
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 04:01
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 04:01
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 04:01
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 04:01
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:01
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 04:01
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 04:01
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 04:01
2-Butanone	U		0.64	25	µg/L	1	11/12/13 04:01
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 04:01
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 04:01
Acetone	U		3.0	50	µg/L	1	11/12/13 04:01
Benzene	U		0.14	1.0	µg/L	1	11/12/13 04:01
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 04:01
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 04:01
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 04:01
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 04:01
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 04:01
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 04:01
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 04:01
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 04:01
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 04:01
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 04:01
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 04:01
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 04:01
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 04:01
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 04:01
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 04:01
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 04:01
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 04:01
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 04:01

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-031
Collection Date: 10/31/13 04:21 PM

Work Order: 1311287
Lab ID: 1311287-31
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 04:01
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 04:01
Styrene	U		0.12	1.0	µg/L	1	11/12/13 04:01
Toluene	U		0.13	1.0	µg/L	1	11/12/13 04:01
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 04:01
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 04:01
Trichloroethene	2.2		0.16	1.0	µg/L	1	11/12/13 04:01
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 04:01
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 04:01
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 04:01
Surr: 1,2-Dichloroethane-d4	89.7			70-120	%REC	1	11/12/13 04:01
Surr: 4-Bromofluorobenzene	98.1			75-120	%REC	1	11/12/13 04:01
Surr: Dibromofluoromethane	97.8			85-115	%REC	1	11/12/13 04:01
Surr: Toluene-d8	95.5			85-120	%REC	1	11/12/13 04:01
BatchID: R130377							
Tetrachloroethene	330		0.98	10	µg/L	10	11/12/13 19:15
Surr: 1,2-Dichloroethane-d4	94.4			70-120	%REC	10	11/12/13 19:15
Surr: 4-Bromofluorobenzene	95.0			75-120	%REC	10	11/12/13 19:15
Surr: Dibromofluoromethane	91.7			85-115	%REC	10	11/12/13 19:15
Surr: Toluene-d8	94.3			85-120	%REC	10	11/12/13 19:15

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-032
Collection Date: 10/31/13 05:24 PM

Work Order: 1311287
Lab ID: 1311287-32
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
<u>BatchID: R130361</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 18:42
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 18:42
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 18:42
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 18:42
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 18:42
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 18:42
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 18:42
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 18:42
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 18:42
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 18:42
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 18:42
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 18:42
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 18:42
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 18:42
2-Butanone	U		0.64	25	µg/L	1	11/12/13 18:42
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 18:42
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 18:42
Acetone	U		3.0	50	µg/L	1	11/12/13 18:42
Benzene	U		0.14	1.0	µg/L	1	11/12/13 18:42
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 18:42
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 18:42
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 18:42
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 18:42
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 18:42
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 18:42
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 18:42
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 18:42
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 18:42
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 18:42
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 18:42
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 18:42
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 18:42
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 18:42
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 18:42
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 18:42
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 18:42
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 18:42

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-032
Collection Date: 10/31/13 05:24 PM

Work Order: 1311287
Lab ID: 1311287-32
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 18:42
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 18:42
Styrene	U		0.12	1.0	µg/L	1	11/12/13 18:42
Tetrachloroethene	3.4		0.098	1.0	µg/L	1	11/12/13 18:42
Toluene	U		0.13	1.0	µg/L	1	11/12/13 18:42
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 18:42
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 18:42
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 18:42
Trichlorofluoromethane	2.4		0.22	1.0	µg/L	1	11/12/13 18:42
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 18:42
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 18:42
Surr: 1,2-Dichloroethane-d4	100			70-120	%REC	1	11/12/13 18:42
Surr: 4-Bromofluorobenzene	92.6			75-120	%REC	1	11/12/13 18:42
Surr: Dibromofluoromethane	102			85-115	%REC	1	11/12/13 18:42
Surr: Toluene-d8	96.0			85-120	%REC	1	11/12/13 18:42

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-033
Collection Date: 10/31/13 05:57 PM

Work Order: 1311287
Lab ID: 1311287-33
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:49
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 04:49
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:49
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 04:49
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 04:49
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 04:49
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 04:49
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 04:49
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 04:49
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 04:49
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:49
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 04:49
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 04:49
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 04:49
2-Butanone	U		0.64	25	µg/L	1	11/12/13 04:49
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 04:49
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 04:49
Acetone	U		3.0	50	µg/L	1	11/12/13 04:49
Benzene	U		0.14	1.0	µg/L	1	11/12/13 04:49
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 04:49
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 04:49
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 04:49
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 04:49
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 04:49
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 04:49
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 04:49
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 04:49
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 04:49
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 04:49
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 04:49
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 04:49
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 04:49
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 04:49
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 04:49
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 04:49
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 04:49
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 04:49

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-103113-MR-033
Collection Date: 10/31/13 05:57 PM

Work Order: 1311287
Lab ID: 1311287-33
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 04:49
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 04:49
Styrene	U		0.12	1.0	µg/L	1	11/12/13 04:49
Tetrachloroethene	6.0		0.098	1.0	µg/L	1	11/12/13 04:49
Toluene	U		0.13	1.0	µg/L	1	11/12/13 04:49
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 04:49
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 04:49
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 04:49
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 04:49
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 04:49
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 04:49
Surr: 1,2-Dichloroethane-d4	93.6			70-120	%REC	1	11/12/13 04:49
Surr: 4-Bromofluorobenzene	99.1			75-120	%REC	1	11/12/13 04:49
Surr: Dibromofluoromethane	96.1			85-115	%REC	1	11/12/13 04:49
Surr: Toluene-d8	97.4			85-120	%REC	1	11/12/13 04:49

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-034
Collection Date: 11/01/13 10:40 AM

Work Order: 1311287
Lab ID: 1311287-34
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7470			Prep: SW7470 / 11/7/13	Analyst: LR
BatchID: <u>53079</u>							
Mercury	U		0.00010	0.00020	mg/L	1	11/08/13 12:19
METALS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/10/13	Analyst: RH
BatchID: <u>53157</u>							
Antimony	0.00030	J	0.000036	0.0050	mg/L	1	11/13/13 19:05
Arsenic	U		0.00058	0.0050	mg/L	1	11/13/13 19:05
Barium	0.084		0.000063	0.0050	mg/L	1	11/13/13 19:05
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 19:05
Cadmium	0.00036	J	0.000045	0.0020	mg/L	1	11/14/13 15:41
Chromium	U		0.00027	0.0050	mg/L	1	11/13/13 19:05
Cobalt	0.0010	J	0.000041	0.0050	mg/L	1	11/13/13 19:05
Copper	0.0045	J	0.00053	0.0050	mg/L	1	11/14/13 15:41
Lead	0.00033	J	0.000051	0.0050	mg/L	1	11/13/13 19:05
Manganese	0.052		0.000054	0.0050	mg/L	1	11/13/13 19:05
Molybdenum	0.0082		0.000088	0.0050	mg/L	1	11/13/13 19:05
Nickel	0.0055		0.00025	0.0050	mg/L	1	11/13/13 19:05
Selenium	0.0023	J	0.00064	0.0050	mg/L	1	11/13/13 19:05
Silver	U		0.000042	0.0050	mg/L	1	11/14/13 15:41
Thallium	U		0.000062	0.0050	mg/L	1	11/13/13 19:05
Vanadium	0.0019	J	0.00016	0.0050	mg/L	1	11/13/13 19:05
Zinc	0.050		0.00048	0.010	mg/L	1	11/13/13 19:05
VOLATILE ORGANIC COMPOUNDS							
			SW8260				Analyst: AK
BatchID: <u>R130330</u>							
1,1,1-Trichloroethane	4.7		0.11	1.0	µg/L	1	11/12/13 05:13
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 05:13
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:13
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 05:13
1,1-Dichloroethane	0.92	J	0.14	1.0	µg/L	1	11/12/13 05:13
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 05:13
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 05:13
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 05:13
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 05:13
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 05:13
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:13
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 05:13
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 05:13
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 05:13

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-034
Collection Date: 11/01/13 10:40 AM

Work Order: 1311287
Lab ID: 1311287-34
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/12/13 05:13
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 05:13
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 05:13
Acetone	U		3.0	50	µg/L	1	11/12/13 05:13
Benzene	U		0.14	1.0	µg/L	1	11/12/13 05:13
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 05:13
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 05:13
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 05:13
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 05:13
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 05:13
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 05:13
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 05:13
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 05:13
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 05:13
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 05:13
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 05:13
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 05:13
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 05:13
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 05:13
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 05:13
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 05:13
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 05:13
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 05:13
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 05:13
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 05:13
Styrene	U		0.12	1.0	µg/L	1	11/12/13 05:13
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 05:13
Toluene	U		0.13	1.0	µg/L	1	11/12/13 05:13
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 05:13
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 05:13
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 05:13
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 05:13
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 05:13
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 05:13
Surr: 1,2-Dichloroethane-d4	93.7			70-120	%REC	1	11/12/13 05:13
Surr: 4-Bromofluorobenzene	97.8			75-120	%REC	1	11/12/13 05:13
Surr: Dibromofluoromethane	97.9			85-115	%REC	1	11/12/13 05:13
Surr: Toluene-d8	96.3			85-120	%REC	1	11/12/13 05:13

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-035
Collection Date: 11/01/13 10:25 AM

Work Order: 1311287
Lab ID: 1311287-35
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
BatchID: <u>R130330</u>							
1,1,1-Trichloroethane	4.0		0.11	1.0	µg/L	1	11/12/13 02:00
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 02:00
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 02:00
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 02:00
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 02:00
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 02:00
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 02:00
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 02:00
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 02:00
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 02:00
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 02:00
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 02:00
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 02:00
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 02:00
2-Butanone	U		0.64	25	µg/L	1	11/12/13 02:00
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 02:00
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 02:00
Acetone	U		3.0	50	µg/L	1	11/12/13 02:00
Benzene	U		0.14	1.0	µg/L	1	11/12/13 02:00
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 02:00
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 02:00
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 02:00
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 02:00
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 02:00
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 02:00
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 02:00
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 02:00
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 02:00
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 02:00
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 02:00
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 02:00
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 02:00
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 02:00
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 02:00
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 02:00
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 02:00
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 02:00

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-035
Collection Date: 11/01/13 10:25 AM

Work Order: 1311287
Lab ID: 1311287-35
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 02:00
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 02:00
Styrene	U		0.12	1.0	µg/L	1	11/12/13 02:00
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 02:00
Toluene	U		0.13	1.0	µg/L	1	11/12/13 02:00
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 02:00
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 02:00
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 02:00
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 02:00
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 02:00
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 02:00
Surr: 1,2-Dichloroethane-d4	89.3			70-120	%REC	1	11/12/13 02:00
Surr: 4-Bromofluorobenzene	98.0			75-120	%REC	1	11/12/13 02:00
Surr: Dibromofluoromethane	96.6			85-115	%REC	1	11/12/13 02:00
Surr: Toluene-d8	96.4			85-120	%REC	1	11/12/13 02:00

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-036
Collection Date: 11/01/13 12:40 PM

Work Order: 1311287
Lab ID: 1311287-36
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:38
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 05:38
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:38
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 05:38
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 05:38
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 05:38
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 05:38
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 05:38
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 05:38
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 05:38
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:38
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 05:38
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 05:38
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 05:38
2-Butanone	U		0.64	25	µg/L	1	11/12/13 05:38
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 05:38
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 05:38
Acetone	U		3.0	50	µg/L	1	11/12/13 05:38
Benzene	U		0.14	1.0	µg/L	1	11/12/13 05:38
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 05:38
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 05:38
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 05:38
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 05:38
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 05:38
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 05:38
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 05:38
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 05:38
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 05:38
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 05:38
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 05:38
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 05:38
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 05:38
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 05:38
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 05:38
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 05:38
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 05:38
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 05:38

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-036
Collection Date: 11/01/13 12:40 PM

Work Order: 1311287
Lab ID: 1311287-36
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 05:38
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 05:38
Styrene	U		0.12	1.0	µg/L	1	11/12/13 05:38
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 05:38
Toluene	U		0.13	1.0	µg/L	1	11/12/13 05:38
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 05:38
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 05:38
Trichloroethene	1.8		0.16	1.0	µg/L	1	11/12/13 05:38
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 05:38
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 05:38
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 05:38
Surr: 1,2-Dichloroethane-d4	93.2			70-120	%REC	1	11/12/13 05:38
Surr: 4-Bromofluorobenzene	99.4			75-120	%REC	1	11/12/13 05:38
Surr: Dibromofluoromethane	94.7			85-115	%REC	1	11/12/13 05:38
Surr: Toluene-d8	97.4			85-120	%REC	1	11/12/13 05:38

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-037
Collection Date: 11/01/13 01:45 PM

Work Order: 1311287
Lab ID: 1311287-37
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
<u>BatchID: R130361</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 19:07
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 19:07
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 19:07
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 19:07
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 19:07
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 19:07
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 19:07
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 19:07
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 19:07
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 19:07
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 19:07
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 19:07
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 19:07
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 19:07
2-Butanone	U		0.64	25	µg/L	1	11/12/13 19:07
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 19:07
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 19:07
Acetone	U		3.0	50	µg/L	1	11/12/13 19:07
Benzene	U		0.14	1.0	µg/L	1	11/12/13 19:07
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 19:07
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 19:07
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 19:07
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 19:07
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 19:07
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 19:07
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 19:07
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 19:07
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 19:07
cis-1,2-Dichloroethene	2.2		0.10	1.0	µg/L	1	11/12/13 19:07
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 19:07
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 19:07
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 19:07
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 19:07
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 19:07
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 19:07
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 19:07
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 19:07

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-037
Collection Date: 11/01/13 01:45 PM

Work Order: 1311287
Lab ID: 1311287-37
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 19:07
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 19:07
Styrene	U		0.12	1.0	µg/L	1	11/12/13 19:07
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 19:07
Toluene	U		0.13	1.0	µg/L	1	11/12/13 19:07
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 19:07
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 19:07
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 19:07
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 19:07
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 19:07
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 19:07
Surr: 1,2-Dichloroethane-d4	99.8			70-120	%REC	1	11/12/13 19:07
Surr: 4-Bromofluorobenzene	93.1			75-120	%REC	1	11/12/13 19:07
Surr: Dibromofluoromethane	102			85-115	%REC	1	11/12/13 19:07
Surr: Toluene-d8	97.4			85-120	%REC	1	11/12/13 19:07

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-038
Collection Date: 11/01/13 02:55 PM

Work Order: 1311287
Lab ID: 1311287-38
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:26
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 06:26
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:26
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 06:26
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 06:26
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:26
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 06:26
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 06:26
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 06:26
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 06:26
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:26
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 06:26
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:26
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:26
2-Butanone	U		0.64	25	µg/L	1	11/12/13 06:26
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 06:26
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 06:26
Acetone	U		3.0	50	µg/L	1	11/12/13 06:26
Benzene	U		0.14	1.0	µg/L	1	11/12/13 06:26
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 06:26
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 06:26
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 06:26
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 06:26
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 06:26
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 06:26
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 06:26
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 06:26
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 06:26
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 06:26
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 06:26
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 06:26
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 06:26
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 06:26
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 06:26
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 06:26
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 06:26
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 06:26

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-038
Collection Date: 11/01/13 02:55 PM

Work Order: 1311287
Lab ID: 1311287-38
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 06:26
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 06:26
Styrene	U		0.12	1.0	µg/L	1	11/12/13 06:26
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 06:26
Toluene	U		0.13	1.0	µg/L	1	11/12/13 06:26
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:26
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 06:26
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 06:26
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 06:26
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 06:26
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 06:26
Surr: 1,2-Dichloroethane-d4	93.6			70-120	%REC	1	11/12/13 06:26
Surr: 4-Bromofluorobenzene	97.2			75-120	%REC	1	11/12/13 06:26
Surr: Dibromofluoromethane	98.8			85-115	%REC	1	11/12/13 06:26
Surr: Toluene-d8	96.2			85-120	%REC	1	11/12/13 06:26

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-039
Collection Date: 11/01/13 04:20 PM

Work Order: 1311287
Lab ID: 1311287-39
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:50
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 06:50
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:50
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 06:50
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 06:50
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:50
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 06:50
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 06:50
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 06:50
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 06:50
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:50
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 06:50
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:50
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:50
2-Butanone	U		0.64	25	µg/L	1	11/12/13 06:50
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 06:50
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 06:50
Acetone	U		3.0	50	µg/L	1	11/12/13 06:50
Benzene	U		0.14	1.0	µg/L	1	11/12/13 06:50
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 06:50
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 06:50
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 06:50
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 06:50
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 06:50
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 06:50
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 06:50
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 06:50
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 06:50
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 06:50
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 06:50
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 06:50
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 06:50
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 06:50
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 06:50
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 06:50
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 06:50
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 06:50

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-039
Collection Date: 11/01/13 04:20 PM

Work Order: 1311287
Lab ID: 1311287-39
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 06:50
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 06:50
Styrene	U		0.12	1.0	µg/L	1	11/12/13 06:50
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 06:50
Toluene	U		0.13	1.0	µg/L	1	11/12/13 06:50
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:50
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 06:50
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 06:50
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 06:50
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 06:50
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 06:50
Surr: 1,2-Dichloroethane-d4	90.0			70-120	%REC	1	11/12/13 06:50
Surr: 4-Bromofluorobenzene	98.2			75-120	%REC	1	11/12/13 06:50
Surr: Dibromofluoromethane	96.2			85-115	%REC	1	11/12/13 06:50
Surr: Toluene-d8	96.2			85-120	%REC	1	11/12/13 06:50

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-040
Collection Date: 11/01/13 04:30 PM

Work Order: 1311287
Lab ID: 1311287-40
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:14
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 07:14
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:14
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 07:14
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 07:14
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:14
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 07:14
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 07:14
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 07:14
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 07:14
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:14
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 07:14
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:14
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:14
2-Butanone	U		0.64	25	µg/L	1	11/12/13 07:14
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 07:14
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 07:14
Acetone	U		3.0	50	µg/L	1	11/12/13 07:14
Benzene	U		0.14	1.0	µg/L	1	11/12/13 07:14
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 07:14
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 07:14
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 07:14
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 07:14
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 07:14
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 07:14
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 07:14
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 07:14
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 07:14
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 07:14
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 07:14
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 07:14
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 07:14
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 07:14
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 07:14
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 07:14
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 07:14
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 07:14

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110113-EB-040
Collection Date: 11/01/13 04:30 PM

Work Order: 1311287
Lab ID: 1311287-40
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 07:14
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 07:14
Styrene	U		0.12	1.0	µg/L	1	11/12/13 07:14
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 07:14
Toluene	U		0.13	1.0	µg/L	1	11/12/13 07:14
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:14
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 07:14
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 07:14
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 07:14
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 07:14
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 07:14
Surr: 1,2-Dichloroethane-d4	90.2			70-120	%REC	1	11/12/13 07:14
Surr: 4-Bromofluorobenzene	99.4			75-120	%REC	1	11/12/13 07:14
Surr: Dibromofluoromethane	97.1			85-115	%REC	1	11/12/13 07:14
Surr: Toluene-d8	97.2			85-120	%REC	1	11/12/13 07:14

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-041
Collection Date: 11/04/13 11:47 AM

Work Order: 1311287
Lab ID: 1311287-41
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:39
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 07:39
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:39
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 07:39
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 07:39
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:39
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 07:39
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 07:39
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 07:39
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 07:39
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:39
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 07:39
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:39
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:39
2-Butanone	U		0.64	25	µg/L	1	11/12/13 07:39
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 07:39
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 07:39
Acetone	U		3.0	50	µg/L	1	11/12/13 07:39
Benzene	U		0.14	1.0	µg/L	1	11/12/13 07:39
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 07:39
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 07:39
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 07:39
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 07:39
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 07:39
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 07:39
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 07:39
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 07:39
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 07:39
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 07:39
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 07:39
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 07:39
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 07:39
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 07:39
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 07:39
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 07:39
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 07:39
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 07:39

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-041
Collection Date: 11/04/13 11:47 AM

Work Order: 1311287
Lab ID: 1311287-41
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 07:39
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 07:39
Styrene	U		0.12	1.0	µg/L	1	11/12/13 07:39
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 07:39
Toluene	U		0.13	1.0	µg/L	1	11/12/13 07:39
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:39
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 07:39
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 07:39
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 07:39
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 07:39
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 07:39
Surr: 1,2-Dichloroethane-d4	93.4			70-120	%REC	1	11/12/13 07:39
Surr: 4-Bromofluorobenzene	97.6			75-120	%REC	1	11/12/13 07:39
Surr: Dibromofluoromethane	98.2			85-115	%REC	1	11/12/13 07:39
Surr: Toluene-d8	97.2			85-120	%REC	1	11/12/13 07:39

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-042
Collection Date: 11/04/13 12:21 PM

Work Order: 1311287
Lab ID: 1311287-42
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7470			Prep: SW7470 / 11/7/13	Analyst: LR
BatchID: <u>53079</u>							
Mercury	U		0.00010	0.00020	mg/L	1	11/08/13 12:27
METALS BY ICP-MS			SW6020A			Prep: SW3005A / 11/10/13	Analyst: RH
BatchID: <u>53157</u>							
Antimony	0.00015	J	0.000036	0.0050	mg/L	1	11/13/13 19:11
Arsenic	U		0.00058	0.0050	mg/L	1	11/13/13 19:11
Barium	0.037		0.000063	0.0050	mg/L	1	11/13/13 19:11
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 19:11
Cadmium	0.00027	J	0.000045	0.0020	mg/L	1	11/14/13 15:47
Chromium	0.0010	J	0.00027	0.0050	mg/L	1	11/13/13 19:11
Cobalt	0.00097	J	0.000041	0.0050	mg/L	1	11/13/13 19:11
Copper	0.0018	J	0.00053	0.0050	mg/L	1	11/14/13 15:47
Lead	0.00021	J	0.000051	0.0050	mg/L	1	11/13/13 19:11
Manganese	0.029		0.000054	0.0050	mg/L	1	11/13/13 19:11
Molybdenum	0.0034	J	0.000088	0.0050	mg/L	1	11/13/13 19:11
Nickel	0.0028	J	0.00025	0.0050	mg/L	1	11/13/13 19:11
Selenium	0.0014	J	0.00064	0.0050	mg/L	1	11/13/13 19:11
Silver	U		0.000042	0.0050	mg/L	1	11/14/13 15:47
Thallium	U		0.000062	0.0050	mg/L	1	11/13/13 19:11
Vanadium	U		0.00016	0.0050	mg/L	1	11/13/13 19:11
Zinc	0.0021	J	0.00048	0.010	mg/L	1	11/13/13 19:11
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
BatchID: <u>R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:03
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 08:03
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:03
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 08:03
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 08:03
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:03
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 08:03
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 08:03
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 08:03
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 08:03
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:03
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 08:03
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:03
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:03

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-042
Collection Date: 11/04/13 12:21 PM

Work Order: 1311287
Lab ID: 1311287-42
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/12/13 08:03
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 08:03
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 08:03
Acetone	U		3.0	50	µg/L	1	11/12/13 08:03
Benzene	U		0.14	1.0	µg/L	1	11/12/13 08:03
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 08:03
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 08:03
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 08:03
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 08:03
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 08:03
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 08:03
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 08:03
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 08:03
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 08:03
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 08:03
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 08:03
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 08:03
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 08:03
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 08:03
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 08:03
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 08:03
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 08:03
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 08:03
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 08:03
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 08:03
Styrene	U		0.12	1.0	µg/L	1	11/12/13 08:03
Tetrachloroethene	6.8		0.098	1.0	µg/L	1	11/12/13 08:03
Toluene	U		0.13	1.0	µg/L	1	11/12/13 08:03
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:03
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 08:03
Trichloroethene	1.4		0.16	1.0	µg/L	1	11/12/13 08:03
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 08:03
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 08:03
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 08:03
Surr: 1,2-Dichloroethane-d4	90.8			70-120	%REC	1	11/12/13 08:03
Surr: 4-Bromofluorobenzene	100			75-120	%REC	1	11/12/13 08:03
Surr: Dibromofluoromethane	95.0			85-115	%REC	1	11/12/13 08:03
Surr: Toluene-d8	96.6			85-120	%REC	1	11/12/13 08:03

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-043
Collection Date: 11/04/13 01:37 PM

Work Order: 1311287
Lab ID: 1311287-43
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7470			Prep: SW7470 / 11/7/13	Analyst: LR
<u>BatchID:</u> 53079							
Mercury	U		0.00010	0.00020	mg/L	1	11/08/13 12:29
METALS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/10/13	Analyst: RH
<u>BatchID:</u> 53157							
Antimony	0.00023	J	0.000036	0.0050	mg/L	1	11/13/13 19:16
Arsenic	0.00074	J	0.00058	0.0050	mg/L	1	11/13/13 19:16
Barium	0.039		0.000063	0.0050	mg/L	1	11/13/13 19:16
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 19:16
Cadmium	0.00043	J	0.000045	0.0020	mg/L	1	11/14/13 15:52
Chromium	U		0.00027	0.0050	mg/L	1	11/13/13 19:16
Cobalt	0.0048	J	0.000041	0.0050	mg/L	1	11/13/13 19:16
Copper	0.0032	J	0.00053	0.0050	mg/L	1	11/14/13 15:52
Lead	0.00018	J	0.000051	0.0050	mg/L	1	11/13/13 19:16
Manganese	0.36		0.000054	0.0050	mg/L	1	11/13/13 19:16
Molybdenum	0.0086		0.000088	0.0050	mg/L	1	11/13/13 19:16
Nickel	0.0076		0.00025	0.0050	mg/L	1	11/13/13 19:16
Selenium	0.00094	J	0.00064	0.0050	mg/L	1	11/13/13 19:16
Silver	U		0.000042	0.0050	mg/L	1	11/14/13 15:52
Thallium	U		0.000062	0.0050	mg/L	1	11/13/13 19:16
Vanadium	U		0.00016	0.0050	mg/L	1	11/13/13 19:16
Zinc	0.0012	J	0.00048	0.010	mg/L	1	11/13/13 19:16
VOLATILE ORGANIC COMPOUNDS							
			SW8260				Analyst: AK
<u>BatchID:</u> R130330							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:27
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 08:27
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:27
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 08:27
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 08:27
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:27
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 08:27
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 08:27
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 08:27
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 08:27
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:27
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 08:27
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:27
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:27

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-043
Collection Date: 11/04/13 01:37 PM

Work Order: 1311287
Lab ID: 1311287-43
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/12/13 08:27
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 08:27
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 08:27
Acetone	U		3.0	50	µg/L	1	11/12/13 08:27
Benzene	U		0.14	1.0	µg/L	1	11/12/13 08:27
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 08:27
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 08:27
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 08:27
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 08:27
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 08:27
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 08:27
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 08:27
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 08:27
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 08:27
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 08:27
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 08:27
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 08:27
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 08:27
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 08:27
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 08:27
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 08:27
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 08:27
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 08:27
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 08:27
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 08:27
Styrene	U		0.12	1.0	µg/L	1	11/12/13 08:27
Tetrachloroethene	2.3		0.098	1.0	µg/L	1	11/12/13 08:27
Toluene	U		0.13	1.0	µg/L	1	11/12/13 08:27
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:27
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 08:27
Trichloroethene	1.7		0.16	1.0	µg/L	1	11/12/13 08:27
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 08:27
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 08:27
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 08:27
Surr: 1,2-Dichloroethane-d4	90.6			70-120	%REC	1	11/12/13 08:27
Surr: 4-Bromofluorobenzene	100			75-120	%REC	1	11/12/13 08:27
Surr: Dibromofluoromethane	97.6			85-115	%REC	1	11/12/13 08:27
Surr: Toluene-d8	95.6			85-120	%REC	1	11/12/13 08:27

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-044
Collection Date: 11/04/13 02:10 PM

Work Order: 1311287
Lab ID: 1311287-44
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:51
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 08:51
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:51
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 08:51
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 08:51
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:51
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 08:51
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 08:51
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 08:51
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 08:51
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:51
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 08:51
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:51
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:51
2-Butanone	U		0.64	25	µg/L	1	11/12/13 08:51
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 08:51
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 08:51
Acetone	U		3.0	50	µg/L	1	11/12/13 08:51
Benzene	U		0.14	1.0	µg/L	1	11/12/13 08:51
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 08:51
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 08:51
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 08:51
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 08:51
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 08:51
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 08:51
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 08:51
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 08:51
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 08:51
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 08:51
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 08:51
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 08:51
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 08:51
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 08:51
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 08:51
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 08:51
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 08:51
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 08:51

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-044
Collection Date: 11/04/13 02:10 PM

Work Order: 1311287
Lab ID: 1311287-44
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 08:51
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 08:51
Styrene	U		0.12	1.0	µg/L	1	11/12/13 08:51
Tetrachloroethene	2.5		0.098	1.0	µg/L	1	11/12/13 08:51
Toluene	U		0.13	1.0	µg/L	1	11/12/13 08:51
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:51
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 08:51
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 08:51
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 08:51
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 08:51
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 08:51
Surr: 1,2-Dichloroethane-d4	93.0			70-120	%REC	1	11/12/13 08:51
Surr: 4-Bromofluorobenzene	99.4			75-120	%REC	1	11/12/13 08:51
Surr: Dibromofluoromethane	96.0			85-115	%REC	1	11/12/13 08:51
Surr: Toluene-d8	97.0			85-120	%REC	1	11/12/13 08:51

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-045
Collection Date: 11/04/13 03:13 PM

Work Order: 1311287
Lab ID: 1311287-45
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 09:16
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 09:16
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 09:16
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 09:16
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 09:16
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 09:16
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 09:16
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 09:16
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 09:16
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 09:16
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 09:16
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 09:16
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 09:16
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 09:16
2-Butanone	U		0.64	25	µg/L	1	11/12/13 09:16
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 09:16
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 09:16
Acetone	U		3.0	50	µg/L	1	11/12/13 09:16
Benzene	U		0.14	1.0	µg/L	1	11/12/13 09:16
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 09:16
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 09:16
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 09:16
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 09:16
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 09:16
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 09:16
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 09:16
Chloroform	1.1		0.15	1.0	µg/L	1	11/12/13 09:16
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 09:16
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 09:16
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 09:16
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 09:16
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 09:16
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 09:16
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 09:16
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 09:16
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 09:16
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 09:16

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-045
Collection Date: 11/04/13 03:13 PM

Work Order: 1311287
Lab ID: 1311287-45
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 09:16
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 09:16
Styrene	U		0.12	1.0	µg/L	1	11/12/13 09:16
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 09:16
Toluene	U		0.13	1.0	µg/L	1	11/12/13 09:16
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 09:16
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 09:16
Trichloroethene	29		0.16	1.0	µg/L	1	11/12/13 09:16
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 09:16
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 09:16
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 09:16
Surr: 1,2-Dichloroethane-d4	91.6			70-120	%REC	1	11/12/13 09:16
Surr: 4-Bromofluorobenzene	99.2			75-120	%REC	1	11/12/13 09:16
Surr: Dibromofluoromethane	96.6			85-115	%REC	1	11/12/13 09:16
Surr: Toluene-d8	96.9			85-120	%REC	1	11/12/13 09:16

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-046
Collection Date: 11/04/13 03:45 PM

Work Order: 1311287
Lab ID: 1311287-46
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7470			Prep: SW7470 / 11/7/13	Analyst: LR
<u>BatchID: 53079</u>							
Mercury	U		0.00010	0.00020	mg/L	1	11/08/13 12:31
METALS BY ICP-MS			SW6020A			Prep: SW3005A / 11/10/13	Analyst: RH
<u>BatchID: 53157</u>							
Antimony	0.00011	J	0.000036	0.0050	mg/L	1	11/13/13 19:22
Arsenic	U		0.00058	0.0050	mg/L	1	11/13/13 19:22
Barium	0.029		0.000063	0.0050	mg/L	1	11/13/13 19:22
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 19:22
Cadmium	0.00047	J	0.000045	0.0020	mg/L	1	11/14/13 15:58
Chromium	0.0021	J	0.00027	0.0050	mg/L	1	11/13/13 19:22
Cobalt	0.0022	J	0.000041	0.0050	mg/L	1	11/13/13 19:22
Copper	0.0032	J	0.00053	0.0050	mg/L	1	11/14/13 15:58
Lead	0.00051	J	0.000051	0.0050	mg/L	1	11/13/13 19:22
Manganese	0.015		0.000054	0.0050	mg/L	1	11/13/13 19:22
Molybdenum	0.038		0.000088	0.0050	mg/L	1	11/13/13 19:22
Nickel	0.0031	J	0.00025	0.0050	mg/L	1	11/13/13 19:22
Selenium	0.0024	J	0.00064	0.0050	mg/L	1	11/13/13 19:22
Silver	U		0.000042	0.0050	mg/L	1	11/14/13 15:58
Thallium	U		0.000062	0.0050	mg/L	1	11/13/13 19:22
Vanadium	0.0014	J	0.00016	0.0050	mg/L	1	11/13/13 19:22
Zinc	0.0030	J	0.00048	0.010	mg/L	1	11/13/13 19:22
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: AK
<u>BatchID: R130330</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 09:40
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 09:40
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 09:40
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 09:40
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 09:40
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 09:40
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 09:40
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 09:40
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 09:40
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 09:40
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 09:40
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 09:40
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 09:40
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 09:40

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-MR-046
Collection Date: 11/04/13 03:45 PM

Work Order: 1311287
Lab ID: 1311287-46
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/12/13 09:40
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 09:40
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 09:40
Acetone	U		3.0	50	µg/L	1	11/12/13 09:40
Benzene	U		0.14	1.0	µg/L	1	11/12/13 09:40
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 09:40
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 09:40
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 09:40
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 09:40
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 09:40
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 09:40
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 09:40
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 09:40
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 09:40
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 09:40
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 09:40
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 09:40
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 09:40
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 09:40
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 09:40
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 09:40
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 09:40
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 09:40
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 09:40
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 09:40
Styrene	U		0.12	1.0	µg/L	1	11/12/13 09:40
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 09:40
Toluene	U		0.13	1.0	µg/L	1	11/12/13 09:40
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 09:40
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 09:40
Trichloroethene	4.9		0.16	1.0	µg/L	1	11/12/13 09:40
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 09:40
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 09:40
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 09:40
Surr: 1,2-Dichloroethane-d4	91.8			70-120	%REC	1	11/12/13 09:40
Surr: 4-Bromofluorobenzene	99.4			75-120	%REC	1	11/12/13 09:40
Surr: Dibromofluoromethane	96.2			85-115	%REC	1	11/12/13 09:40
Surr: Toluene-d8	95.4			85-120	%REC	1	11/12/13 09:40

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-047
Collection Date: 11/04/13 11:35 AM

Work Order: 1311287
Lab ID: 1311287-47
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7470			Prep: SW7470 / 11/7/13	Analyst: LR
BatchID: <u>53079</u>							
Mercury	U		0.00010	0.00020	mg/L	1	11/08/13 12:33
METALS BY ICP-MS			SW6020A			Prep: SW3005A / 11/10/13	Analyst: RH
BatchID: <u>53157</u>							
Antimony	0.000083	J	0.000036	0.0050	mg/L	1	11/13/13 19:27
Arsenic	U		0.00058	0.0050	mg/L	1	11/13/13 19:27
Barium	0.066		0.000063	0.0050	mg/L	1	11/13/13 19:27
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 19:27
Cadmium	0.00031	J	0.000045	0.0020	mg/L	1	11/14/13 16:04
Chromium	0.00059	J	0.00027	0.0050	mg/L	1	11/13/13 19:27
Cobalt	0.0014	J	0.000041	0.0050	mg/L	1	11/13/13 19:27
Copper	0.0023	J	0.00053	0.0050	mg/L	1	11/14/13 16:04
Lead	0.00058	J	0.000051	0.0050	mg/L	1	11/13/13 19:27
Manganese	0.0023	J	0.000054	0.0050	mg/L	1	11/13/13 19:27
Molybdenum	0.00068	J	0.000088	0.0050	mg/L	1	11/13/13 19:27
Nickel	0.0041	J	0.00025	0.0050	mg/L	1	11/13/13 19:27
Selenium	0.0019	J	0.00064	0.0050	mg/L	1	11/13/13 19:27
Silver	U		0.000042	0.0050	mg/L	1	11/14/13 16:04
Thallium	U		0.000062	0.0050	mg/L	1	11/13/13 19:27
Vanadium	0.00043	J	0.00016	0.0050	mg/L	1	11/13/13 19:27
Zinc	0.14		0.00048	0.010	mg/L	1	11/13/13 19:27
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
BatchID: <u>R130334</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:15
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 03:15
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:15
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 03:15
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 03:15
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 03:15
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 03:15
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 03:15
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 03:15
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 03:15
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:15
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 03:15
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 03:15
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 03:15

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-047
Collection Date: 11/04/13 11:35 AM

Work Order: 1311287
Lab ID: 1311287-47
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/12/13 03:15
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 03:15
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 03:15
Acetone	U		3.0	50	µg/L	1	11/12/13 03:15
Benzene	U		0.14	1.0	µg/L	1	11/12/13 03:15
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 03:15
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 03:15
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 03:15
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 03:15
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 03:15
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 03:15
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 03:15
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 03:15
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 03:15
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 03:15
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 03:15
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 03:15
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 03:15
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 03:15
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 03:15
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 03:15
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 03:15
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 03:15
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 03:15
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 03:15
Styrene	U		0.12	1.0	µg/L	1	11/12/13 03:15
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 03:15
Toluene	U		0.13	1.0	µg/L	1	11/12/13 03:15
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 03:15
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 03:15
Trichloroethene	1.6		0.16	1.0	µg/L	1	11/12/13 03:15
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 03:15
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 03:15
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 03:15
Surr: 1,2-Dichloroethane-d4	94.3			70-120	%REC	1	11/12/13 03:15
Surr: 4-Bromofluorobenzene	95.0			75-120	%REC	1	11/12/13 03:15
Surr: Dibromofluoromethane	92.2			85-115	%REC	1	11/12/13 03:15
Surr: Toluene-d8	94.2			85-120	%REC	1	11/12/13 03:15

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-048
Collection Date: 11/04/13 12:25 PM

Work Order: 1311287
Lab ID: 1311287-48
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
<u>BatchID: R130334</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:39
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 03:39
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:39
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 03:39
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 03:39
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 03:39
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 03:39
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 03:39
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 03:39
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 03:39
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 03:39
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 03:39
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 03:39
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 03:39
2-Butanone	U		0.64	25	µg/L	1	11/12/13 03:39
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 03:39
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 03:39
Acetone	U		3.0	50	µg/L	1	11/12/13 03:39
Benzene	U		0.14	1.0	µg/L	1	11/12/13 03:39
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 03:39
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 03:39
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 03:39
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 03:39
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 03:39
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 03:39
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 03:39
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 03:39
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 03:39
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 03:39
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 03:39
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 03:39
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 03:39
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 03:39
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 03:39
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 03:39
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 03:39
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 03:39

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-048
Collection Date: 11/04/13 12:25 PM

Work Order: 1311287
Lab ID: 1311287-48
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 03:39
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 03:39
Styrene	U		0.12	1.0	µg/L	1	11/12/13 03:39
Tetrachloroethene	1.3		0.098	1.0	µg/L	1	11/12/13 03:39
Toluene	U		0.13	1.0	µg/L	1	11/12/13 03:39
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 03:39
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 03:39
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 03:39
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 03:39
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 03:39
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 03:39
Surr: 1,2-Dichloroethane-d4	95.4			70-120	%REC	1	11/12/13 03:39
Surr: 4-Bromofluorobenzene	97.2			75-120	%REC	1	11/12/13 03:39
Surr: Dibromofluoromethane	91.0			85-115	%REC	1	11/12/13 03:39
Surr: Toluene-d8	94.9			85-120	%REC	1	11/12/13 03:39

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-049
Collection Date: 11/04/13 01:15 PM

Work Order: 1311287
Lab ID: 1311287-49
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
BatchID: <u>R130334</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:04
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 04:04
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:04
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 04:04
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 04:04
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 04:04
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 04:04
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 04:04
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 04:04
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 04:04
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:04
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 04:04
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 04:04
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 04:04
2-Butanone	U		0.64	25	µg/L	1	11/12/13 04:04
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 04:04
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 04:04
Acetone	U		3.0	50	µg/L	1	11/12/13 04:04
Benzene	U		0.14	1.0	µg/L	1	11/12/13 04:04
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 04:04
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 04:04
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 04:04
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 04:04
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 04:04
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 04:04
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 04:04
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 04:04
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 04:04
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 04:04
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 04:04
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 04:04
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 04:04
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 04:04
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 04:04
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 04:04
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 04:04
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 04:04

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-049
Collection Date: 11/04/13 01:15 PM

Work Order: 1311287
Lab ID: 1311287-49
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 04:04
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 04:04
Styrene	U		0.12	1.0	µg/L	1	11/12/13 04:04
Tetrachloroethene	2.7		0.098	1.0	µg/L	1	11/12/13 04:04
Toluene	U		0.13	1.0	µg/L	1	11/12/13 04:04
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 04:04
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 04:04
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 04:04
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 04:04
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 04:04
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 04:04
Surr: 1,2-Dichloroethane-d4	97.7			70-120	%REC	1	11/12/13 04:04
Surr: 4-Bromofluorobenzene	95.4			75-120	%REC	1	11/12/13 04:04
Surr: Dibromofluoromethane	93.4			85-115	%REC	1	11/12/13 04:04
Surr: Toluene-d8	95.4			85-120	%REC	1	11/12/13 04:04

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-050
Collection Date: 11/04/13 02:30 PM

Work Order: 1311287
Lab ID: 1311287-50
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
BatchID: R130334							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:28
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 04:28
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:28
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 04:28
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 04:28
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 04:28
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 04:28
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 04:28
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 04:28
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 04:28
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:28
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 04:28
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 04:28
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 04:28
2-Butanone	U		0.64	25	µg/L	1	11/12/13 04:28
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 04:28
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 04:28
Acetone	U		3.0	50	µg/L	1	11/12/13 04:28
Benzene	U		0.14	1.0	µg/L	1	11/12/13 04:28
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 04:28
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 04:28
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 04:28
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 04:28
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 04:28
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 04:28
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 04:28
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 04:28
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 04:28
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 04:28
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 04:28
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 04:28
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 04:28
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 04:28
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 04:28
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 04:28
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 04:28
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 04:28

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-050
Collection Date: 11/04/13 02:30 PM

Work Order: 1311287
Lab ID: 1311287-50
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 04:28
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 04:28
Styrene	U		0.12	1.0	µg/L	1	11/12/13 04:28
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 04:28
Toluene	U		0.13	1.0	µg/L	1	11/12/13 04:28
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 04:28
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 04:28
Trichloroethene	7.2		0.16	1.0	µg/L	1	11/12/13 04:28
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 04:28
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 04:28
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 04:28
Surr: 1,2-Dichloroethane-d4	96.1			70-120	%REC	1	11/12/13 04:28
Surr: 4-Bromofluorobenzene	96.4			75-120	%REC	1	11/12/13 04:28
Surr: Dibromofluoromethane	91.7			85-115	%REC	1	11/12/13 04:28
Surr: Toluene-d8	95.7			85-120	%REC	1	11/12/13 04:28

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-051
Collection Date: 11/04/13 03:05 PM

Work Order: 1311287
Lab ID: 1311287-51
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7470			Prep: SW7470 / 11/8/13	Analyst: LR
BatchID: <u>53116</u>							
Mercury	U		0.00010	0.00020	mg/L	1	11/11/13 14:56
METALS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/10/13	Analyst: RH
BatchID: <u>53157</u>							
Antimony	0.000076	J	0.000036	0.0050	mg/L	1	11/13/13 19:33
Arsenic	U		0.00058	0.0050	mg/L	1	11/13/13 19:33
Barium	0.065		0.000063	0.0050	mg/L	1	11/13/13 19:33
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 19:33
Cadmium	0.00060	J	0.000045	0.0020	mg/L	1	11/14/13 16:09
Chromium	U		0.00027	0.0050	mg/L	1	11/13/13 19:33
Cobalt	0.011		0.000041	0.0050	mg/L	1	11/13/13 19:33
Copper	0.0064		0.00053	0.0050	mg/L	1	11/14/13 16:09
Lead	0.00035	J	0.000051	0.0050	mg/L	1	11/13/13 19:33
Manganese	0.15		0.000054	0.0050	mg/L	1	11/13/13 19:33
Molybdenum	0.0061		0.000088	0.0050	mg/L	1	11/13/13 19:33
Nickel	0.0097		0.00025	0.0050	mg/L	1	11/13/13 19:33
Selenium	0.0011	J	0.00064	0.0050	mg/L	1	11/13/13 19:33
Silver	U		0.000042	0.0050	mg/L	1	11/14/13 16:09
Thallium	U		0.000062	0.0050	mg/L	1	11/13/13 19:33
Vanadium	0.00037	J	0.00016	0.0050	mg/L	1	11/13/13 19:33
Zinc	0.0038	J	0.00048	0.010	mg/L	1	11/13/13 19:33
VOLATILE ORGANIC COMPOUNDS							
			SW8260				Analyst: RS
BatchID: <u>R130334</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:53
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 04:53
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:53
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 04:53
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 04:53
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 04:53
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 04:53
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 04:53
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 04:53
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 04:53
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 04:53
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 04:53
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 04:53
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 04:53

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-051
Collection Date: 11/04/13 03:05 PM

Work Order: 1311287
Lab ID: 1311287-51
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/12/13 04:53
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 04:53
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 04:53
Acetone	U		3.0	50	µg/L	1	11/12/13 04:53
Benzene	U		0.14	1.0	µg/L	1	11/12/13 04:53
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 04:53
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 04:53
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 04:53
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 04:53
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 04:53
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 04:53
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 04:53
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 04:53
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 04:53
cis-1,2-Dichloroethene	2.2		0.10	1.0	µg/L	1	11/12/13 04:53
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 04:53
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 04:53
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 04:53
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 04:53
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 04:53
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 04:53
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 04:53
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 04:53
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 04:53
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 04:53
Styrene	U		0.12	1.0	µg/L	1	11/12/13 04:53
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 04:53
Toluene	U		0.13	1.0	µg/L	1	11/12/13 04:53
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 04:53
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 04:53
Trichloroethene	5.9		0.16	1.0	µg/L	1	11/12/13 04:53
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 04:53
Vinyl chloride	1.2		0.15	1.0	µg/L	1	11/12/13 04:53
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 04:53
Surr: 1,2-Dichloroethane-d4	96.6			70-120	%REC	1	11/12/13 04:53
Surr: 4-Bromofluorobenzene	98.1			75-120	%REC	1	11/12/13 04:53
Surr: Dibromofluoromethane	94.2			85-115	%REC	1	11/12/13 04:53
Surr: Toluene-d8	95.1			85-120	%REC	1	11/12/13 04:53

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-052
Collection Date: 11/04/13 03:45 PM

Work Order: 1311287
Lab ID: 1311287-52
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7470			Prep: SW7470 / 11/8/13	Analyst: LR
BatchID: <u>53116</u>							
Mercury	U		0.00010	0.00020	mg/L	1	11/11/13 14:58
METALS BY ICP-MS			SW6020A			Prep: SW3005A / 11/10/13	Analyst: RH
BatchID: <u>53157</u>							
Antimony	0.000073	J	0.000036	0.0050	mg/L	1	11/13/13 19:39
Arsenic	U		0.00058	0.0050	mg/L	1	11/13/13 19:39
Barium	0.10		0.000063	0.0050	mg/L	1	11/13/13 19:39
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 19:39
Cadmium	0.00047	J	0.000045	0.0020	mg/L	1	11/14/13 16:15
Chromium	0.0015	J	0.00027	0.0050	mg/L	1	11/13/13 19:39
Cobalt	0.011		0.000041	0.0050	mg/L	1	11/13/13 19:39
Copper	0.0052		0.00053	0.0050	mg/L	1	11/14/13 16:15
Lead	0.00045	J	0.000051	0.0050	mg/L	1	11/13/13 19:39
Manganese	0.25		0.000054	0.0050	mg/L	1	11/13/13 19:39
Molybdenum	0.00058	J	0.000088	0.0050	mg/L	1	11/13/13 19:39
Nickel	0.0095		0.00025	0.0050	mg/L	1	11/13/13 19:39
Selenium	0.0014	J	0.00064	0.0050	mg/L	1	11/13/13 19:39
Silver	U		0.000042	0.0050	mg/L	1	11/14/13 16:15
Thallium	U		0.000062	0.0050	mg/L	1	11/13/13 19:39
Vanadium	0.00022	J	0.00016	0.0050	mg/L	1	11/13/13 19:39
Zinc	0.0046	J	0.00048	0.010	mg/L	1	11/13/13 19:39
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
BatchID: <u>R130334</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:17
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 05:17
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:17
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 05:17
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 05:17
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 05:17
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 05:17
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 05:17
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 05:17
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 05:17
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:17
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 05:17
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 05:17
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 05:17

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-052
Collection Date: 11/04/13 03:45 PM

Work Order: 1311287
Lab ID: 1311287-52
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/12/13 05:17
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 05:17
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 05:17
Acetone	U		3.0	50	µg/L	1	11/12/13 05:17
Benzene	U		0.14	1.0	µg/L	1	11/12/13 05:17
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 05:17
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 05:17
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 05:17
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 05:17
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 05:17
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 05:17
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 05:17
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 05:17
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 05:17
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 05:17
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 05:17
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 05:17
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 05:17
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 05:17
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 05:17
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 05:17
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 05:17
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 05:17
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 05:17
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 05:17
Styrene	U		0.12	1.0	µg/L	1	11/12/13 05:17
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 05:17
Toluene	U		0.13	1.0	µg/L	1	11/12/13 05:17
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 05:17
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 05:17
Trichloroethene	12		0.16	1.0	µg/L	1	11/12/13 05:17
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 05:17
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 05:17
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 05:17
Surr: 1,2-Dichloroethane-d4	95.0			70-120	%REC	1	11/12/13 05:17
Surr: 4-Bromofluorobenzene	97.9			75-120	%REC	1	11/12/13 05:17
Surr: Dibromofluoromethane	91.6			85-115	%REC	1	11/12/13 05:17
Surr: Toluene-d8	94.4			85-120	%REC	1	11/12/13 05:17

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-053
Collection Date: 11/04/13 04:45 PM

Work Order: 1311287
Lab ID: 1311287-53
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
<u>BatchID: R130334</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:42
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 05:42
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:42
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 05:42
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 05:42
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 05:42
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 05:42
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 05:42
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 05:42
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 05:42
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 05:42
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 05:42
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 05:42
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 05:42
2-Butanone	U		0.64	25	µg/L	1	11/12/13 05:42
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 05:42
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 05:42
Acetone	U		3.0	50	µg/L	1	11/12/13 05:42
Benzene	0.26	J	0.14	1.0	µg/L	1	11/12/13 05:42
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 05:42
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 05:42
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 05:42
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 05:42
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 05:42
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 05:42
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 05:42
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 05:42
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 05:42
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 05:42
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 05:42
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 05:42
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 05:42
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 05:42
Ethylbenzene	1.4		0.12	1.0	µg/L	1	11/12/13 05:42
Isopropylbenzene	0.35	J	0.11	5.0	µg/L	1	11/12/13 05:42
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 05:42
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 05:42

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110413-EB-053
Collection Date: 11/04/13 04:45 PM

Work Order: 1311287
Lab ID: 1311287-53
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 05:42
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 05:42
Styrene	U		0.12	1.0	µg/L	1	11/12/13 05:42
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 05:42
Toluene	0.46	J	0.13	1.0	µg/L	1	11/12/13 05:42
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 05:42
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 05:42
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 05:42
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 05:42
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 05:42
Xylenes, Total	1.5	J	0.30	3.0	µg/L	1	11/12/13 05:42
Surr: 1,2-Dichloroethane-d4	93.3			70-120	%REC	1	11/12/13 05:42
Surr: 4-Bromofluorobenzene	97.8			75-120	%REC	1	11/12/13 05:42
Surr: Dibromofluoromethane	90.4			85-115	%REC	1	11/12/13 05:42
Surr: Toluene-d8	95.3			85-120	%REC	1	11/12/13 05:42

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-054
Collection Date: 11/05/13 10:15 AM

Work Order: 1311287
Lab ID: 1311287-54
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3510 / 11/7/13	Analyst: HL	
BatchID: 53070							
1,1'-Biphenyl	0.65	J	0.095	5.0	µg/L	1	11/08/13 13:12
2,4,5-Trichlorophenol	U		0.25	5.0	µg/L	1	11/08/13 13:12
2,4,6-Trichlorophenol	U		0.27	5.0	µg/L	1	11/08/13 13:12
2,4-Dichlorophenol	U		0.22	10	µg/L	1	11/08/13 13:12
2,4-Dimethylphenol	U		1.8	5.0	µg/L	1	11/08/13 13:12
2,4-Dinitrophenol	U		0.67	5.0	µg/L	1	11/08/13 13:12
2,4-Dinitrotoluene	U		0.27	5.0	µg/L	1	11/08/13 13:12
2,6-Dinitrotoluene	U		0.23	5.0	µg/L	1	11/08/13 13:12
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	11/08/13 13:12
2-Chlorophenol	U		0.32	5.0	µg/L	1	11/08/13 13:12
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	11/08/13 13:12
2-Methylphenol	U		0.20	5.0	µg/L	1	11/08/13 13:12
2-Nitroaniline	U		0.34	20	µg/L	1	11/08/13 13:12
2-Nitrophenol	U		0.28	5.0	µg/L	1	11/08/13 13:12
3,3'-Dichlorobenzidine	U		3.9	5.0	µg/L	1	11/08/13 13:12
3-Nitroaniline	U		0.34	20	µg/L	1	11/08/13 13:12
4,6-Dinitro-2-methylphenol	U		1.2	20	µg/L	1	11/08/13 13:12
4-Bromophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/08/13 13:12
4-Chloro-3-methylphenol	U		0.31	5.0	µg/L	1	11/08/13 13:12
4-Chloroaniline	U		0.32	20	µg/L	1	11/08/13 13:12
4-Chlorophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/08/13 13:12
4-Methylphenol	1.3	J	0.20	5.0	µg/L	1	11/08/13 13:12
4-Nitroaniline	U		0.30	20	µg/L	1	11/08/13 13:12
4-Nitrophenol	U		0.51	20	µg/L	1	11/08/13 13:12
Acenaphthene	1.1	J	0.11	5.0	µg/L	1	11/08/13 13:12
Acenaphthylene	U		0.12	5.0	µg/L	1	11/08/13 13:12
Acetophenone	U		0.090	1.0	µg/L	1	11/08/13 13:12
Anthracene	1.6	J	0.72	5.0	µg/L	1	11/08/13 13:12
Atrazine	U		0.13	1.0	µg/L	1	11/08/13 13:12
Benzaldehyde	U		0.46	1.0	µg/L	1	11/08/13 13:12
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	11/08/13 13:12
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	11/08/13 13:12
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	11/08/13 13:12
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	11/08/13 13:12
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	11/08/13 13:12
Bis(2-chloroethoxy)methane	U		0.33	5.0	µg/L	1	11/08/13 13:12
Bis(2-chloroethyl)ether	U		0.34	5.0	µg/L	1	11/08/13 13:12

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-054
Collection Date: 11/05/13 10:15 AM

Work Order: 1311287
Lab ID: 1311287-54
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.32	5.0	µg/L	1	11/08/13 13:12
Bis(2-ethylhexyl)phthalate	U		0.15	5.0	µg/L	1	11/08/13 13:12
Butyl benzyl phthalate	U		0.10	5.0	µg/L	1	11/08/13 13:12
Caprolactam	U		4.7	10	µg/L	1	11/08/13 13:12
Carbazole	U		0.16	10	µg/L	1	11/08/13 13:12
Chrysene	U		0.71	5.0	µg/L	1	11/08/13 13:12
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	11/08/13 13:12
Dibenzofuran	0.85	J	0.28	5.0	µg/L	1	11/08/13 13:12
Diethyl phthalate	U		0.24	20	µg/L	1	11/08/13 13:12
Dimethyl phthalate	U		0.27	20	µg/L	1	11/08/13 13:12
Di-n-butyl phthalate	U		0.14	5.0	µg/L	1	11/08/13 13:12
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	11/08/13 13:12
Fluoranthene	U		0.77	5.0	µg/L	1	11/08/13 13:12
Fluorene	2.7	J	0.10	5.0	µg/L	1	11/08/13 13:12
Hexachlorobenzene	U		0.22	5.0	µg/L	1	11/08/13 13:12
Hexachlorobutadiene	U		0.24	5.0	µg/L	1	11/08/13 13:12
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	11/08/13 13:12
Hexachloroethane	U		0.47	5.0	µg/L	1	11/08/13 13:12
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	11/08/13 13:12
Isophorone	U		0.30	5.0	µg/L	1	11/08/13 13:12
Naphthalene	7.9		0.12	5.0	µg/L	1	11/08/13 13:12
Nitrobenzene	U		0.33	5.0	µg/L	1	11/08/13 13:12
N-Nitrosodi-n-propylamine	U		0.32	5.0	µg/L	1	11/08/13 13:12
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	11/08/13 13:12
Pentachlorophenol	U		0.22	20	µg/L	1	11/08/13 13:12
Phenanthrene	2.1	J	0.86	5.0	µg/L	1	11/08/13 13:12
Phenol	1.2	J	0.32	5.0	µg/L	1	11/08/13 13:12
Pyrene	U		0.65	5.0	µg/L	1	11/08/13 13:12
Surr: 2,4,6-Tribromophenol	119	S		32-115	%REC	1	11/08/13 13:12
Surr: 2-Fluorobiphenyl	58.6			32-100	%REC	1	11/08/13 13:12
Surr: 2-Fluorophenol	38.7			22-59	%REC	1	11/08/13 13:12
Surr: 4-Terphenyl-d14	58.6			23-112	%REC	1	11/08/13 13:12
Surr: Nitrobenzene-d5	69.0			31-93	%REC	1	11/08/13 13:12
Surr: Phenol-d6	26.3			13-36	%REC	1	11/08/13 13:12

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: RS

BatchID: R130334

1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:06
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 06:06
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:06

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-054
Collection Date: 11/05/13 10:15 AM

Work Order: 1311287
Lab ID: 1311287-54
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 06:06
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 06:06
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:06
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 06:06
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 06:06
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 06:06
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 06:06
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:06
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 06:06
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:06
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:06
2-Butanone	3.5	J	0.64	25	µg/L	1	11/12/13 06:06
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 06:06
4-Methyl-2-pentanone	4.3	J	0.20	50	µg/L	1	11/12/13 06:06
Acetone	13	J	3.0	50	µg/L	1	11/12/13 06:06
Benzene	U		0.14	1.0	µg/L	1	11/12/13 06:06
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 06:06
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 06:06
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 06:06
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 06:06
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 06:06
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 06:06
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 06:06
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 06:06
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 06:06
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 06:06
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 06:06
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 06:06
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 06:06
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 06:06
Ethylbenzene	1.9		0.12	1.0	µg/L	1	11/12/13 06:06
Isopropylbenzene	2.8	J	0.11	5.0	µg/L	1	11/12/13 06:06
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 06:06
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 06:06
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 06:06
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 06:06
Styrene	1.3		0.12	1.0	µg/L	1	11/12/13 06:06
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 06:06
Toluene	0.29	J	0.13	1.0	µg/L	1	11/12/13 06:06
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:06

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-054
Collection Date: 11/05/13 10:15 AM

Work Order: 1311287
Lab ID: 1311287-54
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 06:06
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 06:06
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 06:06
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 06:06
Xylenes, Total	1.6	J	0.30	3.0	µg/L	1	11/12/13 06:06
Surr: 1,2-Dichloroethane-d4	94.7			70-120	%REC	1	11/12/13 06:06
Surr: 4-Bromofluorobenzene	100			75-120	%REC	1	11/12/13 06:06
Surr: Dibromofluoromethane	90.3			85-115	%REC	1	11/12/13 06:06
Surr: Toluene-d8	95.6			85-120	%REC	1	11/12/13 06:06

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-055
Collection Date: 11/05/13 10:25 AM

Work Order: 1311287
Lab ID: 1311287-55
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3510 / 11/7/13		Analyst: RM
<u>BatchID: 53069</u>							
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	11/11/13 17:08
2,4,5-Trichlorophenol	U		0.25	5.0	µg/L	1	11/11/13 17:08
2,4,6-Trichlorophenol	U		0.27	5.0	µg/L	1	11/11/13 17:08
2,4-Dichlorophenol	U		0.22	10	µg/L	1	11/11/13 17:08
2,4-Dimethylphenol	U		1.8	5.0	µg/L	1	11/11/13 17:08
2,4-Dinitrophenol	U		0.67	5.0	µg/L	1	11/11/13 17:08
2,4-Dinitrotoluene	U		0.27	5.0	µg/L	1	11/11/13 17:08
2,6-Dinitrotoluene	U		0.23	5.0	µg/L	1	11/11/13 17:08
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	11/11/13 17:08
2-Chlorophenol	U		0.32	5.0	µg/L	1	11/11/13 17:08
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	11/11/13 17:08
2-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 17:08
2-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 17:08
2-Nitrophenol	U		0.28	5.0	µg/L	1	11/11/13 17:08
3,3'-Dichlorobenzidine	U		3.9	5.0	µg/L	1	11/11/13 17:08
3-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 17:08
4,6-Dinitro-2-methylphenol	U		1.2	20	µg/L	1	11/11/13 17:08
4-Bromophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 17:08
4-Chloro-3-methylphenol	U		0.31	5.0	µg/L	1	11/11/13 17:08
4-Chloroaniline	U		0.32	20	µg/L	1	11/11/13 17:08
4-Chlorophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 17:08
4-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 17:08
4-Nitroaniline	U		0.30	20	µg/L	1	11/11/13 17:08
4-Nitrophenol	U		0.51	20	µg/L	1	11/11/13 17:08
Acenaphthene	1.0	J	0.11	5.0	µg/L	1	11/11/13 17:08
Acenaphthylene	U		0.12	5.0	µg/L	1	11/11/13 17:08
Acetophenone	U		0.090	1.0	µg/L	1	11/11/13 17:08
Anthracene	0.83	J	0.72	5.0	µg/L	1	11/11/13 17:08
Atrazine	U		0.13	1.0	µg/L	1	11/11/13 17:08
Benzaldehyde	U		0.46	1.0	µg/L	1	11/11/13 17:08
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	11/11/13 17:08
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	11/11/13 17:08
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	11/11/13 17:08
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	11/11/13 17:08
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	11/11/13 17:08
Bis(2-chloroethoxy)methane	U		0.33	5.0	µg/L	1	11/11/13 17:08
Bis(2-chloroethyl)ether	U		0.34	5.0	µg/L	1	11/11/13 17:08

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-055
Collection Date: 11/05/13 10:25 AM

Work Order: 1311287
Lab ID: 1311287-55
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.32	5.0	µg/L	1	11/11/13 17:08
Bis(2-ethylhexyl)phthalate	U		0.15	5.0	µg/L	1	11/11/13 17:08
Butyl benzyl phthalate	U		0.10	5.0	µg/L	1	11/11/13 17:08
Caprolactam	U		4.7	10	µg/L	1	11/11/13 17:08
Carbazole	1.9	J	0.16	10	µg/L	1	11/11/13 17:08
Chrysene	U		0.71	5.0	µg/L	1	11/11/13 17:08
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	11/11/13 17:08
Dibenzofuran	1.1	J	0.28	5.0	µg/L	1	11/11/13 17:08
Diethyl phthalate	U		0.24	20	µg/L	1	11/11/13 17:08
Dimethyl phthalate	U		0.27	20	µg/L	1	11/11/13 17:08
Di-n-butyl phthalate	0.82	J	0.14	5.0	µg/L	1	11/11/13 17:08
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	11/11/13 17:08
Fluoranthene	1.1	J	0.77	5.0	µg/L	1	11/11/13 17:08
Fluorene	3.4	J	0.10	5.0	µg/L	1	11/11/13 17:08
Hexachlorobenzene	U		0.22	5.0	µg/L	1	11/11/13 17:08
Hexachlorobutadiene	U		0.24	5.0	µg/L	1	11/11/13 17:08
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	11/11/13 17:08
Hexachloroethane	U		0.47	5.0	µg/L	1	11/11/13 17:08
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	11/11/13 17:08
Isophorone	U		0.30	5.0	µg/L	1	11/11/13 17:08
Naphthalene	7.4		0.12	5.0	µg/L	1	11/11/13 17:08
Nitrobenzene	U		0.33	5.0	µg/L	1	11/11/13 17:08
N-Nitrosodi-n-propylamine	U		0.32	5.0	µg/L	1	11/11/13 17:08
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	11/11/13 17:08
Pentachlorophenol	U		0.22	20	µg/L	1	11/11/13 17:08
Phenanthrene	2.0	J	0.86	5.0	µg/L	1	11/11/13 17:08
Phenol	U		0.32	5.0	µg/L	1	11/11/13 17:08
Pyrene	U		0.65	5.0	µg/L	1	11/11/13 17:08
Surr: 2,4,6-Tribromophenol	85.7			32-115	%REC	1	11/11/13 17:08
Surr: 2-Fluorobiphenyl	69.4			32-100	%REC	1	11/11/13 17:08
Surr: 2-Fluorophenol	38.2			22-59	%REC	1	11/11/13 17:08
Surr: 4-Terphenyl-d14	81.7			23-112	%REC	1	11/11/13 17:08
Surr: Nitrobenzene-d5	72.5			31-93	%REC	1	11/11/13 17:08
Surr: Phenol-d6	23.8			13-36	%REC	1	11/11/13 17:08

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-056
Collection Date: 11/05/13 11:15 AM

Work Order: 1311287
Lab ID: 1311287-56
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3510 / 11/7/13	Analyst: RM	
<u>BatchID: 53069</u>							
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	11/11/13 17:28
2,4,5-Trichlorophenol	U		0.25	5.0	µg/L	1	11/11/13 17:28
2,4,6-Trichlorophenol	U		0.27	5.0	µg/L	1	11/11/13 17:28
2,4-Dichlorophenol	U		0.22	10	µg/L	1	11/11/13 17:28
2,4-Dimethylphenol	U		1.8	5.0	µg/L	1	11/11/13 17:28
2,4-Dinitrophenol	U		0.67	5.0	µg/L	1	11/11/13 17:28
2,4-Dinitrotoluene	U		0.27	5.0	µg/L	1	11/11/13 17:28
2,6-Dinitrotoluene	U		0.23	5.0	µg/L	1	11/11/13 17:28
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	11/11/13 17:28
2-Chlorophenol	U		0.32	5.0	µg/L	1	11/11/13 17:28
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	11/11/13 17:28
2-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 17:28
2-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 17:28
2-Nitrophenol	U		0.28	5.0	µg/L	1	11/11/13 17:28
3,3'-Dichlorobenzidine	U		3.9	5.0	µg/L	1	11/11/13 17:28
3-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 17:28
4,6-Dinitro-2-methylphenol	U		1.2	20	µg/L	1	11/11/13 17:28
4-Bromophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 17:28
4-Chloro-3-methylphenol	U		0.31	5.0	µg/L	1	11/11/13 17:28
4-Chloroaniline	U		0.32	20	µg/L	1	11/11/13 17:28
4-Chlorophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 17:28
4-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 17:28
4-Nitroaniline	U		0.30	20	µg/L	1	11/11/13 17:28
4-Nitrophenol	U		0.51	20	µg/L	1	11/11/13 17:28
Acenaphthene	U		0.11	5.0	µg/L	1	11/11/13 17:28
Acenaphthylene	U		0.12	5.0	µg/L	1	11/11/13 17:28
Acetophenone	U		0.090	1.0	µg/L	1	11/11/13 17:28
Anthracene	U		0.72	5.0	µg/L	1	11/11/13 17:28
Atrazine	U		0.13	1.0	µg/L	1	11/11/13 17:28
Benzaldehyde	U		0.46	1.0	µg/L	1	11/11/13 17:28
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	11/11/13 17:28
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	11/11/13 17:28
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	11/11/13 17:28
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	11/11/13 17:28
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	11/11/13 17:28
Bis(2-chloroethoxy)methane	U		0.33	5.0	µg/L	1	11/11/13 17:28
Bis(2-chloroethyl)ether	U		0.34	5.0	µg/L	1	11/11/13 17:28

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-056
Collection Date: 11/05/13 11:15 AM

Work Order: 1311287
Lab ID: 1311287-56
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.32	5.0	µg/L	1	11/11/13 17:28
Bis(2-ethylhexyl)phthalate	U		0.15	5.0	µg/L	1	11/11/13 17:28
Butyl benzyl phthalate	U		0.10	5.0	µg/L	1	11/11/13 17:28
Caprolactam	U		4.7	10	µg/L	1	11/11/13 17:28
Carbazole	U		0.16	10	µg/L	1	11/11/13 17:28
Chrysene	U		0.71	5.0	µg/L	1	11/11/13 17:28
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	11/11/13 17:28
Dibenzofuran	U		0.28	5.0	µg/L	1	11/11/13 17:28
Diethyl phthalate	U		0.24	20	µg/L	1	11/11/13 17:28
Dimethyl phthalate	U		0.27	20	µg/L	1	11/11/13 17:28
Di-n-butyl phthalate	U		0.14	5.0	µg/L	1	11/11/13 17:28
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	11/11/13 17:28
Fluoranthene	U		0.77	5.0	µg/L	1	11/11/13 17:28
Fluorene	U		0.10	5.0	µg/L	1	11/11/13 17:28
Hexachlorobenzene	U		0.22	5.0	µg/L	1	11/11/13 17:28
Hexachlorobutadiene	U		0.24	5.0	µg/L	1	11/11/13 17:28
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	11/11/13 17:28
Hexachloroethane	U		0.47	5.0	µg/L	1	11/11/13 17:28
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	11/11/13 17:28
Isophorone	U		0.30	5.0	µg/L	1	11/11/13 17:28
Naphthalene	U		0.12	5.0	µg/L	1	11/11/13 17:28
Nitrobenzene	U		0.33	5.0	µg/L	1	11/11/13 17:28
N-Nitrosodi-n-propylamine	U		0.32	5.0	µg/L	1	11/11/13 17:28
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	11/11/13 17:28
Pentachlorophenol	U		0.22	20	µg/L	1	11/11/13 17:28
Phenanthrene	U		0.86	5.0	µg/L	1	11/11/13 17:28
Phenol	U		0.32	5.0	µg/L	1	11/11/13 17:28
Pyrene	U		0.65	5.0	µg/L	1	11/11/13 17:28
Surr: 2,4,6-Tribromophenol	83.8			32-115	%REC	1	11/11/13 17:28
Surr: 2-Fluorobiphenyl	61.8			32-100	%REC	1	11/11/13 17:28
Surr: 2-Fluorophenol	35.3			22-59	%REC	1	11/11/13 17:28
Surr: 4-Terphenyl-d14	78.7			23-112	%REC	1	11/11/13 17:28
Surr: Nitrobenzene-d5	62.0			31-93	%REC	1	11/11/13 17:28
Surr: Phenol-d6	19.7			13-36	%REC	1	11/11/13 17:28

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: RS

BatchID: R130334

1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:31
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 06:31
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:31

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-056
Collection Date: 11/05/13 11:15 AM

Work Order: 1311287
Lab ID: 1311287-56
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 06:31
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 06:31
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:31
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 06:31
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 06:31
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 06:31
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 06:31
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:31
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 06:31
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:31
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:31
2-Butanone	U		0.64	25	µg/L	1	11/12/13 06:31
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 06:31
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 06:31
Acetone	8.2	J	3.0	50	µg/L	1	11/12/13 06:31
Benzene	U		0.14	1.0	µg/L	1	11/12/13 06:31
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 06:31
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 06:31
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 06:31
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 06:31
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 06:31
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 06:31
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 06:31
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 06:31
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 06:31
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 06:31
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 06:31
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 06:31
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 06:31
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 06:31
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 06:31
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 06:31
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 06:31
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 06:31
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 06:31
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 06:31
Styrene	U		0.12	1.0	µg/L	1	11/12/13 06:31
Tetrachloroethene	2.6		0.098	1.0	µg/L	1	11/12/13 06:31
Toluene	U		0.13	1.0	µg/L	1	11/12/13 06:31
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:31

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-056
Collection Date: 11/05/13 11:15 AM

Work Order: 1311287
Lab ID: 1311287-56
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 06:31
Trichloroethene	1.1		0.16	1.0	µg/L	1	11/12/13 06:31
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 06:31
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 06:31
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 06:31
Surr: 1,2-Dichloroethane-d4	94.3			70-120	%REC	1	11/12/13 06:31
Surr: 4-Bromofluorobenzene	95.8			75-120	%REC	1	11/12/13 06:31
Surr: Dibromofluoromethane	90.3			85-115	%REC	1	11/12/13 06:31
Surr: Toluene-d8	94.8			85-120	%REC	1	11/12/13 06:31

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-057
Collection Date: 11/05/13 11:11 AM

Work Order: 1311287
Lab ID: 1311287-57
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7470			Prep: SW7470 / 11/8/13	Analyst: LR
<u>BatchID:</u> 53116							
Mercury	U		0.00010	0.00020	mg/L	1	11/11/13 15:20
METALS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/10/13	Analyst: RH
<u>BatchID:</u> 53157							
Antimony	U		0.000036	0.0050	mg/L	1	11/12/13 05:09
Arsenic	0.0072		0.00058	0.0050	mg/L	1	11/12/13 05:09
Barium	0.13		0.000063	0.0050	mg/L	1	11/12/13 05:09
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 19:44
Cadmium	U		0.000045	0.0020	mg/L	1	11/12/13 05:09
Chromium	U		0.00027	0.0050	mg/L	1	11/12/13 05:09
Cobalt	0.00046	J	0.000041	0.0050	mg/L	1	11/13/13 19:44
Copper	0.0016	J	0.00053	0.0050	mg/L	1	11/12/13 05:09
Lead	0.00055	J	0.000051	0.0050	mg/L	1	11/13/13 19:44
Manganese	0.072		0.000054	0.0050	mg/L	1	11/12/13 05:09
Molybdenum	0.00052	J	0.000088	0.0050	mg/L	1	11/12/13 05:09
Nickel	0.011		0.00025	0.0050	mg/L	1	11/12/13 05:09
Selenium	U		0.00064	0.0050	mg/L	1	11/12/13 05:09
Silver	U		0.000042	0.0050	mg/L	1	11/12/13 05:09
Thallium	U		0.000062	0.0050	mg/L	1	11/12/13 05:09
Vanadium	U		0.00016	0.0050	mg/L	1	11/12/13 05:09
Zinc	0.0020	J	0.00048	0.010	mg/L	1	11/12/13 05:09
VOLATILE ORGANIC COMPOUNDS							
			SW8260				Analyst: RS
<u>BatchID:</u> R130334							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:55
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 06:55
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:55
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 06:55
1,1-Dichloroethane	1.1		0.14	1.0	µg/L	1	11/12/13 06:55
1,1-Dichloroethene	0.94	J	0.12	1.0	µg/L	1	11/12/13 06:55
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 06:55
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 06:55
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 06:55
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 06:55
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 06:55
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 06:55
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:55
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 06:55

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-057
Collection Date: 11/05/13 11:11 AM

Work Order: 1311287
Lab ID: 1311287-57
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/12/13 06:55
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 06:55
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 06:55
Acetone	U		3.0	50	µg/L	1	11/12/13 06:55
Benzene	U		0.14	1.0	µg/L	1	11/12/13 06:55
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 06:55
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 06:55
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 06:55
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 06:55
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 06:55
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 06:55
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 06:55
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 06:55
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 06:55
cis-1,2-Dichloroethene	16		0.10	1.0	µg/L	1	11/12/13 06:55
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 06:55
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 06:55
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 06:55
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 06:55
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 06:55
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 06:55
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 06:55
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 06:55
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 06:55
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 06:55
Styrene	U		0.12	1.0	µg/L	1	11/12/13 06:55
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 06:55
Toluene	U		0.13	1.0	µg/L	1	11/12/13 06:55
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 06:55
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 06:55
Trichloroethene	5.1		0.16	1.0	µg/L	1	11/12/13 06:55
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 06:55
Vinyl chloride	11		0.15	1.0	µg/L	1	11/12/13 06:55
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 06:55
Surr: 1,2-Dichloroethane-d4	96.5			70-120	%REC	1	11/12/13 06:55
Surr: 4-Bromofluorobenzene	95.4			75-120	%REC	1	11/12/13 06:55
Surr: Dibromofluoromethane	93.2			85-115	%REC	1	11/12/13 06:55
Surr: Toluene-d8	93.2			85-120	%REC	1	11/12/13 06:55

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-058
Collection Date: 11/05/13 01:33 PM

Work Order: 1311287
Lab ID: 1311287-58
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7470			Prep: SW7470 / 11/8/13	Analyst: LR
BatchID: <u>53116</u>							
Mercury	U		0.00010	0.00020	mg/L	1	11/11/13 15:26
METALS BY ICP-MS			SW6020A			Prep: SW3005A / 11/11/13	Analyst: RH
BatchID: <u>53173</u>							
Antimony	0.00016	J	0.000036	0.0050	mg/L	1	11/12/13 05:55
Arsenic	0.039		0.00058	0.0050	mg/L	1	11/12/13 05:55
Barium	0.10		0.000063	0.0050	mg/L	1	11/12/13 05:55
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 22:09
Cadmium	0.00072	J	0.000045	0.0020	mg/L	1	11/12/13 05:55
Chromium	0.00047	J	0.00027	0.0050	mg/L	1	11/12/13 05:55
Cobalt	0.0021	J	0.000041	0.0050	mg/L	1	11/13/13 22:09
Copper	0.0039	J	0.00053	0.0050	mg/L	1	11/12/13 05:55
Lead	0.00084	J	0.000051	0.0050	mg/L	1	11/13/13 22:09
Manganese	0.27		0.000054	0.0050	mg/L	1	11/12/13 05:55
Molybdenum	0.0030	J	0.000088	0.0050	mg/L	1	11/12/13 05:55
Nickel	0.016		0.00025	0.0050	mg/L	1	11/12/13 05:55
Selenium	0.00070	J	0.00064	0.0050	mg/L	1	11/12/13 05:55
Silver	U		0.000042	0.0050	mg/L	1	11/12/13 05:55
Thallium	0.00029	J	0.000062	0.0050	mg/L	1	11/12/13 05:55
Vanadium	0.00054	J	0.00016	0.0050	mg/L	1	11/12/13 05:55
Zinc	0.0018	J	0.00048	0.010	mg/L	1	11/12/13 05:55
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270			Prep: SW3510 / 11/7/13	Analyst: RM
BatchID: <u>53069</u>							
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	11/11/13 17:48
2,4,5-Trichlorophenol	U		0.25	5.0	µg/L	1	11/11/13 17:48
2,4,6-Trichlorophenol	U		0.27	5.0	µg/L	1	11/11/13 17:48
2,4-Dichlorophenol	U		0.22	10	µg/L	1	11/11/13 17:48
2,4-Dimethylphenol	2.0	J	1.8	5.0	µg/L	1	11/11/13 17:48
2,4-Dinitrophenol	U		0.67	5.0	µg/L	1	11/11/13 17:48
2,4-Dinitrotoluene	U		0.27	5.0	µg/L	1	11/11/13 17:48
2,6-Dinitrotoluene	U		0.23	5.0	µg/L	1	11/11/13 17:48
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	11/11/13 17:48
2-Chlorophenol	U		0.32	5.0	µg/L	1	11/11/13 17:48
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	11/11/13 17:48
2-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 17:48
2-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 17:48
2-Nitrophenol	U		0.28	5.0	µg/L	1	11/11/13 17:48

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-058
Collection Date: 11/05/13 01:33 PM

Work Order: 1311287
Lab ID: 1311287-58
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
3,3'-Dichlorobenzidine	U		3.9	5.0	µg/L	1	11/11/13 17:48
3-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 17:48
4,6-Dinitro-2-methylphenol	U		1.2	20	µg/L	1	11/11/13 17:48
4-Bromophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 17:48
4-Chloro-3-methylphenol	U		0.31	5.0	µg/L	1	11/11/13 17:48
4-Chloroaniline	U		0.32	20	µg/L	1	11/11/13 17:48
4-Chlorophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 17:48
4-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 17:48
4-Nitroaniline	U		0.30	20	µg/L	1	11/11/13 17:48
4-Nitrophenol	U		0.51	20	µg/L	1	11/11/13 17:48
Acenaphthene	U		0.11	5.0	µg/L	1	11/11/13 17:48
Acenaphthylene	U		0.12	5.0	µg/L	1	11/11/13 17:48
Acetophenone	U		0.090	1.0	µg/L	1	11/11/13 17:48
Anthracene	U		0.72	5.0	µg/L	1	11/11/13 17:48
Atrazine	U		0.13	1.0	µg/L	1	11/11/13 17:48
Benzaldehyde	U		0.46	1.0	µg/L	1	11/11/13 17:48
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	11/11/13 17:48
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	11/11/13 17:48
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	11/11/13 17:48
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	11/11/13 17:48
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	11/11/13 17:48
Bis(2-chloroethoxy)methane	U		0.33	5.0	µg/L	1	11/11/13 17:48
Bis(2-chloroethyl)ether	U		0.34	5.0	µg/L	1	11/11/13 17:48
Bis(2-chloroisopropyl)ether	U		0.32	5.0	µg/L	1	11/11/13 17:48
Bis(2-ethylhexyl)phthalate	U		0.15	5.0	µg/L	1	11/11/13 17:48
Butyl benzyl phthalate	U		0.10	5.0	µg/L	1	11/11/13 17:48
Caprolactam	U		4.7	10	µg/L	1	11/11/13 17:48
Carbazole	1.2	J	0.16	10	µg/L	1	11/11/13 17:48
Chrysene	U		0.71	5.0	µg/L	1	11/11/13 17:48
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	11/11/13 17:48
Dibenzofuran	U		0.28	5.0	µg/L	1	11/11/13 17:48
Diethyl phthalate	U		0.24	20	µg/L	1	11/11/13 17:48
Dimethyl phthalate	U		0.27	20	µg/L	1	11/11/13 17:48
Di-n-butyl phthalate	U		0.14	5.0	µg/L	1	11/11/13 17:48
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	11/11/13 17:48
Fluoranthene	U		0.77	5.0	µg/L	1	11/11/13 17:48
Fluorene	U		0.10	5.0	µg/L	1	11/11/13 17:48
Hexachlorobenzene	U		0.22	5.0	µg/L	1	11/11/13 17:48
Hexachlorobutadiene	U		0.24	5.0	µg/L	1	11/11/13 17:48
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	11/11/13 17:48

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-058
Collection Date: 11/05/13 01:33 PM

Work Order: 1311287
Lab ID: 1311287-58
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachloroethane	U		0.47	5.0	µg/L	1	11/11/13 17:48
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	11/11/13 17:48
Isophorone	U		0.30	5.0	µg/L	1	11/11/13 17:48
Naphthalene	1.1	J	0.12	5.0	µg/L	1	11/11/13 17:48
Nitrobenzene	U		0.33	5.0	µg/L	1	11/11/13 17:48
N-Nitrosodi-n-propylamine	U		0.32	5.0	µg/L	1	11/11/13 17:48
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	11/11/13 17:48
Pentachlorophenol	U		0.22	20	µg/L	1	11/11/13 17:48
Phenanthrene	U		0.86	5.0	µg/L	1	11/11/13 17:48
Phenol	U		0.32	5.0	µg/L	1	11/11/13 17:48
Pyrene	U		0.65	5.0	µg/L	1	11/11/13 17:48
Surr: 2,4,6-Tribromophenol	80.1			32-115	%REC	1	11/11/13 17:48
Surr: 2-Fluorobiphenyl	64.7			32-100	%REC	1	11/11/13 17:48
Surr: 2-Fluorophenol	35.3			22-59	%REC	1	11/11/13 17:48
Surr: 4-Terphenyl-d14	61.4			23-112	%REC	1	11/11/13 17:48
Surr: Nitrobenzene-d5	73.0			31-93	%REC	1	11/11/13 17:48
Surr: Phenol-d6	23.4			13-36	%REC	1	11/11/13 17:48
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS	
BatchID: R130361							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 19:31
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 19:31
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 19:31
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 19:31
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 19:31
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 19:31
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 19:31
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 19:31
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 19:31
1,2-Dichlorobenzene	1.9		0.17	1.0	µg/L	1	11/12/13 19:31
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 19:31
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 19:31
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 19:31
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 19:31
2-Butanone	19	J	0.64	25	µg/L	1	11/12/13 19:31
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 19:31
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 19:31
Acetone	U		3.0	50	µg/L	1	11/12/13 19:31
Benzene	U		0.14	1.0	µg/L	1	11/12/13 19:31
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 19:31

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-058
Collection Date: 11/05/13 01:33 PM

Work Order: 1311287
Lab ID: 1311287-58
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 19:31
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 19:31
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 19:31
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 19:31
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 19:31
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 19:31
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 19:31
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 19:31
cis-1,2-Dichloroethene	2.5		0.10	1.0	µg/L	1	11/12/13 19:31
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 19:31
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 19:31
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 19:31
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 19:31
Ethylbenzene	1.7		0.12	1.0	µg/L	1	11/12/13 19:31
Isopropylbenzene	2.4	J	0.11	5.0	µg/L	1	11/12/13 19:31
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 19:31
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 19:31
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 19:31
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 19:31
Styrene	U		0.12	1.0	µg/L	1	11/12/13 19:31
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 19:31
Toluene	U		0.13	1.0	µg/L	1	11/12/13 19:31
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 19:31
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 19:31
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 19:31
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 19:31
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 19:31
Xylenes, Total	3.4		0.30	3.0	µg/L	1	11/12/13 19:31
Surr: 1,2-Dichloroethane-d4	111			70-120	%REC	1	11/12/13 19:31
Surr: 4-Bromofluorobenzene	100			75-120	%REC	1	11/12/13 19:31
Surr: Dibromofluoromethane	102			85-115	%REC	1	11/12/13 19:31
Surr: Toluene-d8	102			85-120	%REC	1	11/12/13 19:31

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-059
Collection Date: 11/05/13 12:47 PM

Work Order: 1311287
Lab ID: 1311287-59
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3510 / 11/7/13	Analyst: RM	
<u>BatchID: 53069</u>							
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	11/11/13 18:08
2,4,5-Trichlorophenol	U		0.25	5.0	µg/L	1	11/11/13 18:08
2,4,6-Trichlorophenol	U		0.27	5.0	µg/L	1	11/11/13 18:08
2,4-Dichlorophenol	U		0.22	10	µg/L	1	11/11/13 18:08
2,4-Dimethylphenol	U		1.8	5.0	µg/L	1	11/11/13 18:08
2,4-Dinitrophenol	U		0.67	5.0	µg/L	1	11/11/13 18:08
2,4-Dinitrotoluene	U		0.27	5.0	µg/L	1	11/11/13 18:08
2,6-Dinitrotoluene	U		0.23	5.0	µg/L	1	11/11/13 18:08
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	11/11/13 18:08
2-Chlorophenol	U		0.32	5.0	µg/L	1	11/11/13 18:08
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	11/11/13 18:08
2-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 18:08
2-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 18:08
2-Nitrophenol	U		0.28	5.0	µg/L	1	11/11/13 18:08
3,3'-Dichlorobenzidine	U		3.9	5.0	µg/L	1	11/11/13 18:08
3-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 18:08
4,6-Dinitro-2-methylphenol	U		1.2	20	µg/L	1	11/11/13 18:08
4-Bromophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 18:08
4-Chloro-3-methylphenol	U		0.31	5.0	µg/L	1	11/11/13 18:08
4-Chloroaniline	U		0.32	20	µg/L	1	11/11/13 18:08
4-Chlorophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 18:08
4-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 18:08
4-Nitroaniline	U		0.30	20	µg/L	1	11/11/13 18:08
4-Nitrophenol	U		0.51	20	µg/L	1	11/11/13 18:08
Acenaphthene	U		0.11	5.0	µg/L	1	11/11/13 18:08
Acenaphthylene	U		0.12	5.0	µg/L	1	11/11/13 18:08
Acetophenone	U		0.090	1.0	µg/L	1	11/11/13 18:08
Anthracene	U		0.72	5.0	µg/L	1	11/11/13 18:08
Atrazine	U		0.13	1.0	µg/L	1	11/11/13 18:08
Benzaldehyde	U		0.46	1.0	µg/L	1	11/11/13 18:08
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	11/11/13 18:08
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	11/11/13 18:08
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	11/11/13 18:08
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	11/11/13 18:08
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	11/11/13 18:08
Bis(2-chloroethoxy)methane	U		0.33	5.0	µg/L	1	11/11/13 18:08
Bis(2-chloroethyl)ether	U		0.34	5.0	µg/L	1	11/11/13 18:08

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-059
Collection Date: 11/05/13 12:47 PM

Work Order: 1311287
Lab ID: 1311287-59
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.32	5.0	µg/L	1	11/11/13 18:08
Bis(2-ethylhexyl)phthalate	U		0.15	5.0	µg/L	1	11/11/13 18:08
Butyl benzyl phthalate	U		0.10	5.0	µg/L	1	11/11/13 18:08
Caprolactam	U		4.7	10	µg/L	1	11/11/13 18:08
Carbazole	U		0.16	10	µg/L	1	11/11/13 18:08
Chrysene	U		0.71	5.0	µg/L	1	11/11/13 18:08
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	11/11/13 18:08
Dibenzofuran	U		0.28	5.0	µg/L	1	11/11/13 18:08
Diethyl phthalate	U		0.24	20	µg/L	1	11/11/13 18:08
Dimethyl phthalate	U		0.27	20	µg/L	1	11/11/13 18:08
Di-n-butyl phthalate	U		0.14	5.0	µg/L	1	11/11/13 18:08
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	11/11/13 18:08
Fluoranthene	U		0.77	5.0	µg/L	1	11/11/13 18:08
Fluorene	U		0.10	5.0	µg/L	1	11/11/13 18:08
Hexachlorobenzene	U		0.22	5.0	µg/L	1	11/11/13 18:08
Hexachlorobutadiene	U		0.24	5.0	µg/L	1	11/11/13 18:08
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	11/11/13 18:08
Hexachloroethane	U		0.47	5.0	µg/L	1	11/11/13 18:08
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	11/11/13 18:08
Isophorone	U		0.30	5.0	µg/L	1	11/11/13 18:08
Naphthalene	U		0.12	5.0	µg/L	1	11/11/13 18:08
Nitrobenzene	U		0.33	5.0	µg/L	1	11/11/13 18:08
N-Nitrosodi-n-propylamine	U		0.32	5.0	µg/L	1	11/11/13 18:08
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	11/11/13 18:08
Pentachlorophenol	U		0.22	20	µg/L	1	11/11/13 18:08
Phenanthrene	U		0.86	5.0	µg/L	1	11/11/13 18:08
Phenol	U		0.32	5.0	µg/L	1	11/11/13 18:08
Pyrene	U		0.65	5.0	µg/L	1	11/11/13 18:08
Surr: 2,4,6-Tribromophenol	82.2			32-115	%REC	1	11/11/13 18:08
Surr: 2-Fluorobiphenyl	67.5			32-100	%REC	1	11/11/13 18:08
Surr: 2-Fluorophenol	37.4			22-59	%REC	1	11/11/13 18:08
Surr: 4-Terphenyl-d14	77.3			23-112	%REC	1	11/11/13 18:08
Surr: Nitrobenzene-d5	64.3			31-93	%REC	1	11/11/13 18:08
Surr: Phenol-d6	21.9			13-36	%REC	1	11/11/13 18:08

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: RS

BatchID: R130334

1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:20
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 07:20
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:20

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-059
Collection Date: 11/05/13 12:47 PM

Work Order: 1311287
Lab ID: 1311287-59
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 07:20
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 07:20
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:20
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 07:20
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 07:20
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 07:20
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 07:20
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:20
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 07:20
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:20
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:20
2-Butanone	U		0.64	25	µg/L	1	11/12/13 07:20
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 07:20
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 07:20
Acetone	U		3.0	50	µg/L	1	11/12/13 07:20
Benzene	U		0.14	1.0	µg/L	1	11/12/13 07:20
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 07:20
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 07:20
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 07:20
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 07:20
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 07:20
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 07:20
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 07:20
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 07:20
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 07:20
cis-1,2-Dichloroethene	0.65	J	0.10	1.0	µg/L	1	11/12/13 07:20
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 07:20
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 07:20
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 07:20
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 07:20
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 07:20
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 07:20
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 07:20
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 07:20
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 07:20
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 07:20
Styrene	U		0.12	1.0	µg/L	1	11/12/13 07:20
Tetrachloroethene	5.3		0.098	1.0	µg/L	1	11/12/13 07:20
Toluene	U		0.13	1.0	µg/L	1	11/12/13 07:20
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:20

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates**Project:** Former GRMP (17360-T01Y13)**Sample ID:** WG-17360-110513-MR-059**Collection Date:** 11/05/13 12:47 PM**Work Order:** 1311287**Lab ID:** 1311287-59**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 07:20
Trichloroethene	1.1		0.16	1.0	µg/L	1	11/12/13 07:20
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 07:20
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 07:20
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 07:20
Surr: 1,2-Dichloroethane-d4	95.6			70-120	%REC	1	11/12/13 07:20
Surr: 4-Bromofluorobenzene	95.6			75-120	%REC	1	11/12/13 07:20
Surr: Dibromofluoromethane	91.1			85-115	%REC	1	11/12/13 07:20
Surr: Toluene-d8	94.2			85-120	%REC	1	11/12/13 07:20

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-060
Collection Date: 11/05/13 02:25 PM

Work Order: 1311287
Lab ID: 1311287-60
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7470			Prep: SW7470 / 11/8/13	Analyst: LR
BatchID: <u>53116</u>							
Mercury	U		0.00010	0.00020	mg/L	1	11/11/13 15:28
METALS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/11/13	Analyst: RH
BatchID: <u>53173</u>							
Antimony	0.00011	J	0.000036	0.0050	mg/L	1	11/12/13 06:01
Arsenic	0.0019	J	0.00058	0.0050	mg/L	1	11/12/13 06:01
Barium	0.12		0.000063	0.0050	mg/L	1	11/12/13 06:01
Beryllium	U		0.000082	0.0020	mg/L	1	11/13/13 22:14
Cadmium	0.0010	J	0.000045	0.0020	mg/L	1	11/12/13 06:01
Chromium	0.00045	J	0.00027	0.0050	mg/L	1	11/12/13 06:01
Cobalt	0.00090	J	0.000041	0.0050	mg/L	1	11/13/13 22:14
Copper	0.0027	J	0.00053	0.0050	mg/L	1	11/12/13 06:01
Lead	0.00046	J	0.000051	0.0050	mg/L	1	11/13/13 22:14
Manganese	0.39		0.000054	0.0050	mg/L	1	11/12/13 06:01
Molybdenum	0.0018	J	0.000088	0.0050	mg/L	1	11/12/13 06:01
Nickel	0.016		0.00025	0.0050	mg/L	1	11/12/13 06:01
Selenium	0.00071	J	0.00064	0.0050	mg/L	1	11/12/13 06:01
Silver	U		0.000042	0.0050	mg/L	1	11/12/13 06:01
Thallium	U		0.000062	0.0050	mg/L	1	11/12/13 06:01
Vanadium	U		0.00016	0.0050	mg/L	1	11/12/13 06:01
Zinc	0.0016	J	0.00048	0.010	mg/L	1	11/12/13 06:01
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3510 / 11/7/13	Analyst: RM
BatchID: <u>53069</u>							
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	11/11/13 18:28
2,4,5-Trichlorophenol	U		0.25	5.0	µg/L	1	11/11/13 18:28
2,4,6-Trichlorophenol	U		0.27	5.0	µg/L	1	11/11/13 18:28
2,4-Dichlorophenol	U		0.22	10	µg/L	1	11/11/13 18:28
2,4-Dimethylphenol	U		1.8	5.0	µg/L	1	11/11/13 18:28
2,4-Dinitrophenol	U		0.67	5.0	µg/L	1	11/11/13 18:28
2,4-Dinitrotoluene	U		0.27	5.0	µg/L	1	11/11/13 18:28
2,6-Dinitrotoluene	U		0.23	5.0	µg/L	1	11/11/13 18:28
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	11/11/13 18:28
2-Chlorophenol	U		0.32	5.0	µg/L	1	11/11/13 18:28
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	11/11/13 18:28
2-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 18:28
2-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 18:28
2-Nitrophenol	U		0.28	5.0	µg/L	1	11/11/13 18:28

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-060
Collection Date: 11/05/13 02:25 PM

Work Order: 1311287
Lab ID: 1311287-60
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
3,3'-Dichlorobenzidine	U		3.9	5.0	µg/L	1	11/11/13 18:28
3-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 18:28
4,6-Dinitro-2-methylphenol	U		1.2	20	µg/L	1	11/11/13 18:28
4-Bromophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 18:28
4-Chloro-3-methylphenol	U		0.31	5.0	µg/L	1	11/11/13 18:28
4-Chloroaniline	U		0.32	20	µg/L	1	11/11/13 18:28
4-Chlorophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 18:28
4-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 18:28
4-Nitroaniline	U		0.30	20	µg/L	1	11/11/13 18:28
4-Nitrophenol	U		0.51	20	µg/L	1	11/11/13 18:28
Acenaphthene	U		0.11	5.0	µg/L	1	11/11/13 18:28
Acenaphthylene	U		0.12	5.0	µg/L	1	11/11/13 18:28
Acetophenone	U		0.090	1.0	µg/L	1	11/11/13 18:28
Anthracene	U		0.72	5.0	µg/L	1	11/11/13 18:28
Atrazine	U		0.13	1.0	µg/L	1	11/11/13 18:28
Benzaldehyde	U		0.46	1.0	µg/L	1	11/11/13 18:28
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	11/11/13 18:28
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	11/11/13 18:28
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	11/11/13 18:28
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	11/11/13 18:28
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	11/11/13 18:28
Bis(2-chloroethoxy)methane	U		0.33	5.0	µg/L	1	11/11/13 18:28
Bis(2-chloroethyl)ether	U		0.34	5.0	µg/L	1	11/11/13 18:28
Bis(2-chloroisopropyl)ether	U		0.32	5.0	µg/L	1	11/11/13 18:28
Bis(2-ethylhexyl)phthalate	U		0.15	5.0	µg/L	1	11/11/13 18:28
Butyl benzyl phthalate	U		0.10	5.0	µg/L	1	11/11/13 18:28
Caprolactam	U		4.7	10	µg/L	1	11/11/13 18:28
Carbazole	U		0.16	10	µg/L	1	11/11/13 18:28
Chrysene	U		0.71	5.0	µg/L	1	11/11/13 18:28
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	11/11/13 18:28
Dibenzofuran	U		0.28	5.0	µg/L	1	11/11/13 18:28
Diethyl phthalate	U		0.24	20	µg/L	1	11/11/13 18:28
Dimethyl phthalate	U		0.27	20	µg/L	1	11/11/13 18:28
Di-n-butyl phthalate	U		0.14	5.0	µg/L	1	11/11/13 18:28
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	11/11/13 18:28
Fluoranthene	U		0.77	5.0	µg/L	1	11/11/13 18:28
Fluorene	U		0.10	5.0	µg/L	1	11/11/13 18:28
Hexachlorobenzene	U		0.22	5.0	µg/L	1	11/11/13 18:28
Hexachlorobutadiene	U		0.24	5.0	µg/L	1	11/11/13 18:28
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	11/11/13 18:28

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-060
Collection Date: 11/05/13 02:25 PM

Work Order: 1311287
Lab ID: 1311287-60
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachloroethane	U		0.47	5.0	µg/L	1	11/11/13 18:28
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	11/11/13 18:28
Isophorone	U		0.30	5.0	µg/L	1	11/11/13 18:28
Naphthalene	U		0.12	5.0	µg/L	1	11/11/13 18:28
Nitrobenzene	U		0.33	5.0	µg/L	1	11/11/13 18:28
N-Nitrosodi-n-propylamine	U		0.32	5.0	µg/L	1	11/11/13 18:28
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	11/11/13 18:28
Pentachlorophenol	U		0.22	20	µg/L	1	11/11/13 18:28
Phenanthrene	U		0.86	5.0	µg/L	1	11/11/13 18:28
Phenol	U		0.32	5.0	µg/L	1	11/11/13 18:28
Pyrene	U		0.65	5.0	µg/L	1	11/11/13 18:28
Surr: 2,4,6-Tribromophenol	79.9			32-115	%REC	1	11/11/13 18:28
Surr: 2-Fluorobiphenyl	67.3			32-100	%REC	1	11/11/13 18:28
Surr: 2-Fluorophenol	39.0			22-59	%REC	1	11/11/13 18:28
Surr: 4-Terphenyl-d14	79.0			23-112	%REC	1	11/11/13 18:28
Surr: Nitrobenzene-d5	67.6			31-93	%REC	1	11/11/13 18:28
Surr: Phenol-d6	23.1			13-36	%REC	1	11/11/13 18:28

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: RS

BatchID: R130334

1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:44
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 07:44
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:44
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 07:44
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 07:44
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:44
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 07:44
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 07:44
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 07:44
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 07:44
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 07:44
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 07:44
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:44
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 07:44
2-Butanone	U		0.64	25	µg/L	1	11/12/13 07:44
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 07:44
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 07:44
Acetone	U		3.0	50	µg/L	1	11/12/13 07:44
Benzene	U		0.14	1.0	µg/L	1	11/12/13 07:44
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 07:44

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-060
Collection Date: 11/05/13 02:25 PM

Work Order: 1311287
Lab ID: 1311287-60
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 07:44
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 07:44
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 07:44
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 07:44
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 07:44
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 07:44
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 07:44
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 07:44
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 07:44
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 07:44
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 07:44
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 07:44
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 07:44
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 07:44
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 07:44
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 07:44
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 07:44
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 07:44
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 07:44
Styrene	U		0.12	1.0	µg/L	1	11/12/13 07:44
Tetrachloroethene	1.9		0.098	1.0	µg/L	1	11/12/13 07:44
Toluene	U		0.13	1.0	µg/L	1	11/12/13 07:44
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 07:44
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 07:44
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 07:44
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 07:44
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 07:44
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 07:44
Surr: 1,2-Dichloroethane-d4	92.8			70-120	%REC	1	11/12/13 07:44
Surr: 4-Bromofluorobenzene	97.0			75-120	%REC	1	11/12/13 07:44
Surr: Dibromofluoromethane	90.6			85-115	%REC	1	11/12/13 07:44
Surr: Toluene-d8	95.0			85-120	%REC	1	11/12/13 07:44

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-061
Collection Date: 11/05/13 11:20 AM

Work Order: 1311287
Lab ID: 1311287-61
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7470			Prep: SW7470 / 11/8/13	Analyst: LR
BatchID: <u>53116</u>							
Mercury	U		0.00010	0.00020	mg/L	1	11/11/13 15:30
METALS BY ICP-MS			SW6020A			Prep: SW3005A / 11/11/13	Analyst: RH
BatchID: <u>53173</u>							
Antimony	U		0.000036	0.0050	mg/L	1	11/12/13 06:24
Arsenic	0.0068		0.00058	0.0050	mg/L	1	11/12/13 06:24
Barium	0.13		0.000063	0.0050	mg/L	1	11/12/13 06:24
Beryllium	U		0.000082	0.0020	mg/L	1	11/12/13 06:24
Cadmium	0.00076	J	0.000045	0.0020	mg/L	1	11/12/13 06:24
Chromium	U		0.00027	0.0050	mg/L	1	11/12/13 06:24
Cobalt	0.0012	J	0.000041	0.0050	mg/L	1	11/12/13 06:24
Copper	0.0014	J	0.00053	0.0050	mg/L	1	11/12/13 06:24
Lead	0.00011	J	0.000051	0.0050	mg/L	1	11/12/13 06:24
Manganese	0.072		0.000054	0.0050	mg/L	1	11/12/13 06:24
Molybdenum	0.00050	J	0.000088	0.0050	mg/L	1	11/12/13 06:24
Nickel	0.013		0.00025	0.0050	mg/L	1	11/12/13 06:24
Selenium	U		0.00064	0.0050	mg/L	1	11/12/13 06:24
Silver	U		0.000042	0.0050	mg/L	1	11/12/13 06:24
Thallium	U		0.000062	0.0050	mg/L	1	11/12/13 06:24
Vanadium	U		0.00016	0.0050	mg/L	1	11/12/13 06:24
Zinc	0.00078	J	0.00048	0.010	mg/L	1	11/12/13 06:24
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
BatchID: <u>R130334</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:09
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 08:09
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:09
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 08:09
1,1-Dichloroethane	1.1		0.14	1.0	µg/L	1	11/12/13 08:09
1,1-Dichloroethene	0.93	J	0.12	1.0	µg/L	1	11/12/13 08:09
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 08:09
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 08:09
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 08:09
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 08:09
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:09
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 08:09
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:09
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:09

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-MR-061
Collection Date: 11/05/13 11:20 AM

Work Order: 1311287
Lab ID: 1311287-61
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	U		0.64	25	µg/L	1	11/12/13 08:09
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 08:09
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 08:09
Acetone	U		3.0	50	µg/L	1	11/12/13 08:09
Benzene	U		0.14	1.0	µg/L	1	11/12/13 08:09
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 08:09
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 08:09
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 08:09
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 08:09
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 08:09
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 08:09
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 08:09
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 08:09
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 08:09
cis-1,2-Dichloroethene	16		0.10	1.0	µg/L	1	11/12/13 08:09
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 08:09
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 08:09
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 08:09
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 08:09
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 08:09
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 08:09
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 08:09
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 08:09
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 08:09
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 08:09
Styrene	U		0.12	1.0	µg/L	1	11/12/13 08:09
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 08:09
Toluene	U		0.13	1.0	µg/L	1	11/12/13 08:09
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:09
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 08:09
Trichloroethene	5.1		0.16	1.0	µg/L	1	11/12/13 08:09
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 08:09
Vinyl chloride	11		0.15	1.0	µg/L	1	11/12/13 08:09
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 08:09
Surr: 1,2-Dichloroethane-d4	97.0			70-120	%REC	1	11/12/13 08:09
Surr: 4-Bromofluorobenzene	95.3			75-120	%REC	1	11/12/13 08:09
Surr: Dibromofluoromethane	93.1			85-115	%REC	1	11/12/13 08:09
Surr: Toluene-d8	94.6			85-120	%REC	1	11/12/13 08:09

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-062
Collection Date: 11/05/13 12:50 PM

Work Order: 1311287
Lab ID: 1311287-62
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3510 / 11/7/13	Analyst: RM	
<u>BatchID: 53069</u>							
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	11/11/13 18:48
2,4,5-Trichlorophenol	U		0.25	5.0	µg/L	1	11/11/13 18:48
2,4,6-Trichlorophenol	U		0.27	5.0	µg/L	1	11/11/13 18:48
2,4-Dichlorophenol	U		0.22	10	µg/L	1	11/11/13 18:48
2,4-Dimethylphenol	U		1.8	5.0	µg/L	1	11/11/13 18:48
2,4-Dinitrophenol	U		0.67	5.0	µg/L	1	11/11/13 18:48
2,4-Dinitrotoluene	U		0.27	5.0	µg/L	1	11/11/13 18:48
2,6-Dinitrotoluene	U		0.23	5.0	µg/L	1	11/11/13 18:48
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	11/11/13 18:48
2-Chlorophenol	U		0.32	5.0	µg/L	1	11/11/13 18:48
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	11/11/13 18:48
2-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 18:48
2-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 18:48
2-Nitrophenol	U		0.28	5.0	µg/L	1	11/11/13 18:48
3,3'-Dichlorobenzidine	U		3.9	5.0	µg/L	1	11/11/13 18:48
3-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 18:48
4,6-Dinitro-2-methylphenol	U		1.2	20	µg/L	1	11/11/13 18:48
4-Bromophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 18:48
4-Chloro-3-methylphenol	U		0.31	5.0	µg/L	1	11/11/13 18:48
4-Chloroaniline	U		0.32	20	µg/L	1	11/11/13 18:48
4-Chlorophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 18:48
4-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 18:48
4-Nitroaniline	U		0.30	20	µg/L	1	11/11/13 18:48
4-Nitrophenol	U		0.51	20	µg/L	1	11/11/13 18:48
Acenaphthene	U		0.11	5.0	µg/L	1	11/11/13 18:48
Acenaphthylene	U		0.12	5.0	µg/L	1	11/11/13 18:48
Acetophenone	U		0.090	1.0	µg/L	1	11/11/13 18:48
Anthracene	U		0.72	5.0	µg/L	1	11/11/13 18:48
Atrazine	U		0.13	1.0	µg/L	1	11/11/13 18:48
Benzaldehyde	U		0.46	1.0	µg/L	1	11/11/13 18:48
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	11/11/13 18:48
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	11/11/13 18:48
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	11/11/13 18:48
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	11/11/13 18:48
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	11/11/13 18:48
Bis(2-chloroethoxy)methane	U		0.33	5.0	µg/L	1	11/11/13 18:48
Bis(2-chloroethyl)ether	U		0.34	5.0	µg/L	1	11/11/13 18:48

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-062
Collection Date: 11/05/13 12:50 PM

Work Order: 1311287
Lab ID: 1311287-62
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bis(2-chloroisopropyl)ether	U		0.32	5.0	µg/L	1	11/11/13 18:48
Bis(2-ethylhexyl)phthalate	U		0.15	5.0	µg/L	1	11/11/13 18:48
Butyl benzyl phthalate	U		0.10	5.0	µg/L	1	11/11/13 18:48
Caprolactam	U		4.7	10	µg/L	1	11/11/13 18:48
Carbazole	U		0.16	10	µg/L	1	11/11/13 18:48
Chrysene	U		0.71	5.0	µg/L	1	11/11/13 18:48
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	11/11/13 18:48
Dibenzofuran	U		0.28	5.0	µg/L	1	11/11/13 18:48
Diethyl phthalate	U		0.24	20	µg/L	1	11/11/13 18:48
Dimethyl phthalate	U		0.27	20	µg/L	1	11/11/13 18:48
Di-n-butyl phthalate	U		0.14	5.0	µg/L	1	11/11/13 18:48
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	11/11/13 18:48
Fluoranthene	U		0.77	5.0	µg/L	1	11/11/13 18:48
Fluorene	U		0.10	5.0	µg/L	1	11/11/13 18:48
Hexachlorobenzene	U		0.22	5.0	µg/L	1	11/11/13 18:48
Hexachlorobutadiene	U		0.24	5.0	µg/L	1	11/11/13 18:48
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	11/11/13 18:48
Hexachloroethane	U		0.47	5.0	µg/L	1	11/11/13 18:48
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	11/11/13 18:48
Isophorone	U		0.30	5.0	µg/L	1	11/11/13 18:48
Naphthalene	U		0.12	5.0	µg/L	1	11/11/13 18:48
Nitrobenzene	U		0.33	5.0	µg/L	1	11/11/13 18:48
N-Nitrosodi-n-propylamine	U		0.32	5.0	µg/L	1	11/11/13 18:48
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	11/11/13 18:48
Pentachlorophenol	U		0.22	20	µg/L	1	11/11/13 18:48
Phenanthrene	U		0.86	5.0	µg/L	1	11/11/13 18:48
Phenol	U		0.32	5.0	µg/L	1	11/11/13 18:48
Pyrene	U		0.65	5.0	µg/L	1	11/11/13 18:48
Surr: 2,4,6-Tribromophenol	63.5			32-115	%REC	1	11/11/13 18:48
Surr: 2-Fluorobiphenyl	50.1			32-100	%REC	1	11/11/13 18:48
Surr: 2-Fluorophenol	28.8			22-59	%REC	1	11/11/13 18:48
Surr: 4-Terphenyl-d14	70.0			23-112	%REC	1	11/11/13 18:48
Surr: Nitrobenzene-d5	52.6			31-93	%REC	1	11/11/13 18:48
Surr: Phenol-d6	14.9			13-36	%REC	1	11/11/13 18:48
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: RS	
BatchID: R130334							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:34
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 08:34
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:34

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-062
Collection Date: 11/05/13 12:50 PM

Work Order: 1311287
Lab ID: 1311287-62
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 08:34
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 08:34
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:34
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 08:34
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 08:34
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 08:34
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 08:34
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:34
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 08:34
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:34
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:34
2-Butanone	U		0.64	25	µg/L	1	11/12/13 08:34
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 08:34
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 08:34
Acetone	U		3.0	50	µg/L	1	11/12/13 08:34
Benzene	U		0.14	1.0	µg/L	1	11/12/13 08:34
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 08:34
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 08:34
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 08:34
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 08:34
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 08:34
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 08:34
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 08:34
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 08:34
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 08:34
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 08:34
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 08:34
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 08:34
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 08:34
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 08:34
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 08:34
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 08:34
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 08:34
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 08:34
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 08:34
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 08:34
Styrene	U		0.12	1.0	µg/L	1	11/12/13 08:34
Tetrachloroethene	7.1		0.098	1.0	µg/L	1	11/12/13 08:34
Toluene	U		0.13	1.0	µg/L	1	11/12/13 08:34
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:34

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates**Project:** Former GRMP (17360-T01Y13)**Sample ID:** WG-17360-110513-EB-062**Collection Date:** 11/05/13 12:50 PM**Work Order:** 1311287**Lab ID:** 1311287-62**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 08:34
Trichloroethene	1.5		0.16	1.0	µg/L	1	11/12/13 08:34
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 08:34
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 08:34
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 08:34
Surr: 1,2-Dichloroethane-d4	96.2			70-120	%REC	1	11/12/13 08:34
Surr: 4-Bromofluorobenzene	96.8			75-120	%REC	1	11/12/13 08:34
Surr: Dibromofluoromethane	91.6			85-115	%REC	1	11/12/13 08:34
Surr: Toluene-d8	94.8			85-120	%REC	1	11/12/13 08:34

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-063
Collection Date: 11/05/13 01:35 PM

Work Order: 1311287
Lab ID: 1311287-63
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
<u>BatchID: R130334</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:58
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 08:58
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:58
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 08:58
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 08:58
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:58
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 08:58
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 08:58
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 08:58
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 08:58
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 08:58
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 08:58
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:58
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 08:58
2-Butanone	U		0.64	25	µg/L	1	11/12/13 08:58
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 08:58
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 08:58
Acetone	U		3.0	50	µg/L	1	11/12/13 08:58
Benzene	U		0.14	1.0	µg/L	1	11/12/13 08:58
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 08:58
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 08:58
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 08:58
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 08:58
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 08:58
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 08:58
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 08:58
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 08:58
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 08:58
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 08:58
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 08:58
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 08:58
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 08:58
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 08:58
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 08:58
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 08:58
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 08:58
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 08:58

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-063
Collection Date: 11/05/13 01:35 PM

Work Order: 1311287
Lab ID: 1311287-63
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 08:58
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 08:58
Styrene	U		0.12	1.0	µg/L	1	11/12/13 08:58
Tetrachloroethene	7.0		0.098	1.0	µg/L	1	11/12/13 08:58
Toluene	U		0.13	1.0	µg/L	1	11/12/13 08:58
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 08:58
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 08:58
Trichloroethene	1.0		0.16	1.0	µg/L	1	11/12/13 08:58
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 08:58
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 08:58
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 08:58
Surr: 1,2-Dichloroethane-d4	94.7			70-120	%REC	1	11/12/13 08:58
Surr: 4-Bromofluorobenzene	95.6			75-120	%REC	1	11/12/13 08:58
Surr: Dibromofluoromethane	91.6			85-115	%REC	1	11/12/13 08:58
Surr: Toluene-d8	94.6			85-120	%REC	1	11/12/13 08:58

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-064
Collection Date: 11/05/13 01:40 PM

Work Order: 1311287
Lab ID: 1311287-64
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
<u>BatchID: R130361</u>							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 19:55
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 19:55
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 19:55
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 19:55
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 19:55
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 19:55
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 19:55
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 19:55
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 19:55
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 19:55
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 19:55
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 19:55
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 19:55
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 19:55
2-Butanone	U		0.64	25	µg/L	1	11/12/13 19:55
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 19:55
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 19:55
Acetone	U		3.0	50	µg/L	1	11/12/13 19:55
Benzene	U		0.14	1.0	µg/L	1	11/12/13 19:55
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 19:55
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 19:55
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 19:55
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 19:55
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 19:55
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 19:55
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 19:55
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 19:55
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 19:55
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 19:55
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 19:55
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 19:55
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 19:55
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 19:55
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 19:55
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 19:55
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 19:55
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 19:55

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-064
Collection Date: 11/05/13 01:40 PM

Work Order: 1311287
Lab ID: 1311287-64
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 19:55
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 19:55
Styrene	U		0.12	1.0	µg/L	1	11/12/13 19:55
Tetrachloroethene	6.8		0.098	1.0	µg/L	1	11/12/13 19:55
Toluene	U		0.13	1.0	µg/L	1	11/12/13 19:55
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 19:55
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 19:55
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 19:55
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 19:55
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 19:55
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 19:55
Surr: 1,2-Dichloroethane-d4	102			70-120	%REC	1	11/12/13 19:55
Surr: 4-Bromofluorobenzene	94.8			75-120	%REC	1	11/12/13 19:55
Surr: Dibromofluoromethane	106			85-115	%REC	1	11/12/13 19:55
Surr: Toluene-d8	95.0			85-120	%REC	1	11/12/13 19:55

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-065
Collection Date: 11/05/13 02:20 PM

Work Order: 1311287
Lab ID: 1311287-65
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260				Analyst: RS
BatchID: R130361							
1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 20:19
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 20:19
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 20:19
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 20:19
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 20:19
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 20:19
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 20:19
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 20:19
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 20:19
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 20:19
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 20:19
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 20:19
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 20:19
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 20:19
2-Butanone	U		0.64	25	µg/L	1	11/12/13 20:19
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 20:19
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 20:19
Acetone	U		3.0	50	µg/L	1	11/12/13 20:19
Benzene	U		0.14	1.0	µg/L	1	11/12/13 20:19
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 20:19
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 20:19
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 20:19
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 20:19
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 20:19
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 20:19
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 20:19
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 20:19
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 20:19
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 20:19
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 20:19
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 20:19
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 20:19
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 20:19
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 20:19
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 20:19
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 20:19
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 20:19

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-065
Collection Date: 11/05/13 02:20 PM

Work Order: 1311287
Lab ID: 1311287-65
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 20:19
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 20:19
Styrene	U		0.12	1.0	µg/L	1	11/12/13 20:19
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 20:19
Toluene	U		0.13	1.0	µg/L	1	11/12/13 20:19
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 20:19
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 20:19
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 20:19
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 20:19
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 20:19
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 20:19
Surr: 1,2-Dichloroethane-d4	101			70-120	%REC	1	11/12/13 20:19
Surr: 4-Bromofluorobenzene	93.9			75-120	%REC	1	11/12/13 20:19
Surr: Dibromofluoromethane	104			85-115	%REC	1	11/12/13 20:19
Surr: Toluene-d8	95.7			85-120	%REC	1	11/12/13 20:19

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-066
Collection Date: 11/05/13 02:55 PM

Work Order: 1311287
Lab ID: 1311287-66
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			SW7470			Prep: SW7470 / 11/8/13	Analyst: LR
<u>BatchID:</u> 53116							
Mercury	U		0.00010	0.00020	mg/L	1	11/11/13 15:38
METALS BY ICP-MS							
			SW6020A			Prep: SW3005A / 11/11/13	Analyst: RH
<u>BatchID:</u> 53173							
Antimony	0.000052	J	0.000036	0.0050	mg/L	1	11/12/13 06:30
Arsenic	U		0.00058	0.0050	mg/L	1	11/12/13 06:30
Barium	0.048		0.000063	0.0050	mg/L	1	11/12/13 06:30
Beryllium	U		0.000082	0.0020	mg/L	1	11/12/13 06:30
Cadmium	0.00093	J	0.000045	0.0020	mg/L	1	11/12/13 06:30
Chromium	0.0011	J	0.00027	0.0050	mg/L	1	11/12/13 06:30
Cobalt	0.0019	J	0.000041	0.0050	mg/L	1	11/12/13 06:30
Copper	0.0023	J	0.00053	0.0050	mg/L	1	11/12/13 06:30
Lead	0.000098	J	0.000051	0.0050	mg/L	1	11/12/13 06:30
Manganese	0.0063		0.000054	0.0050	mg/L	1	11/12/13 06:30
Molybdenum	0.00031	J	0.000088	0.0050	mg/L	1	11/12/13 06:30
Nickel	0.012		0.00025	0.0050	mg/L	1	11/12/13 06:30
Selenium	0.0016	J	0.00064	0.0050	mg/L	1	11/12/13 06:30
Silver	U		0.000042	0.0050	mg/L	1	11/12/13 06:30
Thallium	U		0.000062	0.0050	mg/L	1	11/12/13 06:30
Vanadium	U		0.00016	0.0050	mg/L	1	11/12/13 06:30
Zinc	0.0014	J	0.00048	0.010	mg/L	1	11/12/13 06:30
SEMI-VOLATILE ORGANIC COMPOUNDS							
			SW8270			Prep: SW3510 / 11/7/13	Analyst: RM
<u>BatchID:</u> 53069							
1,1'-Biphenyl	U		0.095	5.0	µg/L	1	11/11/13 19:08
2,4,5-Trichlorophenol	U		0.25	5.0	µg/L	1	11/11/13 19:08
2,4,6-Trichlorophenol	U		0.27	5.0	µg/L	1	11/11/13 19:08
2,4-Dichlorophenol	U		0.22	10	µg/L	1	11/11/13 19:08
2,4-Dimethylphenol	U		1.8	5.0	µg/L	1	11/11/13 19:08
2,4-Dinitrophenol	U		0.67	5.0	µg/L	1	11/11/13 19:08
2,4-Dinitrotoluene	U		0.27	5.0	µg/L	1	11/11/13 19:08
2,6-Dinitrotoluene	U		0.23	5.0	µg/L	1	11/11/13 19:08
2-Chloronaphthalene	U		0.13	5.0	µg/L	1	11/11/13 19:08
2-Chlorophenol	U		0.32	5.0	µg/L	1	11/11/13 19:08
2-Methylnaphthalene	U		0.13	5.0	µg/L	1	11/11/13 19:08
2-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 19:08
2-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 19:08
2-Nitrophenol	U		0.28	5.0	µg/L	1	11/11/13 19:08

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-066
Collection Date: 11/05/13 02:55 PM

Work Order: 1311287
Lab ID: 1311287-66
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
3,3'-Dichlorobenzidine	U		3.9	5.0	µg/L	1	11/11/13 19:08
3-Nitroaniline	U		0.34	20	µg/L	1	11/11/13 19:08
4,6-Dinitro-2-methylphenol	U		1.2	20	µg/L	1	11/11/13 19:08
4-Bromophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 19:08
4-Chloro-3-methylphenol	U		0.31	5.0	µg/L	1	11/11/13 19:08
4-Chloroaniline	U		0.32	20	µg/L	1	11/11/13 19:08
4-Chlorophenyl phenyl ether	U		0.23	5.0	µg/L	1	11/11/13 19:08
4-Methylphenol	U		0.20	5.0	µg/L	1	11/11/13 19:08
4-Nitroaniline	U		0.30	20	µg/L	1	11/11/13 19:08
4-Nitrophenol	U		0.51	20	µg/L	1	11/11/13 19:08
Acenaphthene	U		0.11	5.0	µg/L	1	11/11/13 19:08
Acenaphthylene	U		0.12	5.0	µg/L	1	11/11/13 19:08
Acetophenone	U		0.090	1.0	µg/L	1	11/11/13 19:08
Anthracene	U		0.72	5.0	µg/L	1	11/11/13 19:08
Atrazine	U		0.13	1.0	µg/L	1	11/11/13 19:08
Benzaldehyde	U		0.46	1.0	µg/L	1	11/11/13 19:08
Benzo(a)anthracene	U		0.57	5.0	µg/L	1	11/11/13 19:08
Benzo(a)pyrene	U		0.10	5.0	µg/L	1	11/11/13 19:08
Benzo(b)fluoranthene	U		0.74	5.0	µg/L	1	11/11/13 19:08
Benzo(g,h,i)perylene	U		0.70	5.0	µg/L	1	11/11/13 19:08
Benzo(k)fluoranthene	U		0.17	5.0	µg/L	1	11/11/13 19:08
Bis(2-chloroethoxy)methane	U		0.33	5.0	µg/L	1	11/11/13 19:08
Bis(2-chloroethyl)ether	U		0.34	5.0	µg/L	1	11/11/13 19:08
Bis(2-chloroisopropyl)ether	U		0.32	5.0	µg/L	1	11/11/13 19:08
Bis(2-ethylhexyl)phthalate	U		0.15	5.0	µg/L	1	11/11/13 19:08
Butyl benzyl phthalate	U		0.10	5.0	µg/L	1	11/11/13 19:08
Caprolactam	U		4.7	10	µg/L	1	11/11/13 19:08
Carbazole	U		0.16	10	µg/L	1	11/11/13 19:08
Chrysene	U		0.71	5.0	µg/L	1	11/11/13 19:08
Dibenzo(a,h)anthracene	U		0.67	5.0	µg/L	1	11/11/13 19:08
Dibenzofuran	U		0.28	5.0	µg/L	1	11/11/13 19:08
Diethyl phthalate	U		0.24	20	µg/L	1	11/11/13 19:08
Dimethyl phthalate	U		0.27	20	µg/L	1	11/11/13 19:08
Di-n-butyl phthalate	U		0.14	5.0	µg/L	1	11/11/13 19:08
Di-n-octyl phthalate	U		0.12	5.0	µg/L	1	11/11/13 19:08
Fluoranthene	U		0.77	5.0	µg/L	1	11/11/13 19:08
Fluorene	U		0.10	5.0	µg/L	1	11/11/13 19:08
Hexachlorobenzene	U		0.22	5.0	µg/L	1	11/11/13 19:08
Hexachlorobutadiene	U		0.24	5.0	µg/L	1	11/11/13 19:08
Hexachlorocyclopentadiene	U		0.18	20	µg/L	1	11/11/13 19:08

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-066
Collection Date: 11/05/13 02:55 PM

Work Order: 1311287
Lab ID: 1311287-66
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachloroethane	U		0.47	5.0	µg/L	1	11/11/13 19:08
Indeno(1,2,3-cd)pyrene	U		0.69	5.0	µg/L	1	11/11/13 19:08
Isophorone	U		0.30	5.0	µg/L	1	11/11/13 19:08
Naphthalene	U		0.12	5.0	µg/L	1	11/11/13 19:08
Nitrobenzene	U		0.33	5.0	µg/L	1	11/11/13 19:08
N-Nitrosodi-n-propylamine	U		0.32	5.0	µg/L	1	11/11/13 19:08
N-Nitrosodiphenylamine	U		0.81	5.0	µg/L	1	11/11/13 19:08
Pentachlorophenol	U		0.22	20	µg/L	1	11/11/13 19:08
Phenanthrene	U		0.86	5.0	µg/L	1	11/11/13 19:08
Phenol	U		0.32	5.0	µg/L	1	11/11/13 19:08
Pyrene	U		0.65	5.0	µg/L	1	11/11/13 19:08
Surr: 2,4,6-Tribromophenol	66.7			32-115	%REC	1	11/11/13 19:08
Surr: 2-Fluorobiphenyl	62.8			32-100	%REC	1	11/11/13 19:08
Surr: 2-Fluorophenol	38.9			22-59	%REC	1	11/11/13 19:08
Surr: 4-Terphenyl-d14	82.3			23-112	%REC	1	11/11/13 19:08
Surr: Nitrobenzene-d5	68.3			31-93	%REC	1	11/11/13 19:08
Surr: Phenol-d6	19.7			13-36	%REC	1	11/11/13 19:08

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: RS

BatchID: R130361

1,1,1-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 20:43
1,1,2,2-Tetrachloroethane	U		0.21	1.0	µg/L	1	11/12/13 20:43
1,1,2-Trichloroethane	U		0.11	1.0	µg/L	1	11/12/13 20:43
1,1,2-Trichlorotrifluoroethane	U		0.40	1.0	µg/L	1	11/12/13 20:43
1,1-Dichloroethane	U		0.14	1.0	µg/L	1	11/12/13 20:43
1,1-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 20:43
1,2,4-Trichlorobenzene	U		0.096	5.0	µg/L	1	11/12/13 20:43
1,2-Dibromo-3-chloropropane	U		0.35	1.0	µg/L	1	11/12/13 20:43
1,2-Dibromoethane	U		0.14	1.0	µg/L	1	11/12/13 20:43
1,2-Dichlorobenzene	U		0.17	1.0	µg/L	1	11/12/13 20:43
1,2-Dichloroethane	U		0.11	1.0	µg/L	1	11/12/13 20:43
1,2-Dichloropropane	U		0.12	1.0	µg/L	1	11/12/13 20:43
1,3-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 20:43
1,4-Dichlorobenzene	U		0.15	1.0	µg/L	1	11/12/13 20:43
2-Butanone	U		0.64	25	µg/L	1	11/12/13 20:43
2-Hexanone	U		0.19	50	µg/L	1	11/12/13 20:43
4-Methyl-2-pentanone	U		0.20	50	µg/L	1	11/12/13 20:43
Acetone	U		3.0	50	µg/L	1	11/12/13 20:43
Benzene	U		0.14	1.0	µg/L	1	11/12/13 20:43
Bromodichloromethane	U		0.22	1.0	µg/L	1	11/12/13 20:43

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

ALS Group USA, Corp

Date: 15-Nov-13

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360-T01Y13)
Sample ID: WG-17360-110513-EB-066
Collection Date: 11/05/13 02:55 PM

Work Order: 1311287
Lab ID: 1311287-66
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Bromoform	U		0.18	1.0	µg/L	1	11/12/13 20:43
Bromomethane	U		0.38	5.0	µg/L	1	11/12/13 20:43
Carbon disulfide	U		0.26	5.0	µg/L	1	11/12/13 20:43
Carbon tetrachloride	U		0.16	1.0	µg/L	1	11/12/13 20:43
Chlorobenzene	U		0.12	1.0	µg/L	1	11/12/13 20:43
Chloroethane	U		0.25	5.0	µg/L	1	11/12/13 20:43
Chloroform	U		0.15	1.0	µg/L	1	11/12/13 20:43
Chloromethane	U		0.29	5.0	µg/L	1	11/12/13 20:43
cis-1,2-Dichloroethene	U		0.10	1.0	µg/L	1	11/12/13 20:43
cis-1,3-Dichloropropene	U		0.097	1.0	µg/L	1	11/12/13 20:43
Cyclohexane	U		0.20	1.0	µg/L	1	11/12/13 20:43
Dibromochloromethane	U		0.12	5.0	µg/L	1	11/12/13 20:43
Dichlorodifluoromethane	U		0.18	5.0	µg/L	1	11/12/13 20:43
Ethylbenzene	U		0.12	1.0	µg/L	1	11/12/13 20:43
Isopropylbenzene	U		0.11	5.0	µg/L	1	11/12/13 20:43
Methyl acetate	U		0.76	10	µg/L	1	11/12/13 20:43
Methyl tert-butyl ether	U		0.28	5.0	µg/L	1	11/12/13 20:43
Methylcyclohexane	U		0.19	1.0	µg/L	1	11/12/13 20:43
Methylene chloride	U		0.75	5.0	µg/L	1	11/12/13 20:43
Styrene	U		0.12	1.0	µg/L	1	11/12/13 20:43
Tetrachloroethene	U		0.098	1.0	µg/L	1	11/12/13 20:43
Toluene	U		0.13	1.0	µg/L	1	11/12/13 20:43
trans-1,2-Dichloroethene	U		0.12	1.0	µg/L	1	11/12/13 20:43
trans-1,3-Dichloropropene	U		0.093	1.0	µg/L	1	11/12/13 20:43
Trichloroethene	U		0.16	1.0	µg/L	1	11/12/13 20:43
Trichlorofluoromethane	U		0.22	1.0	µg/L	1	11/12/13 20:43
Vinyl chloride	U		0.15	1.0	µg/L	1	11/12/13 20:43
Xylenes, Total	U		0.30	3.0	µg/L	1	11/12/13 20:43
Surr: 1,2-Dichloroethane-d4	102			70-120	%REC	1	11/12/13 20:43
Surr: 4-Bromofluorobenzene	95.5			75-120	%REC	1	11/12/13 20:43
Surr: Dibromofluoromethane	103			85-115	%REC	1	11/12/13 20:43
Surr: Toluene-d8	96.0			85-120	%REC	1	11/12/13 20:43
CHROMIUM, HEXAVALENT			SW7196A				Analyst: MB
BatchID: R130022							
Chromium, Hexavalent	U		0.0050	0.020	mg/L	1	11/06/13 16:00

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53079** Instrument ID **HG1** Method: **SW7470**

MBLK		Sample ID: MBLK-53079-53079				Units: mg/L		Analysis Date: 11/08/13 11:34 AM		
Client ID:		Run ID: HG1_131108A		SeqNo: 2528787		Prep Date: 11/07/13		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-53079-53079				Units: mg/L			Analysis Date: 11/08/13 11:36 AM		
Client ID:				Run ID: HG1_131108A				SeqNo: 2528788		Prep Date: 11/07/13		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

Mercury 0.001925 0.00020 0.002 0 96.2 80-120 0

MS				Sample ID: 13101609-06BMS				Units: mg/L			Analysis Date: 11/08/13 11:46 AM		
Client ID:				Run ID: HG1_131108A		SeqNo: 2528793			Prep Date: 11/07/13		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

Mercury 0.002003 0.00020 0.002 0.000012 99.6 75-125 0

MSD				Sample ID: 13101609-07BMSD				Units: mg/L			Analysis Date: 11/08/13 11:48 AM			
Client ID:				Run ID: HG1_131108A				SeqNo: 2528794		Prep Date: 11/07/13		DF: 1		
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001989 0.00020 0.002 0.000012 98.8 75-125 0.002003 0.701 20

The following samples were analyzed in this batch:

1311287-17B	1311287-18B	1311287-34B
1311287-42B	1311287-43B	1311287-46B
1311287-47B		

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53116** Instrument ID **HG1** Method: **SW7470**

MBLK		Sample ID: MBLK-53116-53116				Units: mg/L		Analysis Date: 11/11/13 02:52 PM		
Client ID:		Run ID: HG1_131111A				SeqNo: 2532638		Prep Date: 11/08/13		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-53116-53116				Units: mg/L		Analysis Date: 11/11/13 02:54 PM		
Client ID:		Run ID: HG1_131111A				SeqNo: 2532639		Prep Date: 11/08/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.00191 0.00020 0.002 0 95.5 80-120 0

MS		Sample ID: 1311287-57BMS				Units: mg/L		Analysis Date: 11/11/13 03:22 PM		
Client ID: WG-17360-110513-MR-057		Run ID: HG1_131111A				SeqNo: 2532643		Prep Date: 11/08/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001842 0.00020 0.002 0.00002 91.1 75-125 0

MSD		Sample ID: 1311287-57BMSD				Units: mg/L		Analysis Date: 11/11/13 03:24 PM		
Client ID: WG-17360-110513-MR-057		Run ID: HG1_131111A				SeqNo: 2532644		Prep Date: 11/08/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.001883 0.00020 0.002 0.00002 93.2 75-125 0.001842 2.2 20

The following samples were analyzed in this batch:

1311287-51B	1311287-52B	1311287-57B
1311287-58B	1311287-60B	1311287-61B
1311287-66B		

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53157** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-53157-53157				Units: mg/L		Analysis Date: 11/13/13 05:12 PM		
Client ID:		Run ID: ICPMS2_131113A		SeqNo: 2536929		Prep Date: 11/10/13		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	0.000349	0.0050								J
Molybdenum	U	0.0050								
Nickel	U	0.0050								
Selenium	U	0.0050								
Thallium	0.00008195	0.0050								J
Vanadium	U	0.0050								
Zinc	U	0.010								

MBLK		Sample ID: MBLK-53157-53157				Units: mg/L		Analysis Date: 11/14/13 01:12 PM		
Client ID:			Run ID: ICPMS2_131114A			SeqNo: 2538147		Prep Date: 11/10/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	U	0.0050								

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53157** Instrument ID **ICPMS2** Method: **SW6020A**

LCS		Sample ID: LCS-53157-53157				Units: mg/L		Analysis Date: 11/13/13 05:18 PM		
Client ID:		Run ID: ICPMS2_131113A				SeqNo: 2536930		Prep Date: 11/10/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09796	0.0050	0.1	0	98	80-120	0			
Arsenic	0.1007	0.0050	0.1	0	101	80-120	0			
Barium	0.09954	0.0050	0.1	0	99.5	80-120	0			
Beryllium	0.09903	0.0020	0.1	0	99	80-120	0			
Cadmium	0.09828	0.0020	0.1	0	98.3	80-120	0			
Chromium	0.09906	0.0050	0.1	0	99.1	80-120	0			
Cobalt	0.1009	0.0050	0.1	0	101	80-120	0			
Copper	0.09903	0.0050	0.1	0	99	80-120	0			
Lead	0.09528	0.0050	0.1	0	95.3	80-120	0			
Manganese	0.1019	0.0050	0.1	0	102	80-120	0			
Molybdenum	0.09742	0.0050	0.1	0	97.4	80-120	0			
Nickel	0.09616	0.0050	0.1	0	96.2	80-120	0			
Selenium	0.1018	0.0050	0.1	0	102	80-120	0			
Thallium	0.09494	0.0050	0.1	0	94.9	80-120	0			
Vanadium	0.1036	0.0050	0.1	0	104	80-120	0			
Zinc	0.09995	0.010	0.1	0	100	80-120	0			

LCS		Sample ID: LCS-53157-53157				Units: mg/L		Analysis Date: 11/14/13 01:17 PM		
Client ID:		Run ID: ICPMS2_131114A				SeqNo: 2538148		Prep Date: 11/10/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	0.1143	0.0050	0.1	0	114	80-120	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53157** Instrument ID **ICPMS2** Method: **SW6020A**

MS				Sample ID: 1311287-57BMS			Units: mg/L		Analysis Date: 11/12/13 05:15 AM	
Client ID: WG-17360-110513-MR-057				Run ID: ICPMS2_131111A			SeqNo: 2533201		Prep Date: 11/10/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09812	0.0050	0.1	0.0000131	98.1	75-125	0			
Arsenic	0.1079	0.0050	0.1	0.007203	101	75-125	0			
Barium	0.2249	0.0050	0.1	0.1268	98.1	75-125	0			
Cadmium	0.09909	0.0020	0.1	-0.0001276	99.2	75-125	0			
Chromium	0.1002	0.0050	0.1	0.00008744	100	75-125	0			
Copper	0.09618	0.0050	0.1	0.001621	94.6	75-125	0			
Lead	0.09472	0.0050	0.1	0.000627	94.1	75-125	0			
Manganese	0.1779	0.0050	0.1	0.07223	106	75-125	0			
Molybdenum	0.1004	0.0050	0.1	0.0005215	99.9	75-125	0			
Nickel	0.1047	0.0050	0.1	0.01117	93.5	75-125	0			
Selenium	0.09669	0.0050	0.1	0.000338	96.4	75-125	0			
Silver	0.09789	0.0050	0.1	-5.496E-06	97.9	75-125	0			
Thallium	0.09654	0.0050	0.1	0.00001306	96.5	75-125	0			
Vanadium	0.09761	0.0050	0.1	-0.0008322	98.4	75-125	0			B
Zinc	0.1007	0.010	0.1	0.001994	98.7	75-125	0			

MS				Sample ID: 1311287-57BMS			Units: mg/L		Analysis Date: 11/13/13 07:50 PM	
Client ID: WG-17360-110513-MR-057				Run ID: ICPMS2_131113A			SeqNo: 2536956		Prep Date: 11/10/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.08694	0.0020	0.1	-0.00001126	87	75-125	0			
Cobalt	0.09533	0.0050	0.1	0.0004553	94.9	75-125	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53157** Instrument ID **ICPMS2** Method: **SW6020A**

MSD					Sample ID: 1311287-57BMSD		Units: mg/L		Analysis Date: 11/12/13 05:20 AM		
Client ID: WG-17360-110513-MR-057			Run ID: ICPMS2_131111A			SeqNo: 2533202		Prep Date: 11/10/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	0.0955	0.0050	0.1	0.0000131	95.5	75-125	0.09812	2.71	20		
Arsenic	0.1043	0.0050	0.1	0.007203	97.1	75-125	0.1079	3.39	20		
Barium	0.228	0.0050	0.1	0.1268	101	75-125	0.2249	1.37	20		
Cadmium	0.09937	0.0020	0.1	-0.0001276	99.5	75-125	0.09909	0.282	20		
Chromium	0.09703	0.0050	0.1	0.00008744	96.9	75-125	0.1002	3.21	20		
Copper	0.09779	0.0050	0.1	0.001621	96.2	75-125	0.09618	1.66	20		
Lead	0.09543	0.0050	0.1	0.000627	94.8	75-125	0.09472	0.747	20		
Manganese	0.1796	0.0050	0.1	0.07223	107	75-125	0.1779	0.951	20		
Molybdenum	0.1011	0.0050	0.1	0.0005215	101	75-125	0.1004	0.695	20		
Nickel	0.106	0.0050	0.1	0.01117	94.8	75-125	0.1047	1.23	20		
Selenium	0.09448	0.0050	0.1	0.000338	94.1	75-125	0.09669	2.31	20		
Silver	0.09531	0.0050	0.1	-5.496E-06	95.3	75-125	0.09789	2.67	20		
Thallium	0.09794	0.0050	0.1	0.00001306	97.9	75-125	0.09654	1.44	20		
Vanadium	0.09926	0.0050	0.1	-0.0008322	100	75-125	0.09761	1.68	20	B	
Zinc	0.1019	0.010	0.1	0.001994	99.9	75-125	0.1007	1.18	20		

MSD					Sample ID: 1311287-57BMSD			Units: mg/L		Analysis Date: 11/13/13 07:55 PM	
Client ID: WG-17360-110513-MR-057				Run ID: ICPMS2_131113A		SeqNo: 2536957		Prep Date: 11/10/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Beryllium	0.08792	0.0020	0.1	-0.00001126	87.9	75-125	0.08694	1.12	20		
Cobalt	0.09607	0.0050	0.1	0.0004553	95.6	75-125	0.09533	0.773	20		

The following samples were analyzed in this batch:

1311287-17B	1311287-18B	1311287-34B
1311287-42B	1311287-43B	1311287-46B
1311287-47B	1311287-51B	1311287-52B
1311287-57B		

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53173** Instrument ID **ICPMS2** Method: **SW6020A**

Sample ID: MBLK-53173-53173				Units: mg/L		Analysis Date: 11/12/13 05:43 AM				
Client ID:			Run ID: ICPMS2_131111A		SeqNo: 2533206		Prep Date: 11/11/13		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	0.0002095	0.0050								J
Cadmium	U	0.0020								
Chromium	U	0.0050								
Copper	U	0.0050								
Lead	0.0001364	0.0050								J
Manganese	0.0007497	0.0050								J
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	0.0008277	0.010								J

MBLK				Sample ID: MBLK-53173-53173				Units: mg/L			Analysis Date: 11/13/13 09:24 AM				
Client ID:				Run ID: ICPMS2_131113A				SeqNo: 2535712			Prep Date: 11/11/13		DF: 1		
Analyte				Result		PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cobalt				U		0.0050									

MBLK		Sample ID: MBLK-53173-53173				Units: mg/L		Analysis Date: 11/13/13 01:47 PM			
Client ID:		Run ID: ICPMS2_131113A				SeqNo: 2536020		Prep Date: 11/11/13		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium		U	0.0020								

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53173** Instrument ID **ICPMS2** Method: **SW6020A**

LCS				Sample ID: LCS-53173-53173				Units: mg/L			Analysis Date: 11/12/13 05:49 AM		
Client ID:			Run ID: ICPMS2_131111A			SeqNo: 2533207			Prep Date: 11/11/13			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Antimony	0.0955	0.0050	0.1	0	95.5	80-120		0					
Arsenic	0.09339	0.0050	0.1	0	93.4	80-120		0					
Barium	0.09406	0.0050	0.1	0	94.1	80-120		0					
Cadmium	0.09619	0.0020	0.1	0	96.2	80-120		0					
Chromium	0.09471	0.0050	0.1	0	94.7	80-120		0					
Copper	0.09642	0.0050	0.1	0	96.4	80-120		0					
Lead	0.08968	0.0050	0.1	0	89.7	80-120		0					
Manganese	0.08948	0.0050	0.1	0	89.5	80-120		0					
Molybdenum	0.0943	0.0050	0.1	0	94.3	80-120		0					
Nickel	0.09493	0.0050	0.1	0	94.9	80-120		0					
Selenium	0.09271	0.0050	0.1	0	92.7	80-120		0					
Silver	0.1013	0.0050	0.1	0	101	80-120		0					
Thallium	0.09179	0.0050	0.1	0	91.8	80-120		0					
Vanadium	0.09622	0.0050	0.1	0	96.2	80-120		0					
Zinc	0.09878	0.010	0.1	0	98.8	80-120		0					

LCS				Sample ID: LCS-53173-53173				Units: mg/L			Analysis Date: 11/13/13 09:30 AM		
Client ID:				Run ID: ICPMS2_131113A				SeqNo: 2535713		Prep Date: 11/11/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Cobalt	0.09222	0.0050	0.1	0	92.2	80-120	0						

LCS		Sample ID: LCS-53173-53173				Units: mg/L		Analysis Date: 11/13/13 01:02 PM		
Client ID:		Run ID: ICPMS2_131113A			SeqNo: 2535966		Prep Date: 11/11/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.09447	0.0020	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: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53173** Instrument ID **ICPMS2** Method: **SW6020A**

MS				Sample ID: 1311513-01AMS			Units: mg/L		Analysis Date: 11/13/13 09:57 AM		
Client ID:			Run ID: ICPMS2_131113A			SeqNo: 2535718		Prep Date: 11/11/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	1.026	0.050	1	0.005214	102	75-125		0			
Barium	1.321	0.050	1	0.3749	94.6	75-125		0			
Cadmium	0.9618	0.020	1	0.004213	95.8	75-125		0			
Chromium	1.432	0.050	1	0.3822	105	75-125		0			
Cobalt	0.9611	0.050	1	0.002967	95.8	75-125		0			
Copper	0.9085	0.050	1	0.08556	82.3	75-125		0			
Lead	0.9297	0.050	1	0.01247	91.7	75-125		0			
Manganese	0.9919	0.050	1	0.001578	99	75-125		0			
Molybdenum	1.981	0.050	1	1.061	92	75-125		0			
Selenium	1.189	0.050	1	0.17	102	75-125		0			
Silver	0.9009	0.050	1	-0.0003672	90.1	75-125		0			
Thallium	0.9549	0.050	1	0.005979	94.9	75-125		0			
Vanadium	1.042	0.050	1	0.008321	103	75-125		0			
Zinc	1.016	0.10	1	0.09337	92.3	75-125		0			

MS				Sample ID: 1311513-01AMS				Units: mg/L			Analysis Date: 11/13/13 01:30 PM		
Client ID:				Run ID: ICPMS2_131113A				SeqNo: 2535974		Prep Date: 11/11/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Antimony	0.9643	0.050	1	0.01117	95.3	75-125	0						
Beryllium	0.9167	0.020	1	-0.00002291	91.7	75-125	0						
Nickel	0.9174	0.050	1	0.02714	89	75-125	0						

MSD				Sample ID: 1311513-01AMSD			Units: mg/L		Analysis Date: 11/13/13 10:03 AM		
Client ID:			Run ID: ICPMS2_131113A			SeqNo: 2535719		Prep Date: 11/11/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	1.026	0.050	1	0.005214	102	75-125	1.026	0	20		
Barium	1.347	0.050	1	0.3749	97.2	75-125	1.321	1.95	20		
Cadmium	0.9486	0.020	1	0.004213	94.4	75-125	0.9618	1.38	20		
Chromium	1.467	0.050	1	0.3822	108	75-125	1.432	2.41	20		
Cobalt	0.9502	0.050	1	0.002967	94.7	75-125	0.9611	1.14	20		
Copper	0.8933	0.050	1	0.08556	80.8	75-125	0.9085	1.69	20		
Lead	0.9245	0.050	1	0.01247	91.2	75-125	0.9297	0.561	20		
Manganese	0.9742	0.050	1	0.001578	97.3	75-125	0.9919	1.8	20		
Molybdenum	2.082	0.050	1	1.061	102	75-125	1.981	4.97	20		
Selenium	1.217	0.050	1	0.17	105	75-125	1.189	2.33	20		
Silver	0.8873	0.050	1	-0.0003672	88.8	75-125	0.9009	1.52	20		
Thallium	0.9507	0.050	1	0.005979	94.5	75-125	0.9549	0.441	20		
Vanadium	1.032	0.050	1	0.008321	102	75-125	1.042	0.964	20		
Zinc	0.999	0.10	1	0.09337	90.6	75-125	1.016	1.69	20		

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: 53173 Instrument ID ICPMS2 Method: SW6020A

MSD		Sample ID: 1311513-01AMSD				Units: mg/L		Analysis Date: 11/13/13 01:35 PM		
Client ID:		Run ID: ICPMS2_131113A				SeqNo: 2535975		Prep Date: 11/11/13		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.9445	0.050	1	0.01117	93.3	75-125	0.9643	2.07	20	
Beryllium	0.9008	0.020	1	-0.00002291	90.1	75-125	0.9167	1.75	20	
Nickel	0.9117	0.050	1	0.02714	88.5	75-125	0.9174	0.623	20	

The following samples were analyzed in this batch:

1311287-58B	1311287-60B	1311287-61B
1311287-66B		

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53069** Instrument ID **SVMS7** Method: **SW8270**

MBLK				Sample ID: SBLKW1-53069-53069			Units: µg/L		Analysis Date: 11/08/13 09:19 AM		
Client ID:			Run ID: SVMS7_131108A			SeqNo: 2529349		Prep Date: 11/07/13		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	10									
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	20									
2-Nitrophenol	U	5.0									
3,3'-Dichlorobenzidine	U	5.0									
3-Nitroaniline	U	20									
4,6-Dinitro-2-methylphenol	U	20									
4-Bromophenyl phenyl ether	U	5.0									
4-Chloro-3-methylphenol	U	5.0									
4-Chloroaniline	U	20									
4-Chlorophenyl phenyl ether	U	5.0									
4-Methylphenol	U	5.0									
4-Nitroaniline	U	20									
4-Nitrophenol	U	20									
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	10									

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: 53069		Instrument ID SVMS7		Method: SW8270				
Chrysene	U	5.0						
Dibenzo(a,h)anthracene	U	5.0						
Dibenzofuran	U	5.0						
Diethyl phthalate	U	20						
Dimethyl phthalate	U	20						
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	20						
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	20						
Phenanthrene	U	5.0						
Phenol	U	5.0						
Pyrene	U	5.0						
<i>Surr: 2,4,6-Tribromophenol</i>	33.02	0	50	0	66	38-115	0	
<i>Surr: 2-Fluorobiphenyl</i>	30.48	0	50	0	61	32-100	0	
<i>Surr: 2-Fluorophenol</i>	21.65	0	50	0	43.3	22-59	0	
<i>Surr: 4-Terphenyl-d14</i>	43.59	0	50	0	87.2	23-112	0	
<i>Surr: Nitrobenzene-d5</i>	28	0	50	0	56	31-93	0	
<i>Surr: Phenol-d6</i>	11.16	0	50	0	22.3	13-36	0	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53069** Instrument ID **SVMS7** Method: **SW8270**

LCS				Sample ID: SLCSW1-53069-53069			Units: µg/L		Analysis Date: 11/08/13 08:34 AM		
Client ID:		Run ID: SVMS7_131108A			SeqNo: 2529348		Prep Date: 11/07/13		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2,4,5-Trichlorophenol	13.5	5.0	20	0	67.5	50-110	0				
2,4,6-Trichlorophenol	12.51	5.0	20	0	62.6	50-115	0				
2,4-Dichlorophenol	12.89	10	20	0	64.4	50-105	0				
2,4-Dimethylphenol	10.89	5.0	20	0	54.4	30-110	0				
2,4-Dinitrophenol	9.4	5.0	20	0	47	15-140	0				
2,4-Dinitrotoluene	14.78	5.0	20	0	73.9	50-120	0				
2,6-Dinitrotoluene	15.21	5.0	20	0	76	50-115	0				
2-Chloronaphthalene	13.67	5.0	20	0	68.4	50-105	0				
2-Chlorophenol	12.43	5.0	20	0	62.2	35-105	0				
2-Methylnaphthalene	13.04	5.0	20	0	65.2	45-105	0				
2-Methylphenol	9.78	5.0	20	0	48.9	40-110	0				
2-Nitroaniline	14.13	20	20	0	70.6	50-115	0			J	
2-Nitrophenol	13.39	5.0	20	0	67	40-115	0				
3-Nitroaniline	11.95	20	20	0	59.8	20-125	0			J	
4,6-Dinitro-2-methylphenol	15.02	20	20	0	75.1	40-130	0			J	
4-Bromophenyl phenyl ether	15.33	5.0	20	0	76.6	50-115	0				
4-Chloro-3-methylphenol	12.48	5.0	20	0	62.4	45-110	0				
4-Chloroaniline	13.03	20	20	0	65.2	15-110	0			J	
4-Chlorophenyl phenyl ether	12.59	5.0	20	0	63	50-110	0				
4-Methylphenol	7.98	5.0	20	0	39.9	30-110	0				
4-Nitroaniline	11.59	20	20	0	58	35-150	0			J	
4-Nitrophenol	5.69	20	20	0	28.4	1-58	0			J	
Acenaphthene	13	5.0	20	0	65	45-110	0				
Acenaphthylene	12.99	5.0	20	0	65	50-105	0				
Anthracene	13.81	5.0	20	0	69	55-110	0				
Benzo(a)anthracene	14.51	5.0	20	0	72.6	55-110	0				
Benzo(a)pyrene	16.24	5.0	20	0	81.2	55-110	0				
Benzo(b)fluoranthene	16	5.0	20	0	80	45-120	0				
Benzo(g,h,i)perylene	21.32	5.0	20	0	107	40-125	0				
Benzo(k)fluoranthene	16.21	5.0	20	0	81	45-125	0				
Bis(2-chloroethoxy)methane	13.78	5.0	20	0	68.9	45-105	0				
Bis(2-chloroethyl)ether	16.24	5.0	20	0	81.2	35-110	0				
Bis(2-chloroisopropyl)ether	12.78	5.0	20	0	63.9	25-130	0				
Bis(2-ethylhexyl)phthalate	14.58	5.0	20	0	72.9	40-125	0				
Butyl benzyl phthalate	13.63	5.0	20	0	68.2	45-115	0				
Carbazole	15.76	10	20	0	78.8	50-150	0				
Chrysene	16.34	5.0	20	0	81.7	55-110	0				
Dibenzo(a,h)anthracene	20.76	5.0	20	0	104	40-125	0				
Dibenzofuran	13.6	5.0	20	0	68	55-105	0				
Diethyl phthalate	14.43	20	20	0	72.2	40-120	0			J	
Dimethyl phthalate	13.29	20	20	0	66.4	25-125	0			J	
Di-n-butyl phthalate	16.12	5.0	20	0	80.6	55-115	0				

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: 53069		Instrument ID SVMS7		Method: SW8270				
Di-n-octyl phthalate	17.34	5.0	20	0	86.7	35-135	0	
Fluoranthene	15.76	5.0	20	0	78.8	55-115	0	
Fluorene	13.47	5.0	20	0	67.4	50-110	0	
Hexachlorobenzene	15.71	5.0	20	0	78.6	50-110	0	
Hexachlorobutadiene	13.56	5.0	20	0	67.8	25-105	0	
Hexachlorocyclopentadiene	9.22	20	20	0	46.1	25-105	0	J
Hexachloroethane	12.57	5.0	20	0	62.8	30-95	0	
Indeno(1,2,3-cd)pyrene	18.27	5.0	20	0	91.4	45-125	0	
Isophorone	13.2	5.0	20	0	66	50-110	0	
Naphthalene	13.17	5.0	20	0	65.8	40-100	0	
Nitrobenzene	13.82	5.0	20	0	69.1	45-110	0	
N-Nitrosodi-n-propylamine	12.85	5.0	20	0	64.2	35-130	0	
N-Nitrosodiphenylamine	15.18	5.0	20	0	75.9	50-110	0	
Pentachlorophenol	12.07	20	20	0	60.4	40-115	0	J
Phenanthrene	13.94	5.0	20	0	69.7	50-115	0	
Phenol	5.48	5.0	20	0	27.4	12-43	0	
Pyrene	15.29	5.0	20	0	76.4	50-130	0	
<i>Surr: 2,4,6-Tribromophenol</i>	37.56	0	50	0	75.1	38-115	0	
<i>Surr: 2-Fluorobiphenyl</i>	32.01	0	50	0	64	32-100	0	
<i>Surr: 2-Fluorophenol</i>	19.12	0	50	0	38.2	22-59	0	
<i>Surr: 4-Terphenyl-d14</i>	39.45	0	50	0	78.9	23-112	0	
<i>Surr: Nitrobenzene-d5</i>	31.25	0	50	0	62.5	31-93	0	
<i>Surr: Phenol-d6</i>	11.81	0	50	0	23.6	13-36	0	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53069** Instrument ID **SVMS7** Method: **SW8270**

MS				Sample ID: 1311287-54B MS			Units: µg/L		Analysis Date: 11/08/13 10:37 AM	
Client ID: WG-17360-110513-EB-054				Run ID: SVMS7_131108A			SeqNo: 2534444		Prep Date: 11/07/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	160.2	50	200	0	80.1	50-110	0			
2,4,6-Trichlorophenol	144.5	50	200	0	72.2	50-115	0			
2,4-Dichlorophenol	136.6	100	200	0	68.3	50-105	0			
2,4-Dimethylphenol	129.2	50	200	0	64.6	30-110	0			
2,4-Dinitrophenol	187.6	50	200	0	93.8	15-140	0			
2,4-Dinitrotoluene	162.3	50	200	0	81.2	50-120	0			
2,6-Dinitrotoluene	160.3	50	200	0	80.2	50-115	0			
2-Chloronaphthalene	140	50	200	0	70	50-105	0			
2-Chlorophenol	132.9	50	200	0	66.4	35-105	0			
2-Methylnaphthalene	135.2	50	200	0	67.6	45-105	0			
2-Methylphenol	107	50	200	0	53.5	40-110	0			
2-Nitroaniline	167.6	200	200	0	83.8	50-115	0			J
2-Nitrophenol	139	50	200	0	69.5	40-115	0			
3-Nitroaniline	150	200	200	0	75	20-125	0			J
4,6-Dinitro-2-methylphenol	184.3	200	200	0	92.2	40-130	0			J
4-Bromophenyl phenyl ether	168.7	50	200	0	84.4	50-115	0			
4-Chloro-3-methylphenol	150.7	50	200	0	75.4	45-110	0			
4-Chloroaniline	125.3	200	200	0	62.6	15-110	0			J
4-Chlorophenyl phenyl ether	138.6	50	200	0	69.3	50-110	0			
4-Methylphenol	84.2	50	200	0	42.1	30-110	0			
4-Nitroaniline	150.4	200	200	0	75.2	35-150	0			J
4-Nitrophenol	91.8	200	200	0	45.9	1-58	0			J
Acenaphthene	135	50	200	0	67.5	45-110	0			
Acenaphthylene	128.2	50	200	0	64.1	50-105	0			
Anthracene	150.6	50	200	8.3	71.2	55-110	0			
Benzo(a)anthracene	158.6	50	200	0	79.3	55-110	0			
Benzo(a)pyrene	171	50	200	0	85.5	55-110	0			
Benzo(b)fluoranthene	165.7	50	200	0	82.8	45-120	0			
Benzo(g,h,i)perylene	214.1	50	200	0	107	40-125	0			
Benzo(k)fluoranthene	160.5	50	200	0	80.2	45-125	0			
Bis(2-chloroethoxy)methane	145.5	50	200	0	72.8	45-105	0			
Bis(2-chloroethyl)ether	191.9	50	200	0	96	35-110	0			
Bis(2-chloroisopropyl)ether	131.7	50	200	0	65.8	25-130	0			
Bis(2-ethylhexyl)phthalate	162.4	50	200	0	81.2	40-125	0			
Butyl benzyl phthalate	155.5	50	200	0	77.8	45-115	0			
Carbazole	176.4	100	200	0	88.2	50-150	0			
Chrysene	158.9	50	200	0	79.4	55-110	0			
Dibenzo(a,h)anthracene	201.1	50	200	0	101	40-125	0			
Dibenzofuran	143.7	50	200	0	71.8	55-105	0			
Diethyl phthalate	158.1	200	200	5.5	76.3	40-120	0			J
Dimethyl phthalate	144.2	200	200	0	72.1	25-125	0			J
Di-n-butyl phthalate	180.9	50	200	0	90.4	55-115	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: 53069		Instrument ID SVMS7		Method: SW8270				
Di-n-octyl phthalate	194.4	50	200	0	97.2	35-135	0	
Fluoranthene	176.7	50	200	0	88.4	55-115	0	
Fluorene	151.7	50	200	0	75.8	50-110	0	
Hexachlorobenzene	164	50	200	0	82	50-110	0	
Hexachlorobutadiene	150.9	50	200	0	75.4	25-105	0	
Hexachlorocyclopentadiene	119.1	200	200	0	59.6	25-105	0	J
Hexachloroethane	154.4	50	200	0	77.2	30-95	0	
Indeno(1,2,3-cd)pyrene	192.2	50	200	0	96.1	45-125	0	
Isophorone	135.3	50	200	0	67.6	50-110	0	
Naphthalene	146	50	200	7	69.5	40-100	0	
Nitrobenzene	138.9	50	200	0	69.4	45-110	0	
N-Nitrosodi-n-propylamine	129.7	50	200	0	64.8	35-130	0	
N-Nitrosodiphenylamine	163.6	50	200	0	81.8	50-110	0	
Pentachlorophenol	287.2	200	200	0	144	40-115	0	S
Phenanthrene	148.7	50	200	10.2	69.2	50-115	0	
Phenol	58.5	50	200	0	29.2	12-43	0	
Pyrene	154.9	50	200	0	77.4	50-130	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>430.1</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>86</i>	<i>38-115</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>319.4</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>63.9</i>	<i>32-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>211.6</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>42.3</i>	<i>22-59</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>401.7</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>80.3</i>	<i>23-112</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>321.1</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>64.2</i>	<i>31-93</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>123.5</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>24.7</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: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53069** Instrument ID **SVMS7** Method: **SW8270**

MSD				Sample ID: 1311287-54B MSD			Units: µg/L		Analysis Date: 11/08/13 10:59 AM		
Client ID: WG-17360-110513-EB-054			Run ID: SVMS7_131108A			SeqNo: 2534445		Prep Date: 11/07/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2,4,5-Trichlorophenol	151.7	50	200	0	75.8	50-110	160.2	5.45	30		
2,4,6-Trichlorophenol	136.8	50	200	0	68.4	50-115	144.5	5.47	30		
2,4-Dichlorophenol	129	100	200	0	64.5	50-105	136.6	5.72	30		
2,4-Dimethylphenol	119.8	50	200	0	59.9	30-110	129.2	7.55	30		
2,4-Dinitrophenol	186.1	50	200	0	93	15-140	187.6	0.803	30		
2,4-Dinitrotoluene	149.8	50	200	0	74.9	50-120	162.3	8.01	30		
2,6-Dinitrotoluene	149.6	50	200	0	74.8	50-115	160.3	6.91	30		
2-Chloronaphthalene	128.8	50	200	0	64.4	50-105	140	8.33	30		
2-Chlorophenol	125.6	50	200	0	62.8	35-105	132.9	5.65	30		
2-Methylnaphthalene	125.2	50	200	0	62.6	45-105	135.2	7.68	30		
2-Methylphenol	104.4	50	200	0	52.2	40-110	107	2.46	30		
2-Nitroaniline	156.9	200	200	0	78.4	50-115	167.6	0	30	J	
2-Nitrophenol	130	50	200	0	65	40-115	139	6.69	30		
3-Nitroaniline	148.7	200	200	0	74.4	20-125	150	0	30	J	
4,6-Dinitro-2-methylphenol	179.1	200	200	0	89.6	40-130	184.3	0	30	J	
4-Bromophenyl phenyl ether	156.3	50	200	0	78.2	50-115	168.7	7.63	30		
4-Chloro-3-methylphenol	143.2	50	200	0	71.6	45-110	150.7	5.1	30		
4-Chloroaniline	127.8	200	200	0	63.9	15-110	125.3	0	30	J	
4-Chlorophenyl phenyl ether	129.5	50	200	0	64.8	50-110	138.6	6.79	30		
4-Methylphenol	84.5	50	200	0	42.2	30-110	84.2	0.356	30		
4-Nitroaniline	133.7	200	200	0	66.8	35-150	150.4	0	30	J	
4-Nitrophenol	82	200	200	0	41	1-58	91.8	0	0	J	
Acenaphthene	123.3	50	200	0	61.6	45-110	135	9.06	30		
Acenaphthylene	119.7	50	200	0	59.8	50-105	128.2	6.86	30		
Anthracene	139.8	50	200	8.3	65.8	55-110	150.6	7.44	30		
Benzo(a)anthracene	149.2	50	200	0	74.6	55-110	158.6	6.11	30		
Benzo(a)pyrene	159.6	50	200	0	79.8	55-110	171	6.9	30		
Benzo(b)fluoranthene	155.2	50	200	0	77.6	45-120	165.7	6.54	30		
Benzo(g,h,i)perylene	206	50	200	0	103	40-125	214.1	3.86	30		
Benzo(k)fluoranthene	148.5	50	200	0	74.2	45-125	160.5	7.77	30		
Bis(2-chloroethoxy)methane	128.3	50	200	0	64.2	45-105	145.5	12.6	30		
Bis(2-chloroethyl)ether	161.7	50	200	0	80.8	35-110	191.9	17.1	30		
Bis(2-chloroisopropyl)ether	119.6	50	200	0	59.8	25-130	131.7	9.63	30		
Bis(2-ethylhexyl)phthalate	153.1	50	200	0	76.6	40-125	162.4	5.9	30		
Butyl benzyl phthalate	150.1	50	200	0	75	45-115	155.5	3.53	30		
Carbazole	160.3	100	200	0	80.2	50-150	176.4	9.56	30		
Chrysene	150.8	50	200	0	75.4	55-110	158.9	5.23	30		
Dibenzo(a,h)anthracene	193	50	200	0	96.5	40-125	201.1	4.11	30		
Dibenzofuran	133.2	50	200	0	66.6	55-105	143.7	7.58	30		
Diethyl phthalate	148.5	200	200	5.5	71.5	40-120	158.1	0	30	J	
Dimethyl phthalate	134.5	200	200	0	67.2	25-125	144.2	0	30	J	
Di-n-butyl phthalate	163.5	50	200	0	81.8	55-115	180.9	10.1	30		

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: 53069		Instrument ID SVMS7		Method: SW8270						
Di-n-octyl phthalate	184.4	50	200	0	92.2	35-135	194.4	5.28	30	
Fluoranthene	160.7	50	200	0	80.4	55-115	176.7	9.48	30	
Fluorene	140.1	50	200	0	70	50-110	151.7	7.95	30	
Hexachlorobenzene	151	50	200	0	75.5	50-110	164	8.25	30	
Hexachlorobutadiene	137.7	50	200	0	68.8	25-105	150.9	9.15	30	
Hexachlorocyclopentadiene	109.7	200	200	0	54.8	25-105	119.1	0	30	J
Hexachloroethane	146.1	50	200	0	73	30-95	154.4	5.52	30	
Indeno(1,2,3-cd)pyrene	184.7	50	200	0	92.4	45-125	192.2	3.98	30	
Isophorone	124.6	50	200	0	62.3	50-110	135.3	8.23	30	
Naphthalene	132.6	50	200	7	62.8	40-100	146	9.62	30	
Nitrobenzene	131.3	50	200	0	65.6	45-110	138.9	5.63	30	
N-Nitrosodi-n-propylamine	122.3	50	200	0	61.2	35-130	129.7	5.87	30	
N-Nitrosodiphenylamine	154.5	50	200	0	77.2	50-110	163.6	5.72	30	
Pentachlorophenol	287.6	200	200	0	144	40-115	287.2	0.139	30	S
Phenanthrene	140.6	50	200	10.2	65.2	50-115	148.7	5.6	30	
Phenol	58.9	50	200	0	29.4	12-43	58.5	0.681	30	
Pyrene	148.1	50	200	0	74	50-130	154.9	4.49	30	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>418.4</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>83.7</i>	<i>38-115</i>	<i>430.1</i>	<i>2.76</i>	<i>40</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>301.6</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>60.3</i>	<i>32-100</i>	<i>319.4</i>	<i>5.73</i>	<i>40</i>	
<i>Surr: 2-Fluorophenol</i>	<i>215.8</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>43.2</i>	<i>22-59</i>	<i>211.6</i>	<i>1.97</i>	<i>40</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>396.7</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>79.3</i>	<i>23-112</i>	<i>401.7</i>	<i>1.25</i>	<i>40</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>297.3</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>59.5</i>	<i>31-93</i>	<i>321.1</i>	<i>7.7</i>	<i>40</i>	
<i>Surr: Phenol-d6</i>	<i>127.8</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>25.6</i>	<i>13-36</i>	<i>123.5</i>	<i>3.42</i>	<i>40</i>	

The following samples were analyzed in this batch:

1311287-54B	1311287-55A	1311287-56B
1311287-58C	1311287-59B	1311287-60C
1311287-62B	1311287-66C	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53070** Instrument ID **SVMS7** Method: **E625**

MBLK		Sample ID: SBLKW1-53070-53070				Units: µg/L		Analysis Date: 11/08/13 09:19 AM			
Client ID:		Run ID: SVMS7_131108A				SeqNo: 2529353		Prep Date: 11/07/13		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
2,4,5-Trichlorophenol	U	5.0									
2,4,6-Trichlorophenol	U	5.0									
2,4-Dichlorophenol	U	10									
2,4-Dimethylphenol	U	5.0									
2,4-Dinitrophenol	U	20									
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-Nitrophenol	U	5.0									
3,3'-Dichlorobenzidine	U	20									
4,6-Dinitro-2-methylphenol	U	20									
4-Bromophenyl phenyl ether	U	5.0									
4-Chloro-3-methylphenol	U	5.0									
4-Chloroaniline	U	20									
4-Chlorophenyl phenyl ether	U	5.0									
4-Methylphenol	U	5.0									
4-Nitrophenol	U	20									
Acenaphthene	U	5.0									
Acenaphthylene	U	5.0									
Acetophenone	U	10									
Anthracene	U	5.0									
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									
Carbazole	U	10									
Chrysene	U	5.0									
Dibenzo(a,h)anthracene	U	5.0									
Dibenzofuran	U	5.0									
Diethyl phthalate	U	20									
Dimethyl phthalate	U	20									
Di-n-butyl phthalate	U	5.0									
Di-n-octyl phthalate	U	5.0									
Fluoranthene	U	5.0									

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: 53070	Instrument ID SVMS7	Method: E625						
Fluorene	U	5.0						
Hexachlorobenzene	U	5.0						
Hexachlorobutadiene	U	5.0						
Hexachlorocyclopentadiene	U	20						
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	20						
Phenanthrene	U	5.0						
Phenol	U	5.0						
Pyrene	U	5.0						
Surr: 2,4,6-Tribromophenol	33.02	0	50	0	66	38-115	0	
Surr: 2-Fluorobiphenyl	30.48	0	50	0	61	32-100	0	
Surr: 2-Fluorophenol	21.65	0	50	0	43.3	22-59	0	
Surr: 4-Terphenyl-d14	43.59	0	50	0	87.2	23-112	0	
Surr: Nitrobenzene-d5	28	0	50	0	56	31-93	0	
Surr: Phenol-d6	11.16	0	50	0	22.3	13-36	0	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53070** Instrument ID **SVMS7** Method: **E625**

LCS				Sample ID: SLCSW1-53070-53070			Units: µg/L		Analysis Date: 11/08/13 08:34 AM	
Client ID:				Run ID: SVMS7_131108A			SeqNo: 2529352		Prep Date: 11/07/13	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	13.5	5.0	20	0	67.5	50-110	0			
2,4,6-Trichlorophenol	12.51	5.0	20	0	62.6	50-115	0			
2,4-Dichlorophenol	12.89	10	20	0	64.4	50-105	0			
2,4-Dimethylphenol	10.89	5.0	20	0	54.4	30-110	0			
2,4-Dinitrophenol	9.4	20	20	0	47	15-140	0			J
2,4-Dinitrotoluene	14.78	5.0	20	0	73.9	50-120	0			
2,6-Dinitrotoluene	15.21	5.0	20	0	76	50-115	0			
2-Chloronaphthalene	13.67	5.0	20	0	68.4	50-105	0			
2-Chlorophenol	12.43	5.0	20	0	62.2	35-105	0			
2-Methylnaphthalene	13.04	5.0	20	0	65.2	45-105	0			
2-Nitrophenol	13.39	5.0	20	0	67	40-115	0			
4,6-Dinitro-2-methylphenol	15.02	20	20	0	75.1	40-130	0			J
4-Bromophenyl phenyl ether	15.33	5.0	20	0	76.6	50-115	0			
4-Chloro-3-methylphenol	12.48	5.0	20	0	62.4	45-110	0			
4-Chloroaniline	13.03	20	20	0	65.2	15-110	0			J
4-Chlorophenyl phenyl ether	12.59	5.0	20	0	63	50-110	0			
4-Methylphenol	7.98	5.0	20	0	39.9	30-110	0			
4-Nitrophenol	5.69	20	20	0	28.4	1-58	0			J
Acenaphthene	13	5.0	20	0	65	45-110	0			
Acenaphthylene	12.99	5.0	20	0	65	50-105	0			
Anthracene	13.81	5.0	20	0	69	55-110	0			
Benzo(a)anthracene	14.51	5.0	20	0	72.6	55-110	0			
Benzo(a)pyrene	16.24	5.0	20	0	81.2	55-110	0			
Benzo(b)fluoranthene	16	5.0	20	0	80	45-120	0			
Benzo(g,h,i)perylene	21.32	5.0	20	0	107	40-125	0			
Benzo(k)fluoranthene	16.21	5.0	20	0	81	45-125	0			
Bis(2-chloroethoxy)methane	13.78	5.0	20	0	68.9	45-105	0			
Bis(2-chloroethyl)ether	16.24	5.0	20	0	81.2	35-110	0			
Bis(2-chloroisopropyl)ether	12.78	5.0	20	0	63.9	25-130	0			
Bis(2-ethylhexyl)phthalate	14.58	5.0	20	0	72.9	40-125	0			
Butyl benzyl phthalate	13.63	5.0	20	0	68.2	45-115	0			
Carbazole	15.76	10	20	0	78.8	50-130	0			
Chrysene	16.34	5.0	20	0	81.7	55-110	0			
Dibenzo(a,h)anthracene	20.76	5.0	20	0	104	40-125	0			
Diethyl phthalate	14.43	20	20	0	72.2	40-120	0			J
Dimethyl phthalate	13.29	20	20	0	66.4	25-125	0			J
Di-n-butyl phthalate	16.12	5.0	20	0	80.6	55-115	0			
Di-n-octyl phthalate	17.34	5.0	20	0	86.7	35-135	0			
Fluoranthene	15.76	5.0	20	0	78.8	55-115	0			
Fluorene	13.47	5.0	20	0	67.4	50-110	0			
Hexachlorobenzene	15.71	5.0	20	0	78.6	50-110	0			
Hexachlorobutadiene	13.56	5.0	20	0	67.8	25-105	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: 53070	Instrument ID SVMS7			Method: E625				
Hexachlorocyclopentadiene	9.22	20	20	0	46.1	25-105	0	J
Hexachloroethane	12.57	5.0	20	0	62.8	30-95	0	
Indeno(1,2,3-cd)pyrene	18.27	5.0	20	0	91.4	45-125	0	
Isophorone	13.2	5.0	20	0	66	50-110	0	
Naphthalene	13.17	5.0	20	0	65.8	40-100	0	
Nitrobenzene	13.82	5.0	20	0	69.1	45-110	0	
N-Nitrosodi-n-propylamine	12.85	5.0	20	0	64.2	35-130	0	
N-Nitrosodiphenylamine	15.18	5.0	20	0	75.9	50-110	0	
Pentachlorophenol	12.07	20	20	0	60.4	40-115	0	J
Phenanthrene	13.94	5.0	20	0	69.7	50-115	0	
Phenol	5.48	5.0	20	0	27.4	12-43	0	
Pyrene	15.29	5.0	20	0	76.4	50-130	0	
Surr: 2,4,6-Tribromophenol	37.56	0	50	0	75.1	38-115	0	
Surr: 2-Fluorobiphenyl	32.01	0	50	0	64	32-100	0	
Surr: 2-Fluorophenol	19.12	0	50	0	38.2	22-59	0	
Surr: 4-Terphenyl-d14	39.45	0	50	0	78.9	23-112	0	
Surr: Nitrobenzene-d5	31.25	0	50	0	62.5	31-93	0	
Surr: Phenol-d6	11.81	0	50	0	23.6	13-36	0	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53070** Instrument ID **SVMS7** Method: **E625**

MS				Sample ID: 1311287-54B MS			Units: µg/L		Analysis Date: 11/08/13 10:37 AM	
Client ID: WG-17360-110513-EB-054				Run ID: SVMS7_131108A			SeqNo: 2534459		Prep Date: 11/07/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	160.2	50	200	0	80.1	50-110	0			
2,4,6-Trichlorophenol	144.5	50	200	0	72.2	50-115	0			
2,4-Dichlorophenol	136.6	100	200	0	68.3	50-105	0			
2,4-Dimethylphenol	129.2	50	200	0	64.6	30-110	0			
2,4-Dinitrophenol	187.6	200	200	0	93.8	15-140	0			J
2,4-Dinitrotoluene	162.3	50	200	0	81.2	50-120	0			
2,6-Dinitrotoluene	160.3	50	200	0	80.2	50-115	0			
2-Chloronaphthalene	140	50	200	0	70	50-105	0			
2-Chlorophenol	132.9	50	200	0	66.4	35-105	0			
2-Methylnaphthalene	135.2	50	200	0	67.6	45-105	0			
2-Nitrophenol	139	50	200	0	69.5	40-115	0			
4,6-Dinitro-2-methylphenol	184.3	200	200	0	92.2	40-130	0			J
4-Bromophenyl phenyl ether	168.7	50	200	0	84.4	50-115	0			
4-Chloro-3-methylphenol	150.7	50	200	0	75.4	45-110	0			
4-Chloroaniline	125.3	200	200	0	62.6	15-110	0			J
4-Chlorophenyl phenyl ether	138.6	50	200	0	69.3	50-110	0			
4-Methylphenol	84.2	50	200	0	42.1	30-110	0			
4-Nitrophenol	91.8	200	200	0	45.9	1-58	0			J
Acenaphthene	135	50	200	0	67.5	45-110	0			
Acenaphthylene	128.2	50	200	0	64.1	50-105	0			
Anthracene	150.6	50	200	8.3	71.2	55-110	0			
Benzo(a)anthracene	158.6	50	200	0	79.3	55-110	0			
Benzo(a)pyrene	171	50	200	0	85.5	55-110	0			
Benzo(b)fluoranthene	165.7	50	200	0	82.8	45-120	0			
Benzo(g,h,i)perylene	214.1	50	200	0	107	40-125	0			
Benzo(k)fluoranthene	160.5	50	200	0	80.2	45-125	0			
Bis(2-chloroethoxy)methane	145.5	50	200	0	72.8	45-105	0			
Bis(2-chloroethyl)ether	191.9	50	200	0	96	35-110	0			
Bis(2-chloroisopropyl)ether	131.7	50	200	0	65.8	25-130	0			
Bis(2-ethylhexyl)phthalate	162.4	50	200	0	81.2	40-125	0			
Butyl benzyl phthalate	155.5	50	200	0	77.8	45-115	0			
Carbazole	176.4	100	200	0	88.2	50-130	0			
Chrysene	158.9	50	200	0	79.4	55-110	0			
Dibenzo(a,h)anthracene	201.1	50	200	0	101	40-125	0			
Diethyl phthalate	158.1	200	200	5.5	76.3	40-120	0			J
Dimethyl phthalate	144.2	200	200	0	72.1	25-125	0			J
Di-n-butyl phthalate	180.9	50	200	0	90.4	55-115	0			
Di-n-octyl phthalate	194.4	50	200	0	97.2	35-135	0			
Fluoranthene	176.7	50	200	0	88.4	55-115	0			
Fluorene	151.7	50	200	0	75.8	50-110	0			
Hexachlorobenzene	164	50	200	0	82	50-110	0			
Hexachlorobutadiene	150.9	50	200	0	75.4	25-105	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: 53070		Instrument ID SVMS7		Method: E625				
Hexachlorocyclopentadiene	119.1	200	200	0	59.6	25-105	0	J
Hexachloroethane	154.4	50	200	0	77.2	30-95	0	
Indeno(1,2,3-cd)pyrene	192.2	50	200	0	96.1	45-125	0	
Isophorone	135.3	50	200	0	67.6	50-110	0	
Naphthalene	146	50	200	7	69.5	40-100	0	
Nitrobenzene	138.9	50	200	0	69.4	45-110	0	
N-Nitrosodi-n-propylamine	129.7	50	200	0	64.8	35-130	0	
N-Nitrosodiphenylamine	163.6	50	200	0	81.8	50-110	0	
Pentachlorophenol	287.2	200	200	0	144	40-115	0	S
Phenanthrene	148.7	50	200	10.2	69.2	50-115	0	
Phenol	58.5	50	200	0	29.2	12-43	0	
Pyrene	154.9	50	200	0	77.4	50-130	0	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>430.1</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>86</i>	<i>38-115</i>	<i>0</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>319.4</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>63.9</i>	<i>32-100</i>	<i>0</i>	
<i>Surr: 2-Fluorophenol</i>	<i>211.6</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>42.3</i>	<i>22-59</i>	<i>0</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>401.7</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>80.3</i>	<i>23-112</i>	<i>0</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>321.1</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>64.2</i>	<i>31-93</i>	<i>0</i>	
<i>Surr: Phenol-d6</i>	<i>123.5</i>	<i>0</i>	<i>500</i>	<i>0</i>	<i>24.7</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: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **53070** Instrument ID **SVMS7** Method: **E625**

MSD				Sample ID: 1311287-54B MSD			Units: µg/L		Analysis Date: 11/08/13 10:59 AM	
Client ID: WG-17360-110513-EB-054				Run ID: SVMS7_131108A			SeqNo: 2534460		Prep Date: 11/07/13	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	151.7	50	200	0	75.8	50-110	160.2	5.45	30	
2,4,6-Trichlorophenol	136.8	50	200	0	68.4	50-115	144.5	5.47	30	
2,4-Dichlorophenol	129	100	200	0	64.5	50-105	136.6	5.72	30	
2,4-Dimethylphenol	119.8	50	200	0	59.9	30-110	129.2	7.55	30	
2,4-Dinitrophenol	186.1	200	200	0	93	15-140	187.6	0	30	J
2,4-Dinitrotoluene	149.8	50	200	0	74.9	50-120	162.3	8.01	30	
2,6-Dinitrotoluene	149.6	50	200	0	74.8	50-115	160.3	6.91	30	
2-Chloronaphthalene	128.8	50	200	0	64.4	50-105	140	8.33	30	
2-Chlorophenol	125.6	50	200	0	62.8	35-105	132.9	5.65	30	
2-Methylnaphthalene	125.2	50	200	0	62.6	45-105	135.2	7.68	30	
2-Nitrophenol	130	50	200	0	65	40-115	139	6.69	30	
4,6-Dinitro-2-methylphenol	179.1	200	200	0	89.6	40-130	184.3	0	30	J
4-Bromophenyl phenyl ether	156.3	50	200	0	78.2	50-115	168.7	7.63	30	
4-Chloro-3-methylphenol	143.2	50	200	0	71.6	45-110	150.7	5.1	30	
4-Chloroaniline	127.8	200	200	0	63.9	15-110	125.3	0	30	J
4-Chlorophenyl phenyl ether	129.5	50	200	0	64.8	50-110	138.6	6.79	30	
4-Methylphenol	84.5	50	200	0	42.2	30-110	84.2	0.356	30	
4-Nitrophenol	82	200	200	0	41	1-58	91.8	0	30	J
Acenaphthene	123.3	50	200	0	61.6	45-110	135	9.06	30	
Acenaphthylene	119.7	50	200	0	59.8	50-105	128.2	6.86	30	
Anthracene	139.8	50	200	8.3	65.8	55-110	150.6	7.44	30	
Benzo(a)anthracene	149.2	50	200	0	74.6	55-110	158.6	6.11	30	
Benzo(a)pyrene	159.6	50	200	0	79.8	55-110	171	6.9	30	
Benzo(b)fluoranthene	155.2	50	200	0	77.6	45-120	165.7	6.54	30	
Benzo(g,h,i)perylene	206	50	200	0	103	40-125	214.1	3.86	30	
Benzo(k)fluoranthene	148.5	50	200	0	74.2	45-125	160.5	7.77	30	
Bis(2-chloroethoxy)methane	128.3	50	200	0	64.2	45-105	145.5	12.6	30	
Bis(2-chloroethyl)ether	161.7	50	200	0	80.8	35-110	191.9	17.1	30	
Bis(2-chloroisopropyl)ether	119.6	50	200	0	59.8	25-130	131.7	9.63	30	
Bis(2-ethylhexyl)phthalate	153.1	50	200	0	76.6	40-125	162.4	5.9	30	
Butyl benzyl phthalate	150.1	50	200	0	75	45-115	155.5	3.53	30	
Carbazole	160.3	100	200	0	80.2	50-130	176.4	9.56	30	
Chrysene	150.8	50	200	0	75.4	55-110	158.9	5.23	30	
Dibenzo(a,h)anthracene	193	50	200	0	96.5	40-125	201.1	4.11	30	
Diethyl phthalate	148.5	200	200	5.5	71.5	40-120	158.1	0	30	J
Dimethyl phthalate	134.5	200	200	0	67.2	25-125	144.2	0	30	J
Di-n-butyl phthalate	163.5	50	200	0	81.8	55-115	180.9	10.1	30	
Di-n-octyl phthalate	184.4	50	200	0	92.2	35-135	194.4	5.28	30	
Fluoranthene	160.7	50	200	0	80.4	55-115	176.7	9.48	30	
Fluorene	140.1	50	200	0	70	50-110	151.7	7.95	30	
Hexachlorobenzene	151	50	200	0	75.5	50-110	164	8.25	30	
Hexachlorobutadiene	137.7	50	200	0	68.8	25-105	150.9	9.15	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: 53070		Instrument ID SVMS7		Method: E625						
Hexachlorocyclopentadiene	109.7	200	200	0	54.8	25-105	119.1	0	30	J
Hexachloroethane	146.1	50	200	0	73	30-95	154.4	5.52	30	
Indeno(1,2,3-cd)pyrene	184.7	50	200	0	92.4	45-125	192.2	3.98	30	
Isophorone	124.6	50	200	0	62.3	50-110	135.3	8.23	30	
Naphthalene	132.6	50	200	7	62.8	40-100	146	9.62	30	
Nitrobenzene	131.3	50	200	0	65.6	45-110	138.9	5.63	30	
N-Nitrosodi-n-propylamine	122.3	50	200	0	61.2	35-130	129.7	5.87	30	
N-Nitrosodiphenylamine	154.5	50	200	0	77.2	50-110	163.6	5.72	30	
Pentachlorophenol	287.6	200	200	0	144	40-115	287.2	0.139	30	S
Phenanthrene	140.6	50	200	10.2	65.2	50-115	148.7	5.6	30	
Phenol	58.9	50	200	0	29.4	12-43	58.5	0.681	30	
Pyrene	148.1	50	200	0	74	50-130	154.9	4.49	30	
<i>Surr: 2,4,6-Tribromophenol</i>	418.4	0	500	0	83.7	38-115	430.1	2.76	40	
<i>Surr: 2-Fluorobiphenyl</i>	301.6	0	500	0	60.3	32-100	319.4	5.73	40	
<i>Surr: 2-Fluorophenol</i>	215.8	0	500	0	43.2	22-59	211.6	1.97	40	
<i>Surr: 4-Terphenyl-d14</i>	396.7	0	500	0	79.3	23-112	401.7	1.25	40	
<i>Surr: Nitrobenzene-d5</i>	297.3	0	500	0	59.5	31-93	321.1	7.7	40	
<i>Surr: Phenol-d6</i>	127.8	0	500	0	25.6	13-36	123.5	3.42	40	

The following samples were analyzed in this batch:

1311287-54B

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130100** Instrument ID **VMS8** Method: **SW8260**

MBLK		Sample ID: VBLKW2-131107-R130100				Units: µg/L		Analysis Date: 11/08/13 02:03 AM		
Client ID:		Run ID: VMS8_131107A				SeqNo: 2528885		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	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
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	5.0								
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	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	2.0								
Toluene	U	1.0								

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130100	Instrument ID VMS8	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>19.18</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.9</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.44</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.2</i>	<i>75-120</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>19.38</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.9</i>	<i>85-120</i>	<i>0</i>	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130100** Instrument ID **VMS8** Method: **SW8260**

LCS		Sample ID: VLCSW1-131107-R130100				Units: µg/L		Analysis Date: 11/08/13 12:50 PM		
Client ID:		Run ID: VMS8_131107A				SeqNo: 2528913		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	20.28	1.0	20	0	101	65-130	0			
1,1,2,2-Tetrachloroethane	17.08	1.0	20	0	85.4	65-130	0			
1,1,2-Trichloroethane	17.04	1.0	20	0	85.2	75-125	0			
1,1-Dichloroethane	18.84	1.0	20	0	94.2	70-135	0			
1,1-Dichloroethene	20.95	1.0	20	0	105	70-130	0			
1,2,4-Trichlorobenzene	17.79	1.0	20	0	89	65-135	0			
1,2-Dibromo-3-chloropropane	15.73	1.0	20	0	78.6	50-130	0			
1,2-Dibromoethane	17.87	1.0	20	0	89.4	80-120	0			
1,2-Dichlorobenzene	16.96	1.0	20	0	84.8	70-120	0			
1,2-Dichloroethane	17.37	1.0	20	0	86.8	70-130	0			
1,2-Dichloropropane	17.94	2.0	20	0	89.7	75-125	0			
1,3-Dichlorobenzene	17.82	2.0	20	0	89.1	75-125	0			
1,4-Dichlorobenzene	17.43	2.0	20	0	87.2	75-125	0			
2-Butanone	17.94	5.0	20	0	89.7	30-150	0			
2-Hexanone	16.58	5.0	20	0	82.9	55-130	0			
4-Methyl-2-pentanone	21.94	5.0	20	0	110	60-135	0			
Acetone	16.12	20	20	0	80.6	40-140	0			J
Benzene	18.44	1.0	20	0	92.2	80-120	0			
Bromodichloromethane	18	1.0	20	0	90	75-120	0			
Bromoform	16.38	1.0	20	0	81.9	70-130	0			
Bromomethane	20.4	1.0	20	0	102	30-145	0			
Carbon disulfide	23.35	2.5	20	0	117	35-165	0			
Carbon tetrachloride	20.61	1.0	20	0	103	65-140	0			
Chlorobenzene	17.77	1.0	20	0	88.8	80-120	0			
Chloroethane	19.34	1.0	20	0	96.7	60-135	0			
Chloroform	18.88	1.0	20	0	94.4	65-135	0			
Chloromethane	19.55	1.0	20	0	97.8	70-125	0			
cis-1,2-Dichloroethene	18.54	1.0	20	0	92.7	70-125	0			
cis-1,3-Dichloropropene	17.73	1.0	20	0	88.6	70-130	0			
Dibromochloromethane	16.61	1.0	20	0	83	60-135	0			
Dichlorodifluoromethane	16.54	1.0	20	0	82.7	30-155	0			
Ethylbenzene	18.53	1.0	20	0	92.6	75-125	0			
Isopropylbenzene	18.91	1.0	20	0	94.6	75-125	0			
Methyl tert-butyl ether	19.47	5.0	20	0	97.4	65-125	0			
Methylene chloride	18.95	5.0	20	0	94.8	55-140	0			
Styrene	18.04	1.0	20	0	90.2	65-135	0			
Tetrachloroethene	19.43	2.0	20	0	97.2	45-150	0			
Toluene	17.93	1.0	20	0	89.6	75-120	0			
trans-1,2-Dichloroethene	20.49	1.0	20	0	102	60-140	0			
trans-1,3-Dichloropropene	17.38	1.0	20	0	86.9	55-140	0			
Trichloroethene	18.55	1.0	20	0	92.8	70-125	0			
Trichlorofluoromethane	20.2	1.0	20	0	101	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130100	Instrument ID VMS8		Method: SW8260				
Vinyl chloride	18.83	1.0	20	0	94.2	50-145	0
Xylenes, Total	55.39	3.0	60	0	92.3	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.04</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.2</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.09</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.75</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.8</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.78</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.9</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130100** Instrument ID **VMS8** Method: **SW8260**

MS				Sample ID: 1311287-05A MS			Units: µg/L		Analysis Date: 11/08/13 09:44 AM	
Client ID: WG-17360-102813-MR-005				Run ID: VMS8_131107A			SeqNo: 2528909		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	22.87	1.0	20	0	114	65-130	0			
1,1,2,2-Tetrachloroethane	16.12	1.0	20	0	80.6	65-130	0			
1,1,2-Trichloroethane	16.92	1.0	20	0	84.6	75-125	0			
1,1-Dichloroethane	20.16	1.0	20	0	101	70-135	0			
1,1-Dichloroethene	23.62	1.0	20	0	118	70-130	0			
1,2,4-Trichlorobenzene	14.08	1.0	20	0	70.4	65-135	0			
1,2-Dibromo-3-chloropropane	13.64	1.0	20	0	68.2	50-130	0			
1,2-Dibromoethane	17.73	1.0	20	0	88.6	80-120	0			
1,2-Dichlorobenzene	16.77	1.0	20	0	83.8	70-120	0			
1,2-Dichloroethane	18.09	1.0	20	0	90.4	70-130	0			
1,2-Dichloropropane	18.77	2.0	20	0	93.8	75-125	0			
1,3-Dichlorobenzene	17.45	2.0	20	0	87.2	75-125	0			
1,4-Dichlorobenzene	17.02	2.0	20	0	85.1	75-125	0			
2-Butanone	16.79	5.0	20	0	84	30-150	0			
2-Hexanone	15.25	5.0	20	0	76.2	55-130	0			
4-Methyl-2-pentanone	20.67	5.0	20	0	103	60-135	0			
Acetone	17.93	20	20	0	89.6	40-140	0			J
Benzene	20.04	1.0	20	0	100	80-120	0			
Bromodichloromethane	18.87	1.0	20	0	94.4	75-120	0			
Bromoform	16.1	1.0	20	0	80.5	70-130	0			
Bromomethane	24.91	1.0	20	0	125	30-145	0			
Carbon disulfide	25.96	2.5	20	0	130	35-165	0			
Carbon tetrachloride	22.89	1.0	20	0	114	65-140	0			
Chlorobenzene	18.24	1.0	20	0	91.2	80-120	0			
Chloroethane	21.81	1.0	20	0	109	60-135	0			
Chloroform	44.86	1.0	20	25.12	98.7	65-135	0			
Chloromethane	21.67	1.0	20	0	108	70-125	0			
cis-1,2-Dichloroethene	19.43	1.0	20	0	97.2	70-125	0			
cis-1,3-Dichloropropene	18.08	1.0	20	0	90.4	70-130	0			
Dibromochloromethane	16.73	1.0	20	0	83.6	60-135	0			
Dichlorodifluoromethane	18.69	1.0	20	0	93.4	30-155	0			
Ethylbenzene	19.41	1.0	20	0	97	75-125	0			
Isopropylbenzene	19.88	1.0	20	0	99.4	75-125	0			
Methyl tert-butyl ether	19.81	5.0	20	0	99	65-125	0			
Methylene chloride	20.6	5.0	20	0	103	55-140	0			
Styrene	17.65	1.0	20	0	88.2	65-135	0			
Tetrachloroethene	20.41	2.0	20	0	102	45-150	0			
Toluene	18.78	1.0	20	0	93.9	75-120	0			
trans-1,2-Dichloroethene	22.4	1.0	20	0	112	60-140	0			
trans-1,3-Dichloropropene	17.21	1.0	20	0	86	55-140	0			
Trichloroethene	20.49	1.0	20	0	102	70-125	0			
Trichlorofluoromethane	23.08	1.0	20	0	115	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130100	Instrument ID VMS8		Method: SW8260				
Vinyl chloride	20.54	1.0	20	0	103	50-145	0
Xylenes, Total	57.91	3.0	60	0	96.5	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	19.28	0	20	0	96.4	70-120	0
<i>Surr: 4-Bromofluorobenzene</i>	20.18	0	20	0	101	75-120	0
<i>Surr: Dibromofluoromethane</i>	20	0	20	0	100	85-115	0
<i>Surr: Toluene-d8</i>	19.62	0	20	0	98.1	85-120	0

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130100** Instrument ID **VMS8** Method: **SW8260**

MS				Sample ID: 1311191-02A MS			Units: µg/L		Analysis Date: 11/08/13 10:32 AM	
Client ID:				Run ID: VMS8_131107A			SeqNo: 2528911		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	22.34	1.0	20	0	112	65-130	0			
1,1,2,2-Tetrachloroethane	17.22	1.0	20	0	86.1	65-130	0			
1,1,2-Trichloroethane	17.3	1.0	20	0	86.5	75-125	0			
1,1-Dichloroethane	19.85	1.0	20	0	99.2	70-135	0			
1,1-Dichloroethene	23.37	1.0	20	0	117	70-130	0			
1,2,4-Trichlorobenzene	16.5	1.0	20	0	82.5	65-135	0			
1,2-Dibromo-3-chloropropane	14.9	1.0	20	0	74.5	50-130	0			
1,2-Dibromoethane	17.94	1.0	20	0	89.7	80-120	0			
1,2-Dichlorobenzene	17.22	1.0	20	0	86.1	70-120	0			
1,2-Dichloroethane	17.57	1.0	20	0	87.8	70-130	0			
1,2-Dichloropropane	18.35	2.0	20	0	91.8	75-125	0			
1,3-Dichlorobenzene	17.7	2.0	20	0	88.5	75-125	0			
1,4-Dichlorobenzene	16.93	2.0	20	0	84.6	75-125	0			
2-Butanone	17.88	5.0	20	0	89.4	30-150	0			
2-Hexanone	17.26	5.0	20	0	86.3	55-130	0			
4-Methyl-2-pentanone	23.22	5.0	20	0	116	60-135	0			
Acetone	19.72	20	20	0	98.6	40-140	0			J
Benzene	19.54	1.0	20	0	97.7	80-120	0			
Bromodichloromethane	18.57	1.0	20	0	92.8	75-120	0			
Bromoform	16.23	1.0	20	0	81.2	70-130	0			
Bromomethane	20.83	1.0	20	0	104	30-145	0			
Carbon disulfide	25.42	2.5	20	0	127	35-165	0			
Carbon tetrachloride	22.57	1.0	20	0	113	65-140	0			
Chlorobenzene	18.44	1.0	20	0	92.2	80-120	0			
Chloroethane	21.06	1.0	20	0	105	60-135	0			
Chloroform	19.96	1.0	20	0	99.8	65-135	0			
Chloromethane	21.12	1.0	20	0	106	70-125	0			
cis-1,2-Dichloroethene	19.38	1.0	20	0	96.9	70-125	0			
cis-1,3-Dichloropropene	17.34	1.0	20	0	86.7	70-130	0			
Dibromochloromethane	16.89	1.0	20	0	84.4	60-135	0			
Dichlorodifluoromethane	17.96	1.0	20	0	89.8	30-155	0			
Ethylbenzene	19.64	1.0	20	0	98.2	75-125	0			
Isopropylbenzene	19.94	1.0	20	0	99.7	75-125	0			
Methyl tert-butyl ether	19.23	5.0	20	0	96.2	65-125	0			
Methylene chloride	19.78	5.0	20	0	98.9	55-140	0			
Styrene	18.39	1.0	20	0	92	65-135	0			
Tetrachloroethene	20.47	2.0	20	0	102	45-150	0			
Toluene	19.51	1.0	20	0.46	95.2	75-120	0			
trans-1,2-Dichloroethene	22.21	1.0	20	0	111	60-140	0			
trans-1,3-Dichloropropene	17.42	1.0	20	0	87.1	55-140	0			
Trichloroethene	22.24	1.0	20	2.12	101	70-125	0			
Trichlorofluoromethane	22.58	1.0	20	0	113	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130100	Instrument ID VMS8		Method: SW8260				
Vinyl chloride	20.63	1.0	20	0	103	50-145	0
Xylenes, Total	57.93	3.0	60	0	96.6	75-130	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>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.9</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.5</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.63</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>20.13</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130100** Instrument ID **VMS8** Method: **SW8260**

MSD				Sample ID: 1311287-05A MSD			Units: µg/L		Analysis Date: 11/08/13 10:08 AM	
Client ID: WG-17360-102813-MR-005				Run ID: VMS8_131107A			SeqNo: 2528910		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	65-130	22.87	3.97	30	
1,1,2,2-Tetrachloroethane	16.96	1.0	20	0	84.8	65-130	16.12	5.08	30	
1,1,2-Trichloroethane	16.82	1.0	20	0	84.1	75-125	16.92	0.593	30	
1,1-Dichloroethane	19.63	1.0	20	0	98.2	70-135	20.16	2.66	30	
1,1-Dichloroethene	22.94	1.0	20	0	115	70-130	23.62	2.92	30	
1,2,4-Trichlorobenzene	15.73	1.0	20	0	78.6	65-135	14.08	11.1	30	
1,2-Dibromo-3-chloropropane	14.29	1.0	20	0	71.4	50-130	13.64	4.65	30	
1,2-Dibromoethane	17.7	1.0	20	0	88.5	80-120	17.73	0.169	30	
1,2-Dichlorobenzene	16.93	1.0	20	0	84.6	70-120	16.77	0.95	30	
1,2-Dichloroethane	17.54	1.0	20	0	87.7	70-130	18.09	3.09	30	
1,2-Dichloropropane	17.94	2.0	20	0	89.7	75-125	18.77	4.52	30	
1,3-Dichlorobenzene	17.56	2.0	20	0	87.8	75-125	17.45	0.628	30	
1,4-Dichlorobenzene	17.16	2.0	20	0	85.8	75-125	17.02	0.819	30	
2-Butanone	17.29	5.0	20	0	86.4	30-150	16.79	2.93	30	
2-Hexanone	16.5	5.0	20	0	82.5	55-130	15.25	7.87	30	
4-Methyl-2-pentanone	21.85	5.0	20	0	109	60-135	20.67	5.55	30	
Acetone	18.47	20	20	0	92.4	40-140	17.93	0	30	J
Benzene	19.37	1.0	20	0	96.8	80-120	20.04	3.4	30	
Bromodichloromethane	18.32	1.0	20	0	91.6	75-120	18.87	2.96	30	
Bromoform	15.86	1.0	20	0	79.3	70-130	16.1	1.5	30	
Bromomethane	17.84	1.0	20	0	89.2	30-145	24.91	33.1	30	R
Carbon disulfide	25.31	2.5	20	0	127	35-165	25.96	2.54	30	
Carbon tetrachloride	22.5	1.0	20	0	112	65-140	22.89	1.72	30	
Chlorobenzene	18.21	1.0	20	0	91	80-120	18.24	0.165	30	
Chloroethane	20.64	1.0	20	0	103	60-135	21.81	5.51	30	
Chloroform	43.48	1.0	20	25.12	91.8	65-135	44.86	3.12	30	
Chloromethane	20.87	1.0	20	0	104	70-125	21.67	3.76	30	
cis-1,2-Dichloroethene	18.8	1.0	20	0	94	70-125	19.43	3.3	30	
cis-1,3-Dichloropropene	17.13	1.0	20	0	85.6	70-130	18.08	5.4	30	
Dibromochloromethane	15.98	1.0	20	0	79.9	60-135	16.73	4.59	30	
Dichlorodifluoromethane	17.96	1.0	20	0	89.8	30-155	18.69	3.98	30	
Ethylbenzene	19.24	1.0	20	0	96.2	75-125	19.41	0.88	30	
Isopropylbenzene	19.99	1.0	20	0	100	75-125	19.88	0.552	30	
Methyl tert-butyl ether	19.28	5.0	20	0	96.4	65-125	19.81	2.71	30	
Methylene chloride	20.22	5.0	20	0	101	55-140	20.6	1.86	30	
Styrene	17.97	1.0	20	0	89.8	65-135	17.65	1.8	30	
Tetrachloroethene	20.25	2.0	20	0	101	45-150	20.41	0.787	30	
Toluene	18.43	1.0	20	0	92.2	75-120	18.78	1.88	30	
trans-1,2-Dichloroethene	21.87	1.0	20	0	109	60-140	22.4	2.39	30	
trans-1,3-Dichloropropene	16.69	1.0	20	0	83.4	55-140	17.21	3.07	30	
Trichloroethene	19.75	1.0	20	0	98.8	70-125	20.49	3.68	30	
Trichlorofluoromethane	22.32	1.0	20	0	112	60-145	23.08	3.35	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130100	Instrument ID VMS8			Method: SW8260					
Vinyl chloride	20.32	1.0	20	0	102	50-145	20.54	1.08	30
Xylenes, Total	57.08	3.0	60	0	95.1	75-130	57.91	1.44	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.04</i>	0	<i>20</i>	0	<i>95.2</i>	<i>70-120</i>	<i>19.28</i>	<i>1.25</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.55</i>	0	<i>20</i>	0	<i>103</i>	<i>75-120</i>	<i>20.18</i>	<i>1.82</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.81</i>	0	<i>20</i>	0	<i>99</i>	<i>85-115</i>	<i>20</i>	<i>0.955</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>19.71</i>	0	<i>20</i>	0	<i>98.6</i>	<i>85-120</i>	<i>19.62</i>	<i>0.458</i>	<i>30</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130100** Instrument ID **VMS8** Method: **SW8260**

MSD				Sample ID: 1311191-02A MSD		Units: µg/L		Analysis Date: 11/08/13 10:56 AM		
Client ID:		Run ID: VMS8_131107A			SeqNo: 2528912		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	22.42	1.0	20	0	112	65-130	22.34	0.357	30	
1,1,2,2-Tetrachloroethane	18.98	1.0	20	0	94.9	65-130	17.22	9.72	30	
1,1,2-Trichloroethane	17.75	1.0	20	0	88.8	75-125	17.3	2.57	30	
1,1-Dichloroethane	19.68	1.0	20	0	98.4	70-135	19.85	0.86	30	
1,1-Dichloroethene	22.79	1.0	20	0	114	70-130	23.37	2.51	30	
1,2,4-Trichlorobenzene	16.17	1.0	20	0	80.8	65-135	16.5	2.02	30	
1,2-Dibromo-3-chloropropane	17.51	1.0	20	0	87.6	50-130	14.9	16.1	30	
1,2-Dibromoethane	18.94	1.0	20	0	94.7	80-120	17.94	5.42	30	
1,2-Dichlorobenzene	16.98	1.0	20	0	84.9	70-120	17.22	1.4	30	
1,2-Dichloroethane	18.19	1.0	20	0	91	70-130	17.57	3.47	30	
1,2-Dichloropropane	18.55	2.0	20	0	92.8	75-125	18.35	1.08	30	
1,3-Dichlorobenzene	17.79	2.0	20	0	89	75-125	17.7	0.507	30	
1,4-Dichlorobenzene	17.27	2.0	20	0	86.4	75-125	16.93	1.99	30	
2-Butanone	20.9	5.0	20	0	104	30-150	17.88	15.6	30	
2-Hexanone	20.1	5.0	20	0	100	55-130	17.26	15.2	30	
4-Methyl-2-pentanone	26.99	5.0	20	0	135	60-135	23.22	15	30	
Acetone	23.35	20	20	0	117	40-140	19.72	16.9	30	
Benzene	19.82	1.0	20	0	99.1	80-120	19.54	1.42	30	
Bromodichloromethane	18.64	1.0	20	0	93.2	75-120	18.57	0.376	30	
Bromoform	17.43	1.0	20	0	87.2	70-130	16.23	7.13	30	
Bromomethane	19.5	1.0	20	0	97.5	30-145	20.83	6.6	30	
Carbon disulfide	25.3	2.5	20	0	126	35-165	25.42	0.473	30	
Carbon tetrachloride	22.7	1.0	20	0	114	65-140	22.57	0.574	30	
Chlorobenzene	18.4	1.0	20	0	92	80-120	18.44	0.217	30	
Chloroethane	21.06	1.0	20	0	105	60-135	21.06	0	30	
Chloroform	19.43	1.0	20	0	97.2	65-135	19.96	2.69	30	
Chloromethane	20.87	1.0	20	0	104	70-125	21.12	1.19	30	
cis-1,2-Dichloroethene	19.16	1.0	20	0	95.8	70-125	19.38	1.14	30	
cis-1,3-Dichloropropene	17.77	1.0	20	0	88.8	70-130	17.34	2.45	30	
Dibromochloromethane	16.9	1.0	20	0	84.5	60-135	16.89	0.0592	30	
Dichlorodifluoromethane	17.82	1.0	20	0	89.1	30-155	17.96	0.783	30	
Ethylbenzene	19.56	1.0	20	0	97.8	75-125	19.64	0.408	30	
Isopropylbenzene	19.98	1.0	20	0	99.9	75-125	19.94	0.2	30	
Methyl tert-butyl ether	20.28	5.0	20	0	101	65-125	19.23	5.32	30	
Methylene chloride	19.74	5.0	20	0	98.7	55-140	19.78	0.202	30	
Styrene	18.54	1.0	20	0	92.7	65-135	18.39	0.812	30	
Tetrachloroethene	20.3	2.0	20	0	102	45-150	20.47	0.834	30	
Toluene	19.58	1.0	20	0.46	95.6	75-120	19.51	0.358	30	
trans-1,2-Dichloroethene	21.94	1.0	20	0	110	60-140	22.21	1.22	30	
trans-1,3-Dichloropropene	17.51	1.0	20	0	87.6	55-140	17.42	0.515	30	
Trichloroethene	22.39	1.0	20	2.12	101	70-125	22.24	0.672	30	
Trichlorofluoromethane	22.46	1.0	20	0	112	60-145	22.58	0.533	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130100	Instrument ID VMS8			Method: SW8260					
Vinyl chloride	20.47	1.0	20	0	102	50-145	20.63	0.779	30
Xylenes, Total	58.02	3.0	60	0	96.7	75-130	57.93	0.155	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.53</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.6</i>	<i>70-120</i>	<i>18.68</i>	<i>4.45</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.2</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>19.9</i>	<i>1.5</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.88</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.4</i>	<i>85-115</i>	<i>19.63</i>	<i>1.27</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>19.93</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.6</i>	<i>85-120</i>	<i>20.13</i>	<i>0.999</i>	<i>30</i>

The following samples were analyzed in this batch:	1311287-01A	1311287-02A	1311287-03A
	1311287-04A	1311287-05A	1311287-06A
	1311287-07A		

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130254** Instrument ID **VMS8** Method: **SW8260**

MBLK		Sample ID: VLKW1-131111-R130254				Units: µg/L		Analysis Date: 11/11/13 02:14 PM		
Client ID:		Run ID: VMS8_131111A				SeqNo: 2533936		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	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
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	5.0								
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	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	2.0								
Toluene	U	1.0								

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130254		Instrument ID VMS8		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		18.36	0	20	0	91.8	70-120	0
Surr: 4-Bromofluorobenzene		19.58	0	20	0	97.9	75-120	0
Surr: Dibromofluoromethane		19.07	0	20	0	95.4	85-115	0
Surr: Toluene-d8		19.01	0	20	0	95	85-120	0

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130254** Instrument ID **VMS8** Method: **SW8260**

LCS				Sample ID: VLCSW1-131111-R130254			Units: µg/L		Analysis Date: 11/11/13 12:12 PM		
Client ID:		Run ID: VMS8_131111A			SeqNo: 2533935		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	23.4	1.0	20	0	117	65-130	0				
1,1,2,2-Tetrachloroethane	18.91	1.0	20	0	94.6	65-130	0				
1,1,2-Trichloroethane	19.28	1.0	20	0	96.4	75-125	0				
1,1-Dichloroethane	21.46	1.0	20	0	107	70-135	0				
1,1-Dichloroethene	23.93	1.0	20	0	120	70-130	0				
1,2,4-Trichlorobenzene	20.53	1.0	20	0	103	65-135	0				
1,2-Dibromo-3-chloropropane	18.8	1.0	20	0	94	50-130	0				
1,2-Dibromoethane	19.96	1.0	20	0	99.8	80-120	0				
1,2-Dichlorobenzene	19.49	1.0	20	0	97.4	70-120	0				
1,2-Dichloroethane	18.96	1.0	20	0	94.8	70-130	0				
1,2-Dichloropropane	21.15	2.0	20	0	106	75-125	0				
1,3-Dichlorobenzene	20.25	2.0	20	0	101	75-125	0				
1,4-Dichlorobenzene	19.89	2.0	20	0	99.4	75-125	0				
2-Butanone	20.69	5.0	20	0	103	30-150	0				
2-Hexanone	18.79	5.0	20	0	94	55-130	0				
4-Methyl-2-pentanone	25.24	5.0	20	0	126	60-135	0				
Acetone	20.91	20	20	0	105	40-140	0				
Benzene	21.58	1.0	20	0	108	80-120	0				
Bromodichloromethane	20.57	1.0	20	0	103	75-120	0				
Bromoform	19.03	1.0	20	0	95.2	70-130	0				
Bromomethane	19.66	1.0	20	0	98.3	30-145	0				
Carbon disulfide	28	2.5	20	0	140	35-165	0				
Carbon tetrachloride	23.78	1.0	20	0	119	65-140	0				
Chlorobenzene	19.83	1.0	20	0	99.2	80-120	0				
Chloroethane	24.11	1.0	20	0	121	60-135	0				
Chloroform	21.2	1.0	20	0	106	65-135	0				
Chloromethane	23.82	1.0	20	0	119	70-125	0				
cis-1,2-Dichloroethene	21.31	1.0	20	0	107	70-125	0				
cis-1,3-Dichloropropene	21.17	1.0	20	0	106	70-130	0				
Dibromochloromethane	18.82	1.0	20	0	94.1	60-135	0				
Dichlorodifluoromethane	19.76	1.0	20	0	98.8	30-155	0				
Ethylbenzene	21.09	1.0	20	0	105	75-125	0				
Isopropylbenzene	21.78	1.0	20	0	109	75-125	0				
Methyl tert-butyl ether	21.73	5.0	20	0	109	65-125	0				
Methylene chloride	21.55	5.0	20	0	108	55-140	0				
Styrene	19.97	1.0	20	0	99.8	65-135	0				
Tetrachloroethene	21.77	2.0	20	0	109	45-150	0				
Toluene	20.32	1.0	20	0	102	75-120	0				
trans-1,2-Dichloroethene	23.48	1.0	20	0	117	60-140	0				
trans-1,3-Dichloropropene	20.34	1.0	20	0	102	55-140	0				
Trichloroethene	21.5	1.0	20	0	108	70-125	0				
Trichlorofluoromethane	22.53	1.0	20	0	113	60-145	0				

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130254	Instrument ID VMS8		Method: SW8260				
Vinyl chloride	23.3	1.0	20	0	116	50-145	0
Xylenes, Total	62.4	3.0	60	0	104	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.38</i>	0	<i>20</i>	0	<i>91.9</i>	<i>70-120</i>	0
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.16</i>	0	<i>20</i>	0	<i>101</i>	<i>75-120</i>	0
<i>Surr: Dibromofluoromethane</i>	<i>19.77</i>	0	<i>20</i>	0	<i>98.8</i>	<i>85-115</i>	0
<i>Surr: Toluene-d8</i>	<i>19.8</i>	0	<i>20</i>	0	<i>99</i>	<i>85-120</i>	0

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130254** Instrument ID **VMS8** Method: **SW8260**

MS				Sample ID: 1311249-03A MS			Units: µg/L		Analysis Date: 11/11/13 09:58 PM	
Client ID:				Run ID: VMS8_131111A			SeqNo: 2533953		Prep Date:	
									DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	23680	50	1000	22230	146	65-130	0			SEO
1,1,2,2-Tetrachloroethane	846.5	50	1000	0	84.6	65-130	0			
1,1,2-Trichloroethane	846	50	1000	0	84.6	75-125	0			
1,1-Dichloroethane	12050	50	1000	10780	127	70-135	0			EO
1,1-Dichloroethene	1534	50	1000	500	103	70-130	0			
1,2,4-Trichlorobenzene	727	50	1000	0	72.7	65-135	0			
1,2-Dibromo-3-chloropropane	728	50	1000	0	72.8	50-130	0			
1,2-Dibromoethane	904	50	1000	0	90.4	80-120	0			
1,2-Dichlorobenzene	831.5	50	1000	0	83.2	70-120	0			
1,2-Dichloroethane	888	50	1000	0	88.8	70-130	0			
1,2-Dichloropropane	938.5	100	1000	0	93.8	75-125	0			
1,3-Dichlorobenzene	864.5	100	1000	0	86.4	75-125	0			
1,4-Dichlorobenzene	831	100	1000	0	83.1	75-125	0			
2-Butanone	923	250	1000	0	92.3	30-150	0			
2-Hexanone	798.5	250	1000	0	79.8	55-130	0			
4-Methyl-2-pentanone	1091	250	1000	0	109	60-135	0			
Acetone	782.5	1,000	1000	0	78.2	40-140	0			J
Benzene	977	50	1000	0	97.7	80-120	0			
Bromodichloromethane	937.5	50	1000	0	93.8	75-120	0			
Bromoform	827	50	1000	0	82.7	70-130	0			
Bromomethane	1866	50	1000	0	187	30-145	0			S
Carbon disulfide	1262	120	1000	0	126	35-165	0			
Carbon tetrachloride	1121	50	1000	0	112	65-140	0			
Chlorobenzene	915.5	50	1000	0	91.6	80-120	0			
Chloroethane	1629	50	1000	579.5	105	60-135	0			
Chloroform	987	50	1000	0	98.7	65-135	0			
Chloromethane	1032	50	1000	0	103	70-125	0			
cis-1,2-Dichloroethene	1884	50	1000	853.5	103	70-125	0			
cis-1,3-Dichloropropene	942	50	1000	0	94.2	70-130	0			
Dibromochloromethane	833.5	50	1000	0	83.4	60-135	0			
Dichlorodifluoromethane	855.5	50	1000	0	85.6	30-155	0			
Ethylbenzene	951	50	1000	0	95.1	75-125	0			
Isopropylbenzene	969.5	50	1000	0	97	75-125	0			
Methyl tert-butyl ether	1019	250	1000	0	102	65-125	0			
Methylene chloride	1022	250	1000	0	102	55-140	0			
Styrene	887	50	1000	0	88.7	65-135	0			
Tetrachloroethene	983	100	1000	0	98.3	45-150	0			
Toluene	926.5	50	1000	0	92.6	75-120	0			
trans-1,2-Dichloroethene	1103	50	1000	0	110	60-140	0			
trans-1,3-Dichloropropene	901.5	50	1000	0	90.2	55-140	0			
Trichloroethene	964	50	1000	0	96.4	70-125	0			
Trichlorofluoromethane	1064	50	1000	0	106	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130254		Instrument ID VMS8		Method: SW8260			
Vinyl chloride	1746	50	1000	718	103	50-145	0
Xylenes, Total	2828	150	3000	0	94.2	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>903</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>90.3</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1030</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>985.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.6</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>972</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.2</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130254** Instrument ID **VMS8** Method: **SW8260**

MSD				Sample ID: 1311249-03A MSD			Units: µg/L		Analysis Date: 11/11/13 10:22 PM	
Client ID:				Run ID: VMS8_131111A			SeqNo: 2533954		Prep Date:	
									DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	24000	50	1000	22230	178	65-130	23680	1.33	30	SEO
1,1,2,2-Tetrachloroethane	902	50	1000	0	90.2	65-130	846.5	6.35	30	
1,1,2-Trichloroethane	901.5	50	1000	0	90.2	75-125	846	6.35	30	
1,1-Dichloroethane	12210	50	1000	10780	142	70-135	12050	1.27	30	SEO
1,1-Dichloroethene	1508	50	1000	500	101	70-130	1534	1.74	30	
1,2,4-Trichlorobenzene	822	50	1000	0	82.2	65-135	727	12.3	30	
1,2-Dibromo-3-chloropropane	799	50	1000	0	79.9	50-130	728	9.3	30	
1,2-Dibromoethane	942	50	1000	0	94.2	80-120	904	4.12	30	
1,2-Dichlorobenzene	862.5	50	1000	0	86.2	70-120	831.5	3.66	30	
1,2-Dichloroethane	912	50	1000	0	91.2	70-130	888	2.67	30	
1,2-Dichloropropane	967	100	1000	0	96.7	75-125	938.5	2.99	30	
1,3-Dichlorobenzene	875	100	1000	0	87.5	75-125	864.5	1.21	30	
1,4-Dichlorobenzene	865	100	1000	0	86.5	75-125	831	4.01	30	
2-Butanone	991.5	250	1000	0	99.2	30-150	923	7.16	30	
2-Hexanone	918.5	250	1000	0	91.8	55-130	798.5	14	30	
4-Methyl-2-pentanone	1202	250	1000	0	120	60-135	1091	9.64	30	
Acetone	880.5	1,000	1000	0	88	40-140	782.5	0	30	J
Benzene	997.5	50	1000	0	99.8	80-120	977	2.08	30	
Bromodichloromethane	960	50	1000	0	96	75-120	937.5	2.37	30	
Bromoform	866.5	50	1000	0	86.6	70-130	827	4.66	30	
Bromomethane	878.5	50	1000	0	87.8	30-145	1866	72	30	R
Carbon disulfide	1267	120	1000	0	127	35-165	1262	0.435	30	
Carbon tetrachloride	1142	50	1000	0	114	65-140	1121	1.9	30	
Chlorobenzene	934.5	50	1000	0	93.4	80-120	915.5	2.05	30	
Chloroethane	1611	50	1000	579.5	103	60-135	1629	1.11	30	
Chloroform	1004	50	1000	0	100	65-135	987	1.66	30	
Chloromethane	1049	50	1000	0	105	70-125	1032	1.63	30	
cis-1,2-Dichloroethene	1926	50	1000	853.5	107	70-125	1884	2.21	30	
cis-1,3-Dichloropropene	969	50	1000	0	96.9	70-130	942	2.83	30	
Dibromochloromethane	865.5	50	1000	0	86.6	60-135	833.5	3.77	30	
Dichlorodifluoromethane	845.5	50	1000	0	84.6	30-155	855.5	1.18	30	
Ethylbenzene	961.5	50	1000	0	96.2	75-125	951	1.1	30	
Isopropylbenzene	995.5	50	1000	0	99.6	75-125	969.5	2.65	30	
Methyl tert-butyl ether	1058	250	1000	0	106	65-125	1019	3.76	30	
Methylene chloride	1038	250	1000	0	104	55-140	1022	1.46	30	
Styrene	926	50	1000	0	92.6	65-135	887	4.3	30	
Tetrachloroethene	1012	100	1000	0	101	45-150	983	2.91	30	
Toluene	958.5	50	1000	0	95.8	75-120	926.5	3.4	30	
trans-1,2-Dichloroethene	1124	50	1000	0	112	60-140	1103	1.84	30	
trans-1,3-Dichloropropene	936	50	1000	0	93.6	55-140	901.5	3.76	30	
Trichloroethene	983	50	1000	0	98.3	70-125	964	1.95	30	
Trichlorofluoromethane	1074	50	1000	0	107	60-145	1064	0.936	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130254	Instrument ID VMS8			Method: SW8260					
Vinyl chloride	1792	50	1000	718	107	50-145	1746	2.63	30
Xylenes, Total	2871	150	3000	0	95.7	75-130	2828	1.53	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>920</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>92</i>	<i>70-120</i>	<i>903</i>	<i>1.87</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>1028</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>75-120</i>	<i>1030</i>	<i>0.194</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>993.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.4</i>	<i>85-115</i>	<i>985.5</i>	<i>0.808</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>982</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.2</i>	<i>85-120</i>	<i>972</i>	<i>1.02</i>	<i>30</i>

The following samples were analyzed in this batch:

1311287-08A	1311287-09A	1311287-10A
1311287-11A	1311287-14A	1311287-15A
1311287-23A		

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130276A** Instrument ID **VMS6** Method: **SW8260**

MBLK		Sample ID: VBK1-13111-R130276A				Units: µg/L		Analysis Date: 11/11/13 03:01 PM		
Client ID:		Run ID: VMS6_131111A				SeqNo: 2532662		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	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
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	5.0								
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	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	2.0								
Toluene	U	1.0								

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130276A	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						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.89</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.4</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.16</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.8</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>18.4</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>92</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>18.82</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.1</i>	<i>85-120</i>	<i>0</i>	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130276A** Instrument ID **VMS6** Method: **SW8260**

LCS				Sample ID: VLCSW1-13111-R130276A			Units: µg/L		Analysis Date: 11/11/13 01:47 PM	
Client ID:				Run ID: VMS6_131111A			SeqNo: 2532661		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	21.18	1.0	20	0	106	65-130	0			
1,1,2,2-Tetrachloroethane	20.53	1.0	20	0	103	65-130	0			
1,1,2-Trichloroethane	18.94	1.0	20	0	94.7	75-125	0			
1,1-Dichloroethane	18.7	1.0	20	0	93.5	70-135	0			
1,1-Dichloroethene	20.23	1.0	20	0	101	70-130	0			
1,2,4-Trichlorobenzene	22.3	1.0	20	0	112	65-135	0			
1,2-Dibromo-3-chloropropane	20.3	1.0	20	0	102	50-130	0			
1,2-Dibromoethane	22.48	1.0	20	0	112	80-120	0			
1,2-Dichlorobenzene	20.64	1.0	20	0	103	70-120	0			
1,2-Dichloroethane	20.14	1.0	20	0	101	70-130	0			
1,2-Dichloropropane	19.35	2.0	20	0	96.8	75-125	0			
1,3-Dichlorobenzene	19.83	2.0	20	0	99.2	75-125	0			
1,4-Dichlorobenzene	19.6	2.0	20	0	98	75-125	0			
2-Butanone	23.52	5.0	20	0	118	30-150	0			
2-Hexanone	19.46	5.0	20	0	97.3	55-130	0			
4-Methyl-2-pentanone	28.21	5.0	20	0	141	60-135	0			S
Acetone	27.07	20	20	0	135	40-140	0			
Benzene	20.3	1.0	20	0	102	80-120	0			
Bromodichloromethane	18.84	1.0	20	0	94.2	75-120	0			
Bromoform	17.77	1.0	20	0	88.8	70-130	0			
Bromomethane	21.15	1.0	20	0	106	30-145	0			
Carbon disulfide	21.02	2.5	20	0	105	35-165	0			
Carbon tetrachloride	19.26	1.0	20	0	96.3	65-140	0			
Chlorobenzene	19.97	1.0	20	0	99.8	80-120	0			
Chloroethane	18.57	1.0	20	0	92.8	60-135	0			
Chloroform	18.38	1.0	20	0	91.9	65-135	0			
Chloromethane	22.86	1.0	20	0	114	70-125	0			
cis-1,2-Dichloroethene	17.78	1.0	20	0	88.9	70-125	0			
cis-1,3-Dichloropropene	21.86	1.0	20	0	109	70-130	0			
Dibromochloromethane	16.42	1.0	20	0	82.1	60-135	0			
Dichlorodifluoromethane	19.99	1.0	20	0	100	30-155	0			
Ethylbenzene	20.07	1.0	20	0	100	75-125	0			
Isopropylbenzene	20.12	1.0	20	0	101	75-125	0			
Methyl tert-butyl ether	19.3	5.0	20	0	96.5	65-125	0			
Methylene chloride	19.34	5.0	20	0	96.7	55-140	0			
Styrene	21.34	1.0	20	0	107	65-135	0			
Tetrachloroethene	22.17	2.0	20	0	111	45-150	0			
Toluene	20.22	1.0	20	0	101	75-120	0			
trans-1,2-Dichloroethene	19.42	1.0	20	0	97.1	60-140	0			
trans-1,3-Dichloropropene	21.39	1.0	20	0	107	55-140	0			
Trichloroethene	21.68	1.0	20	0	108	70-125	0			
Trichlorofluoromethane	18.94	1.0	20	0	94.7	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130276A	Instrument ID VMS6		Method: SW8260				
Vinyl chloride	19.42	1.0	20	0	97.1	50-145	0
Xylenes, Total	60.93	3.0	60	0	102	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.39</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>92</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</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: Dibromofluoromethane</i>	<i>19.85</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>19.09</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.4</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130276A** Instrument ID **VMS6** Method: **SW8260**

MS				Sample ID: 1311287-12A MS			Units: µg/L		Analysis Date: 11/11/13 11:37 PM	
Client ID: WG-17360-102913-MR-012				Run ID: VMS6_131111A			SeqNo: 2533907		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	20.77	1.0	20	0	104	65-130	0			
1,1,2,2-Tetrachloroethane	21.58	1.0	20	0	108	65-130	0			
1,1,2-Trichloroethane	18.91	1.0	20	0	94.6	75-125	0			
1,1-Dichloroethane	17.99	1.0	20	0	90	70-135	0			
1,1-Dichloroethene	19.47	1.0	20	0	97.4	70-130	0			
1,2,4-Trichlorobenzene	20.48	1.0	20	0	102	65-135	0			
1,2-Dibromo-3-chloropropane	20.52	1.0	20	0	103	50-130	0			
1,2-Dibromoethane	21.89	1.0	20	0	109	80-120	0			
1,2-Dichlorobenzene	18.51	1.0	20	0	92.6	70-120	0			
1,2-Dichloroethane	19.38	1.0	20	0	96.9	70-130	0			
1,2-Dichloropropane	18.82	2.0	20	0	94.1	75-125	0			
1,3-Dichlorobenzene	18.17	2.0	20	0	90.8	75-125	0			
1,4-Dichlorobenzene	18.7	2.0	20	0	93.5	75-125	0			
2-Butanone	29.17	5.0	20	0	146	30-150	0			
2-Hexanone	24.39	5.0	20	0	122	55-130	0			
4-Methyl-2-pentanone	32.46	5.0	20	0	162	60-135	0			S
Acetone	30.32	20	20	0	152	40-140	0			S
Benzene	20.25	1.0	20	0	101	80-120	0			
Bromodichloromethane	16.59	1.0	20	0	83	75-120	0			
Bromoform	16.05	1.0	20	0	80.2	70-130	0			
Bromomethane	6.03	1.0	20	0	30.2	30-145	0			
Carbon disulfide	18.3	2.5	20	0	91.5	35-165	0			
Carbon tetrachloride	18.6	1.0	20	0	93	65-140	0			
Chlorobenzene	19.52	1.0	20	0	97.6	80-120	0			
Chloroethane	18.56	1.0	20	0	92.8	60-135	0			
Chloroform	18.21	1.0	20	0	91	65-135	0			
Chloromethane	16.31	1.0	20	0	81.6	70-125	0			
cis-1,2-Dichloroethene	17.58	1.0	20	0	87.9	70-125	0			
cis-1,3-Dichloropropene	20.4	1.0	20	0	102	70-130	0			
Dibromochloromethane	14.16	1.0	20	0	70.8	60-135	0			
Dichlorodifluoromethane	19.66	1.0	20	0	98.3	30-155	0			
Ethylbenzene	19.76	1.0	20	0	98.8	75-125	0			
Isopropylbenzene	19.95	1.0	20	0	99.8	75-125	0			
Methyl tert-butyl ether	20.71	5.0	20	0.83	99.4	65-125	0			
Methylene chloride	18.95	5.0	20	0	94.8	55-140	0			
Styrene	20.36	1.0	20	0	102	65-135	0			
Tetrachloroethene	21.94	2.0	20	0	110	45-150	0			
Toluene	19.39	1.0	20	0	97	75-120	0			
trans-1,2-Dichloroethene	19.01	1.0	20	0	95	60-140	0			
trans-1,3-Dichloropropene	19.61	1.0	20	0	98	55-140	0			
Trichloroethene	20.93	1.0	20	0	105	70-125	0			
Trichlorofluoromethane	18.77	1.0	20	0	93.8	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130276A	Instrument ID VMS6		Method: SW8260				
Vinyl chloride	17.5	1.0	20	0	87.5	50-145	0
Xylenes, Total	59.08	3.0	60	0	98.5	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.44</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.2</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.13</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.61</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>18.87</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.4</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130276A** Instrument ID **VMS6** Method: **SW8260**

MSD				Sample ID: 1311287-12A MSD			Units: µg/L		Analysis Date: 11/12/13 12:01 PM	
Client ID: WG-17360-102913-MR-012				Run ID: VMS6_131111A			SeqNo: 2533908		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	20.19	1.0	20	0	101	65-130	20.77	2.83	30	
1,1,2,2-Tetrachloroethane	21.71	1.0	20	0	109	65-130	21.58	0.601	30	
1,1,2-Trichloroethane	18.47	1.0	20	0	92.4	75-125	18.91	2.35	30	
1,1-Dichloroethane	18.23	1.0	20	0	91.2	70-135	17.99	1.33	30	
1,1-Dichloroethene	19.48	1.0	20	0	97.4	70-130	19.47	0.0513	30	
1,2,4-Trichlorobenzene	21.75	1.0	20	0	109	65-135	20.48	6.01	30	
1,2-Dibromo-3-chloropropane	20.88	1.0	20	0	104	50-130	20.52	1.74	30	
1,2-Dibromoethane	21.78	1.0	20	0	109	80-120	21.89	0.504	30	
1,2-Dichlorobenzene	19.4	1.0	20	0	97	70-120	18.51	4.7	30	
1,2-Dichloroethane	19.5	1.0	20	0	97.5	70-130	19.38	0.617	30	
1,2-Dichloropropane	18.83	2.0	20	0	94.2	75-125	18.82	0.0531	30	
1,3-Dichlorobenzene	19.42	2.0	20	0	97.1	75-125	18.17	6.65	30	
1,4-Dichlorobenzene	19.19	2.0	20	0	96	75-125	18.7	2.59	30	
2-Butanone	25.95	5.0	20	0	130	30-150	29.17	11.7	30	
2-Hexanone	24.41	5.0	20	0	122	55-130	24.39	0.082	30	
4-Methyl-2-pentanone	32.63	5.0	20	0	163	60-135	32.46	0.522	30	S
Acetone	31.13	20	20	0	156	40-140	30.32	2.64	30	S
Benzene	20.16	1.0	20	0	101	80-120	20.25	0.445	30	
Bromodichloromethane	16.81	1.0	20	0	84	75-120	16.59	1.32	30	
Bromoform	16.89	1.0	20	0	84.4	70-130	16.05	5.1	30	
Bromomethane	8.79	1.0	20	0	44	30-145	6.03	37.2	30	R
Carbon disulfide	18.04	2.5	20	0	90.2	35-165	18.3	1.43	30	
Carbon tetrachloride	18.22	1.0	20	0	91.1	65-140	18.6	2.06	30	
Chlorobenzene	19.32	1.0	20	0	96.6	80-120	19.52	1.03	30	
Chloroethane	17.94	1.0	20	0	89.7	60-135	18.56	3.4	30	
Chloroform	18.05	1.0	20	0	90.2	65-135	18.21	0.883	30	
Chloromethane	16.5	1.0	20	0	82.5	70-125	16.31	1.16	30	
cis-1,2-Dichloroethene	17.58	1.0	20	0	87.9	70-125	17.58	0	30	
cis-1,3-Dichloropropene	19.95	1.0	20	0	99.8	70-130	20.4	2.23	30	
Dibromochloromethane	14.63	1.0	20	0	73.2	60-135	14.16	3.27	30	
Dichlorodifluoromethane	19.93	1.0	20	0	99.6	30-155	19.66	1.36	30	
Ethylbenzene	19.81	1.0	20	0	99	75-125	19.76	0.253	30	
Isopropylbenzene	20.52	1.0	20	0	103	75-125	19.95	2.82	30	
Methyl tert-butyl ether	20.46	5.0	20	0.83	98.2	65-125	20.71	1.21	30	
Methylene chloride	18.88	5.0	20	0	94.4	55-140	18.95	0.37	30	
Styrene	19.57	1.0	20	0	97.8	65-135	20.36	3.96	30	
Tetrachloroethene	22.35	2.0	20	0	112	45-150	21.94	1.85	30	
Toluene	19.21	1.0	20	0	96	75-120	19.39	0.933	30	
trans-1,2-Dichloroethene	18.89	1.0	20	0	94.4	60-140	19.01	0.633	30	
trans-1,3-Dichloropropene	20.19	1.0	20	0	101	55-140	19.61	2.91	30	
Trichloroethene	20.99	1.0	20	0	105	70-125	20.93	0.286	30	
Trichlorofluoromethane	18.85	1.0	20	0	94.2	60-145	18.77	0.425	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130276A		Instrument ID VMS6		Method: SW8260					
Vinyl chloride	17.74	1.0	20	0	88.7	50-145	17.5	1.36	30
Xylenes, Total	59.51	3.0	60	0	99.2	75-130	59.08	0.725	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.19</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96</i>	<i>70-120</i>	<i>19.44</i>	<i>1.29</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.73</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.6</i>	<i>75-120</i>	<i>20.13</i>	<i>2.01</i>	<i>30</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>19.61</i>	<i>0.153</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>18.74</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.7</i>	<i>85-120</i>	<i>18.87</i>	<i>0.691</i>	<i>30</i>

The following samples were analyzed in this batch:	1311287-12A	1311287-13A	1311287-16A	
	1311287-17A			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130330** Instrument ID **VMS8** Method: **SW8260**

MBLK		Sample ID: VBLKW2-13111-R130330				Units: µg/L		Analysis Date: 11/12/13 01:36 AM		
Client ID:		Run ID: VMS8_131111B				SeqNo: 2534114		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	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
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	5.0								
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	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	2.0								
Toluene	U	1.0								

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130330		Instrument ID VMS8		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>18.45</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>92.2</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.98</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.9</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>19.61</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.58</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.9</i>	<i>85-120</i>	<i>0</i>	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130330** Instrument ID **VMS8** Method: **SW8260**

LCS		Sample ID: VLCSW2-131111-R130330				Units: µg/L		Analysis Date: 11/12/13 12:23 PM		
Client ID:		Run ID: VMS8_131111B				SeqNo: 2534161		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	23.09	1.0	20	0	115	65-130	0			
1,1,2,2-Tetrachloroethane	18.41	1.0	20	0	92	65-130	0			
1,1,2-Trichloroethane	18.19	1.0	20	0	91	75-125	0			
1,1-Dichloroethane	21.96	1.0	20	0	110	70-135	0			
1,1-Dichloroethene	24.42	1.0	20	0	122	70-130	0			
1,2,4-Trichlorobenzene	19.37	1.0	20	0	96.8	65-135	0			
1,2-Dibromo-3-chloropropane	16.41	1.0	20	0	82	50-130	0			
1,2-Dibromoethane	19.31	1.0	20	0	96.6	80-120	0			
1,2-Dichlorobenzene	18.87	1.0	20	0	94.4	70-120	0			
1,2-Dichloroethane	18.81	1.0	20	0	94	70-130	0			
1,2-Dichloropropane	20.48	2.0	20	0	102	75-125	0			
1,3-Dichlorobenzene	19.34	2.0	20	0	96.7	75-125	0			
1,4-Dichlorobenzene	19.01	2.0	20	0	95	75-125	0			
2-Butanone	20.2	5.0	20	0	101	30-150	0			
2-Hexanone	18.28	5.0	20	0	91.4	55-130	0			
4-Methyl-2-pentanone	24.02	5.0	20	0	120	60-135	0			
Acetone	19.43	20	20	0	97.2	40-140	0			J
Benzene	21.55	1.0	20	0	108	80-120	0			
Bromodichloromethane	20.41	1.0	20	0	102	75-120	0			
Bromoform	18.12	1.0	20	0	90.6	70-130	0			
Bromomethane	21.41	1.0	20	0	107	30-145	0			
Carbon disulfide	27.94	2.5	20	0	140	35-165	0			
Carbon tetrachloride	23.61	1.0	20	0	118	65-140	0			
Chlorobenzene	19.34	1.0	20	0	96.7	80-120	0			
Chloroethane	24.19	1.0	20	0	121	60-135	0			
Chloroform	21.32	1.0	20	0	107	65-135	0			
Chloromethane	23.8	1.0	20	0	119	70-125	0			
cis-1,2-Dichloroethene	21.93	1.0	20	0	110	70-125	0			
cis-1,3-Dichloropropene	20.64	1.0	20	0	103	70-130	0			
Dibromochloromethane	18.16	1.0	20	0	90.8	60-135	0			
Dichlorodifluoromethane	18.82	1.0	20	0	94.1	30-155	0			
Ethylbenzene	20.67	1.0	20	0	103	75-125	0			
Isopropylbenzene	21.23	1.0	20	0	106	75-125	0			
Methyl tert-butyl ether	22.15	5.0	20	0	111	65-125	0			
Methylene chloride	22.41	5.0	20	0	112	55-140	0			
Styrene	19.99	1.0	20	0	100	65-135	0			
Tetrachloroethene	20.89	2.0	20	0	104	45-150	0			
Toluene	19.64	1.0	20	0	98.2	75-120	0			
trans-1,2-Dichloroethene	24.19	1.0	20	0	121	60-140	0			
trans-1,3-Dichloropropene	19.69	1.0	20	0	98.4	55-140	0			
Trichloroethene	21.08	1.0	20	0	105	70-125	0			
Trichlorofluoromethane	22.48	1.0	20	0	112	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130330	Instrument ID VMS8		Method: SW8260				
Vinyl chloride	22.53	1.0	20	0	113	50-145	0
Xylenes, Total	61.6	3.0	60	0	103	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.24</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>91.2</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.42</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.62</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.1</i>	<i>85-115</i>	<i>0</i>
<i>Surr: Toluene-d8</i>	<i>19.74</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.7</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130330** Instrument ID **VMS8** Method: **SW8260**

MS				Sample ID: 1311287-41A MS			Units: µg/L		Analysis Date: 11/12/13 10:04 AM	
Client ID: WG-17360-110413-MR-041				Run ID: VMS8_131111B			SeqNo: 2534159		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	22.59	1.0	20	0	113	65-130	0			
1,1,2,2-Tetrachloroethane	17.59	1.0	20	0	88	65-130	0			
1,1,2-Trichloroethane	17.21	1.0	20	0	86	75-125	0			
1,1-Dichloroethane	20.16	1.0	20	0	101	70-135	0			
1,1-Dichloroethene	23.39	1.0	20	0	117	70-130	0			
1,2,4-Trichlorobenzene	13.73	1.0	20	0	68.6	65-135	0			
1,2-Dibromo-3-chloropropane	15.62	1.0	20	0	78.1	50-130	0			
1,2-Dibromoethane	17.91	1.0	20	0	89.6	80-120	0			
1,2-Dichlorobenzene	16.15	1.0	20	0	80.8	70-120	0			
1,2-Dichloroethane	17.62	1.0	20	0	88.1	70-130	0			
1,2-Dichloropropane	19.06	2.0	20	0	95.3	75-125	0			
1,3-Dichlorobenzene	16.87	2.0	20	0	84.4	75-125	0			
1,4-Dichlorobenzene	16.28	2.0	20	0	81.4	75-125	0			
2-Butanone	19.82	5.0	20	0	99.1	30-150	0			
2-Hexanone	17.87	5.0	20	0	89.4	55-130	0			
4-Methyl-2-pentanone	24.1	5.0	20	0	120	60-135	0			
Acetone	18.99	20	20	0	95	40-140	0			J
Benzene	20.56	1.0	20	0	103	80-120	0			
Bromodichloromethane	18.87	1.0	20	0	94.4	75-120	0			
Bromoform	16.77	1.0	20	0	83.8	70-130	0			
Bromomethane	27	1.0	20	0	135	30-145	0			
Carbon disulfide	27.33	2.5	20	0	137	35-165	0			
Carbon tetrachloride	22.86	1.0	20	0	114	65-140	0			
Chlorobenzene	18.07	1.0	20	0	90.4	80-120	0			
Chloroethane	22.07	1.0	20	0	110	60-135	0			
Chloroform	19.71	1.0	20	0	98.6	65-135	0			
Chloromethane	22.87	1.0	20	0	114	70-125	0			
cis-1,2-Dichloroethene	19.93	1.0	20	0	99.6	70-125	0			
cis-1,3-Dichloropropene	18.33	1.0	20	0	91.6	70-130	0			
Dibromochloromethane	16.24	1.0	20	0	81.2	60-135	0			
Dichlorodifluoromethane	20.41	1.0	20	0	102	30-155	0			
Ethylbenzene	19.17	1.0	20	0	95.8	75-125	0			
Isopropylbenzene	19.6	1.0	20	0	98	75-125	0			
Methyl tert-butyl ether	20.34	5.0	20	0	102	65-125	0			
Methylene chloride	20.89	5.0	20	0	104	55-140	0			
Styrene	17.2	1.0	20	0	86	65-135	0			
Tetrachloroethene	19.84	2.0	20	0	99.2	45-150	0			
Toluene	18.35	1.0	20	0	91.8	75-120	0			
trans-1,2-Dichloroethene	22.75	1.0	20	0	114	60-140	0			
trans-1,3-Dichloropropene	16.84	1.0	20	0	84.2	55-140	0			
Trichloroethene	20.36	1.0	20	0	102	70-125	0			
Trichlorofluoromethane	22.69	1.0	20	0	113	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130330	Instrument ID VMS8		Method: SW8260				
Vinyl chloride	22.61	1.0	20	0	113	50-145	0
Xylenes, Total	56.25	3.0	60	0	93.8	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.39</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>92</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.13</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.63</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>19.08</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.4</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130330** Instrument ID **VMS8** Method: **SW8260**

MSD				Sample ID: 1311287-41A MSD			Units: µg/L		Analysis Date: 11/12/13 10:28 AM	
Client ID: WG-17360-110413-MR-041				Run ID: VMS8_131111B			SeqNo: 2534160		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	21.63	1.0	20	0	108	65-130	22.59	4.34	30	
1,1,2,2-Tetrachloroethane	17.95	1.0	20	0	89.8	65-130	17.59	2.03	30	
1,1,2-Trichloroethane	17.21	1.0	20	0	86	75-125	17.21	0	30	
1,1-Dichloroethane	20.06	1.0	20	0	100	70-135	20.16	0.497	30	
1,1-Dichloroethene	23.01	1.0	20	0	115	70-130	23.39	1.64	30	
1,2,4-Trichlorobenzene	15.59	1.0	20	0	78	65-135	13.73	12.7	30	
1,2-Dibromo-3-chloropropane	16.3	1.0	20	0	81.5	50-130	15.62	4.26	30	
1,2-Dibromoethane	18.31	1.0	20	0	91.6	80-120	17.91	2.21	30	
1,2-Dichlorobenzene	16.58	1.0	20	0	82.9	70-120	16.15	2.63	30	
1,2-Dichloroethane	17.44	1.0	20	0	87.2	70-130	17.62	1.03	30	
1,2-Dichloropropane	18.76	2.0	20	0	93.8	75-125	19.06	1.59	30	
1,3-Dichlorobenzene	17.08	2.0	20	0	85.4	75-125	16.87	1.24	30	
1,4-Dichlorobenzene	16.72	2.0	20	0	83.6	75-125	16.28	2.67	30	
2-Butanone	19.83	5.0	20	0	99.2	30-150	19.82	0.0504	30	
2-Hexanone	18.41	5.0	20	0	92	55-130	17.87	2.98	30	
4-Methyl-2-pentanone	25.19	5.0	20	0	126	60-135	24.1	4.42	30	
Acetone	19.28	20	20	0	96.4	40-140	18.99	0	30	J
Benzene	19.62	1.0	20	0	98.1	80-120	20.56	4.68	30	
Bromodichloromethane	18.18	1.0	20	0	90.9	75-120	18.87	3.72	30	
Bromoform	16.73	1.0	20	0	83.6	70-130	16.77	0.239	30	
Bromomethane	17.73	1.0	20	0	88.6	30-145	27	41.4	30	R
Carbon disulfide	25.87	2.5	20	0	129	35-165	27.33	5.49	30	
Carbon tetrachloride	21.83	1.0	20	0	109	65-140	22.86	4.61	30	
Chlorobenzene	17.83	1.0	20	0	89.2	80-120	18.07	1.34	30	
Chloroethane	21.09	1.0	20	0	105	60-135	22.07	4.54	30	
Chloroform	19.45	1.0	20	0	97.2	65-135	19.71	1.33	30	
Chloromethane	22.23	1.0	20	0	111	70-125	22.87	2.84	30	
cis-1,2-Dichloroethene	19.66	1.0	20	0	98.3	70-125	19.93	1.36	30	
cis-1,3-Dichloropropene	17.85	1.0	20	0	89.2	70-130	18.33	2.65	30	
Dibromochloromethane	16.26	1.0	20	0	81.3	60-135	16.24	0.123	30	
Dichlorodifluoromethane	18.98	1.0	20	0	94.9	30-155	20.41	7.26	30	
Ethylbenzene	18.8	1.0	20	0	94	75-125	19.17	1.95	30	
Isopropylbenzene	19.49	1.0	20	0	97.4	75-125	19.6	0.563	30	
Methyl tert-butyl ether	20.67	5.0	20	0	103	65-125	20.34	1.61	30	
Methylene chloride	20	5.0	20	0	100	55-140	20.89	4.35	30	
Styrene	17.21	1.0	20	0	86	65-135	17.2	0.0581	30	
Tetrachloroethene	19.95	2.0	20	0	99.8	45-150	19.84	0.553	30	
Toluene	18.08	1.0	20	0	90.4	75-120	18.35	1.48	30	
trans-1,2-Dichloroethene	22.24	1.0	20	0	111	60-140	22.75	2.27	30	
trans-1,3-Dichloropropene	16.96	1.0	20	0	84.8	55-140	16.84	0.71	30	
Trichloroethene	19.64	1.0	20	0	98.2	70-125	20.36	3.6	30	
Trichlorofluoromethane	21.73	1.0	20	0	109	60-145	22.69	4.32	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130330	Instrument ID VMS8			Method: SW8260					
Vinyl chloride	21.8	1.0	20	0	109	50-145	22.61	3.65	30
Xylenes, Total	55.97	3.0	60	0	93.3	75-130	56.25	0.499	30
<i>Surr: 1,2-Dichloroethane-d4</i>	18.59	0	20	0	93	70-120	18.39	1.08	30
<i>Surr: 4-Bromofluorobenzene</i>	20.57	0	20	0	103	75-120	20.13	2.16	30
<i>Surr: Dibromofluoromethane</i>	19.47	0	20	0	97.4	85-115	19.63	0.818	30
<i>Surr: Toluene-d8</i>	19.4	0	20	0	97	85-120	19.08	1.66	30

The following samples were analyzed in this batch:	1311287-26A	1311287-27A	1311287-29A
	1311287-30A	1311287-31A	1311287-32A
	1311287-33A	1311287-34A	1311287-35A
	1311287-36A	1311287-37A	1311287-38A
	1311287-39A	1311287-40A	1311287-41A
	1311287-42A	1311287-43A	1311287-44A
	1311287-45A	1311287-46A	

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130334** Instrument ID **VMS6** Method: **SW8260**

MBLK		Sample ID: VBLKW2-131111-R130334				Units: µg/L		Analysis Date: 11/12/13 02:50 AM		
Client ID:		Run ID: VMS6_131111B				SeqNo: 2534118		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	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
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	5.0								
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	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	2.0								
Toluene	U	1.0								

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130334	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						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.16</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.8</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.3</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.5</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>18.38</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>91.9</i>	<i>85-115</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95</i>	<i>85-120</i>	<i>0</i>	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130334** Instrument ID **VMS6** Method: **SW8260**

LCS				Sample ID: VLCSW2-131111-R130334			Units: µg/L		Analysis Date: 11/12/13 02:01 AM	
Client ID:				Run ID: VMS6_131111B			SeqNo: 2534117		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	21.57	1.0	20	0	108	65-130	0			
1,1,2,2-Tetrachloroethane	23.62	1.0	20	0	118	65-130	0			
1,1,2-Trichloroethane	20.23	1.0	20	0	101	75-125	0			
1,1-Dichloroethane	19.39	1.0	20	0	97	70-135	0			
1,1-Dichloroethene	20.13	1.0	20	0	101	70-130	0			
1,2,4-Trichlorobenzene	23.07	1.0	20	0	115	65-135	0			
1,2-Dibromo-3-chloropropane	22.92	1.0	20	0	115	50-130	0			
1,2-Dibromoethane	24.25	1.0	20	0	121	80-120	0			S
1,2-Dichlorobenzene	21.57	1.0	20	0	108	70-120	0			
1,2-Dichloroethane	21.11	1.0	20	0	106	70-130	0			
1,2-Dichloropropane	20.41	2.0	20	0	102	75-125	0			
1,3-Dichlorobenzene	20.81	2.0	20	0	104	75-125	0			
1,4-Dichlorobenzene	21.01	2.0	20	0	105	75-125	0			
2-Butanone	30.37	5.0	20	0	152	30-150	0			S
2-Hexanone	26.3	5.0	20	0	132	55-130	0			S
4-Methyl-2-pentanone	35.22	5.0	20	0	176	60-135	0			S
Acetone	35.14	20	20	0	176	40-140	0			S
Benzene	21.29	1.0	20	0	106	80-120	0			
Bromodichloromethane	19.31	1.0	20	0	96.6	75-120	0			
Bromoform	18.69	1.0	20	0	93.4	70-130	0			
Bromomethane	15.28	1.0	20	0	76.4	30-145	0			
Carbon disulfide	19.84	2.5	20	0	99.2	35-165	0			
Carbon tetrachloride	19.44	1.0	20	0	97.2	65-140	0			
Chlorobenzene	20.97	1.0	20	0	105	80-120	0			
Chloroethane	19.31	1.0	20	0	96.6	60-135	0			
Chloroform	19.31	1.0	20	0	96.6	65-135	0			
Chloromethane	21.09	1.0	20	0	105	70-125	0			
cis-1,2-Dichloroethene	18.47	1.0	20	0	92.4	70-125	0			
cis-1,3-Dichloropropene	22.25	1.0	20	0	111	70-130	0			
Dibromochloromethane	16.5	1.0	20	0	82.5	60-135	0			
Dichlorodifluoromethane	17.42	1.0	20	0	87.1	30-155	0			
Ethylbenzene	21.05	1.0	20	0	105	75-125	0			
Isopropylbenzene	21.4	1.0	20	0	107	75-125	0			
Methyl tert-butyl ether	21.81	5.0	20	0	109	65-125	0			
Methylene chloride	20.59	5.0	20	0	103	55-140	0			
Styrene	21.98	1.0	20	0	110	65-135	0			
Tetrachloroethene	23.69	2.0	20	0	118	45-150	0			
Toluene	20.61	1.0	20	0	103	75-120	0			
trans-1,2-Dichloroethene	19.92	1.0	20	0	99.6	60-140	0			
trans-1,3-Dichloropropene	22.14	1.0	20	0	111	55-140	0			
Trichloroethene	22.35	1.0	20	0	112	70-125	0			
Trichlorofluoromethane	18.8	1.0	20	0	94	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130334	Instrument ID VMS6		Method: SW8260				
Vinyl chloride	18.87	1.0	20	0	94.4	50-145	0
Xylenes, Total	63.71	3.0	60	0	106	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.23</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.2</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.35</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.88</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>18.69</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.4</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130334** Instrument ID **VMS6** Method: **SW8260**

MS				Sample ID: 1311287-57A MS			Units: µg/L		Analysis Date: 11/12/13 11:25 AM	
Client ID: WG-17360-110513-MR-057				Run ID: VMS6_131111B			SeqNo: 2534146		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	20.76	1.0	20	0	104	65-130	0			
1,1,2,2-Tetrachloroethane	22.01	1.0	20	0	110	65-130	0			
1,1,2-Trichloroethane	19.13	1.0	20	0	95.6	75-125	0			
1,1-Dichloroethane	18.87	1.0	20	1.13	88.7	70-135	0			
1,1-Dichloroethene	19.72	1.0	20	0.94	93.9	70-130	0			
1,2,4-Trichlorobenzene	20.41	1.0	20	0	102	65-135	0			
1,2-Dibromo-3-chloropropane	19.33	1.0	20	0	96.6	50-130	0			
1,2-Dibromoethane	22.65	1.0	20	0	113	80-120	0			
1,2-Dichlorobenzene	19.51	1.0	20	0	97.6	70-120	0			
1,2-Dichloroethane	19.81	1.0	20	0	99	70-130	0			
1,2-Dichloropropane	18.86	2.0	20	0	94.3	75-125	0			
1,3-Dichlorobenzene	18.83	2.0	20	0	94.2	75-125	0			
1,4-Dichlorobenzene	19.2	2.0	20	0	96	75-125	0			
2-Butanone	26.43	5.0	20	0	132	30-150	0			
2-Hexanone	23.94	5.0	20	0	120	55-130	0			
4-Methyl-2-pentanone	30.94	5.0	20	0	155	60-135	0			S
Acetone	33.07	20	20	0	165	40-140	0			S
Benzene	20.72	1.0	20	0	104	80-120	0			
Bromodichloromethane	16.97	1.0	20	0	84.8	75-120	0			
Bromoform	15.57	1.0	20	0	77.8	70-130	0			
Bromomethane	11.99	1.0	20	0	60	30-145	0			
Carbon disulfide	17.87	2.5	20	0	89.4	35-165	0			
Carbon tetrachloride	18.86	1.0	20	0	94.3	65-140	0			
Chlorobenzene	20.22	1.0	20	0	101	80-120	0			
Chloroethane	18.62	1.0	20	0	93.1	60-135	0			
Chloroform	17.82	1.0	20	0	89.1	65-135	0			
Chloromethane	18.88	1.0	20	0	94.4	70-125	0			
cis-1,2-Dichloroethene	32.29	1.0	20	16.15	80.7	70-125	0			
cis-1,3-Dichloropropene	19.42	1.0	20	0	97.1	70-130	0			
Dibromochloromethane	14.46	1.0	20	0	72.3	60-135	0			
Dichlorodifluoromethane	19.19	1.0	20	0	96	30-155	0			
Ethylbenzene	20.63	1.0	20	0	103	75-125	0			
Isopropylbenzene	20.85	1.0	20	0	104	75-125	0			
Methyl tert-butyl ether	18.45	5.0	20	0	92.2	65-125	0			
Methylene chloride	18.44	5.0	20	0	92.2	55-140	0			
Styrene	21.36	1.0	20	0	107	65-135	0			
Tetrachloroethene	22.33	2.0	20	0	112	45-150	0			
Toluene	20.13	1.0	20	0	101	75-120	0			
trans-1,2-Dichloroethene	19.43	1.0	20	0	97.2	60-140	0			
trans-1,3-Dichloropropene	18.82	1.0	20	0	94.1	55-140	0			
Trichloroethene	25.97	1.0	20	5.06	105	70-125	0			
Trichlorofluoromethane	18.32	1.0	20	0	91.6	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130334	Instrument ID VMS6		Method: SW8260				
Vinyl chloride	29.37	1.0	20	11.37	90	50-145	0
Xylenes, Total	62.02	3.0	60	0	103	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.83</i>	0	<i>20</i>	0	<i>94.2</i>	<i>70-120</i>	0
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.28</i>	0	<i>20</i>	0	<i>101</i>	<i>75-120</i>	0
<i>Surr: Dibromofluoromethane</i>	<i>19.38</i>	0	<i>20</i>	0	<i>96.9</i>	<i>85-115</i>	0
<i>Surr: Toluene-d8</i>	<i>19.03</i>	0	<i>20</i>	0	<i>95.2</i>	<i>85-120</i>	0

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130334** Instrument ID **VMS6** Method: **SW8260**

MSD				Sample ID: 1311287-57A MSD			Units: µg/L		Analysis Date: 11/12/13 11:50 AM	
Client ID: WG-17360-110513-MR-057				Run ID: VMS6_131111B			SeqNo: 2534147		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	20.32	1.0	20	0	102	65-130	20.76	2.14	30	
1,1,2,2-Tetrachloroethane	22.14	1.0	20	0	111	65-130	22.01	0.589	30	
1,1,2-Trichloroethane	18.83	1.0	20	0	94.2	75-125	19.13	1.58	30	
1,1-Dichloroethane	19.08	1.0	20	1.13	89.8	70-135	18.87	1.11	30	
1,1-Dichloroethene	20.28	1.0	20	0.94	96.7	70-130	19.72	2.8	30	
1,2,4-Trichlorobenzene	22.64	1.0	20	0	113	65-135	20.41	10.4	30	
1,2-Dibromo-3-chloropropane	21.39	1.0	20	0	107	50-130	19.33	10.1	30	
1,2-Dibromoethane	22.75	1.0	20	0	114	80-120	22.65	0.441	30	
1,2-Dichlorobenzene	20.54	1.0	20	0	103	70-120	19.51	5.14	30	
1,2-Dichloroethane	19.58	1.0	20	0	97.9	70-130	19.81	1.17	30	
1,2-Dichloropropane	18.86	2.0	20	0	94.3	75-125	18.86	0	30	
1,3-Dichlorobenzene	20.18	2.0	20	0	101	75-125	18.83	6.92	30	
1,4-Dichlorobenzene	20.25	2.0	20	0	101	75-125	19.2	5.32	30	
2-Butanone	25.65	5.0	20	0	128	30-150	26.43	3	30	
2-Hexanone	24.84	5.0	20	0	124	55-130	23.94	3.69	30	
4-Methyl-2-pentanone	32.34	5.0	20	0	162	60-135	30.94	4.42	30	S
Acetone	35.92	20	20	0	180	40-140	33.07	8.26	30	S
Benzene	20.43	1.0	20	0	102	80-120	20.72	1.41	30	
Bromodichloromethane	17.51	1.0	20	0	87.6	75-120	16.97	3.13	30	
Bromoform	16.56	1.0	20	0	82.8	70-130	15.57	6.16	30	
Bromomethane	13.75	1.0	20	0	68.8	30-145	11.99	13.7	30	
Carbon disulfide	17.39	2.5	20	0	87	35-165	17.87	2.72	30	
Carbon tetrachloride	18.95	1.0	20	0	94.8	65-140	18.86	0.476	30	
Chlorobenzene	20.09	1.0	20	0	100	80-120	20.22	0.645	30	
Chloroethane	18.34	1.0	20	0	91.7	60-135	18.62	1.52	30	
Chloroform	18.07	1.0	20	0	90.4	65-135	17.82	1.39	30	
Chloromethane	16.87	1.0	20	0	84.4	70-125	18.88	11.2	30	
cis-1,2-Dichloroethene	32.77	1.0	20	16.15	83.1	70-125	32.29	1.48	30	
cis-1,3-Dichloropropene	19.48	1.0	20	0	97.4	70-130	19.42	0.308	30	
Dibromochloromethane	14.84	1.0	20	0	74.2	60-135	14.46	2.59	30	
Dichlorodifluoromethane	19.23	1.0	20	0	96.2	30-155	19.19	0.208	30	
Ethylbenzene	20.29	1.0	20	0	101	75-125	20.63	1.66	30	
Isopropylbenzene	21.17	1.0	20	0	106	75-125	20.85	1.52	30	
Methyl tert-butyl ether	18.92	5.0	20	0	94.6	65-125	18.45	2.52	30	
Methylene chloride	18.51	5.0	20	0	92.6	55-140	18.44	0.379	30	
Styrene	20.94	1.0	20	0	105	65-135	21.36	1.99	30	
Tetrachloroethene	22.46	2.0	20	0	112	45-150	22.33	0.58	30	
Toluene	19.62	1.0	20	0	98.1	75-120	20.13	2.57	30	
trans-1,2-Dichloroethene	19.64	1.0	20	0	98.2	60-140	19.43	1.07	30	
trans-1,3-Dichloropropene	19.2	1.0	20	0	96	55-140	18.82	2	30	
Trichloroethene	26.14	1.0	20	5.06	105	70-125	25.97	0.652	30	
Trichlorofluoromethane	18.65	1.0	20	0	93.2	60-145	18.32	1.79	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130334	Instrument ID VMS6			Method: SW8260					
Vinyl chloride	28.59	1.0	20	11.37	86.1	50-145	29.37	2.69	30
Xylenes, Total	61.28	3.0	60	0	102	75-130	62.02	1.2	30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.85</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.2</i>	<i>70-120</i>	<i>18.83</i>	<i>0.106</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.17</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>20.28</i>	<i>0.544</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>19.36</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.8</i>	<i>85-115</i>	<i>19.38</i>	<i>0.103</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>18.81</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94</i>	<i>85-120</i>	<i>19.03</i>	<i>1.16</i>	<i>30</i>

The following samples were analyzed in this batch:	1311287-47A	1311287-48A	1311287-49A
	1311287-50A	1311287-51A	1311287-52A
	1311287-53A	1311287-54A	1311287-56A
	1311287-57A	1311287-58A	1311287-59A
	1311287-60A	1311287-61A	1311287-62A
	1311287-63A		

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130346A** Instrument ID **VMS5** Method: **SW8260**

MBLK		Sample ID: VBLKW2-131111-R130346A				Units: µg/L		Analysis Date: 11/12/13 02:22 AM		
Client ID:		Run ID: VMS5_131111A				SeqNo: 2534216		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	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	0.51	2.5								J
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	5.0								
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	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	2.0								
Toluene	U	1.0								

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130346A	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>	20	0	20	0	100	70-120	0	
<i>Surr: 4-Bromofluorobenzene</i>	19.66	0	20	0	98.3	75-120	0	
<i>Surr: Dibromofluoromethane</i>	20.09	0	20	0	100	85-115	0	
<i>Surr: Toluene-d8</i>	19.85	0	20	0	99.2	85-120	0	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130346A** Instrument ID **VMS5** Method: **SW8260**

LCS				Sample ID: VLCSW1-131111-R130346A			Units: µg/L		Analysis Date: 11/12/13 01:32 AM	
Client ID:				Run ID: VMS5_131111A			SeqNo: 2534215		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	22.8	1.0	20	0	114	65-130	0			
1,1,2,2-Tetrachloroethane	21.45	1.0	20	0	107	65-130	0			
1,1,2-Trichloroethane	21.13	1.0	20	0	106	75-125	0			
1,1-Dichloroethane	21.84	1.0	20	0	109	70-135	0			
1,1-Dichloroethene	23.28	1.0	20	0	116	70-130	0			
1,2,4-Trichlorobenzene	23.76	1.0	20	0	119	65-135	0			
1,2-Dibromo-3-chloropropane	19.96	1.0	20	0	99.8	50-130	0			
1,2-Dibromoethane	22.81	1.0	20	0	114	80-120	0			
1,2-Dichlorobenzene	21.45	1.0	20	0	107	70-120	0			
1,2-Dichloroethane	19.86	1.0	20	0	99.3	70-130	0			
1,2-Dichloropropane	20.47	2.0	20	0	102	75-125	0			
1,3-Dichlorobenzene	21.4	2.0	20	0	107	75-125	0			
1,4-Dichlorobenzene	20.94	2.0	20	0	105	75-125	0			
2-Butanone	20.91	5.0	20	0	105	30-150	0			
2-Hexanone	23.34	5.0	20	0	117	55-130	0			
4-Methyl-2-pentanone	28.5	5.0	20	0	142	60-135	0			S
Acetone	21.14	20	20	0	106	40-140	0			
Benzene	21.31	1.0	20	0	107	80-120	0			
Bromodichloromethane	21.16	1.0	20	0	106	75-120	0			
Bromoform	18.14	1.0	20	0	90.7	70-130	0			
Bromomethane	22.68	1.0	20	0	113	30-145	0			
Carbon disulfide	24.89	2.5	20	0	124	35-165	0			
Carbon tetrachloride	24.36	1.0	20	0	122	65-140	0			
Chlorobenzene	20.91	1.0	20	0	105	80-120	0			
Chloroethane	19.17	1.0	20	0	95.8	60-135	0			
Chloroform	20.85	1.0	20	0	104	65-135	0			
Chloromethane	18.33	1.0	20	0	91.6	70-125	0			
cis-1,2-Dichloroethene	20.77	1.0	20	0	104	70-125	0			
cis-1,3-Dichloropropene	21.38	1.0	20	0	107	70-130	0			
Dibromochloromethane	21.47	1.0	20	0	107	60-135	0			
Dichlorodifluoromethane	17.71	1.0	20	0	88.6	30-155	0			
Ethylbenzene	22.01	1.0	20	0	110	75-125	0			
Isopropylbenzene	22.66	1.0	20	0	113	75-125	0			
Methyl tert-butyl ether	21.64	5.0	20	0	108	65-125	0			
Methylene chloride	20.88	5.0	20	0	104	55-140	0			
Styrene	22.49	1.0	20	0	112	65-135	0			
Tetrachloroethene	22.32	2.0	20	0	112	45-150	0			
Toluene	21.03	1.0	20	0	105	75-120	0			
trans-1,2-Dichloroethene	22.08	1.0	20	0	110	60-140	0			
trans-1,3-Dichloropropene	21.56	1.0	20	0	108	55-140	0			
Trichloroethene	21.88	1.0	20	0	109	70-125	0			
Trichlorofluoromethane	21.07	1.0	20	0	105	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130346A	Instrument ID VMS5		Method: SW8260				
Vinyl chloride	19.92	1.0	20	0	99.6	50-145	0
Xylenes, Total	65.79	3.0	60	0	110	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.42</i>	0	<i>20</i>	0	<i>102</i>	<i>70-120</i>	0
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.02</i>	0	<i>20</i>	0	<i>100</i>	<i>75-120</i>	0
<i>Surr: Dibromofluoromethane</i>	<i>20.51</i>	0	<i>20</i>	0	<i>103</i>	<i>85-115</i>	0
<i>Surr: Toluene-d8</i>	<i>20.2</i>	0	<i>20</i>	0	<i>101</i>	<i>85-120</i>	0

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130346A** Instrument ID **VMS5** Method: **SW8260**

MS				Sample ID: 1311287-28A MS			Units: µg/L		Analysis Date: 11/12/13 11:13 AM	
Client ID: WG-17360-103113-MR-028				Run ID: VMS5_131111A			SeqNo: 2534235		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	24.11	1.0	20	0	121	65-130	0			
1,1,2,2-Tetrachloroethane	18.64	1.0	20	0	93.2	65-130	0			
1,1,2-Trichloroethane	20.51	1.0	20	0	103	75-125	0			
1,1-Dichloroethane	21.96	1.0	20	0	110	70-135	0			
1,1-Dichloroethene	24.19	1.0	20	0	121	70-130	0			
1,2,4-Trichlorobenzene	20.99	1.0	20	0	105	65-135	0			
1,2-Dibromo-3-chloropropane	15.01	1.0	20	0	75	50-130	0			
1,2-Dibromoethane	21.26	1.0	20	0	106	80-120	0			
1,2-Dichlorobenzene	20.51	1.0	20	0	103	70-120	0			
1,2-Dichloroethane	19.33	1.0	20	0	96.6	70-130	0			
1,2-Dichloropropane	20.43	2.0	20	0	102	75-125	0			
1,3-Dichlorobenzene	22.01	2.0	20	0	110	75-125	0			
1,4-Dichlorobenzene	20.81	2.0	20	0	104	75-125	0			
2-Butanone	17.72	5.0	20	0	88.6	30-150	0			
2-Hexanone	19.82	5.0	20	0	99.1	55-130	0			
4-Methyl-2-pentanone	24.98	5.0	20	0	125	60-135	0			
Acetone	18.65	20	20	0	93.2	40-140	0			J
Benzene	22.34	1.0	20	0	112	80-120	0			
Bromodichloromethane	20.31	1.0	20	0	102	75-120	0			
Bromoform	14.48	1.0	20	0	72.4	70-130	0			
Bromomethane	21.91	1.0	20	0	110	30-145	0			
Carbon disulfide	25.66	2.5	20	0	128	35-165	0			
Carbon tetrachloride	25.45	1.0	20	0	127	65-140	0			
Chlorobenzene	22.57	1.0	20	0	113	80-120	0			
Chloroethane	19.64	1.0	20	0	98.2	60-135	0			
Chloroform	22.57	1.0	20	1.27	106	65-135	0			
Chloromethane	19.11	1.0	20	0	95.6	70-125	0			
cis-1,2-Dichloroethene	20.56	1.0	20	0	103	70-125	0			
cis-1,3-Dichloropropene	20.02	1.0	20	0	100	70-130	0			
Dibromochloromethane	18.62	1.0	20	0	93.1	60-135	0			
Dichlorodifluoromethane	19.23	1.0	20	0	96.2	30-155	0			
Ethylbenzene	26.31	1.0	20	0	132	75-125	0			S
Isopropylbenzene	29.61	1.0	20	0	148	75-125	0			S
Methyl tert-butyl ether	19.55	5.0	20	0	97.8	65-125	0			
Methylene chloride	20.66	5.0	20	0	103	55-140	0			
Styrene	23.66	1.0	20	0	118	65-135	0			
Tetrachloroethene	27.53	2.0	20	0	138	45-150	0			
Toluene	23.24	1.0	20	0	116	75-120	0			
trans-1,2-Dichloroethene	22.65	1.0	20	0	113	60-140	0			
trans-1,3-Dichloropropene	19.6	1.0	20	0	98	55-140	0			
Trichloroethene	23.29	1.0	20	0	116	70-125	0			
Trichlorofluoromethane	21.76	1.0	20	0	109	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130346A		Instrument ID VMS5		Method: SW8260				
Vinyl chloride	20.78	1.0	20	0	104	50-145	0	
Xylenes, Total	79.16	3.0	60	0	132	75-130	0	S
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.18</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.58</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>20.16</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>19.99</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-120</i>	<i>0</i>	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130346A** Instrument ID **VMS5** Method: **SW8260**

MSD				Sample ID: 1311287-28A MSD			Units: µg/L		Analysis Date: 11/12/13 11:38 AM	
Client ID: WG-17360-103113-MR-028				Run ID: VMS5_131111A			SeqNo: 2534236		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	65-130	24.11	2.31	30	
1,1,2,2-Tetrachloroethane	19.03	1.0	20	0	95.2	65-130	18.64	2.07	30	
1,1,2-Trichloroethane	20.28	1.0	20	0	101	75-125	20.51	1.13	30	
1,1-Dichloroethane	21.87	1.0	20	0	109	70-135	21.96	0.411	30	
1,1-Dichloroethene	24.05	1.0	20	0	120	70-130	24.19	0.58	30	
1,2,4-Trichlorobenzene	24.2	1.0	20	0	121	65-135	20.99	14.2	30	
1,2-Dibromo-3-chloropropane	15.52	1.0	20	0	77.6	50-130	15.01	3.34	30	
1,2-Dibromoethane	21.1	1.0	20	0	106	80-120	21.26	0.755	30	
1,2-Dichlorobenzene	21.47	1.0	20	0	107	70-120	20.51	4.57	30	
1,2-Dichloroethane	18.74	1.0	20	0	93.7	70-130	19.33	3.1	30	
1,2-Dichloropropane	20.13	2.0	20	0	101	75-125	20.43	1.48	30	
1,3-Dichlorobenzene	22.43	2.0	20	0	112	75-125	22.01	1.89	30	
1,4-Dichlorobenzene	21.39	2.0	20	0	107	75-125	20.81	2.75	30	
2-Butanone	17.01	5.0	20	0	85	30-150	17.72	4.09	30	
2-Hexanone	20.23	5.0	20	0	101	55-130	19.82	2.05	30	
4-Methyl-2-pentanone	24.91	5.0	20	0	125	60-135	24.98	0.281	30	
Acetone	19	20	20	0	95	40-140	18.65	0	30	J
Benzene	21.48	1.0	20	0	107	80-120	22.34	3.93	30	
Bromodichloromethane	19.39	1.0	20	0	97	75-120	20.31	4.63	30	
Bromoform	14.17	1.0	20	0	70.8	70-130	14.48	2.16	30	
Bromomethane	19.91	1.0	20	0	99.6	30-145	21.91	9.56	30	
Carbon disulfide	24.6	2.5	20	0	123	35-165	25.66	4.22	30	
Carbon tetrachloride	25.17	1.0	20	0	126	65-140	25.45	1.11	30	
Chlorobenzene	21.74	1.0	20	0	109	80-120	22.57	3.75	30	
Chloroethane	19.19	1.0	20	0	96	60-135	19.64	2.32	30	
Chloroform	22.24	1.0	20	1.27	105	65-135	22.57	1.47	30	
Chloromethane	19.06	1.0	20	0	95.3	70-125	19.11	0.262	30	
cis-1,2-Dichloroethene	20.28	1.0	20	0	101	70-125	20.56	1.37	30	
cis-1,3-Dichloropropene	19.38	1.0	20	0	96.9	70-130	20.02	3.25	30	
Dibromochloromethane	18.29	1.0	20	0	91.4	60-135	18.62	1.79	30	
Dichlorodifluoromethane	18.79	1.0	20	0	94	30-155	19.23	2.31	30	
Ethylbenzene	25.15	1.0	20	0	126	75-125	26.31	4.51	30	S
Isopropylbenzene	29.4	1.0	20	0	147	75-125	29.61	0.712	30	S
Methyl tert-butyl ether	19.54	5.0	20	0	97.7	65-125	19.55	0.0512	30	
Methylene chloride	20.37	5.0	20	0	102	55-140	20.66	1.41	30	
Styrene	23.16	1.0	20	0	116	65-135	23.66	2.14	30	
Tetrachloroethene	27.01	2.0	20	0	135	45-150	27.53	1.91	30	
Toluene	22.37	1.0	20	0	112	75-120	23.24	3.81	30	
trans-1,2-Dichloroethene	22.16	1.0	20	0	111	60-140	22.65	2.19	30	
trans-1,3-Dichloropropene	19.43	1.0	20	0	97.2	55-140	19.6	0.871	30	
Trichloroethene	22.97	1.0	20	0	115	70-125	23.29	1.38	30	
Trichlorofluoromethane	21.66	1.0	20	0	108	60-145	21.76	0.461	30	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130346A	Instrument ID VMS5			Method: SW8260					
Vinyl chloride	20.28	1.0	20	0	101	50-145	20.78	2.44	30
Xylenes, Total	74.25	3.0	60	0	124	75-130	79.16	6.4	30
<i>Surr: 1,2-Dichloroethane-d4</i>	19.83	0	20	0	99.2	70-120	20.18	1.75	30
<i>Surr: 4-Bromofluorobenzene</i>	20.49	0	20	0	102	75-120	20.58	0.438	30
<i>Surr: Dibromofluoromethane</i>	19.56	0	20	0	97.8	85-115	20.16	3.02	30
<i>Surr: Toluene-d8</i>	19.98	0	20	0	99.9	85-120	19.99	0.05	30

The following samples were analyzed in this batch:

1311287-19A	1311287-20A	1311287-21A
1311287-22A	1311287-24A	1311287-25A
1311287-28A		

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130361** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: VBLKW1-131112-R130361				Units: µg/L		Analysis Date: 11/12/13 01:28 PM		
Client ID:		Run ID: VMS9_131112A				SeqNo: 2534591		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	2.0								
1,3-Dichlorobenzene	U	2.0								
1,4-Dichlorobenzene	U	2.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	5.0								
Acetone	U	20								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	2.5								
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	5.0								
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	5.0								
Methylcyclohexane	U	5.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	2.0								
Toluene	U	1.0								

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130361	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>19.77</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.8</i>	<i>70-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.62</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.1</i>	<i>75-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>20.09</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>19.62</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.1</i>	<i>85-120</i>	<i>0</i>	

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130361** Instrument ID **VMS9** Method: **SW8260**

LCS				Sample ID: VLCSW1-131112-R130361			Units: µg/L		Analysis Date: 11/12/13 12:16 PM	
Client ID:				Run ID: VMS9_131112A			SeqNo: 2534590		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	21.03	1.0	20	0	105	65-130	0			
1,1,2,2-Tetrachloroethane	19.24	1.0	20	0	96.2	65-130	0			
1,1,2-Trichloroethane	20.5	1.0	20	0	102	75-125	0			
1,1-Dichloroethane	20.3	1.0	20	0	102	70-135	0			
1,1-Dichloroethene	22.55	1.0	20	0	113	70-130	0			
1,2,4-Trichlorobenzene	22.94	1.0	20	0	115	65-135	0			
1,2-Dibromo-3-chloropropane	19	1.0	20	0	95	50-130	0			
1,2-Dibromoethane	21.85	1.0	20	0	109	80-120	0			
1,2-Dichlorobenzene	21.97	1.0	20	0	110	70-120	0			
1,2-Dichloroethane	21.76	1.0	20	0	109	70-130	0			
1,2-Dichloropropane	20.57	2.0	20	0	103	75-125	0			
1,3-Dichlorobenzene	22.31	2.0	20	0	112	75-125	0			
1,4-Dichlorobenzene	22	2.0	20	0	110	75-125	0			
2-Butanone	18.2	5.0	20	0	91	30-150	0			
2-Hexanone	16.45	5.0	20	0	82.2	55-130	0			
4-Methyl-2-pentanone	22.26	5.0	20	0	111	60-135	0			
Acetone	18.22	20	20	0	91.1	40-140	0			J
Benzene	20.41	1.0	20	0	102	80-120	0			
Bromodichloromethane	22.06	1.0	20	0	110	75-120	0			
Bromoform	18.83	1.0	20	0	94.2	70-130	0			
Bromomethane	25.04	1.0	20	0	125	30-145	0			
Carbon disulfide	22.89	2.5	20	0	114	35-165	0			
Carbon tetrachloride	19.55	1.0	20	0	97.8	65-140	0			
Chlorobenzene	21.5	1.0	20	0	108	80-120	0			
Chloroethane	18.75	1.0	20	0	93.8	60-135	0			
Chloroform	20.39	1.0	20	0	102	65-135	0			
Chloromethane	17.65	1.0	20	0	88.2	70-125	0			
cis-1,2-Dichloroethene	20.01	1.0	20	0	100	70-125	0			
cis-1,3-Dichloropropene	20.87	1.0	20	0	104	70-130	0			
Dibromochloromethane	18.88	1.0	20	0	94.4	60-135	0			
Dichlorodifluoromethane	18.55	1.0	20	0	92.8	30-155	0			
Ethylbenzene	22.15	1.0	20	0	111	75-125	0			
Isopropylbenzene	21.53	1.0	20	0	108	75-125	0			
Methyl tert-butyl ether	20.72	5.0	20	0	104	65-125	0			
Methylene chloride	19.87	5.0	20	0	99.4	55-140	0			
Styrene	21.5	1.0	20	0	108	65-135	0			
Tetrachloroethene	23.15	2.0	20	0	116	45-150	0			
Toluene	20.93	1.0	20	0	105	75-120	0			
trans-1,2-Dichloroethene	21.64	1.0	20	0	108	60-140	0			
trans-1,3-Dichloropropene	20.61	1.0	20	0	103	55-140	0			
Trichloroethene	22.13	1.0	20	0	111	70-125	0			
Trichlorofluoromethane	21.08	1.0	20	0	105	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130361	Instrument ID VMS9		Method: SW8260				
Vinyl chloride	19.4	1.0	20	0	97	50-145	0
Xylenes, Total	67.29	3.0	60	0	112	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.44</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.2</i>	<i>70-120</i>	<i>0</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.57</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>75-120</i>	<i>0</i>
<i>Surr: Dibromofluoromethane</i>	<i>20.11</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>19.92</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.6</i>	<i>85-120</i>	<i>0</i>

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130361** Instrument ID **VMS9** Method: **SW8260**

MS				Sample ID: 1311348-17A MS			Units: µg/L		Analysis Date: 11/12/13 09:56 PM	
Client ID:				Run ID: VMS9_131112A			SeqNo: 2535359		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	1.0	20	0	105	65-130	0			
1,1,2,2-Tetrachloroethane	18.74	1.0	20	0	93.7	65-130	0			
1,1,2-Trichloroethane	18.37	1.0	20	0	91.8	75-125	0			
1,1-Dichloroethane	17.88	1.0	20	0	89.4	70-135	0			
1,1-Dichloroethene	20.01	1.0	20	0	100	70-130	0			
1,2,4-Trichlorobenzene	17.42	1.0	20	0	87.1	65-135	0			
1,2-Dibromo-3-chloropropane	18.18	1.0	20	0	90.9	50-130	0			
1,2-Dibromoethane	19.95	1.0	20	0	99.8	80-120	0			
1,2-Dichlorobenzene	18.4	1.0	20	0	92	70-120	0			
1,2-Dichloroethane	20.16	1.0	20	0	101	70-130	0			
1,2-Dichloropropane	18.67	2.0	20	0	93.4	75-125	0			
1,3-Dichlorobenzene	18.95	2.0	20	0	94.8	75-125	0			
1,4-Dichlorobenzene	18.41	2.0	20	0	92	75-125	0			
2-Butanone	15.24	5.0	20	0	76.2	30-150	0			
2-Hexanone	14.64	5.0	20	0	73.2	55-130	0			
4-Methyl-2-pentanone	20.04	5.0	20	0	100	60-135	0			
Acetone	18.52	20	20	0	92.6	40-140	0			J
Benzene	19.03	1.0	20	0	95.2	80-120	0			
Bromodichloromethane	20.19	1.0	20	0	101	75-120	0			
Bromoform	18.3	1.0	20	0	91.5	70-130	0			
Bromomethane	20.69	1.0	20	0	103	30-145	0			
Carbon disulfide	18.94	2.5	20	0	94.7	35-165	0			
Carbon tetrachloride	19.93	1.0	20	0	99.6	65-140	0			
Chlorobenzene	20.31	1.0	20	0	102	80-120	0			
Chloroethane	16.07	1.0	20	0	80.4	60-135	0			
Chloroform	18.45	1.0	20	0	92.2	65-135	0			
Chloromethane	14.58	1.0	20	0	72.9	70-125	0			
cis-1,2-Dichloroethene	17.3	1.0	20	0	86.5	70-125	0			
cis-1,3-Dichloropropene	19.28	1.0	20	0	96.4	70-130	0			
Dibromochloromethane	17.21	1.0	20	0	86	60-135	0			
Dichlorodifluoromethane	17.07	1.0	20	0	85.4	30-155	0			
Ethylbenzene	19.36	1.0	20	0	96.8	75-125	0			
Isopropylbenzene	18.75	1.0	20	0	93.8	75-125	0			
Methyl tert-butyl ether	16.77	5.0	20	0	83.8	65-125	0			
Methylene chloride	16.6	5.0	20	0	83	55-140	0			
Styrene	18.71	1.0	20	0	93.6	65-135	0			
Tetrachloroethene	19.65	2.0	20	0	98.2	45-150	0			
Toluene	18.62	1.0	20	0	93.1	75-120	0			
trans-1,2-Dichloroethene	18.83	1.0	20	0	94.2	60-140	0			
trans-1,3-Dichloropropene	18.67	1.0	20	0	93.4	55-140	0			
Trichloroethene	21.31	1.0	20	0	107	70-125	0			
Trichlorofluoromethane	19.49	1.0	20	0	97.4	60-145	0			

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130361	Instrument ID VMS9		Method: SW8260				
Vinyl chloride	17.31	1.0	20	0	86.6	50-145	0
Xylenes, Total	59.78	3.0	60	0	99.6	75-130	0
<i>Surr: 1,2-Dichloroethane-d4</i>	19.69	0	20	0	98.4	70-120	0
<i>Surr: 4-Bromofluorobenzene</i>	20.52	0	20	0	103	75-120	0
<i>Surr: Dibromofluoromethane</i>	20.47	0	20	0	102	85-115	0
<i>Surr: Toluene-d8</i>	19.08	0	20	0	95.4	85-120	0

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130361** Instrument ID **VMS9** Method: **SW8260**

MSD				Sample ID: 1311348-17A MSD				Units: µg/L		Analysis Date: 11/12/13 10:20 PM	
Client ID:		Run ID: VMS9_131112A			SeqNo: 2535360		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	20.6	1.0	20	0	103	65-130	21	1.92	30		
1,1,2,2-Tetrachloroethane	18.67	1.0	20	0	93.4	65-130	18.74	0.374	30		
1,1,2-Trichloroethane	18.17	1.0	20	0	90.8	75-125	18.37	1.09	30		
1,1-Dichloroethane	17.89	1.0	20	0	89.4	70-135	17.88	0.0559	30		
1,1-Dichloroethene	19.44	1.0	20	0	97.2	70-130	20.01	2.89	30		
1,2,4-Trichlorobenzene	18.23	1.0	20	0	91.2	65-135	17.42	4.54	30		
1,2-Dibromo-3-chloropropane	17.93	1.0	20	0	89.6	50-130	18.18	1.38	30		
1,2-Dibromoethane	19.83	1.0	20	0	99.2	80-120	19.95	0.603	30		
1,2-Dichlorobenzene	18.43	1.0	20	0	92.2	70-120	18.4	0.163	30		
1,2-Dichloroethane	19.46	1.0	20	0	97.3	70-130	20.16	3.53	30		
1,2-Dichloropropane	18.16	2.0	20	0	90.8	75-125	18.67	2.77	30		
1,3-Dichlorobenzene	18.49	2.0	20	0	92.4	75-125	18.95	2.46	30		
1,4-Dichlorobenzene	18.22	2.0	20	0	91.1	75-125	18.41	1.04	30		
2-Butanone	15.08	5.0	20	0	75.4	30-150	15.24	1.06	30		
2-Hexanone	15.35	5.0	20	0	76.8	55-130	14.64	4.73	30		
4-Methyl-2-pentanone	20.25	5.0	20	0	101	60-135	20.04	1.04	30		
Acetone	18.61	20	20	0	93	40-140	18.52	0	30	J	
Benzene	18.18	1.0	20	0	90.9	80-120	19.03	4.57	30		
Bromodichloromethane	19.73	1.0	20	0	98.6	75-120	20.19	2.3	30		
Bromoform	18.41	1.0	20	0	92	70-130	18.3	0.599	30		
Bromomethane	21.49	1.0	20	0	107	30-145	20.69	3.79	30		
Carbon disulfide	18.89	2.5	20	0	94.4	35-165	18.94	0.264	30		
Carbon tetrachloride	18.71	1.0	20	0	93.6	65-140	19.93	6.31	30		
Chlorobenzene	19.12	1.0	20	0	95.6	80-120	20.31	6.04	30		
Chloroethane	15.8	1.0	20	0	79	60-135	16.07	1.69	30		
Chloroform	18.04	1.0	20	0	90.2	65-135	18.45	2.25	30		
Chloromethane	14.29	1.0	20	0	71.4	70-125	14.58	2.01	30		
cis-1,2-Dichloroethene	17.21	1.0	20	0	86	70-125	17.3	0.522	30		
cis-1,3-Dichloropropene	18.43	1.0	20	0	92.2	70-130	19.28	4.51	30		
Dibromochloromethane	16.73	1.0	20	0	83.6	60-135	17.21	2.83	30		
Dichlorodifluoromethane	16.45	1.0	20	0	82.2	30-155	17.07	3.7	30		
Ethylbenzene	19.43	1.0	20	0	97.2	75-125	19.36	0.361	30		
Isopropylbenzene	18.7	1.0	20	0	93.5	75-125	18.75	0.267	30		
Methyl tert-butyl ether	16.97	5.0	20	0	84.8	65-125	16.77	1.19	30		
Methylene chloride	16.87	5.0	20	0	84.4	55-140	16.6	1.61	30		
Styrene	18.5	1.0	20	0	92.5	65-135	18.71	1.13	30		
Tetrachloroethene	19.33	2.0	20	0	96.6	45-150	19.65	1.64	30		
Toluene	18.92	1.0	20	0	94.6	75-120	18.62	1.6	30		
trans-1,2-Dichloroethene	18.9	1.0	20	0	94.5	60-140	18.83	0.371	30		
trans-1,3-Dichloropropene	18.22	1.0	20	0	91.1	55-140	18.67	2.44	30		
Trichloroethene	20.79	1.0	20	0	104	70-125	21.31	2.47	30		
Trichlorofluoromethane	19.5	1.0	20	0	97.5	60-145	19.49	0.0513	30		

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130361	Instrument ID VMS9			Method: SW8260					
Vinyl chloride	16.6	1.0	20	0	83	50-145	17.31	4.19	30
Xylenes, Total	58.99	3.0	60	0	98.3	75-130	59.78	1.33	30
Surr: 1,2-Dichloroethane-d4	19.76	0	20	0	98.8	70-120	19.69	0.355	30
Surr: 4-Bromofluorobenzene	21.1	0	20	0	106	75-120	20.52	2.79	30
Surr: Dibromofluoromethane	20.56	0	20	0	103	85-115	20.47	0.439	30
Surr: Toluene-d8	19.93	0	20	0	99.6	85-120	19.08	4.36	30

The following samples were analyzed in this batch:	1311287-18A	1311287-32A	1311287-37A
	1311287-58A	1311287-64A	1311287-65A
	1311287-66A		

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130368** Instrument ID **VMS5** Method: **SW8260**

MBLK				Sample ID: VBLKW1-131112-R130368				Units: µg/L		Analysis Date: 11/12/13 02:42 PM	
Client ID:			Run ID: VMS5_131112A			SeqNo: 2534923		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Tetrachloroethene	U	2.0									
Surr: 1,2-Dichloroethane-d4	20.1	0	20	0	100	70-120		0			
Surr: 4-Bromofluorobenzene	19.84	0	20	0	99.2	75-120		0			
Surr: Dibromofluoromethane	19.7	0	20	0	98.5	85-115		0			
Surr: Toluene-d8	19.87	0	20	0	99.4	85-120		0			

LCS				Sample ID: VLCSW1-131112-R130368				Units: µg/L		Analysis Date: 11/12/13 01:27 PM	
Client ID:		Run ID: VMS5_131112A			SeqNo: 2534922		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Tetrachloroethene	20.39	2.0	20	0	102	45-150	0				
Surr: 1,2-Dichloroethane-d4	20.03	0	20	0	100	70-120	0				
Surr: 4-Bromofluorobenzene	20.19	0	20	0	101	75-120	0				
Surr: Dibromofluoromethane	20.16	0	20	0	101	85-115	0				
Surr: Toluene-d8	19.93	0	20	0	99.6	85-120	0				

MS					Sample ID: 1311348-03A MS			Units: µg/L		Analysis Date: 11/12/13 11:37 PM	
Client ID:			Run ID: VMS5_131112A			SeqNo: 2535419		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Tetrachloroethene	25.02	2.0	20	0	125	45-150	0				
Surr: 1,2-Dichloroethane-d4	19.77	0	20	0	98.8	70-120	0				
Surr: 4-Bromofluorobenzene	20.25	0	20	0	101	75-120	0				
Surr: Dibromofluoromethane	19.64	0	20	0	98.2	85-115	0				
Surr: Toluene-d8	19.91	0	20	0	99.6	85-120	0				

MSD					Sample ID: 1311348-03A MSD			Units: µg/L		Analysis Date: 11/13/13 12:02 PM	
Client ID:			Run ID: VMS5_131112A			SeqNo: 2535420		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Tetrachloroethene	27.38	2.0	20	0	137	45-150	25.02	9.01	30		
Surr: 1,2-Dichloroethane-d4	19.88	0	20	0	99.4	70-120	19.77	0.555	30		
Surr: 4-Bromofluorobenzene	20.27	0	20	0	101	75-120	20.25	0.0987	30		
Surr: Dibromofluoromethane	19.87	0	20	0	99.4	85-115	19.64	1.16	30		
Surr: Toluene-d8	19.96	0	20	0	99.8	85-120	19.91	0.251	30		

The following samples were analyzed in this batch:

1311287-30A

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130377** Instrument ID **VMS6** Method: **SW8260**

MBLK					Sample ID: VBLKW1-131112-R130377					Units: µg/L			Analysis Date: 11/12/13 03:59 PM		
Client ID:			Run ID: VMS6_131112A			SeqNo: 2535743			Prep Date:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual					
Tetrachloroethene	U	2.0													
Surr: 1,2-Dichloroethane-d4	18.88	0	20	0	94.4	70-120		0							
Surr: 4-Bromofluorobenzene	19.04	0	20	0	95.2	75-120		0							
Surr: Dibromofluoromethane	18.08	0	20	0	90.4	85-115		0							
Surr: Toluene-d8	19.1	0	20	0	95.5	85-120		0							

LCS					Sample ID: VLCSW1-131112-R130377			Units: µg/L		Analysis Date: 11/12/13 02:46 PM	
Client ID:			Run ID: VMS6_131112A			SeqNo: 2535742		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Tetrachloroethene	20.46	2.0	20	0	102	45-150	0				
<i>Surr: 1,2-Dichloroethane-d4</i>	18.08	0	20	0	90.4	70-120	0				
<i>Surr: 4-Bromofluorobenzene</i>	19.79	0	20	0	99	75-120	0				
<i>Surr: Dibromofluoromethane</i>	19.31	0	20	0	96.6	85-115	0				
<i>Surr: Toluene-d8</i>	18.89	0	20	0	94.4	85-120	0				

MS					Sample ID: 1311337-01A MS		Units: µg/L		Analysis Date: 11/13/13 12:58 PM		
Client ID:			Run ID: VMS6_131112A			SeqNo: 2535757		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Tetrachloroethene	21.03	2.0	20	0	105	45-150	0				
Surr: 1,2-Dichloroethane-d4	19.13	0	20	0	95.6	70-120	0				
Surr: 4-Bromofluorobenzene	19.85	0	20	0	99.2	75-120	0				
Surr: Dibromofluoromethane	19.63	0	20	0	98.2	85-115	0				
Surr: Toluene-d8	18.75	0	20	0	93.8	85-120	0				

MSD					Sample ID: 1311337-01A MSD			Units: µg/L		Analysis Date: 11/13/13 01:23 AM	
Client ID:			Run ID: VMS6_131112A			SeqNo: 2535756		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Tetrachloroethene	20.27	2.0	20	0	101	45-150	21.03	3.68	30		
Surr: 1,2-Dichloroethane-d4	18.79	0	20	0	94	70-120	19.13	1.79	30		
Surr: 4-Bromofluorobenzene	19.71	0	20	0	98.6	75-120	19.85	0.708	30		
Surr: Dibromofluoromethane	19.85	0	20	0	99.2	85-115	19.63	1.11	30		
Surr: Toluene-d8	18.79	0	20	0	94	85-120	18.75	0.213	30		

The following samples were analyzed in this batch:

1311287-31A

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: **R130022** Instrument ID **WETCHEM** Method: **A3500-Cr B-97**

MBLK		Sample ID: MB-R130022-R130022				Units: mg/L		Analysis Date: 11/06/13 04:00 PM		
Client ID:		Run ID: WETCHEM_131106Q				SeqNo: 2525705		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 0.0050

MBLK		Sample ID: MB-R130022-R130022				Units: mg/L		Analysis Date: 11/06/13 04:00 PM		
Client ID:		Run ID: WETCHEM_131106Q				SeqNo: 2525708		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 0.0050

MBLK		Sample ID: MB-R130022-R130022				Units: mg/L		Analysis Date: 11/06/13 04:00 PM		
Client ID:		Run ID: WETCHEM_131106Q				SeqNo: 2525713		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 0.0050

LCS		Sample ID: LCS-R130022-R130022				Units: mg/L		Analysis Date: 11/06/13 04:00 PM		
Client ID:		Run ID: WETCHEM_131106Q				SeqNo: 2525706		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.208 0.0050 0.2 0 104 80-120 0

LCS		Sample ID: LCS-R130022-R130022				Units: mg/L		Analysis Date: 11/06/13 04:00 PM		
Client ID:		Run ID: WETCHEM_131106Q				SeqNo: 2525709		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.208 0.0050 0.2 0 104 80-120 0

LCS		Sample ID: LCS-R130022-R130022				Units: mg/L		Analysis Date: 11/06/13 04:00 PM		
Client ID:		Run ID: WETCHEM_131106Q				SeqNo: 2525714		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.208 0.0050 0.2 0 104 80-120 0

MS		Sample ID: 1311249-07B MS				Units: mg/L		Analysis Date: 11/06/13 04:00 PM		
Client ID:		Run ID: WETCHEM_131106Q				SeqNo: 2525716		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.1236 0.0050 0.2 0.0001 61.8 75-125 0 S

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

Client: Conestoga-Rovers & Associates
Work Order: 1311287
Project: Former GRMP (17360-T01Y13)

QC BATCH REPORT

Batch ID: R130022 Instrument ID WETCHEM Method: A3500-Cr B-97

MSD		Sample ID: 1311249-07B MSD				Units: mg/L		Analysis Date: 11/06/13 04:00 PM			
Client ID:		Run ID: WETCHEM_131106Q				SeqNo: 2525717		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium, Hexavalent	0.134	0.0050	0.2	0.0001	67	75-125	0.1236	8.07	30	S	

The following samples were analyzed in this batch: 1311287-66D

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



**CONESTOGA-ROVERS
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CHAIN OF CUSTODY RECORD

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1311287
COC NO.: **PL-12065**

PAGE 1 OF 2

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-T01Y13				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 017360-T01Y13					
Project Name: Former GRMD				Lab Contact: T. Beamish				Lab Quote No: -				Cooler No: -					
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)					
Chemistry Contact: P. Wiseman				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 (Soil VOC) EnCores 3x5-g, 1x25-g Other: Total Containers/Sample				TCL VOCs MS/MSD Request				Carrier: Fedex CRA					
Sampler(s): E. Batenburg, M. Ramsey												Airbill No: -					
Item SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)				DATE (mm/dd/yy)		TIME (hh:mm)		COMMENTS/ SPECIAL INSTRUCTIONS:									
1 SW-17360-102813-EB-001				10/28/13		1000		X									
2 ↓ ↓ ↓ ↓ -002				↓		1015		↓									
3 WG-17360-102813-MR-003				↓		1410		WG									
4 ↓ ↓ ↓ ↓ -004				↓		1447		↓									
5 ↓ ↓ ↓ ↓ -005				↓		1606		9									
6 ↓ ↓ ↓ ↓ -006				↓		1700		3									
7 ↓ ↓ ↓ ↓ -007				↓		1705		↓									
8 WG-17360-102913-MR-008				10/29/13		1028		↓									
9 ↓ ↓ ↓ ↓ -009				↓		1123		↓									
10 ↓ ↓ ↓ ↓ -010				↓		1202		↓									
11 ↓ ↓ ↓ ↓ -011				↓		1345		↓									
12 ↓ ↓ ↓ ↓ -012				↓		1312		↓									
13 ↓ ↓ ↓ ↓ -013				↓		1554		↓									
14 ↓ ↓ ↓ ↓ -014				↓		1647		↓									
15 SW-17360-102913-MR-024				↓		1705		SW									
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: 51		Notes/ Special Requirements: 2.4'c 3.0'c 1.8'c 3.2'c							
☐ All Samples in Cooler must be on COC																	
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME			
1.		CRA		11-5-13		1750		1.		CRA		11-5-13		1750			
2.		CRA		11-6-13		1005		2.		ALS		11/6/13		1005			
3.								3.									

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1311287
COC NO.: **PL-12064**

PAGE 2 OF 5

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 017360-T01Y13				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-T01Y13							
Project Name: Form GRMP				Lab Contact: T. Beanish				Lab Quote No: -				Cooler No: -							
Project Location: Wyoming, MI				SAMPLE TYPE CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier: Fedex CRA							
Chemistry Contact: P. Wiseman												Airbill No: -							
Sampler(s): E.B. & M.R.				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 (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample TLL VOCs TAL Methyls				Date Shipped: 11-5-13							
												COMMENTS/ SPECIAL INSTRUCTIONS:							
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yy)	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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request		
16	W6-17360-103013-MR-015			10/30/13	1000	W6	G		3							3			
17	-016				1045											4			
18	-017				1050											4			
19	-018				1235											3			
20	-019				1212														
21	-020				1324														
22	-021				1611														
23	-022				1657														
24	-023				1735														
25	W6-17360-103113-MR-025			10/30/13	1021														
26	-026				1058														
27	-027				1103														
28	-028				1234				9							9		X MS/MSD	
29	-029				1317				3							3			
30	-030				1543				3							3			
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:				Notes/ Special Requirements: 2.4°C 3.0°C 1.8°C 3.2°C							
All Samples in Cooler must be on COC																			
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME					
1. [Signature]		CRA		11-5-13		1750		1. [Signature]		CRA		11-5-13		1750					
2. [Signature]		11-6-13		CRA		1005		2. [Signature]		ALS		11/6/13		1005					
3.								3.											

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1311287
COC NO.: **PL-11986**

PAGE 3 OF 5

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-TO1Y13				Laboratory Name: ALS				Lab Location: Holland MI				SSOW ID: 17360-TO1Y13											
Project Name: Former GRMP				Lab Contact: T. Bearish				Lab Quote No:				Cooler No:											
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)											
Chemistry Contact: P. Wiseman				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 (Soil VOC) EnCores 3x5-g, 1x25-g Other: Total Containers/Sample				TCL VOCs TAL Metals MS/MSD Request											
Sampler(s): EB : MR																							
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yy)	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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	TCL VOCs	TAL Metals	MS/MSD Request	Carrier: CRA	Airbill No:	Date Shipped: 11-5-13	COMMENTS/ SPECIAL INSTRUCTIONS:
31	WG-17360-10313-MR-031			10/31/13	1621	WG	G		3							3	X						
32	↓ ↓ ↓ ↓ -032			↓	1724																		
33	↓ ↓ ↓ ↓ -033			↓	1757																		
34	WG-17360-110113-EB-034			11/01/13	1040					1						4	X						
35	↓ ↓ ↓ ↓ -035			↓	1025					(EB)						(EB)	X						no metals sample
36	↓ ↓ ↓ ↓ -036			↓	1240											3							
37	↓ ↓ ↓ ↓ -037			↓	1345																		
38	↓ ↓ ↓ ↓ -038			↓	1455																		
39	↓ ↓ ↓ ↓ -039			↓	1620																		
40	↓ ↓ ↓ ↓ -040			↓	1630																		
41	WG-17360-110413-MR-041			11/04/13	1147				9							9							X AS/MSD
42	↓ ↓ ↓ ↓ -042			↓	1221				3	1						4	X						
43	↓ ↓ ↓ ↓ -043			↓	1337					1							X						
44	↓ ↓ ↓ ↓ -044			↓	1410										(EB)	3							
45	↓ ↓ ↓ ↓ -045			↓	1513										(11-5-13)	3							
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:				Notes/ Special Requirements: 2.4°C 3.2°C 1.8°C 3.0°C											
All Samples in Cooler must be on COC																							
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME									
1.		CRA		11-5-13		1750		1.		CRA		11-5-13		1750									
2.		CRA		11-6-13		1005		2.		ALS		11/6/13		1005									
3.								3.															

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1311287
COC NO.: **PL-11987**
PAGE 4 OF 5

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 17360-TD1Y13				Laboratory Name: ALS				Lab Location: Holland MI				SSOW ID: 17360-TD1Y13							
Project Name: Former GRMP				Lab Contact: T. Bearish				Lab Quote No: —				Cooler No: —							
Project Location: Wyoming, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)							
Chemistry Contact: P. Wizen				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 (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample TCL VOC TAL Metals TCL SVOC							
Sampler(s): EB: MR																			
Carrier: CRA Fedeys				Airbill No: —				Date Shipped: 11-5-13				COMMENTS/ SPECIAL INSTRUCTIONS:							
MS/MSD Request																			
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request				
-46	W6-17360-110413-MR-046	11/04/13	1545	W6	G		3	1											
-47	W6-17360-110413-EB-047		1135				3	1											
-48	↓ ↓ ↓ ↓ -048		1225				3												
-49	↓ ↓ ↓ ↓ -049		1315				3												
-50	↓ ↓ ↓ ↓ -050		1430				3												
-51	↓ ↓ ↓ ↓ -051		1505				3	1											
-52	↓ ↓ ↓ ↓ -052		1545				3	1											
-53	↓ ↓ ↓ ↓ -053		1645				3												
-54	W6-17360-110513-EB-054	11/05/13	1015			4	3								X MS/MSD - SVOCs				
-55	↓ ↓ ↓ ↓ -055		1025			2													
-56	↓ ↓ ↓ ↓ -056		1115			2	3												
-57	W6-17360-110513-MR-057		1111				3	2							X MS/MSD - Metals				
-58	↓ ↓ ↓ ↓ -058		1333			2	3	1											
-59	↓ ↓ ↓ ↓ -059		1247			2	3	1											
-60	↓ ↓ ↓ ↓ -060		1425			2	3	1											
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:						Notes/ Special Requirements: 2.4°C 3.2°C 1.8°C 3.0°C							
All Samples in Cooler must be on COC																			
RELINQUISHED BY				COMPANY		DATE		TIME		RECEIVED BY				COMPANY		DATE		TIME	
1.				CRA		11-5-13		1750		1.				CRA		11-5-13		1750	
2.				CRA		11-6-13		1005		2.				ALS		11/6/13		1005	
3.										3.									

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COC NO.: **PL-12066**

PAGE 5 OF 5

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 17360-T01Y13				Laboratory Name: ALS				Lab Location: Holland, MI				SSOW ID: 17360-T01Y13																																																																																
Project Name: Former GRMP				Lab Contact:				Lab Quote No:				Cooler No: -																																																																																
Project Location: Wyoming, MI				SAMPLE TYPE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Matrix Code (see back of COC)</th> <th>Grab (G) or Comp (C)</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO₃)</th> <th>Sulfuric Acid (H₂SO₄)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> </tr> <tr> <td>W6</td> <td>G</td> <td></td> <td>3</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> </tr> <tr> <td>W6</td> <td>G</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>3</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> </table>				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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	W6	G		3	1						4	W6	G	2								5											3											3											3			3	1							7	ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier: CRA Feder			
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 (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample																																																																														
W6	G		3	1						4																																																																																		
W6	G	2								5																																																																																		
										3																																																																																		
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		3	1							7																																																																																		
Chemistry Contact: P. Wiseman												Airbill No: -																																																																																
Sampler(s): EB: MR												Date Shipped: 11-5-13																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Item</th> <th>SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)</th> <th>DATE (mm/dd/yy)</th> <th>TIME (hh:mm)</th> </tr> <tr> <td>61</td> <td>W6-17360-110513-MR-061</td> <td>11/5/13</td> <td>1120</td> </tr> <tr> <td>62</td> <td>W6-17360-110513-EB-062</td> <td></td> <td>1250</td> </tr> <tr> <td>63</td> <td>-063</td> <td></td> <td>1335</td> </tr> <tr> <td>64</td> <td>-064</td> <td></td> <td>1340</td> </tr> <tr> <td>65</td> <td>-065</td> <td></td> <td>1420</td> </tr> <tr> <td>66</td> <td>-066</td> <td></td> <td>1455</td> </tr> </table>				Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	61	W6-17360-110513-MR-061	11/5/13	1120	62	W6-17360-110513-EB-062		1250	63	-063		1335	64	-064		1340	65	-065		1420	66	-066		1455									COMMENTS/ SPECIAL INSTRUCTIONS:																																																				
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)																																																																																									
61	W6-17360-110513-MR-061	11/5/13	1120																																																																																									
62	W6-17360-110513-EB-062		1250																																																																																									
63	-063		1335																																																																																									
64	-064		1340																																																																																									
65	-065		1420																																																																																									
66	-066		1455																																																																																									
 11-5-13																																																																																												
TAT Required in business days (use separate COCs for different TATs):				Total Number of Containers:				Notes/ Special Requirements: 2.4' 3.2' 1.8' 3.0'																																																																																				
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:				All Samples in Cooler must be on COC																																																																																								
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME																																																																														
1.		CRA		11-5-13		1750		1.		CRA		11-5-13		1750																																																																														
2.		CRA		11-6-13		1005		2.		ALS		11/6/13		1005																																																																														
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: **06-Nov-13 10:05**

Work Order: **1311287**

Received by: **DS**

Checklist completed by <u><i>Diane Shaw</i></u>	06-Nov-13	Reviewed by: <u><i>Tom Bramish</i></u>	06-Nov-13
eSignature	Date	eSignature	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>1.8, 2.4, 3.0, 3.2 c</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/6/2013 4:43:12 PM</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 C

Data Validation Memoranda



MEMORANDUM

To: Jennifer Quigley Ref. No.: 017360-T05Y13

From: Kathy Shaw/eew/2-NF *KMS/eew* Date: December 12, 2013

Re: **Analytical Results and Reduced Validation
Additional Site-Wide Investigation
RACER Grand Rapids Stamping
Grand Rapids, Michigan
November 2013**

1.0 Introduction

The following document details a reduced validation of analytical results for water samples collected in support of the Additional Site-Wide Investigation at the RACER Grand Rapids Stamping Site during November 2013. 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 for soil and groundwater samples 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, 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 the documents entitled:

- i) "Former Grand Rapids Metal Plant Quality Assurance Project Plan (QAPP)", Revision 1, January 2006
- 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 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 prepared and analyzed within the required holding times.

All samples were properly preserved and delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

CRA MEMORANDUM

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 one per analytical batch.

Several laboratory method blanks were reported with parameters detected but the associated sample concentrations were either non-detect or exceeded 5 or 10 (for common laboratory contaminants) times the method blank result; therefore, no qualification was required.

The samples presented in Table 4 were qualified due to laboratory contamination. The remaining method blank samples were reported to be free from detectable levels of target analytes, indicating no additional laboratory-attributable contamination occurred.

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 extraction and analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), and semi-volatile organic compound (SVOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits, the surrogate recoveries met the above criteria.

5.0 Laboratory Control Sample (LCS) 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 one per analytical batch.

Organic Analyses

The LCS contained all compounds of interest. Positive sample results associated with outlying LCS recoveries were qualified as estimated in Table 5. All remaining LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

CRA MEMORANDUM

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 relative percent difference (RPD) between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional site-specific MS/MSD analyses internally.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, 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 seven field duplicate sample sets.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, seven 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 laboratory reporting limit (RL), the evaluation criteria is one times the RL value for water samples.

Most field duplicates results showed adequate reproducibility, indicating satisfactory sampling and laboratory precision. The results for three samples and their field duplicates did show some variability. The original and duplicate sample results were qualified as estimated as detailed in Table 6.

CRA MEMORANDUM

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) unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL.

All soil results were reported on a dry weight basis.

9.0 Conclusion

Based on this assessment of the information provided, the data produced by ALS-MI were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameter</u>		
					TCL VOC	TCL SVOC	TAL Metals
SW-17360-102813-EB-001	C-3	Water	10/28/2013	10:00	X		
SW-17360-102813-EB-002	C-2	Water	10/28/2013	10:15	X		
WG-17360-102813-MR-003	MW6-03	Water	10/28/2013	14:10	X		
WG-17360-102813-MR-004	87-13	Water	10/28/2013	14:47	X		
WG-17360-102813-MR-005	MW5-03	Water	10/28/2013	16:06	X		
WG-17360-102813-MR-006	MW8-04	Water	10/28/2013	17:00	X		
WG-17360-102813-MR-007	MW8-04	Water	10/28/2013	17:05	X		
WG-17360-102913-MR-008	88-4	Water	10/29/2013	10:28	X		
WG-17360-102913-MR-009	88-3	Water	10/29/2013	11:23	X		
WG-17360-102913-MR-010	88-2	Water	10/29/2013	12:02	X		
WG-17360-102913-MR-012	MW48-13	Water	10/29/2013	13:12	X		
WG-17360-102913-MR-011	MW17-06	Water	10/29/2013	13:45	X		
WG-17360-102913-MR-013	MW4-03	Water	10/29/2013	15:54	X		
WG-17360-102913-MR-014	MW9-04	Water	10/29/2013	16:47	X		
SW-17360-102913-MR-024	C-1	Water	10/29/2013	17:05	X		
WG-17360-103013-MR-015	87-10	Water	10/30/2013	10:00	X		X
WG-17360-103013-MR-016	87-11	Water	10/30/2013	10:45	X		X
WG-17360-103013-MR-017	87-11	Water	10/30/2013	10:50	X		
WG-17360-103013-MR-019	MW11S-05	Water	10/30/2013	12:12	X		
WG-17360-103013-MR-018	MW11D-04	Water	10/30/2013	12:35	X		
WG-17360-103013-MR-020	MW10-04	Water	10/30/2013	13:24	X		
WG-17360-103013-MR-021	87-9	Water	10/30/2013	16:11	X		
WG-17360-103013-MR-022	MW7-03	Water	10/30/2013	16:57	X		
WG-17360-103013-MR-023	PWDISCH	Water	10/30/2013	17:35	X		
WG-17360-103113-MR-025	86-3	Water	10/31/2013	10:21	X		
WG-17360-103113-MR-026	87-8	Water	10/31/2013	10:58	X		
WG-17360-103113-MR-027	87-8	Water	10/31/2013	11:03	X		
WG-17360-103113-MR-028	MW28-12	Water	10/31/2013	12:34	X		
WG-17360-103113-MR-029	MW53-12	Water	10/31/2013	13:17	X		
WG-17360-103113-MR-030	MW1-03	Water	10/31/2013	15:43	X		
WG-17360-103113-MR-031	MW49-13	Water	10/31/2013	16:21	X		
WG-17360-103113-MR-032	MW29-12	Water	10/31/2013	17:24	X		
WG-17360-103113-MR-033	MW30-12	Water	10/31/2013	17:57	X		
WG-17360-110113-EB-035	MW15-04	Water	11/01/2013	10:25	X		X
WG-17360-110113-EB-034	85-2	Water	11/01/2013	10:40	X		
WG-17360-110113-EB-036	MW27-11	Water	11/01/2013	12:40	X		
WG-17360-110113-EB-037	85-1	Water	11/01/2013	13:45	X		
WG-17360-110113-EB-038	MW58-13	Water	11/01/2013	14:55	X		
WG-17360-110113-EB-039	MW41-12	Water	11/01/2013	16:20	X		

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameter</u>		
					TCL VOC	TCL SVOC	TAL Metals
WG-17360-110113-EB-040	MW41-12	Water	11/01/2013	16:30	X		X
WG-17360-110413-EB-047	85-7	Water	11/04/2013	11:35	X		
WG-17360-110413-MR-041	MW57-13	Water	11/04/2013	11:47	X		X
WG-17360-110413-MR-042	MW31-12	Water	11/04/2013	12:21	X		
WG-17360-110413-EB-048	MW42-12	Water	11/04/2013	12:25	X		
WG-17360-110413-EB-049	MW43-12	Water	11/04/2013	13:15	X		X
WG-17360-110413-MR-043	MW33-12	Water	11/04/2013	13:37	X		
WG-17360-110413-MR-044	MW32-12	Water	11/04/2013	14:10	X		
WG-17360-110413-EB-050	MW40-12	Water	11/04/2013	14:30	X		X
WG-17360-110413-EB-051	MW39-12	Water	11/04/2013	15:05	X		
WG-17360-110413-MR-045	MW35-12	Water	11/04/2013	15:13	X		X
WG-17360-110413-MR-046	MW34-12	Water	11/04/2013	15:45	X		X
WG-17360-110413-EB-052	MW37-12	Water	11/04/2013	15:45	X		
WG-17360-110413-EB-053	MW36-12	Water	11/04/2013	16:45	X		
WG-17360-110513-EB-054	MW52-12	Water	11/05/2013	10:15	X	X	
WG-17360-110513-EB-055	MW52-12	Water	11/05/2013	10:25		X	X
WG-17360-110513-MR-057	MW38-12	Water	11/05/2013	11:11	X		
WG-17360-110513-EB-056	MW51-12	Water	11/05/2013	11:15	X	X	X
WG-17360-110513-MR-061	MW38-12	Water	11/05/2013	11:20	X		
WG-17360-110513-MR-059	MW50-12	Water	11/05/2013	12:47	X	X	
WG-17360-110513-EB-062	85-6	Water	11/05/2013	12:50	X	X	X
WG-17360-110513-MR-058	MW44-12	Water	11/05/2013	13:33	X	X	
WG-17360-110513-EB-063	MW2-03	Water	11/05/2013	13:35	X		
WG-17360-110513-EB-064	MW2-03	Water	11/05/2013	13:40	X		
WG-17360-110513-EB-065	MW13-04	Water	11/05/2013	14:20	X		X
WG-17360-110513-MR-060	MW45-12	Water	11/05/2013	14:25	X	X	X
WG-17360-110513-EB-066	MW46-12	Water	11/05/2013	14:55	X	X	

Notes:

SVOC - Semi-volatile organic compound

TAL - Target analyte list

TCL - Target compound list

VOC - Volatile organic compound

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 1 MW49-13 WG-17360-103113-MR-031 10/31/2013 34-39 ft BGS	AOI 11 MW41-12 WG-17360-110113-EB-039 11/1/2013 18.3-28.3 ft BGS	AOI 11 MW41-12 WG-17360-110113-EB-040 11/1/2013 Duplicate 18.3-28.3 ft BGS	AOI 15.3 MW29-12 WG-17360-103113-MR-032 10/31/2013 11.4-21.4 ft BGS	AOI 16.1 MW42-12 WG-17360-110413-EB-048 11/4/2013 21-31 ft BGS	AOI 16.3 MW36-12 WG-17360-110413-EB-053 11/4/2013 19.5-29.5 ft BGS
	Units						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 U	50 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.35 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI	AOI 1	AOI 11	AOI 11	AOI 15.3	AOI 16.1	AOI 16.3
Sample Location	MW49-13	MW41-12	MW41-12	MW29-12	MW42-12	MW36-12
Sample Identification	WG-17360-103113-MR-031	WG-17360-110113-EB-039	WG-17360-110113-EB-040	WG-17360-103113-MR-032	WG-17360-110413-EB-048	WG-17360-110413-EB-053
Sample Date	10/31/2013	11/1/2013	11/1/2013	10/31/2013	11/4/2013	11/4/2013
Sample Type			Duplicate			
Sample Depth	34-39 ft BGS	18.3-28.3 ft BGS	18.3-28.3 ft BGS	11.4-21.4 ft BGS	21-31 ft BGS	19.5-29.5 ft BGS
	Units					
Volatile Organic Compounds (VOCs) (Continued)						
Tetrachloroethene	µg/L	330	1.0 U	1.0 U	3.4	1.3
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	2.2	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	1.5 J
Semi-Volatile Organic Compounds (SVOCs)						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location	AOI 1 MW49-13	AOI 11 MW41-12	AOI 11 MW41-12	AOI 15.3 MW29-12	AOI 16.1 MW42-12	AOI 16.3 MW36-12
Sample Identification	WG-17360-103113-MR-031	WG-17360-110113-EB-039	WG-17360-110113-EB-040	WG-17360-103113-MR-032	WG-17360-110413-EB-048	WG-17360-110413-EB-053
Sample Date	10/31/2013	11/1/2013	11/1/2013	10/31/2013	11/4/2013	11/4/2013
Sample Type			Duplicate			
Sample Depth	34-39 ft BGS	18.3-28.3 ft BGS	18.3-28.3 ft BGS	11.4-21.4 ft BGS	21-31 ft BGS	19.5-29.5 ft BGS
Units						
Semi-Volatile Organic Compounds (SVOCs) (Continued)						
Atrazine	µg/L	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI		AOI 1	AOI 11	AOI 11	AOI 15.3	AOI 16.1	AOI 16.3
Sample Location		MW49-13	MW41-12	MW41-12	MW29-12	MW42-12	MW36-12
Sample Identification		WG-17360-103113-MR-031	WG-17360-110113-EB-039	WG-17360-110113-EB-040	WG-17360-103113-MR-032	WG-17360-110413-EB-048	WG-17360-110413-EB-053
Sample Date		10/31/2013	11/1/2013	11/1/2013	10/31/2013	11/4/2013	11/4/2013
Sample Type				Duplicate			
Sample Depth		34-39 ft BGS	18.3-28.3 ft BGS	18.3-28.3 ft BGS	11.4-21.4 ft BGS	21-31 ft BGS	19.5-29.5 ft BGS
Units							
Metals							
Antimony	µg/L	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-
Chromium VI (hexavalent)	µg/L	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-
Molybdenum	µg/L	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 16.4 MW31-12 WG-17360-110413-MR-042 11/4/2013 12.2-22.2 ft BGS	AOI 17.1 MW43-12 WG-17360-110413-EB-049 11/4/2013 15-25 ft BGS	AOI 17.2 MW53-12 WG-17360-103113-MR-029 10/31/2013 13-23 ft BGS	AOI 19 MW38-12 WG-17360-110513-MR-057 11/5/2013 20-30 ft BGS	AOI 19 MW38-12 WG-17360-110513-MR-061 11/5/2013 Duplicate 20-30 ft BGS	AOI 25 87-10 WG-17360-103013-MR-015 10/30/2013 29-32 ft BGS
	Units						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.1	1.1	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	0.94 J	0.93 J	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 U	50 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	5.5	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	16	16	0.81 J
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 16.4 MW31-12 WG-17360-110413-MR-042 11/4/2013 12.2-22.2 ft BGS	AOI 17.1 MW43-12 WG-17360-110413-EB-049 11/4/2013 15-25 ft BGS	AOI 17.2 MW53-12 WG-17360-103113-MR-029 10/31/2013 13-23 ft BGS	AOI 19 MW38-12 WG-17360-110513-MR-057 11/5/2013 20-30 ft BGS	AOI 19 MW38-12 WG-17360-110513-MR-061 11/5/2013 Duplicate 20-30 ft BGS	AOI 25 87-10 WG-17360-103013-MR-015 10/30/2013 29-32 ft BGS
	Units						
<i>Volatile Organic Compounds (VOCs) (Continued)</i>							
Tetrachloroethene	µg/L	6.8	2.7	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.4	1.0 U	1.0 U	5.1	5.1	3.9
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrachloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	11	11	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
<i>Semi-Volatile Organic Compounds (SVOCs)</i>							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 16.4 MW31-12 WG-17360-110413-MR-042 11/4/2013 12.2-22.2 ft BGS	AOI 17.1 MW43-12 WG-17360-110413-EB-049 11/4/2013 15-25 ft BGS	AOI 17.2 MW53-12 WG-17360-103113-MR-029 10/31/2013 13-23 ft BGS	AOI 19 MW38-12 WG-17360-110513-MR-057 11/5/2013 20-30 ft BGS	AOI 19 MW38-12 WG-17360-110513-MR-061 11/5/2013 Duplicate 20-30 ft BGS	AOI 25 87-10 WG-17360-103013-MR-015 10/30/2013 29-32 ft BGS
	Units						
Semi-Volatile Organic Compounds (SVOCs) (Continued)							
Atrazine	µg/L	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

	AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	Units	AOI 16.4	AOI 17.1	AOI 17.2	AOI 19	AOI 19	AOI 25
			MW31-12	MW43-12	MW53-12	MW38-12	MW38-12	87-10
			WG-17360-110413-MR-042	WG-17360-110413-EB-049	WG-17360-103113-MR-029	WG-17360-110513-MR-057	WG-17360-110513-MR-061	WG-17360-103013-MR-015
			11/4/2013	11/4/2013	10/31/2013	11/5/2013	11/5/2013 Duplicate	10/30/2013
			12.2-22.2 ft BGS	15-25 ft BGS	13-23 ft BGS	20-30 ft BGS	20-30 ft BGS	29-32 ft BGS
Metals								
Antimony	µg/L		0.15 J	-	-	5 U	5 U	-
Arsenic	µg/L		5 U	-	-	7.2	6.8	-
Barium	µg/L		37	-	-	130	130	-
Beryllium	µg/L		2 U	-	-	2 U	2 U	-
Cadmium	µg/L		0.27 J	-	-	2 U	0.76 J	-
Chromium	µg/L		1 J	-	-	5 U	5 U	-
Chromium VI (hexavalent)	µg/L		-	-	-	-	-	-
Cobalt	µg/L		0.97 J	-	-	0.46 J	1.2 J	-
Copper	µg/L		1.8 J	-	-	1.6 J	1.4 J	-
Lead	µg/L		0.21 J	-	-	0.55 J	5 U	-
Manganese	µg/L		29	-	-	72	72	-
Mercury	µg/L		0.2 U	-	-	0.2 U	0.2 U	-
Molybdenum	µg/L		3.4 J	-	-	0.52 J	0.5 J	-
Nickel	µg/L		2.8 J	-	-	11	13	-
Selenium	µg/L		1.4 J	-	-	5 U	5 U	-
Silver	µg/L		5 U	-	-	5 U	5 U	-
Thallium	µg/L		5 U	-	-	5 U	5 U	-
Vanadium	µg/L		5 U	-	-	5 U	5 U	-
Zinc	µg/L		2.1 J	-	-	2 J	10 U	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	AOI 25 87-11 WG-17360-103013-MR-016 10/30/2013 30-33 ft BGS	AOI 25 87-11 WG-17360-103013-MR-017 10/30/2013 Duplicate 30-33 ft BGS	AOI 25 87-13 WG-17360-102813-MR-004 10/28/2013 40-43 ft BGS	AOI 25 C-1 SW-17360-102913-MR-024 10/29/2013	AOI 25 C-2 SW-17360-102813-EB-002 10/28/2013	AOI 25 C-3 SW-17360-102813-EB-001 10/28/2013
Units						
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	0.78 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	25 U	25 U	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	8.3	9.2	1.0 U	1.0 U	1.2
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 25 87-11 WG-17360-103013-MR-016 10/30/2013 30-33 ft BGS	AOI 25 87-11 WG-17360-103013-MR-017 10/30/2013 Duplicate 30-33 ft BGS	AOI 25 87-13 WG-17360-102813-MR-004 10/28/2013 40-43 ft BGS	AOI 25 C-1 SW-17360-102913-MR-024 10/29/2013	AOI 25 C-2 SW-17360-102813-EB-002 10/28/2013	AOI 25 C-3 SW-17360-102813-EB-001 10/28/2013
	Units						
Volatile Organic Compounds (VOCs) (Continued)							
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	2.2	1.0 U	2.9
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	17	19	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location	AOI 25 87-11	AOI 25 87-11	AOI 25 87-13	AOI 25 C-1	AOI 25 C-2	AOI 25 C-3
Sample Identification	WG-17360-103013-MR-016	WG-17360-103013-MR-017	WG-17360-102813-MR-004	SW-17360-102913-MR-024	SW-17360-102813-EB-002	SW-17360-102813-EB-001
Sample Date	10/30/2013	10/30/2013	10/28/2013	10/29/2013	10/28/2013	10/28/2013
Sample Type		Duplicate				
Sample Depth	30-33 ft BGS	30-33 ft BGS	40-43 ft BGS			
Units						
Semi-Volatile Organic Compounds (SVOCs) (Continued)						
Atrazine	µg/L	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

	AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	Units	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25
			87-11	87-11	87-13	C-1	C-2	C-3
			WG-17360-103013-MR-016	WG-17360-103013-MR-017	WG-17360-102813-MR-004	SW-17360-102913-MR-024	SW-17360-102813-EB-002	SW-17360-102813-EB-001
			10/30/2013	10/30/2013 Duplicate	10/28/2013	10/29/2013	10/28/2013	10/28/2013
			30-33 ft BGS	30-33 ft BGS	40-43 ft BGS			
Metals								
Antimony	µg/L		0.083 J	0.086 J	-	-	-	-
Arsenic	µg/L		5 U	5 U	-	-	-	-
Barium	µg/L		110	120	-	-	-	-
Beryllium	µg/L		2 U	2 U	-	-	-	-
Cadmium	µg/L		0.54 J	0.35 J	-	-	-	-
Chromium	µg/L		5 U	5 U	-	-	-	-
Chromium VI (hexavalent)	µg/L		-	-	-	-	-	-
Cobalt	µg/L		0.65 J	0.67 J	-	-	-	-
Copper	µg/L		1.1 J	0.92 J	-	-	-	-
Lead	µg/L		0.99 J	0.3 J	-	-	-	-
Manganese	µg/L		74	77	-	-	-	-
Mercury	µg/L		0.2 U	0.2 U	-	-	-	-
Molybdenum	µg/L		0.2 J	0.22 J	-	-	-	-
Nickel	µg/L		4 J	4 J	-	-	-	-
Selenium	µg/L		1 J	0.86 J	-	-	-	-
Silver	µg/L		5 U	5 U	-	-	-	-
Thallium	µg/L		5 U	5 U	-	-	-	-
Vanadium	µg/L		5 U	5 U	-	-	-	-
Zinc	µg/L		1100 J	550 J	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	AOI 25 MW4-03 WG-17360-102913-MR-013 10/29/2013 52-57 ft BGS	AOI 25 MW5-03 WG-17360-102813-MR-005 10/28/2013 30-35 ft BGS	AOI 25 MW6-03 WG-17360-102813-MR-003 10/28/2013 13-18 ft BGS	AOI 25 MW8-04 WG-17360-102813-MR-006 10/28/2013 30-35 ft BGS	AOI 25 MW8-04 WG-17360-102813-MR-007 10/28/2013 Duplicate 30-35 ft BGS	AOI 25 MW9-04 WG-17360-102913-MR-014 10/29/2013 43-48 ft BGS
Units						
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	25 U	25 U	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	25	1.0 U	4.8	1.0
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	Units	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25	AOI 25
		MW4-03	MW5-03	MW6-03	MW8-04	MW8-04	MW9-04
		WG-17360-102913-MR-013	WG-17360-102813-MR-005	WG-17360-102813-MR-003	WG-17360-102813-MR-006	WG-17360-102813-MR-007	WG-17360-102913-MR-014
		10/29/2013	10/28/2013	10/28/2013	10/28/2013	10/28/2013	10/29/2013
		52-57 ft BGS	30-35 ft BGS	13-18 ft BGS	30-35 ft BGS	Duplicate 30-35 ft BGS	43-48 ft BGS
<i>Volatile Organic Compounds (VOCs) (Continued)</i>							
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
<i>Semi-Volatile Organic Compounds (SVOCs)</i>							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 25 MW4-03 WG-17360-102913-MR-013 10/29/2013 52-57 ft BGS	AOI 25 MW5-03 WG-17360-102813-MR-005 10/28/2013 30-35 ft BGS	AOI 25 MW6-03 WG-17360-102813-MR-003 10/28/2013 13-18 ft BGS	AOI 25 MW8-04 WG-17360-102813-MR-006 10/28/2013 30-35 ft BGS	AOI 25 MW8-04 WG-17360-102813-MR-007 10/28/2013 Duplicate 30-35 ft BGS	AOI 25 MW9-04 WG-17360-102913-MR-014 10/29/2013 43-48 ft BGS
Units							
Semi-Volatile Organic Compounds (SVOCs) (Continued)							
Atrazine	µg/L	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

<i>AOI</i>		<i>AOI 25</i>	<i>AOI 25</i>	<i>AOI 25</i>	<i>AOI 25</i>	<i>AOI 25</i>	<i>AOI 25</i>
<i>Sample Location</i>		<i>MW4-03</i>	<i>MW5-03</i>	<i>MW6-03</i>	<i>MW8-04</i>	<i>MW8-04</i>	<i>MW9-04</i>
<i>Sample Identification</i>		<i>WG-17360-102913-MR-013</i>	<i>WG-17360-102813-MR-005</i>	<i>WG-17360-102813-MR-003</i>	<i>WG-17360-102813-MR-006</i>	<i>WG-17360-102813-MR-007</i>	<i>WG-17360-102913-MR-014</i>
<i>Sample Date</i>		<i>10/29/2013</i>	<i>10/28/2013</i>	<i>10/28/2013</i>	<i>10/28/2013</i>	<i>10/28/2013</i>	<i>10/29/2013</i>
<i>Sample Type</i>						<i>Duplicate</i>	
<i>Sample Depth</i>		<i>52-57 ft BGS</i>	<i>30-35 ft BGS</i>	<i>13-18 ft BGS</i>	<i>30-35 ft BGS</i>	<i>30-35 ft BGS</i>	<i>43-48 ft BGS</i>
<i>Units</i>							
<i>Metals</i>							
Antimony	µg/L	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-
Chromium VI (hexavalent)	µg/L	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-
Molybdenum	µg/L	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	AOI 25 MW10-04 WG-17360-103013-MR-020 10/30/2013 33-38 ft BGS	AOI 25, AOI 1, AOI 4.1 MW1-03 WG-17360-103113-MR-030 10/31/2013 30-35 ft BGS	AOI 25, AOI 1, AOI 4.1 MW2-03 WG-17360-110513-EB-063 11/5/2013 22-27 ft BGS	AOI 25, AOI 1, AOI 4.1 MW2-03 WG-17360-110513-EB-064 11/5/2013 Duplicate 22-27 ft BGS	AOI 25, AOI 1, AOI 4.1 MW30-12 WG-17360-103113-MR-033 10/31/2013 25-30 ft BGS	AOI 25, AOI 3 88-2 WG-17360-102913-MR-010 10/29/2013 26-29 ft BGS
Units						
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	25 U	25 U	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	0.82 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	2.2	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 25 MW10-04 WG-17360-103013-MR-020 10/30/2013 33-38 ft BGS	AOI 25, AOI 1, AOI 4.1 MW1-03 WG-17360-103113-MR-030 10/31/2013 30-35 ft BGS	AOI 25, AOI 1, AOI 4.1 MW2-03 WG-17360-110513-EB-063 11/5/2013 22-27 ft BGS	AOI 25, AOI 1, AOI 4.1 MW2-03 WG-17360-110513-EB-064 11/5/2013 Duplicate 22-27 ft BGS	AOI 25, AOI 1, AOI 4.1 MW30-12 WG-17360-103113-MR-033 10/31/2013 25-30 ft BGS	AOI 25, AOI 3 88-2 WG-17360-102913-MR-010 10/29/2013 26-29 ft BGS
Units							
Volatile Organic Compounds (VOCs) (Continued)							
Tetrachloroethene	µg/L	1.0 U	320	7.0	6.8	6.0	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	4.3	1.7	1.0	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	Units	AOI 25 MW10-04 WG-17360-103013-MR-020 10/30/2013 33-38 ft BGS	AOI 25, AOI 1, AOI 4.1 MW1-03 WG-17360-103113-MR-030 10/31/2013 30-35 ft BGS	AOI 25, AOI 1, AOI 4.1 MW2-03 WG-17360-110513-EB-063 11/5/2013 22-27 ft BGS	AOI 25, AOI 1, AOI 4.1 MW2-03 WG-17360-110513-EB-064 11/5/2013 Duplicate 22-27 ft BGS	AOI 25, AOI 1, AOI 4.1 MW30-12 WG-17360-103113-MR-033 10/31/2013 25-30 ft BGS	AOI 25, AOI 3 88-2 WG-17360-102913-MR-010 10/29/2013 26-29 ft BGS
Semi-Volatile Organic Compounds (SVOCs) (Continued)							
Atrazine	µg/L	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

	AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	Units	AOI 25	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 1, AOI 4.1	AOI 25, AOI 3
			MW10-04	MW1-03	MW2-03	MW2-03	MW30-12	88-2
			WG-17360-103013-MR-020	WG-17360-103113-MR-030	WG-17360-110513-EB-063	WG-17360-110513-EB-064	WG-17360-103113-MR-033	WG-17360-102913-MR-010
			10/30/2013	10/31/2013	11/5/2013	11/5/2013 Duplicate	10/31/2013	10/29/2013
			33-38 ft BGS	30-35 ft BGS	22-27 ft BGS	22-27 ft BGS	25-30 ft BGS	26-29 ft BGS
Metals								
Antimony	µg/L	-	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-
Chromium VI (hexavalent)	µg/L	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-
Molybdenum	µg/L	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	AOI 25, AOI 3 88-3 WG-17360-102913-MR-009 10/29/2013 27-30 ft BGS	AOI 25, AOI 3 88-4 WG-17360-102913-MR-008 10/29/2013 18-21 ft BGS	AOI 25, AOI 3 MW11D-04 WG-17360-103013-MR-018 10/30/2013 40-45 ft BGS	AOI 25, AOI 3 MW11S-05 WG-17360-103013-MR-019 10/30/2013 5-10 ft BGS	AOI 25, AOI 3 MW17-06 WG-17360-102913-MR-011 10/29/2013 51-56 ft BGS	AOI 25, AOI 4.1 MW13-04 WG-17360-110513-EB-065 11/5/2013 25-30 ft BGS
Units						
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	25 U	25 U	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	0.76 J	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	57	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 25, AOI 3 88-3 WG-17360-102913-MR-009 10/29/2013 27-30 ft BGS	AOI 25, AOI 3 88-4 WG-17360-102913-MR-008 10/29/2013 18-21 ft BGS	AOI 25, AOI 3 MW11D-04 WG-17360-103013-MR-018 10/30/2013 40-45 ft BGS	AOI 25, AOI 3 MW11S-05 WG-17360-103013-MR-019 10/30/2013 5-10 ft BGS	AOI 25, AOI 3 MW17-06 WG-17360-102913-MR-011 10/29/2013 51-56 ft BGS	AOI 25, AOI 4.1 MW13-04 WG-17360-110513-EB-065 11/5/2013 25-30 ft BGS
	Units						
Volatile Organic Compounds (VOCs) (Continued)							
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	92	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.2	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.7	1.0 U	9.4	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 25, AOI 3 88-3 WG-17360-102913-MR-009 10/29/2013 27-30 ft BGS	AOI 25, AOI 3 88-4 WG-17360-102913-MR-008 10/29/2013 18-21 ft BGS	AOI 25, AOI 3 MW11D-04 WG-17360-103013-MR-018 10/30/2013 40-45 ft BGS	AOI 25, AOI 3 MW11S-05 WG-17360-103013-MR-019 10/30/2013 5-10 ft BGS	AOI 25, AOI 3 MW17-06 WG-17360-102913-MR-011 10/29/2013 51-56 ft BGS	AOI 25, AOI 4.1 MW13-04 WG-17360-110513-EB-065 11/5/2013 25-30 ft BGS
Semi-Volatile Organic Compounds (SVOCs) (Continued)	Units						
Atrazine	µg/L	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

	AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	Units	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 3	AOI 25, AOI 4.1
			88-3	88-4	MW11D-04	MW11S-05	MW17-06	MW13-04
			WG-17360-102913-MR-009	WG-17360-102913-MR-008	WG-17360-103013-MR-018	WG-17360-103013-MR-019	WG-17360-102913-MR-011	WG-17360-110513-EB-065
			10/29/2013	10/29/2013	10/30/2013	10/30/2013	10/29/2013	11/5/2013
			27-30 ft BGS	18-21 ft BGS	40-45 ft BGS	5-10 ft BGS	51-56 ft BGS	25-30 ft BGS
Metals								
Antimony	µg/L	-	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-
Chromium VI (hexavalent)	µg/L	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-
Molybdenum	µg/L	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	AOI 25, AOI 4.1 MW15-04 WG-17360-110113-EB-035 11/1/2013 25-30 ft BGS	AOI 25, AOI 4.1 MW33-12 WG-17360-110413-MR-043 11/4/2013 31-36 ft BGS	AOI 25, AOI 4.1 MW34-12 WG-17360-110413-MR-046 11/4/2013 14.4-24.4 ft BGS	AOI 25, AOI 4.1 MW35-12 WG-17360-110413-MR-045 11/4/2013 24.6-29.6 ft BGS	AOI 25, AOI 4.1 MW37-12 WG-17360-110413-EB-052 11/4/2013 19.4-29.4 ft BGS	AOI 25, AOI 4.1 MW39-12 WG-17360-110413-EB-051 11/4/2013 35.4-40.4 ft BGS
Units						
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	4.0	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	25 U	25 U	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.2
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1
Sample Location	MW15-04	MW33-12	MW34-12	MW35-12	MW37-12	MW39-12
Sample Identification	WG-17360-110113-EB-035	WG-17360-110413-MR-043	WG-17360-110413-MR-046	WG-17360-110413-MR-045	WG-17360-110413-EB-052	WG-17360-110413-EB-051
Sample Date	11/1/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013
Sample Type						
Sample Depth	25-30 ft BGS	31-36 ft BGS	14.4-24.4 ft BGS	24.6-29.6 ft BGS	19.4-29.4 ft BGS	35.4-40.4 ft BGS
Units						
Volatile Organic Compounds (VOCs) (Continued)						
Tetrachloroethene	µg/L	1.0 U	2.3	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.7	4.9	29	12
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.2
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Semi-Volatile Organic Compounds (SVOCs)						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	Units	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1	AOI 25, AOI 4.1
		MW15-04	MW33-12	MW34-12	MW35-12	MW37-12	MW39-12
		WG-17360-110113-EB-035	WG-17360-110413-MR-043	WG-17360-110413-MR-046	WG-17360-110413-MR-045	WG-17360-110413-EB-052	WG-17360-110413-EB-051
		11/1/2013	11/1/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013
		25-30 ft BGS	31-36 ft BGS	14.4-24.4 ft BGS	24.6-29.6 ft BGS	19.4-29.4 ft BGS	35.4-40.4 ft BGS
Semi-Volatile Organic Compounds (SVOCs) (Continued)							
Atrazine	µg/L	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

	AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth						
		AOI 25, AOI 4.1 MW15-04	AOI 25, AOI 4.1 MW33-12	AOI 25, AOI 4.1 MW34-12	AOI 25, AOI 4.1 MW35-12	AOI 25, AOI 4.1 MW37-12	AOI 25, AOI 4.1 MW39-12
		WG-17360-110113-EB-035	WG-17360-110413-MR-043	WG-17360-110413-MR-046	WG-17360-110413-MR-045	WG-17360-110413-EB-052	WG-17360-110413-EB-051
		11/1/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013
		25-30 ft BGS	31-36 ft BGS	14.4-24.4 ft BGS	24.6-29.6 ft BGS	19.4-29.4 ft BGS	35.4-40.4 ft BGS
	Units						
Metals							
Antimony	µg/L	-	0.23 J	0.11 J	-	0.073 J	0.076 J
Arsenic	µg/L	-	0.74 J	5 U	-	5 U	5 U
Barium	µg/L	-	39	29	-	100	65
Beryllium	µg/L	-	2 U	2 U	-	2 U	2 U
Cadmium	µg/L	-	0.43 J	0.47 J	-	0.47 J	0.6 J
Chromium	µg/L	-	5 U	2.1 J	-	1.5 J	5 U
Chromium VI (hexavalent)	µg/L	-	-	-	-	-	-
Cobalt	µg/L	-	4.8 J	2.2 J	-	11	11
Copper	µg/L	-	3.2 J	3.2 J	-	5.2	6.4
Lead	µg/L	-	0.18 J	0.51 J	-	0.45 J	0.35 J
Manganese	µg/L	-	360	15 U	-	250	150
Mercury	µg/L	-	0.2 U	0.2 U	-	0.2 U	0.2 U
Molybdenum	µg/L	-	8.6	38	-	0.58 J	6.1
Nickel	µg/L	-	7.6	3.1 J	-	9.5	9.7
Selenium	µg/L	-	0.94 J	2.4 J	-	1.4 J	1.1 J
Silver	µg/L	-	5 U	5 U	-	5 U	5 U
Thallium	µg/L	-	5 U	5 U	-	5 U	5 U
Vanadium	µg/L	-	5 U	1.4 J	-	0.22 J	0.37 J
Zinc	µg/L	-	1.2 J	3 J	-	4.6 J	3.8 J

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	AOI 25, AOI 4.1 MW40-12 WG-17360-110413-EB-050 11/4/2013 45-50 ft BGS	AOI 25, AOI 4.3 86-3 WG-17360-103113-MR-025 10/31/2013 41.5-46.5 ft BGS	AOI 25, AOI 4.3 87-8 WG-17360-103113-MR-026 10/31/2013 19.7-22.7 ft BGS	AOI 25, AOI 4.3 87-8 WG-17360-103113-MR-027 10/31/2013 Duplicate 19.7-22.7 ft BGS	AOI 25, AOI 4.3 87-9 WG-17360-103013-MR-021 10/30/2013 50.5-53.5 ft BGS	AOI 25, AOI 4.3 MW7-03 WG-17360-103013-MR-022 10/30/2013 36-41 ft BGS
Units						
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	25 U	25 U	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	0.88 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI	AOI 25, AOI 4.1	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3
Sample Location	MW40-12	86-3	87-8	87-8	87-9	MW7-03
Sample Identification	WG-17360-110413-EB-050	WG-17360-103113-MR-025	WG-17360-103113-MR-026	WG-17360-103113-MR-027	WG-17360-103013-MR-021	WG-17360-103013-MR-022
Sample Date	11/4/2013	10/31/2013	10/31/2013	10/31/2013	10/30/2013	10/30/2013
Sample Type				Duplicate		
Sample Depth	45-50 ft BGS	41.5-46.5 ft BGS	19.7-22.7 ft BGS	19.7-22.7 ft BGS	50.5-53.5 ft BGS	36-41 ft BGS
	Units					
Volatile Organic Compounds (VOCs) (Continued)						
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	7.2	7.2	1.0 U	1.0 U	1.2
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Semi-Volatile Organic Compounds (SVOCs)						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 25, AOI 4.1 MW40-12 WG-17360-110413-EB-050 11/4/2013 45-50 ft BGS	AOI 25, AOI 4.3 86-3 WG-17360-103113-MR-025 10/31/2013 41.5-46.5 ft BGS	AOI 25, AOI 4.3 87-8 WG-17360-103113-MR-026 10/31/2013 19.7-22.7 ft BGS	AOI 25, AOI 4.3 87-8 WG-17360-103113-MR-027 10/31/2013 Duplicate 19.7-22.7 ft BGS	AOI 25, AOI 4.3 87-9 WG-17360-103013-MR-021 10/30/2013 50.5-53.5 ft BGS	AOI 25, AOI 4.3 MW7-03 WG-17360-103013-MR-022 10/30/2013 36-41 ft BGS
Units							
Semi-Volatile Organic Compounds (SVOCs) (Continued)							
Atrazine	µg/L	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI		AOI 25, AOI 4.1	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3	AOI 25, AOI 4.3
Sample Location		MW40-12	86-3	87-8	87-8	87-9	MW7-03
Sample Identification		WG-17360-110413-EB-050	WG-17360-103113-MR-025	WG-17360-103113-MR-026	WG-17360-103113-MR-027	WG-17360-103013-MR-021	WG-17360-103013-MR-022
Sample Date		11/4/2013	10/31/2013	10/31/2013	10/31/2013	10/30/2013	10/30/2013
Sample Type					Duplicate		
Sample Depth		45-50 ft BGS	41.5-46.5 ft BGS	19.7-22.7 ft BGS	19.7-22.7 ft BGS	50.5-53.5 ft BGS	36-41 ft BGS
Units							
Metals							
Antimony	µg/L	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-
Chromium VI (hexavalent)	µg/L	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-
Molybdenum	µg/L	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	AOI 25, AOI 4.3 PWDISCH WG-17360-103013-MR-023 10/30/2013 45-55 ft BGS	AOI 27 MW27-11 WG-17360-110113-EB-036 11/1/2013 12.5-17.5 ft BGS	AOI 3 MW48-13 WG-17360-102913-MR-012 10/29/2013 46-51 ft BGS	AOI 31 MW57-13 WG-17360-110413-MR-041 11/4/2013 10-20 ft BGS	AOI 4.1 MW58-13 WG-17360-110113-EB-038 11/1/2013 13.5-18.5 ft BGS	AOI 6 MW45-12 WG-17360-110513-MR-060 11/5/2013 19.1-29.1 ft BGS
Units						
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	25 U	25 U	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	0.83 J	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth						
	AOI 25, AOI 4.3	AOI 27	AOI 3	AOI 31	AOI 4.1	AOI 6
	PWDISCH	MW27-11	MW48-13	MW57-13	MW58-13	MW45-12
	WG-17360-103013-MR-023	WG-17360-110113-EB-036	WG-17360-102913-MR-012	WG-17360-110413-MR-041	WG-17360-110113-EB-038	WG-17360-110513-MR-060
	10/30/2013	11/1/2013	10/29/2013	11/4/2013	11/1/2013	11/5/2013
	45-55 ft BGS	12.5-17.5 ft BGS	46-51 ft BGS	10-20 ft BGS	13.5-18.5 ft BGS	19.1-29.1 ft BGS
	Units					
<i>Volatile Organic Compounds (VOCs) (Continued)</i>						
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.9
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.8	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
<i>Semi-Volatile Organic Compounds (SVOCs)</i>						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	5.0 U
2,4,5-Trichlorophenol	µg/L	-	-	-	-	5.0 U
2,4,6-Trichlorophenol	µg/L	-	-	-	-	5.0 U
2,4-Dichlorophenol	µg/L	-	-	-	-	10 U
2,4-Dimethylphenol	µg/L	-	-	-	-	5.0 U
2,4-Dinitrophenol	µg/L	-	-	-	-	5.0 U
2,4-Dinitrotoluene	µg/L	-	-	-	-	5.0 U
2,6-Dinitrotoluene	µg/L	-	-	-	-	5.0 U
2-Chloronaphthalene	µg/L	-	-	-	-	5.0 U
2-Chlorophenol	µg/L	-	-	-	-	5.0 U
2-Methylnaphthalene	µg/L	-	-	-	-	5.0 U
2-Methylphenol	µg/L	-	-	-	-	5.0 U
2-Nitroaniline	µg/L	-	-	-	-	20 U
2-Nitrophenol	µg/L	-	-	-	-	5.0 U
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	5.0 U
3-Nitroaniline	µg/L	-	-	-	-	20 U
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	20 U
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	5.0 U
4-Chloro-3-methylphenol	µg/L	-	-	-	-	5.0 U
4-Chloroaniline	µg/L	-	-	-	-	20 U
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	5.0 U
4-Methylphenol	µg/L	-	-	-	-	5.0 U
4-Nitroaniline	µg/L	-	-	-	-	20 U
4-Nitrophenol	µg/L	-	-	-	-	20 U
Acenaphthene	µg/L	-	-	-	-	5.0 U
Acenaphthylene	µg/L	-	-	-	-	5.0 U
Acetophenone	µg/L	-	-	-	-	1.0 U
Anthracene	µg/L	-	-	-	-	5.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	Units	AOI 25, AOI 4.3	AOI 27	AOI 3	AOI 31	AOI 4.1	AOI 6
		PWDISCH	MW27-11	MW48-13	MW57-13	MW58-13	MW45-12
		WG-17360-103013-MR-023	WG-17360-110113-EB-036	WG-17360-102913-MR-012	WG-17360-110413-MR-041	WG-17360-110113-EB-038	WG-17360-110513-MR-060
		10/30/2013	11/1/2013	10/29/2013	11/4/2013	11/1/2013	11/5/2013
		45-55 ft BGS	12.5-17.5 ft BGS	46-51 ft BGS	10-20 ft BGS	13.5-18.5 ft BGS	19.1-29.1 ft BGS
Semi-Volatile Organic Compounds (SVOCs) (Continued)							
Atrazine	µg/L	-	-	-	-	-	1.0 U
Benzaldehyde	µg/L	-	-	-	-	-	1.0 U
Benzo(a)anthracene	µg/L	-	-	-	-	-	5.0 U
Benzo(a)pyrene	µg/L	-	-	-	-	-	5.0 U
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	5.0 U
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	5.0 U
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	5.0 U
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	5.0 U
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	5.0 U
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	5.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	5.0 U
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	5.0 U
Caprolactam	µg/L	-	-	-	-	-	10 U
Carbazole	µg/L	-	-	-	-	-	10 U
Chrysene	µg/L	-	-	-	-	-	5.0 U
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	5.0 U
Dibenzofuran	µg/L	-	-	-	-	-	5.0 U
Diethyl phthalate	µg/L	-	-	-	-	-	20 U
Dimethyl phthalate	µg/L	-	-	-	-	-	20 U
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	5.0 U
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	5.0 U
Fluoranthene	µg/L	-	-	-	-	-	5.0 U
Fluorene	µg/L	-	-	-	-	-	5.0 U
Hexachlorobenzene	µg/L	-	-	-	-	-	5.0 U
Hexachlorobutadiene	µg/L	-	-	-	-	-	5.0 U
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	20 U
Hexachloroethane	µg/L	-	-	-	-	-	5.0 U
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	5.0 U
Isophorone	µg/L	-	-	-	-	-	5.0 U
Naphthalene	µg/L	-	-	-	-	-	5.0 U
Nitrobenzene	µg/L	-	-	-	-	-	5.0 U
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	5.0 U
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	5.0 U
Pentachlorophenol	µg/L	-	-	-	-	-	20 U
Phenanthrene	µg/L	-	-	-	-	-	5.0 U
Phenol	µg/L	-	-	-	-	-	5.0 U
Pyrene	µg/L	-	-	-	-	-	5.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

	AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	Units	AOI 25, AOI 4.3	AOI 27	AOI 3	AOI 31	AOI 4.1	AOI 6
			PWDISCH	MW27-11	MW48-13	MW57-13	MW58-13	MW45-12
			WG-17360-103013-MR-023	WG-17360-110113-EB-036	WG-17360-102913-MR-012	WG-17360-110413-MR-041	WG-17360-110113-EB-038	WG-17360-110513-MR-060
			10/30/2013	11/1/2013	10/29/2013	11/4/2013	11/1/2013	11/5/2013
			45-55 ft BGS	12.5-17.5 ft BGS	46-51 ft BGS	10-20 ft BGS	13.5-18.5 ft BGS	19.1-29.1 ft BGS
Metals								
Antimony	µg/L	-	-	-	-	-	-	0.11 J
Arsenic	µg/L	-	-	-	-	-	-	1.9 J
Barium	µg/L	-	-	-	-	-	-	120
Beryllium	µg/L	-	-	-	-	-	-	2 U
Cadmium	µg/L	-	-	-	-	-	-	1 J
Chromium	µg/L	-	-	-	-	-	-	0.45 J
Chromium VI (hexavalent)	µg/L	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	0.9 J
Copper	µg/L	-	-	-	-	-	-	2.7 J
Lead	µg/L	-	-	-	-	-	-	5 U
Manganese	µg/L	-	-	-	-	-	-	390
Mercury	µg/L	-	-	-	-	-	-	0.2 U
Molybdenum	µg/L	-	-	-	-	-	-	1.8 J
Nickel	µg/L	-	-	-	-	-	-	16
Selenium	µg/L	-	-	-	-	-	-	0.71 J
Silver	µg/L	-	-	-	-	-	-	5 U
Thallium	µg/L	-	-	-	-	-	-	5 U
Vanadium	µg/L	-	-	-	-	-	-	5 U
Zinc	µg/L	-	-	-	-	-	-	10 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	AOI 6 MW50-12 WG-17360-110513-MR-059 11/5/2013 17-27 ft BGS	AOI 6 MW51-12 WG-17360-110513-EB-056 11/5/2013 17-27 ft BGS	AOI 6 MW52-12 WG-17360-110513-EB-054 11/5/2013 16.7-26.7 ft BGS	AOI 6 MW52-12 WG-17360-110513-EB-055 11/5/2013 Duplicate 16.7-26.7 ft BGS	AOI 6, AOI 25, AOI 1, AOI 4.1 85-6 WG-17360-110513-EB-062 11/5/2013 19.5-24.5 ft BGS	AOI 6, AOI 25, AOI 19, AOI 4.1 MW44-12 WG-17360-110513-MR-058 11/5/2013 18.5-28.5 ft BGS
Units						
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	-	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	3.5 J	-	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	-	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	4.3 J	-	50 U
Acetone	µg/L	50 U	8.2 J	13 J	-	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	-	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	-	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	-	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	-	5.0 U
cis-1,2-Dichloroethene	µg/L	0.65 J	1.0 U	1.0 U	-	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	-	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	-	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.9	-	1.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	2.8 J	-	5.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	-	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	-	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	-	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.3	-	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 6 MW50-12 WG-17360-110513-MR-059 11/5/2013 17-27 ft BGS	AOI 6 MW51-12 WG-17360-110513-EB-056 11/5/2013 17-27 ft BGS	AOI 6 MW52-12 WG-17360-110513-EB-054 11/5/2013 16.7-26.7 ft BGS	AOI 6 MW52-12 WG-17360-110513-EB-055 11/5/2013 Duplicate 16.7-26.7 ft BGS	AOI 6, AOI 25, AOI 1, AOI 4.1 85-6 WG-17360-110513-EB-062 11/5/2013 19.5-24.5 ft BGS	AOI 6, AOI 25, AOI 19, AOI 4.1 MW44-12 WG-17360-110513-MR-058 11/5/2013 18.5-28.5 ft BGS
	Units						
Volatile Organic Compounds (VOCs) (Continued)							
Tetrachloroethene	µg/L	5.3	2.6	1.0 U	-	7.1	1.0 U
Toluene	µg/L	1.0 U	1.0 U	0.29 J	-	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U
Trichloroethene	µg/L	1.1	1.1	1.0 U	-	1.5	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	1.6 J	-	3.0 U	3.4
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	µg/L	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 J
2,4-Dinitrophenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitroaniline	µg/L	20 U	20 U	20 U	20 U	20 U	20 U
2-Nitrophenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	µg/L	20 U	20 U	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	µg/L	20 U	20 U	20 U	20 U	20 U	20 U
4-Bromophenyl phenyl ether	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	µg/L	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenyl phenyl ether	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	µg/L	5.0 U	5.0 U	1.3 J	5.0 U	5.0 U	5.0 U
4-Nitroaniline	µg/L	20 U	20 U	20 U	20 U	20 U	20 U
4-Nitrophenol	µg/L	20 U	20 U	20 U	20 U	20 U	20 U
Acenaphthene	µg/L	5.0 U	5.0 U	1.1 J	1.0 J	5.0 U	5.0 U
Acenaphthylene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetophenone	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Anthracene	µg/L	5.0 U	5.0 U	1.6 J	0.83 J	5.0 U	5.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	AOI 6 MW50-12 WG-17360-110513-MR-059 11/5/2013 17-27 ft BGS	AOI 6 MW51-12 WG-17360-110513-EB-056 11/5/2013 17-27 ft BGS	AOI 6 MW52-12 WG-17360-110513-EB-054 11/5/2013 16.7-26.7 ft BGS	AOI 6 MW52-12 WG-17360-110513-EB-055 11/5/2013 Duplicate 16.7-26.7 ft BGS	AOI 6, AOI 25, AOI 1, AOI 4.1 85-6 WG-17360-110513-EB-062 11/5/2013 19.5-24.5 ft BGS	AOI 6, AOI 25, AOI 19, AOI 4.1 MW44-12 WG-17360-110513-MR-058 11/5/2013 18.5-28.5 ft BGS
Units						
Semi-Volatile Organic Compounds (SVOCs) (Continued)						
Atrazine	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzaldehyde	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)anthracene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Biphenyl (1,1-Biphenyl)	µg/L	5.0 U	5.0 U	0.65 J	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Butyl benzylphthalate (BBP)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Caprolactam	µg/L	10 U	10 U	10 U	10 U	10 U
Carbazole	µg/L	10 U	10 U	10 U	1.9 J	1.2 J
Chrysene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	µg/L	5.0 U	5.0 U	0.85 J	1.1 J	5.0 U
Diethyl phthalate	µg/L	20 U	20 U	20 U	20 U	20 U
Dimethyl phthalate	µg/L	20 U	20 U	20 U	20 U	20 U
Di-n-butylphthalate (DBP)	µg/L	5.0 U	5.0 U	5.0 U	0.82 J	5.0 U
Di-n-octyl phthalate (DnOP)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	µg/L	5.0 U	5.0 U	5.0 U	1.1 J	5.0 U
Fluorene	µg/L	5.0 U	5.0 U	2.7 J	3.4 J	5.0 U
Hexachlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	µg/L	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	µg/L	5.0 U	5.0 U	7.9	7.4	1.1 J
Nitrobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodi-n-propylamine	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodiphenylamine	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	µg/L	20 U	20 U	20 U	20 U	20 U
Phenanthrene	µg/L	5.0 U	5.0 U	2.1 J	2.0 J	5.0 U
Phenol	µg/L	5.0 U	5.0 U	1.2 J	5.0 U	5.0 U
Pyrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

	AOI	AOI 6	AOI 6	AOI 6	AOI 6	AOI 6, AOI 25, AOI 1, AOI 4.1	AOI 6, AOI 25, AOI 19, AOI 4.1
	Sample Location	MW50-12	MW51-12	MW52-12	MW52-12	85-6	MW44-12
	Sample Identification	WG-17360-110513-MR-059	WG-17360-110513-EB-056	WG-17360-110513-EB-054	WG-17360-110513-EB-055	WG-17360-110513-EB-062	WG-17360-110513-MR-058
	Sample Date	11/5/2013	11/5/2013	11/5/2013	11/5/2013	11/5/2013	11/5/2013
	Sample Type				Duplicate		
	Sample Depth	17-27 ft BGS	17-27 ft BGS	16.7-26.7 ft BGS	16.7-26.7 ft BGS	19.5-24.5 ft BGS	18.5-28.5 ft BGS
	Units						
Metals							
Antimony	µg/L	-	-	-	-	-	0.16 J
Arsenic	µg/L	-	-	-	-	-	39
Barium	µg/L	-	-	-	-	-	100
Beryllium	µg/L	-	-	-	-	-	2 U
Cadmium	µg/L	-	-	-	-	-	0.72 J
Chromium	µg/L	-	-	-	-	-	0.47 J
Chromium VI (hexavalent)	µg/L	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	2.1 J
Copper	µg/L	-	-	-	-	-	3.9 J
Lead	µg/L	-	-	-	-	-	0.84 J
Manganese	µg/L	-	-	-	-	-	270
Mercury	µg/L	-	-	-	-	-	0.2 U
Molybdenum	µg/L	-	-	-	-	-	3 J
Nickel	µg/L	-	-	-	-	-	16
Selenium	µg/L	-	-	-	-	-	0.7 J
Silver	µg/L	-	-	-	-	-	5 U
Thallium	µg/L	-	-	-	-	-	0.29 J
Vanadium	µg/L	-	-	-	-	-	0.54 J
Zinc	µg/L	-	-	-	-	-	10 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth	AOI 6, AOI 25, AOI 4.1 85-1 WG-17360-110113-EB-037 11/1/2013 15.5-20.5 ft BGS	AOI 6, AOI 25, AOI 4.1 85-2 WG-17360-110113-EB-034 11/1/2013 13.5-18.5 ft BGS	AOI 6, AOI 25, AOI 4.1 85-7 WG-17360-110413-EB-047 11/4/2013 20.6-25.6 ft BGS	AOI 6, AOI 25, AOI 4.1 MW46-12 WG-17360-110513-EB-066 11/5/2013 20.2-30.2 ft BGS	AOI 7.1, AOI 26.2 MW32-12 WG-17360-110413-MR-044 11/4/2013 13.9-23.9 ft BGS	AOI 8.2 MW28-12 WG-17360-103113-MR-028 10/31/2013 14-19 ft BGS
Units						
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	1.0 U	4.7	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	0.92 J	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	25 U	25 U	25 U	25 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.3
Chloromethane (Methyl chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	2.2	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth		AOI 6, AOI 25, AOI 4.1 85-1 WG-17360-110113-EB-037 11/1/2013 15.5-20.5 ft BGS	AOI 6, AOI 25, AOI 4.1 85-2 WG-17360-110113-EB-034 11/1/2013 13.5-18.5 ft BGS	AOI 6, AOI 25, AOI 4.1 85-7 WG-17360-110413-EB-047 11/4/2013 20.6-25.6 ft BGS	AOI 6, AOI 25, AOI 4.1 MW46-12 WG-17360-110513-EB-066 11/5/2013 20.2-30.2 ft BGS	AOI 7.1, AOI 26.2 MW32-12 WG-17360-110413-MR-044 11/4/2013 13.9-23.9 ft BGS	AOI 8.2 MW28-12 WG-17360-103113-MR-028 10/31/2013 14-19 ft BGS
	Units						
Volatile Organic Compounds (VOCs) (Continued)							
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.5	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.6	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Semi-Volatile Organic Compounds (SVOCs)							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	5.0 U	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	5.0 U	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	5.0 U	-	-
2,4-Dichlorophenol	µg/L	-	-	-	10 U	-	-
2,4-Dimethylphenol	µg/L	-	-	-	5.0 U	-	-
2,4-Dinitrophenol	µg/L	-	-	-	5.0 U	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	5.0 U	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	5.0 U	-	-
2-Chloronaphthalene	µg/L	-	-	-	5.0 U	-	-
2-Chlorophenol	µg/L	-	-	-	5.0 U	-	-
2-Methylnaphthalene	µg/L	-	-	-	5.0 U	-	-
2-Methylphenol	µg/L	-	-	-	5.0 U	-	-
2-Nitroaniline	µg/L	-	-	-	20 U	-	-
2-Nitrophenol	µg/L	-	-	-	5.0 U	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	5.0 U	-	-
3-Nitroaniline	µg/L	-	-	-	20 U	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	20 U	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	5.0 U	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	5.0 U	-	-
4-Chloroaniline	µg/L	-	-	-	20 U	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	5.0 U	-	-
4-Methylphenol	µg/L	-	-	-	5.0 U	-	-
4-Nitroaniline	µg/L	-	-	-	20 U	-	-
4-Nitrophenol	µg/L	-	-	-	20 U	-	-
Acenaphthene	µg/L	-	-	-	5.0 U	-	-
Acenaphthylene	µg/L	-	-	-	5.0 U	-	-
Acetophenone	µg/L	-	-	-	1.0 U	-	-
Anthracene	µg/L	-	-	-	5.0 U	-	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

AOI	AOI 6, AOI 25, AOI 4.1	AOI 6, AOI 25, AOI 4.1	AOI 6, AOI 25, AOI 4.1	AOI 6, AOI 25, AOI 4.1	AOI 7.1, AOI 26.2	AOI 8.2
Sample Location	85-1	85-2	85-7	MW46-12	MW32-12	MW28-12
Sample Identification	WG-17360-110113-EB-037	WG-17360-110113-EB-034	WG-17360-110413-EB-047	WG-17360-110513-EB-066	WG-17360-110413-MR-044	WG-17360-103113-MR-028
Sample Date	11/1/2013	11/1/2013	11/4/2013	11/5/2013	11/4/2013	10/31/2013
Sample Type						
Sample Depth	15.5-20.5 ft BGS	13.5-18.5 ft BGS	20.6-25.6 ft BGS	20.2-30.2 ft BGS	13.9-23.9 ft BGS	14-19 ft BGS
Units						
Semi-Volatile Organic Compounds (SVOCs) (Continued)						
Atrazine	µg/L	-	-	-	1.0 U	-
Benzaldehyde	µg/L	-	-	-	1.0 U	-
Benzo(a)anthracene	µg/L	-	-	-	5.0 U	-
Benzo(a)pyrene	µg/L	-	-	-	5.0 U	-
Benzo(b)fluoranthene	µg/L	-	-	-	5.0 U	-
Benzo(g,h,i)perylene	µg/L	-	-	-	5.0 U	-
Benzo(k)fluoranthene	µg/L	-	-	-	5.0 U	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	5.0 U	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	5.0 U	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	5.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	5.0 U	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	5.0 U	-
Caprolactam	µg/L	-	-	-	10 U	-
Carbazole	µg/L	-	-	-	10 U	-
Chrysene	µg/L	-	-	-	5.0 U	-
Dibenz(a,h)anthracene	µg/L	-	-	-	5.0 U	-
Dibenzofuran	µg/L	-	-	-	5.0 U	-
Diethyl phthalate	µg/L	-	-	-	20 U	-
Dimethyl phthalate	µg/L	-	-	-	20 U	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	5.0 U	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	5.0 U	-
Fluoranthene	µg/L	-	-	-	5.0 U	-
Fluorene	µg/L	-	-	-	5.0 U	-
Hexachlorobenzene	µg/L	-	-	-	5.0 U	-
Hexachlorobutadiene	µg/L	-	-	-	5.0 U	-
Hexachlorocyclopentadiene	µg/L	-	-	-	20 U	-
Hexachloroethane	µg/L	-	-	-	5.0 U	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	5.0 U	-
Isophorone	µg/L	-	-	-	5.0 U	-
Naphthalene	µg/L	-	-	-	5.0 U	-
Nitrobenzene	µg/L	-	-	-	5.0 U	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	5.0 U	-
N-Nitrosodiphenylamine	µg/L	-	-	-	5.0 U	-
Pentachlorophenol	µg/L	-	-	-	20 U	-
Phenanthrene	µg/L	-	-	-	5.0 U	-
Phenol	µg/L	-	-	-	5.0 U	-
Pyrene	µg/L	-	-	-	5.0 U	-

TABLE 2

**ANALYTICAL RESULTS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

	AOI Sample Location Sample Identification Sample Date Sample Type Sample Depth						
		AOI 6, AOI 25, AOI 4.1 85-1	AOI 6, AOI 25, AOI 4.1 85-2	AOI 6, AOI 25, AOI 4.1 85-7	AOI 6, AOI 25, AOI 4.1 MW46-12	AOI 7.1, AOI 26.2 MW32-12	AOI 8.2 MW28-12
		WG-17360-110113-EB-037	WG-17360-110113-EB-034	WG-17360-110413-EB-047	WG-17360-110513-EB-066	WG-17360-110413-MR-044	WG-17360-103113-MR-028
		11/1/2013	11/1/2013	11/4/2013	11/5/2013	11/4/2013	10/31/2013
		15.5-20.5 ft BGS	13.5-18.5 ft BGS	20.6-25.6 ft BGS	20.2-30.2 ft BGS	13.9-23.9 ft BGS	14-19 ft BGS
	Units						
Metals							
Antimony	µg/L	-	0.3 J	0.083 J	0.052 J	-	-
Arsenic	µg/L	-	5 U	5 U	5 U	-	-
Barium	µg/L	-	84	66	48	-	-
Beryllium	µg/L	-	2 U	2 U	2 U	-	-
Cadmium	µg/L	-	0.36 J	0.31 J	0.93 J	-	-
Chromium	µg/L	-	5 U	0.59 J	1.1 J	-	-
Chromium VI (hexavalent)	µg/L	-	-	-	20 U	-	-
Cobalt	µg/L	-	1 J	1.4 J	1.9 J	-	-
Copper	µg/L	-	4.5 J	2.3 J	2.3 J	-	-
Lead	µg/L	-	0.33 J	0.58 J	5 U	-	-
Manganese	µg/L	-	52	5 U	6.3	-	-
Mercury	µg/L	-	0.2 U	0.2 U	0.2 U	-	-
Molybdenum	µg/L	-	8.2	0.68 J	0.31 J	-	-
Nickel	µg/L	-	5.5	4.1 J	12	-	-
Selenium	µg/L	-	2.3 J	1.9 J	1.6 J	-	-
Silver	µg/L	-	5 U	5 U	5 U	-	-
Thallium	µg/L	-	5 U	5 U	5 U	-	-
Vanadium	µg/L	-	1.9 J	0.43 J	5 U	-	-
Zinc	µg/L	-	50	140	10 U	-	-

Notes

- Not analyzed

ft BGS - Feet below ground surface

U - Not detected at the associated reporting limit

J - Estimated concentration

TABLE 3
ANALYTICAL METHODS AND HOLDING TIME CRITERIA
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013

<i>Parameter</i>	<i>Method</i>	<i>Matrix</i>	<i>Holding Time</i>	
			<i>Collection to Extraction (days)</i>	<i>Collection or Extraction to Analysis (days)</i>
TCL VOCs	SW-846 8260B	Water	-	14
TCL SVOC	SW-846 8270C	Water	7	40
TAL Metals	SW-846 6020	Water	-	180
Mercury	SW-846 7471A	Water	-	28

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions.

SVOC - Semi-volatile organic compounds

TAL - Target analyte list

TCL - Target compound list

VOC - Volatile organic compounds

TABLE 4

**QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date (mm/dd/yyyy)</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Original Result</i>	<i>Qualified Result</i>	<i>Units</i>
TAL Metals	Manganese	11/13/2013	0.000349	WG-17360-110413-EB-047	0.0023 J	0.0050 U	mg/kg
				WG-17360-110413-MR-046	0.015	0.015 U	mg/kg
TAL Metals	Lead	11/12/2013	0.0001364	WG-17360-110513-EB-066	0.000098 J	0.0050 U	mg/kg
				WG-17360-110513-MR-060	0.00046 J	0.0050 U	mg/kg
				WG-17360-110513-MR-061	0.00011 J	0.0050 U	mg/kg
TAL Metals	Zinc	11/12/2013	0.0008277	WG-17360-110513-EB-066	0.0014 J	0.010 U	mg/kg
				WG-17360-110513-MR-058	0.0018 J	0.010 U	mg/kg
				WG-17360-110513-MR-060	0.0016 J	0.010 U	mg/kg
				WG-17360-110513-MR-061	0.00078 J	0.010 U	mg/kg

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

TAL - Target analyte list

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE RESULTS

ADDITIONAL SITE-WIDE INVESTIGATION

RACER GRAND RAPIDS STAMPING

GRAND RAPIDS, MICHIGAN

NOVEMBER 2013

<i>Parameter</i>	<i>Analyte</i>	<i>LCS Date</i>	<i>LCS (percent)</i>	<i>Control Limits (percent)</i>	<i>Associated Sample ID</i>	<i>Qualified Results</i>	<i>Units</i>
TCL VOC	2-Butanone	11/12/2013	152	30-150	WG-17360-110513-EB-054	3.5 J	µg/l
	4-Methyl-2-pentanone		176	60-135		4.3 J	µg/l
TCL VOC	Acetone	11/12/2013	176	40-140	WG-17360-110513-EB-054	13 J	µg/l
					WG-17360-110513-EB-056	8.2 J	µg/l

Notes:

J - Estimated concentration
LCS - Laboratory control sample
TCL - Target compound list
VOC Volatile organic compound

TABLE 6

QUALIFIED SAMPLE DATA DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013

<i>Parameter</i>	<i>Analyte</i>	<i>RPD</i>	<i>Sample ID</i>	<i>Qualified Result</i>	<i>Field Duplicate Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TAL Metals	Lead	110	WG-17360-103013-MR-016	0.00099 J	WG-17360-103013-MR-017	0.00030 J	mg/l
	Zinc	67		1.1 J		0.55 J	mg/l
TCL SVOC	Anthracene	63	WG-17360-110513-EB-054	1.6 J	WG-17360-110513-EB-055	0.83 J	mg/l
TAL Metals	Cobalt	89	WG-17360-110513-MR-057	0.00046 J	WG-17360-110513-MR-061	0.0012 J	mg/l

Notes:

- J - Estimated concentration
- RPD - Relative percent difference
- SVOC - Semi-volatile organic compound
- TAL - Target analyte list
- TCL - Target compound list

TABLE 6

**QUALIFIED SAMPLE DATA DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
NOVEMBER 2013**

<i>Parameter</i>	<i>Analyte</i>	<i>RPD</i>	<i>Sample ID</i>	<i>Qualified Result</i>	<i>Field Duplicate Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TAL Metals	Lead	110	WG-17360-103013-MR-016	0.00099 J	WG-17360-103013-MR-017	0.00030 J	mg/l
	Zinc	67		1.1 J		0.55 J	mg/l
TCL SVOC	Anthracene	63	WG-17360-110513-EB-054	1.6 J	WG-17360-110513-EB-055	0.83 J	mg/l
TAL Metals	Cobalt	89	WG-17360-110513-MR-057	0.00046 J	WG-17360-110513-MR-061	0.0012 J	mg/l

Notes:

- J - Estimated concentration
- RPD - Relative percent difference
- SVOC - Semi-volatile organic compound
- TAL - Target analyte list
- TCL - Target compound list



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MEMORANDUM

To: Jennifer Quigley
FROM: *RF For* Ruth Mickle/tl/68/Det.
RE: **Analytical Results and Reduced Validation
Additional Site-Wide Investigation
RACER Grand Rapids Stamping
Grand Rapids, Michigan
October 2013**

REF. No.: 017360-T05Y13
DATE: December 4, 2013

1.0 Introduction

The following document details a reduced validation of analytical results for soil and water samples collected in support of the Additional Site-Wide Investigation at the RACER Grand Rapids Stamping Site during October 2013. 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 for soil and groundwater samples are summarized in Tables 2A and 2B, respectively. A summary of the analytical methodology is presented in Table 3.

Standard 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, 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 the documents entitled:

- i) "Former Grand Rapids Metal Plant Quality Assurance Project Plan (QAPP)", Revision 1, January 2006
- 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.

CRA MEMORANDUM

2.0 Sample Holding Time and Preservation

The sample holding time criteria 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 prepared and analyzed within the required holding times.

All samples were properly preserved and delivered on ice, and stored by the laboratory at the required temperature (0-6°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 one per analytical batch.

Several laboratory method blanks were reported with parameters detected but the associated sample concentrations were either non-detect or exceeded five (5) or 10 (for common laboratory contaminants) times the method blank result; therefore, no qualification was required.

The samples presented in Table 4 were qualified due to laboratory contamination. The remaining method blank samples were reported to be free from detectable levels of target analytes, indicating no additional laboratory-attributable contamination occurred.

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 extraction and analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC), semi-volatile organic compound (SVOC), and polychlorinated biphenyl (PCB) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Two PCB surrogate recoveries were reportedly below the lower control limit. As result, the associated PCB aroclors for two investigative samples were qualified as estimated, as noted in Table 5.

The remaining surrogate recoveries met the above criteria.

CRA MEMORANDUM

5.0 Laboratory Control Sample (LCS) 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 one per analytical batch.

Organic Analyses

The LCS contained all compounds of interest. One non-detect result associated with a low VOC LCS recovery greater than ten percent was qualified as estimated in Table 6. All remaining LCS recoveries were within the laboratory control limits, 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 relative percent difference (RPD) between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional site-specific MS/MSD analyses internally.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. The samples that were qualified due to violation of MS/MSD percent recovery criteria are outlined in Table 7. All remaining percent recoveries and RPD values were within the laboratory control limits, 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". The samples that were qualified due to violation of MS/MSD percent recovery criteria are outlined in Table 7. All remaining percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

CRA MEMORANDUM

7.0 Field QA/QC Samples

The field QA/QC consisted of three (3) trip blank samples and five (5) field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, three (3) trip blanks were submitted to the laboratory for VOC analysis. The trip blank results were non-detect for the compounds of interest, with the exception of one low-level methylene chloride detection. Since the associated data were non-detect, no data qualification was required based on the trip blank detection.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, five (5) 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 and 100 percent for water and soil samples, respectively. If the reported concentration in either the investigative sample or its duplicate is less than five times the laboratory reporting limit (RL), the evaluation criteria is one or two times the RL value for water and soil samples, respectively.

Most field duplicates results showed adequate reproducibility, indicating satisfactory sampling and laboratory precision. The results for four samples and their field duplicates did show some variability. The original and duplicate sample results were qualified as estimated as detailed in Table 8.

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) unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL.

All soil results were reported on a dry weight basis.

9.0 Conclusion

Based on this assessment of the information provided, the data produced by ALS-MI were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters							Comments
							TCLP Metals	TAL Metals	TCL PCBs	TCL VOCs	TCLP VOCs	PAHs	TCLP SVOCs	
ALS Work Order: 13101141														
SB-017360-102113-MR-005	SB290-13	Soil	0	2	10/21/2013	1:20:00 PM					x			
SB-017360-102113-MR-006	SB290-13	Soil	2	4	10/21/2013	1:20:00 PM					x			
SB-017360-102113-MR-007	SB290-13	Soil	4	6	10/21/2013	1:30:00 PM					x			
SB-017360-102113-MR-008	SB290-13	Soil	6	8	10/21/2013	1:35:00 PM					x			
SB-017360-102113-MR-009	SB290-13	Soil	8	10	10/21/2013	1:40:00 PM					x			
SB-017360-102113-MR-010	SB290-13	Soil	6	8	10/21/2013	1:45:00 PM					x			
SB-017360-102113-MR-011	SB290-13	Soil	12	14	10/21/2013	1:55:00 PM					x			
SB-017360-102113-MR-013	SB291-13	Soil	0	2	10/21/2013	2:40:00 PM					x			
SB-017360-102113-MR-014	SB291-13	Soil	2	4	10/21/2013	2:45:00 PM					x			
SB-017360-102113-MR-015	SB291-13	Soil	4	6	10/21/2013	2:50:00 PM					x			
SB-017360-102113-MR-016	SB291-13	Soil	6	8	10/21/2013	2:55:00 PM					x			
SB-017360-102113-MR-017	SB291-13	Soil	8	10	10/21/2013	3:00:00 PM					x			
SB-017360-102113-MR-028	Trip Blank	Water			10/21/2013	10/21/2013					x			Trip Blank
ALS Work Order: 13101165														
SB-017360-102113-MR-012	SB291-13	Soil	0	4	10/21/2013	2:35:00 PM	x					x		x
SB-017360-102113-MR-004	SB290-13	Soil	0	4	10/21/2013	1:15:00 PM	x							x
ALS Work Order: 13101245														
SO-017360-102113-MR-022	SB293-13	Soil	0	4	10/21/2013	3:45:00 PM	x					x		
SO-017360-102213-MR-034	SB283-13	Soil	0	4	10/22/2013	10:30:00 AM	x					x		Hold
SO-017360-102213-MR-046	SB301-13	Soil	0	4	10/22/2013	1:40:00 PM	x					x		Hold
ALS Work Order: 13101246														
SO-017360-102113-MR-001	SB274-13	Soil	11	13	10/21/2013	10:20:00 AM								x
SO-017360-102113-MR-002	SB276-13	Soil	11	13	10/21/2013	10:50:00 AM								x
SO-017360-102113-MR-003	SB275-13	Soil	11	13	10/21/2013	11:35:00 AM								x
SO-017360-102113-MR-018	SB292-13	Soil	2	4	10/21/2013	3:15:00 PM		x	x	x			x	

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

							Analysis/Parameters							
Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	TCLP Metals	TAL Metals	TCL PCBs	TCL VOCs	TCLP VOCs	PAHs	TCLP SVOCs	Comments
ALS Work Order: 13101246														
SO-017360-102113-MR-019	SB292-13	Soil	4	6	10/21/2013	3:20:00 PM		x	x	x		x		
SO-017360-102113-MR-020	SB292-13	Soil	6	8	10/21/2013	3:25:00 PM		x	x	x		x		
SO-017360-102113-MR-021	SB292-13	Soil	8	10	10/21/2013	3:30:00 PM		x	x	x		x		
SO-017360-102113-MR-023	SB294-13	Soil	2	4	10/21/2013	4:05:00 PM		x	x	x		x		
SO-017360-102113-MR-024	SB294-13	Soil	4	6	10/21/2013	4:10:00 PM		x	x	x		x		
SO-017360-102113-MR-025	SB294-13	Soil	6	8	10/21/2013	4:20:00 PM		x	x	x		x		
SO-017360-102113-MR-026	SB294-13	Soil	8	10	10/21/2013	4:25:00 PM		x	x	x		x		
SO-017360-102113-MR-027	SB294-13	Soil	8	10	10/21/2013	4:30:00 PM		x	x	x		x		Duplicate of MR-026
SO-017360-102213-MR-029	SB285-13	Soil	0	4	10/22/2013	9:45:00 AM	x				x			
SO-017360-102213-MR-030	SB284-13	Soil	4	6	10/22/2013	10:05:00 AM		x	x	x		x		
SO-017360-102213-MR-031	SB284-13	Soil	4	6	10/22/2013	10:10:00 AM		x	x	x		x		Duplicate of MR-030
SO-017360-102213-MR-032	SB284-13	Soil	6	8	10/22/2013	10:15:00 AM		x	x	x		x		MS/MSD
SO-017360-102213-MR-033	SB284-13	Soil	8	10	10/22/2013	10:20:00 AM		x	x	x		x		
SO-017360-102213-MR-035	SB286-13	Soil	0	4	10/22/2013	10:50:00 AM	x				x			
SO-017360-102213-MR-036	SB282-13	Soil	4	6	10/22/2013	11:30:00 AM		x	x	x		x		
SO-017360-102213-MR-037	SB282-13	Soil	6	8	10/22/2013	11:35:00 AM		x	x	x		x		
SO-017360-102213-MR-038	SB282-13	Soil	6	8	10/22/2013	11:40:00 AM		x	x	x		x		
SO-017360-102213-MR-039	SB282-13	Soil	8	10	10/22/2013	11:45:00 AM		x	x	x		x		MS/MSD
SO-017360-102213-MR-040	SB277-13	Soil	0	2	10/22/2013	1:05:00 PM		x	x	x		x		
SO-017360-102213-MR-041	SB277-13	Soil	2	4	10/22/2013	1:10:00 PM		x	x	x		x		
SO-017360-102213-MR-042	SB277-13	Soil	4	6	10/22/2013	1:15:00 PM		x	x	x		x		
SO-017360-102213-MR-043	SB277-13	Soil	6	8	10/22/2013	1:20:00 PM		x	x	x		x		
SO-017360-102213-MR-044	SB277-13	Soil	6	8	10/22/2013	1:25:00 PM		x	x	x		x		
SO-017360-102213-MR-045	SB277-13	Soil	8	10	10/22/2013	1:30:00 PM		x	x	x		x		MS/MSD
SO-017360-102213-MR-047	SB278-13	Soil	4	6	10/22/2013	2:00:00 PM		x	x	x		x		
SO-017360-102213-MR-048	SB278-13	Soil	6	8	10/22/2013	2:05:00 PM		x	x	x		x		
SO-017360-102213-MR-049	SB278-13	Soil	8	10	10/22/2013	2:10:00 PM		x	x	x		x		
SO-017360-102213-MR-050	SB281-13	Soil	0	4	10/22/2013	2:20:00 PM	x							
SO-017360-102213-MR-051	SB280-13	Soil	4	6	10/22/2013	2:45:00 PM		x	x	x		x		
SO-017360-102213-MR-052	SB280-13	Soil	6	8	10/22/2013	2:50:00 PM		x	x	x		x		
SO-017360-102213-MR-053	SB280-13	Soil	8	10	10/22/2013	2:55:00 PM		x	x	x		x		

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

							Analysis/Parameters							
Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	TCLP Metals	TAL Metals	TCL PCBs	TCL VOCs	TCLP VOCs	PAHs	TCLP SVOCs	Comments
ALS Work Order: 13101246														
SO-017360-102213-MR-054	SB279-13	Soil	0	4	10/22/2013	3:15:00 PM	x				x			
SO-017360-102213-MR-055	SB287-13	Soil	0	4	10/22/2013	3:25:00 PM	x				x			
SO-017360-102213-MR-056	SB289-13	Soil	0	4	10/22/2013	3:40:00 PM	x				x			
SO-017360-102213-MR-057	SB288-13	Soil	0	4	10/22/2013	3:55:00 PM	x				x			
SO-017360-102213-MR-058	SB300-13	Soil	2	4	10/22/2013	4:30:00 PM		x		x		x		
SO-017360-102213-MR-059	SB300-13	Soil	4	6	10/22/2013	4:35:00 PM		x		x		x		
SO-017360-102213-MR-060	SB300-13	Soil	6	8	10/22/2013	4:40:00 PM		x		x		x		
SO-017360-102213-MR-061	SB300-13	Soil	8	10	10/22/2013	4:45:00 PM		x		x		x		
SO-017360-102313-MR-062	SB299-13	Soil	2	4	10/23/2013	10:00:00 AM		x		x		x		
SO-017360-102313-MR-063	SB299-13	Soil	4	6	10/23/2013	10:05:00 AM		x		x		x		
SO-017360-102313-MR-064	SB299-13	Soil	4	6	10/23/2013	10:10:00 AM		x		x		x		Duplicate of MR-063
SO-017360-102313-MR-065	SB299-13	Soil	6	8	10/23/2013	10:15:00 AM		x		x		x		
SO-017360-102313-MR-066	SB299-13	Soil	8	10	10/23/2013	10:20:00 AM		x		x		x		MS/MSD
SO-017360-102313-MR-067	SB296-13	Soil	0	4	10/23/2013	10:40:00 AM	x				x			
SO-017360-102313-MR-068	SB295-13	Soil	2	4	10/23/2013	11:15:00 AM		x		x		x		
SO-017360-102313-MR-069	SB295-13	Soil	4	6	10/23/2013	11:20:00 AM		x		x		x		
SO-017360-102313-MR-070	SB295-13	Soil	6	8	10/23/2013	11:25:00 AM		x		x		x		
SO-017360-102313-MR-071	SB295-13	Soil	8	10	10/23/2013	11:30:00 AM		x		x		x		
SO-017360-102313-MR-072	SB298-13	Soil	0	4	10/23/2013	11:50:00 AM	x				x		x	
SO-017360-102313-MR-073	SB297-13	Soil	2	4	10/23/2013	12:10:00 PM		x		x		x		
SO-017360-102313-MR-074	SB297-13	Soil	4	6	10/23/2013	12:15:00 PM		x		x		x		
SO-017360-102313-MR-075	SB297-13	Soil	6	8	10/23/2013	12:20:00 PM		x		x		x		
SO-017360-102313-MR-076	SB297-13	Soil	8	10	10/23/2013	12:25:00 PM		x		x		x		
SO-017360-102313-MR-077	SB297-13	Soil	8	10	10/23/2013	12:30:00 PM		x		x		x		Duplicate of MR-076
GW-017360-102313-MR-078	TW300-13	Water			10/23/2013	1:40:00 PM				x				
GW-017360-102313-MR-079	TW300-13	Water			10/23/2013	1:45:00 PM				x				Duplicate of MR-078
TB-017360-102313-MR-080	Trip Blank	Water			10/23/2013	10/23/2013				x				Trip Blank
TB-017360-102313-MR-081	Trip Blank	Water			10/23/2013	10/23/2013				x				Trip Blank

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs)	Final Sample Depth (ft. bgs)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	<u>Analysis/Parameters</u>							Comments
							TCLP Metals	TAL Metals	TCL PCBs	TCL VOCs	TCLP VOCs	PAHs	TCLP SVOCs	

Notes:

ft. bgs - Feet below ground surface
 PCBs - Polychlorinated biphenyls
 PAH - Polynuclear aromatic hydrocarbons
 SVOC - Semi-volatile organic compounds
 TAL - Target analyte list
 TCL - Target compound list
 TCLP - Toxicity Characteristic Leaching Procedure
 VOC - Volatile organic compounds
 MS/MSD - Matrix spike/Matrix spike duplicate

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

Sample Location	SB274-13	SB275-13	SB276-13	SB277-13	SB277-13
Sample Identification	SO-017360-102113-MR-001	SO-017360-102113-MR-003	SO-017360-102113-MR-002	SO-017360-102213-MR-040	SO-017360-102213-MR-041
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/22/2013	10/22/2013
Sample Depth	(11-13) ft BGS	(11-13) ft BGS	(11-13) ft BGS	(0-2) ft BGS	(2-4) ft BGS
Sample Type					
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	-	-	44 U	55 U
1,1,2,2-Tetrachloroethane	ug/kg	-	-	44 U	55 U
1,1,2-Trichloroethane	ug/kg	-	-	44 U	55 U
1,1-Dichloroethane	ug/kg	-	-	44 U	55 U
1,1-Dichloroethene	ug/kg	-	-	44 U	55 U
1,2,4-Trichlorobenzene	ug/kg	-	-	44 U	55 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	44 U	55 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	44 U	55 U
1,2-Dichlorobenzene	ug/kg	-	-	44 U	55 U
1,2-Dichloroethane	ug/kg	-	-	44 U	55 U
1,2-Dichloropropane	ug/kg	-	-	44 U	55 U
1,3-Dichlorobenzene	ug/kg	-	-	44 U	55 U
1,4-Dichlorobenzene	ug/kg	-	-	44 U	55 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	120 J	160 J
2-Hexanone	ug/kg	-	-	44 U	55 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	-	-	44 U	55 U
Acetone	ug/kg	-	-	150 U	180 U
Benzene	ug/kg	-	-	44 U	55 U
Bromodichloromethane	ug/kg	-	-	44 U	55 U
Bromoform	ug/kg	-	-	44 U	55 U
Bromomethane (Methyl bromide)	ug/kg	-	-	110 U	140 U
Carbon disulfide	ug/kg	-	-	44 U	55 U
Carbon tetrachloride	ug/kg	-	-	44 U	55 U
Chlorobenzene	ug/kg	-	-	44 U	55 U
Chloroethane	ug/kg	-	-	150 U	180 U
Chloroform (Trichloromethane)	ug/kg	-	-	44 U	55 U
Chloromethane (Methyl chloride)	ug/kg	-	-	150 U	180 U
cis-1,2-Dichloroethene	ug/kg	-	-	44 U	55 U
cis-1,3-Dichloropropene	ug/kg	-	-	44 U	55 U
Cyclohexane	ug/kg	-	-	44 U	55 U
Dibromochloromethane	ug/kg	-	-	44 U	55 U
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	44 U	55 U
Ethylbenzene	ug/kg	-	-	44 U	55 U
Isopropyl benzene	ug/kg	-	-	44 U	55 U
Methyl acetate	ug/kg	-	-	130 J	160 J
Methyl cyclohexane	ug/kg	-	-	110	87
Methyl tert butyl ether (MTBE)	ug/kg	-	-	44 U	55 U
Methylene chloride	ug/kg	-	-	44 U	55 U
Styrene	ug/kg	-	-	44 U	55 U
Tetrachloroethene	ug/kg	-	-	44 U	55 U

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB274-13	SB275-13	SB276-13	SB277-13	SB277-13
Sample Identification	SO-017360-102113-MR-001	SO-017360-102113-MR-003	SO-017360-102113-MR-002	SO-017360-102213-MR-040	SO-017360-102213-MR-041
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/22/2013	10/22/2013
Sample Depth	(11-13) ft BGS	(11-13) ft BGS	(11-13) ft BGS	(0-2) ft BGS	(2-4) ft BGS
Sample Type					
Units					
Volatile Organic Compounds (VOCs)					
Toluene	ug/kg	-	-	44 U	55 U
trans-1,2-Dichloroethene	ug/kg	-	-	44 U	55 U
trans-1,3-Dichloropropene	ug/kg	-	-	44 U	55 U
Trichloroethene	ug/kg	-	-	44 U	55 U
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	44 U	55 U
Trifluorotrichloroethane (Freon 113)	ug/kg	-	-	44 U	55 U
Vinyl chloride	ug/kg	-	-	44 U	55 U
Xylenes (total)	ug/kg	-	-	130 U	170 U
Semi-Volatile Organic Compounds (SVOCs)					
2-Methylnaphthalene	ug/kg	6.8 U	6.9 U	94	46
Acenaphthene	ug/kg	6.8 U	6.9 U	7.7 U	7.5 U
Acenaphthylene	ug/kg	6.8 U	6.9 U	20	7.5 U
Anthracene	ug/kg	6.8 U	6.9 U	75	110
Benzo(a)anthracene	ug/kg	6.8 U	6.9 U	340	410
Benzo(a)pyrene	ug/kg	6.8 U	6.9 U	370	420
Benzo(b)fluoranthene	ug/kg	6.8 U	6.9 U	540	460
Benzo(g,h,i)perylene	ug/kg	6.8 U	6.9 U	280	300
Benzo(k)fluoranthene	ug/kg	6.8 U	6.9 U	330	410
Chrysene	ug/kg	6.8 U	6.9 U	490	500
Dibenz(a,h)anthracene	ug/kg	6.8 U	6.9 U	82	87
Fluoranthene	ug/kg	6.8 U	6.9 U	590	790
Fluorene	ug/kg	6.8 U	6.9 U	20	60
Indeno(1,2,3-cd)pyrene	ug/kg	6.8 U	6.9 U	240	250
Naphthalene	ug/kg	6.8 U	6.9 U	58	24
Phenanthrene	ug/kg	6.8 U	6.9 U	380	570
Pyrene	ug/kg	6.8 U	6.9 U	540	720
Metals					
Antimony	ug/kg	-	-	560	650 J
Arsenic	ug/kg	-	-	4700	2700
Barium	ug/kg	-	-	82000	100000
Beryllium	ug/kg	-	-	290 J	210 J
Cadmium	ug/kg	-	-	530	480 J
Chromium	ug/kg	-	-	4900	11000
Cobalt	ug/kg	-	-	2500	2500
Copper	ug/kg	-	-	31000 J	16000 J
Iron	ug/kg	-	-	4300000	7100000
Lead	ug/kg	-	-	37000	100000

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location		SB274-13	SB275-13	SB276-13	SB277-13	SB277-13
Sample Identification		SO-017360-102113-MR-001	SO-017360-102113-MR-003	SO-017360-102113-MR-002	SO-017360-102213-MR-040	SO-017360-102213-MR-041
Sample Date		10/21/2013	10/21/2013	10/21/2013	10/22/2013	10/22/2013
Sample Depth		(11-13) ft BGS	(11-13) ft BGS	(11-13) ft BGS	(0-2) ft BGS	(2-4) ft BGS
Sample Type						
	Units					
Metals						
Manganese	ug/kg	-	-	-	41000 J	140000 J
Mercury	ug/kg	-	-	-	23 J	9.9 J
Molybdenum	ug/kg	-	-	-	1100	930 J
Nickel	ug/kg	-	-	-	7900	9600
Selenium	ug/kg	-	-	-	410 J	2100 U
Silver	ug/kg	-	-	-	93 J	39 J
Thallium	ug/kg	-	-	-	94 J	2100 U
Vanadium	ug/kg	-	-	-	5100 J	8900 J
Zinc	ug/kg	-	-	-	37000	640000
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	93 U	91 U
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	93 U	91 U
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	93 U	91 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	93 U	91 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	93 U	91 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	93 U	91 U
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	93 U	91 U
Total PCBs	ug/kg	-	-	-	ND	ND
General Chemistry						
Moisture content (dry weight)	%	2.1	5.6	3.1	14	11

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

Sample Location	SB277-13	SB277-13	SB277-13	SB277-13	SB278-13
Sample Identification	SO-017360-102213-MR-042	SO-017360-102213-MR-043	SO-017360-102213-MR-044	SO-017360-102213-MR-045	SO-017360-102213-MR-047
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS
Sample Type					
	Units				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	48 U	180 U	98 U	66 U
1,1,2,2-Tetrachloroethane	ug/kg	48 U	180 U	98 U	66 U
1,1,2-Trichloroethane	ug/kg	48 U	180 U	98 U	66 U
1,1-Dichloroethane	ug/kg	48 U	180 U	98 U	66 U
1,1-Dichloroethene	ug/kg	48 U	180 U	98 U	66 U
1,2,4-Trichlorobenzene	ug/kg	48 U	180 U	98 U	66 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	48 U	180 U	98 U	66 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	48 U	180 U	98 U	66 U
1,2-Dichlorobenzene	ug/kg	48 U	180 U	98 U	66 U
1,2-Dichloroethane	ug/kg	48 U	180 U	98 U	66 U
1,2-Dichloropropane	ug/kg	48 U	180 U	98 U	66 U
1,3-Dichlorobenzene	ug/kg	48 U	180 U	98 U	66 U
1,4-Dichlorobenzene	ug/kg	48 U	180 U	98 U	66 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	130 J	700 J	370 J	440 U
2-Hexanone	ug/kg	48 U	180 U	98 U	66 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	48 U	180 U	98 U	66 U
Acetone	ug/kg	160 U	1400	510	220 U
Benzene	ug/kg	48 U	180 U	98 U	66 U
Bromodichloromethane	ug/kg	48 U	180 U	98 U	66 U
Bromoform	ug/kg	48 U	180 U	98 U	66 U
Bromomethane (Methyl bromide)	ug/kg	120 U	440 U	250 U	170 U
Carbon disulfide	ug/kg	48 U	180 U	98 U	66 U
Carbon tetrachloride	ug/kg	48 U	180 U	98 U	66 U
Chlorobenzene	ug/kg	48 U	180 U	98 U	66 U
Chloroethane	ug/kg	160 U	590 U	330 U	220 U
Chloroform (Trichloromethane)	ug/kg	48 U	180 U	98 U	66 U
Chloromethane (Methyl chloride)	ug/kg	160 U	590 U	330 U	220 U
cis-1,2-Dichloroethene	ug/kg	48 U	180 U	98 U	66 U
cis-1,3-Dichloropropene	ug/kg	48 U	180 U	98 U	66 U
Cyclohexane	ug/kg	41 J	180 U	98 U	66 U
Dibromochloromethane	ug/kg	48 U	180 U	98 U	66 U
Dichlorodifluoromethane (CFC-12)	ug/kg	48 U	180 U	98 U	66 U
Ethylbenzene	ug/kg	48 U	180 U	98 U	66 U
Isopropyl benzene	ug/kg	48 U	180 U	98 U	66 U
Methyl acetate	ug/kg	130 J	2100	1100	210 J
Methyl cyclohexane	ug/kg	140	180 U	98 U	66 U
Methyl tert butyl ether (MTBE)	ug/kg	48 U	180 U	98 U	66 U
Methylene chloride	ug/kg	48 U	180 U	98 U	66 U
Styrene	ug/kg	48 U	180 U	98 U	66 U
Tetrachloroethene	ug/kg	48 U	180 U	98 U	66 U

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB277-13	SB277-13	SB277-13	SB277-13	SB278-13
Sample Identification	SO-017360-102213-MR-042	SO-017360-102213-MR-043	SO-017360-102213-MR-044	SO-017360-102213-MR-045	SO-017360-102213-MR-047
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS
Sample Type					
Units					
Volatile Organic Compounds (VOCs)					
Toluene	ug/kg	48 U	180 U	98 U	66 U
trans-1,2-Dichloroethene	ug/kg	48 U	180 U	98 U	66 U
trans-1,3-Dichloropropene	ug/kg	48 U	180 U	98 U	66 U
Trichloroethene	ug/kg	48 U	180 U	98 U	66 U
Trichlorofluoromethane (CFC-11)	ug/kg	48 U	180 U	98 U	66 U
Trifluorotrichloroethane (Freon 113)	ug/kg	48 U	180 U	98 U	66 U
Vinyl chloride	ug/kg	48 U	180 U	98 U	66 U
Xylenes (total)	ug/kg	140 U	530 U	300 U	200 U
Semi-Volatile Organic Compounds (SVOCs)					
2-Methylnaphthalene	ug/kg	7.2 U	81	41	13 U
Acenaphthene	ug/kg	7.2 U	10 U	8.6 U	13 U
Acenaphthylene	ug/kg	7.2 U	10 U	8.6 U	13 U
Anthracene	ug/kg	7.2 U	28	130	13 U
Benzo(a)anthracene	ug/kg	75	140	430	13 U
Benzo(a)pyrene	ug/kg	60	120	420	13 U
Benzo(b)fluoranthene	ug/kg	72	130	440	13 U
Benzo(g,h,i)perylene	ug/kg	60	100	260	13 U
Benzo(k)fluoranthene	ug/kg	53	120	380	13 U
Chrysene	ug/kg	69	150	500	13 U
Dibenz(a,h)anthracene	ug/kg	7.2 U	10 U	59	13 U
Fluoranthene	ug/kg	110	230	870	13 U
Fluorene	ug/kg	7.2 U	10 U	52	13 U
Indeno(1,2,3-cd)pyrene	ug/kg	38	69	210	13 U
Naphthalene	ug/kg	7.2 U	54	38	13 U
Phenanthrene	ug/kg	67	210	660	13 U
Pyrene	ug/kg	90	210	740	13 U
Metals					
Antimony	ug/kg	260 J	570 J	400 J	370 J
Arsenic	ug/kg	1400	4600	2900	2700 J
Barium	ug/kg	12000	59000	67000	210000
Beryllium	ug/kg	76 J	120 J	170 J	31 J
Cadmium	ug/kg	110 J	190 J	130 J	140 J
Chromium	ug/kg	5100	8100	7100	5000
Cobalt	ug/kg	1600	2000 J	2100 J	940 J
Copper	ug/kg	4700 J	8700 J	8700 J	5100
Iron	ug/kg	3900000	8300000	7600000	5100000
Lead	ug/kg	8500	3800	5400	220 J

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location		SB277-13	SB277-13	SB277-13	SB277-13	SB278-13
Sample Identification		SO-017360-102213-MR-042	SO-017360-102213-MR-043	SO-017360-102213-MR-044	SO-017360-102213-MR-045	SO-017360-102213-MR-047
Sample Date		10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS
Sample Type						
	Units					
Metals						
Manganese	ug/kg	94000 J	130000 J	140000 J	120000	30000 J
Mercury	ug/kg	36 J	76	47	41 J	35 J
Molybdenum	ug/kg	380 J	2000 J	620 J	1600 J	3100
Nickel	ug/kg	4900	5800	5300	2900 J	22000
Selenium	ug/kg	190 J	2500 J	700 J	2000 J	1200
Silver	ug/kg	18 J	2800 U	10 J	3100 U	83 J
Thallium	ug/kg	48 J	87 J	2300 U	140 J	640
Vanadium	ug/kg	6100 J	13000 J	11000 J	4600 J	12000 J
Zinc	ug/kg	110000	16000	17000	6100	23000
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	87 U	120 U	110 U	160 U	100 U
Aroclor-1221 (PCB-1221)	ug/kg	87 U	120 U	110 U	160 U	100 U
Aroclor-1232 (PCB-1232)	ug/kg	87 U	120 U	110 U	160 U	100 U
Aroclor-1242 (PCB-1242)	ug/kg	87 U	120 U	110 U	160 U	100 U
Aroclor-1248 (PCB-1248)	ug/kg	87 U	120 U	110 U	160 U	100 U
Aroclor-1254 (PCB-1254)	ug/kg	87 U	120 U	110 U	160 U	100 U
Aroclor-1260 (PCB-1260)	ug/kg	87 U	120 U	110 U	160 U	100 U
Total PCBs	ug/kg	ND	ND	ND	ND	ND
General Chemistry						
Moisture content (dry weight)	%	8.0	35	23	49	21

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB278-13	SB278-13	SB280-13	SB280-13	SB280-13
Sample Identification	SO-017360-102213-MR-048	SO-017360-102213-MR-049	SO-017360-102213-MR-051	SO-017360-102213-MR-052	SO-017360-102213-MR-053
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	57 U	1000 U	39 U	34 U
1,1,2,2-Tetrachloroethane	ug/kg	57 U	1000 U	39 U	34 U
1,1,2-Trichloroethane	ug/kg	57 U	1000 U	39 U	34 U
1,1-Dichloroethane	ug/kg	57 U	1000 U	39 U	34 U
1,1-Dichloroethene	ug/kg	57 U	1000 U	39 U	34 U
1,2,4-Trichlorobenzene	ug/kg	57 U	1000 U	39 U	34 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	57 U	1000 U	39 U	34 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	57 U	1000 U	39 U	34 U
1,2-Dichlorobenzene	ug/kg	57 U	1000 U	39 U	34 U
1,2-Dichloroethane	ug/kg	57 U	1000 U	39 U	34 U
1,2-Dichloropropane	ug/kg	57 U	1000 U	39 U	34 U
1,3-Dichlorobenzene	ug/kg	57 U	1000 U	39 U	34 U
1,4-Dichlorobenzene	ug/kg	57 U	1000 U	39 U	34 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	380 U	3600 J	96 J	100 J
2-Hexanone	ug/kg	57 U	1000 U	39 U	34 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	57 U	1000 U	39 U	34 U
Acetone	ug/kg	190 U	6100	130 U	110 U
Benzene	ug/kg	57 U	1000 U	39 U	34 U
Bromodichloromethane	ug/kg	57 U	1000 U	39 U	34 U
Bromoform	ug/kg	57 U	1000 U	39 U	34 U
Bromomethane (Methyl bromide)	ug/kg	140 U	2500 U	97 U	23 J
Carbon disulfide	ug/kg	57 U	1000 U	39 U	33 J
Carbon tetrachloride	ug/kg	57 U	1000 U	39 U	34 U
Chlorobenzene	ug/kg	57 U	1000 U	39 U	34 U
Chloroethane	ug/kg	190 U	3400 U	130 U	110 U
Chloroform (Trichloromethane)	ug/kg	57 U	1000 U	39 U	34 U
Chloromethane (Methyl chloride)	ug/kg	190 U	3400 U	130 U	56 J
cis-1,2-Dichloroethene	ug/kg	57 U	1000 U	39 U	34 U
cis-1,3-Dichloropropene	ug/kg	57 U	1000 U	39 U	34 U
Cyclohexane	ug/kg	57 U	1000 U	39 U	34 U
Dibromochloromethane	ug/kg	57 U	1000 U	39 U	34 U
Dichlorodifluoromethane (CFC-12)	ug/kg	57 U	1000 U	39 U	34 U
Ethylbenzene	ug/kg	57 U	1000 U	39 U	34 U
Isopropyl benzene	ug/kg	57 U	1000 U	39 U	34 U
Methyl acetate	ug/kg	150 J	11000	91 J	97 J
Methyl cyclohexane	ug/kg	240	1000 U	39 U	34 U
Methyl tert butyl ether (MTBE)	ug/kg	57 U	1000 U	39 U	34 U
Methylene chloride	ug/kg	57 U	1000 U	39 U	34 U
Styrene	ug/kg	57 U	1000 U	39 U	34 U
Tetrachloroethene	ug/kg	57 U	1000 U	39 U	34 U

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

Sample Location	SB278-13	SB278-13	SB280-13	SB280-13	SB280-13
Sample Identification	SO-017360-102213-MR-048	SO-017360-102213-MR-049	SO-017360-102213-MR-051	SO-017360-102213-MR-052	SO-017360-102213-MR-053
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					
Units					
Volatile Organic Compounds (VOCs)					
Toluene	ug/kg	42 J	1000 U	39 U	34 U
trans-1,2-Dichloroethene	ug/kg	57 U	1000 U	39 U	34 U
trans-1,3-Dichloropropene	ug/kg	57 U	1000 U	39 U	34 U
Trichloroethene	ug/kg	57 U	1000 U	39 U	34 U
Trichlorofluoromethane (CFC-11)	ug/kg	57 U	1000 U	39 U	34 U
Trifluorotrichloroethane (Freon 113)	ug/kg	57 U	1000 U	39 U	34 U
Vinyl chloride	ug/kg	57 U	1000 U	39 U	34 U
Xylenes (total)	ug/kg	140 J	3000 U	120 U	100 U
Semi-Volatile Organic Compounds (SVOCs)					
2-Methylnaphthalene	ug/kg	80 U	150 U	6.9 U	7.3 U
Acenaphthene	ug/kg	80 U	150 U	6.9 U	7.3 U
Acenaphthylene	ug/kg	80 U	150 U	6.9 U	7.3 U
Anthracene	ug/kg	80 U	150 U	6.9 U	7.3 U
Benzo(a)anthracene	ug/kg	430	150 U	6.9 U	7.3 U
Benzo(a)pyrene	ug/kg	80 U	150 U	6.9 U	7.3 U
Benzo(b)fluoranthene	ug/kg	220	150 U	6.9 U	7.3 U
Benzo(g,h,i)perylene	ug/kg	340	150 U	6.9 U	7.3 U
Benzo(k)fluoranthene	ug/kg	80 U	150 U	6.9 U	7.3 U
Chrysene	ug/kg	250	150 U	6.9 U	7.3 U
Dibenz(a,h)anthracene	ug/kg	80 U	150 U	6.9 U	7.3 U
Fluoranthene	ug/kg	460	150 U	6.9 U	7.3 U
Fluorene	ug/kg	80 U	150 U	6.9 U	7.3 U
Indeno(1,2,3-cd)pyrene	ug/kg	80 U	150 U	6.9 U	7.3 U
Naphthalene	ug/kg	80 U	150 U	6.9 U	7.3 U
Phenanthrene	ug/kg	500	150 U	6.9 U	7.3 U
Pyrene	ug/kg	330	150 U	6.9 U	7.3 U
Metals					
Antimony	ug/kg	1100 J	150 J	2900	1700
Arsenic	ug/kg	7900	2600	670	640
Barium	ug/kg	41000	37000	2700	3600
Beryllium	ug/kg	450 J	300 J	7.3 J	8.6 J
Cadmium	ug/kg	490 J	680	76 J	56 J
Chromium	ug/kg	31000	7500	30000	12000
Cobalt	ug/kg	6500	650 J	600	310 J
Copper	ug/kg	51000 J	17000 J	6000 J	2700 J
Iron	ug/kg	8000000	4700000	3900000	2900000
Lead	ug/kg	37000	2900	13000	36000

TABLE 2A

**VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

<i>Sample Location</i>		<i>SB278-13</i>	<i>SB278-13</i>	<i>SB280-13</i>	<i>SB280-13</i>	<i>SB280-13</i>
<i>Sample Identification</i>		<i>SO-017360-102213-MR-048</i>	<i>SO-017360-102213-MR-049</i>	<i>SO-017360-102213-MR-051</i>	<i>SO-017360-102213-MR-052</i>	<i>SO-017360-102213-MR-053</i>
<i>Sample Date</i>		<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/22/2013</i>
<i>Sample Depth</i>		<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>
<i>Sample Type</i>						
<i>Units</i>						
Metals						
Manganese	ug/kg	130000 J	25000 J	49000 J	29000 J	25000 J
Mercury	ug/kg	38 J	68 J	21 J	17 J	37 J
Molybdenum	ug/kg	8600	2400	26000	11000	630
Nickel	ug/kg	16000	8600	25000	7700	2300
Selenium	ug/kg	2200 U	3600	410 U	390 U	700
Silver	ug/kg	260 J	41 J	380 J	450	23 J
Thallium	ug/kg	150 J	87 J	410 U	12 J	45 J
Vanadium	ug/kg	12000 J	41000 J	310 J	97 J	8700 J
Zinc	ug/kg	100000	2800	4800	9500	4500
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	100 U	290 UJ	86 U	91 UJ	95 U
Aroclor-1221 (PCB-1221)	ug/kg	100 U	290 UJ	86 U	91 UJ	95 U
Aroclor-1232 (PCB-1232)	ug/kg	100 U	290 UJ	86 U	91 UJ	95 U
Aroclor-1242 (PCB-1242)	ug/kg	100 U	290 UJ	86 U	91 UJ	95 U
Aroclor-1248 (PCB-1248)	ug/kg	100 U	290 UJ	86 U	91 UJ	95 U
Aroclor-1254 (PCB-1254)	ug/kg	100 U	290 UJ	86 U	91 UJ	95 U
Aroclor-1260 (PCB-1260)	ug/kg	100 U	290 UJ	86 U	91 UJ	95 U
Total PCBs	ug/kg	ND	ND	ND	ND	ND
General Chemistry						
Moisture content (dry weight)	%	17	72	5.0	10	13

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB282-13	SB282-13	SB282-13	SB282-13	SB284-13
Sample Identification	SO-017360-102213-MR-036	SO-017360-102213-MR-037	SO-017360-102213-MR-038	SO-017360-102213-MR-039	SO-017360-102213-MR-030
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS
Sample Type					
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	34 U	48 U	39 U	43 U
1,1,2,2-Tetrachloroethane	ug/kg	34 U	48 U	39 U	43 U
1,1,2-Trichloroethane	ug/kg	34 U	48 U	39 U	43 U
1,1-Dichloroethane	ug/kg	34 U	48 U	39 U	43 U
1,1-Dichloroethene	ug/kg	34 U	48 U	39 U	43 U
1,2,4-Trichlorobenzene	ug/kg	34 U	48 U	39 U	43 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	34 U	48 U	39 U	43 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	34 U	48 U	39 U	43 U
1,2-Dichlorobenzene	ug/kg	34 U	48 U	39 U	43 U
1,2-Dichloroethane	ug/kg	34 U	48 U	39 U	43 U
1,2-Dichloropropane	ug/kg	34 U	48 U	39 U	43 U
1,3-Dichlorobenzene	ug/kg	34 U	48 U	39 U	43 U
1,4-Dichlorobenzene	ug/kg	34 U	48 U	39 U	43 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	220 U	320 U	260 U	290 U
2-Hexanone	ug/kg	34 U	48 U	39 U	43 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	34 U	48 U	39 U	43 U
Acetone	ug/kg	110 U	160 U	130 U	140 U
Benzene	ug/kg	34 U	48 U	39 U	43 U
Bromodichloromethane	ug/kg	34 U	48 U	39 U	43 U
Bromoform	ug/kg	34 U	48 U	39 U	43 U
Bromomethane (Methyl bromide)	ug/kg	84 U	120 U	98 U	110 U
Carbon disulfide	ug/kg	34 U	48 U	39 U	43 U
Carbon tetrachloride	ug/kg	34 U	48 U	39 U	43 U
Chlorobenzene	ug/kg	34 U	48 U	39 U	43 U
Chloroethane	ug/kg	110 U	160 U	130 U	140 U
Chloroform (Trichloromethane)	ug/kg	34 U	48 U	39 U	43 U
Chloromethane (Methyl chloride)	ug/kg	110 U	160 U	130 U	140 U
cis-1,2-Dichloroethene	ug/kg	34 U	48 U	39 U	43 U
cis-1,3-Dichloropropene	ug/kg	34 U	48 U	39 U	43 U
Cyclohexane	ug/kg	34 U	48 U	39 U	43 U
Dibromochloromethane	ug/kg	34 U	48 U	39 U	43 U
Dichlorodifluoromethane (CFC-12)	ug/kg	34 U	48 U	39 U	43 U
Ethylbenzene	ug/kg	34 U	48 U	39 U	43 U
Isopropyl benzene	ug/kg	34 U	48 U	39 U	43 U
Methyl acetate	ug/kg	220 U	320 U	260 U	290 U
Methyl cyclohexane	ug/kg	34 U	48 U	39 U	43 U
Methyl tert butyl ether (MTBE)	ug/kg	34 U	48 U	39 U	43 U
Methylene chloride	ug/kg	34 U	48 U	39 U	43 U
Styrene	ug/kg	34 U	48 U	39 U	43 U
Tetrachloroethene	ug/kg	34 U	48 U	39 U	43 U

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB282-13	SB282-13	SB282-13	SB282-13	SB284-13
Sample Identification	SO-017360-102213-MR-036	SO-017360-102213-MR-037	SO-017360-102213-MR-038	SO-017360-102213-MR-039	SO-017360-102213-MR-030
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS
Sample Type					
	Units				
Volatile Organic Compounds (VOCs)					
Toluene	ug/kg	34 U	48 U	39 U	43 U
trans-1,2-Dichloroethene	ug/kg	34 U	48 U	39 U	43 U
trans-1,3-Dichloropropene	ug/kg	34 U	48 U	39 U	43 U
Trichloroethene	ug/kg	34 U	48 U	39 U	43 U
Trichlorofluoromethane (CFC-11)	ug/kg	34 U	48 U	39 U	43 U
Trifluorotrichloroethane (Freon 113)	ug/kg	34 U	48 U	39 U	43 U
Vinyl chloride	ug/kg	34 U	48 U	39 U	43 U
Xylenes (total)	ug/kg	100 U	150 U	120 U	130 U
Semi-Volatile Organic Compounds (SVOCs)					
2-Methylnaphthalene	ug/kg	6.9 U	8.2 U	38	7.1 U
Acenaphthene	ug/kg	6.9 U	8.2 U	7.8 U	7.1 U
Acenaphthylene	ug/kg	6.9 U	8.2 U	7.8 U	7.1 U
Anthracene	ug/kg	6.9 U	8.2 U	7.8 U	7.1 U
Benzo(a)anthracene	ug/kg	77	8.2 U	38	7.1 U
Benzo(a)pyrene	ug/kg	75	8.2 U	7.8 U	7.1 U
Benzo(b)fluoranthene	ug/kg	80	8.2 U	19	7.1 U
Benzo(g,h,i)perylene	ug/kg	140	8.2 U	35	31
Benzo(k)fluoranthene	ug/kg	68	8.2 U	7.8 U	7.1 U
Chrysene	ug/kg	72	8.2 U	23	7.1 U
Dibenz(a,h)anthracene	ug/kg	6.9 U	8.2 U	7.8 U	7.1 U
Fluoranthene	ug/kg	82	8.2 U	33	7.1 U
Fluorene	ug/kg	6.9 U	8.2 U	7.8 U	7.1 U
Indeno(1,2,3-cd)pyrene	ug/kg	65	8.2 U	7.8 U	7.1 U
Naphthalene	ug/kg	6.9 U	8.2 U	7.8 U	7.1 U
Phenanthrene	ug/kg	37	8.2 U	40	7.1 U
Pyrene	ug/kg	78	8.2 U	26	7.1 U
Metals					
Antimony	ug/kg	1400	82 J	66 J	69 J
Arsenic	ug/kg	630	740	750	1500
Barium	ug/kg	1600 J	37000	32000	11000
Beryllium	ug/kg	14 J	140 J	100 J	160 J
Cadmium	ug/kg	84 J	230	260	48 J
Chromium	ug/kg	31000	4200	3900	4800
Cobalt	ug/kg	1200	610	650	2000
Copper	ug/kg	6500	3400 J	3400 J	6500 J
Iron	ug/kg	9300000	2000000	2000000	3700000
Lead	ug/kg	31000	3800	4000	2100

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location		SB282-13	SB282-13	SB282-13	SB282-13	SB284-13
Sample Identification		SO-017360-102213-MR-036	SO-017360-102213-MR-037	SO-017360-102213-MR-038	SO-017360-102213-MR-039	SO-017360-102213-MR-030
Sample Date		10/22/2013	10/22/2013	10/22/2013	10/22/2013	10/22/2013
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(4-6) ft BGS
Sample Type						
	Units					
Metals						
Manganese	ug/kg	110000 J	20000 J	23000 J	26000 J	79000 J
Mercury	ug/kg	43 U	37 J	28 J	38 J	10 J
Molybdenum	ug/kg	35000	200 J	210 J	530	16000
Nickel	ug/kg	15000	2900	3100	3800	12000
Selenium	ug/kg	390 U	540	480	420	180 J
Silver	ug/kg	320 J	28 J	28 J	18 J	1300
Thallium	ug/kg	390 U	81 J	67 J	64 J	33 J
Vanadium	ug/kg	390 U	7300 J	6700 J	10000 J	6600
Zinc	ug/kg	5200	5800	6500	8300	15000
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	87 U	100 U	98 U	350 U	86 U
Aroclor-1221 (PCB-1221)	ug/kg	87 U	100 U	98 U	350 U	86 U
Aroclor-1232 (PCB-1232)	ug/kg	87 U	100 U	98 U	350 U	86 U
Aroclor-1242 (PCB-1242)	ug/kg	87 U	100 U	98 U	350 U	86 U
Aroclor-1248 (PCB-1248)	ug/kg	87 U	100 U	98 U	350 U	86 U
Aroclor-1254 (PCB-1254)	ug/kg	87 U	100 U	98 U	350 U	86 U
Aroclor-1260 (PCB-1260)	ug/kg	87 U	100 U	98 U	350 U	86 U
Total PCBs	ug/kg	ND	ND	ND	ND	ND
General Chemistry						
Moisture content (dry weight)	%	5.5	20	15	8.5	7.4

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

Sample Location	SB284-13	SB284-13	SB284-13	SB290-13	SB290-13
Sample Identification	SO-017360-102213-MR-031	SO-017360-102213-MR-032	SO-017360-102213-MR-033	SB-017360-102113-MR-005	SB-017360-102113-MR-006
Sample Date	10/22/2013	10/22/2013	10/22/2013	10/21/2013	10/21/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(0-2) ft BGS	(2-4) ft BGS
Sample Type	Duplicate				
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	38 U	35 U	44 U	42 U
1,1,2,2-Tetrachloroethane	ug/kg	38 U	35 U	44 U	42 U
1,1,2-Trichloroethane	ug/kg	38 U	35 U	44 U	42 U
1,1-Dichloroethane	ug/kg	38 U	35 U	44 U	42 U
1,1-Dichloroethene	ug/kg	38 U	35 U	44 U	42 U
1,2,4-Trichlorobenzene	ug/kg	38 U	35 U	44 U	42 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	38 U	35 U	44 U	42 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	38 U	35 U	44 U	42 U
1,2-Dichlorobenzene	ug/kg	38 U	35 U	44 U	42 U
1,2-Dichloroethane	ug/kg	38 U	35 U	44 U	42 U
1,2-Dichloropropane	ug/kg	38 U	35 U	44 U	42 U
1,3-Dichlorobenzene	ug/kg	38 U	35 U	44 U	42 U
1,4-Dichlorobenzene	ug/kg	38 U	35 U	44 U	42 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	260 U	230 U	290 U	280 U
2-Hexanone	ug/kg	38 U	35 U	44 U	42 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	38 U	35 U	44 U	42 U
Acetone	ug/kg	130 U	120 U	150 U	140 U
Benzene	ug/kg	38 U	35 U	44 U	42 U
Bromodichloromethane	ug/kg	38 U	35 U	44 U	42 U
Bromoform	ug/kg	38 U	35 U	44 U	42 U
Bromomethane (Methyl bromide)	ug/kg	96 U	87 U	110 U	100 U
Carbon disulfide	ug/kg	38 U	35 U	44 U	42 U
Carbon tetrachloride	ug/kg	38 U	35 U	44 U	42 U
Chlorobenzene	ug/kg	38 U	35 U	44 U	42 U
Chloroethane	ug/kg	130 U	120 U	150 U	140 U
Chloroform (Trichloromethane)	ug/kg	38 U	35 U	44 U	42 U
Chloromethane (Methyl chloride)	ug/kg	130 U	120 U	150 U	140 U
cis-1,2-Dichloroethene	ug/kg	38 U	35 U	44 U	42 U
cis-1,3-Dichloropropene	ug/kg	38 U	35 U	44 U	42 U
Cyclohexane	ug/kg	38 U	35 U	44 U	42 U
Dibromochloromethane	ug/kg	38 U	35 U	44 U	42 U
Dichlorodifluoromethane (CFC-12)	ug/kg	38 U	35 U	44 U	42 U
Ethylbenzene	ug/kg	38 U	35 U	44 U	42 U
Isopropyl benzene	ug/kg	38 U	35 U	44 U	42 U
Methyl acetate	ug/kg	260 U	230 U	290 U	280 U
Methyl cyclohexane	ug/kg	38 U	35 U	44 U	42 U
Methyl tert butyl ether (MTBE)	ug/kg	38 U	35 U	44 U	42 U
Methylene chloride	ug/kg	38 U	35 U	44 U	42 U
Styrene	ug/kg	38 U	35 U	44 U	42 U
Tetrachloroethene	ug/kg	38 U	35 U	44 U	42 U

TABLE 2A

**VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

<i>Sample Location</i>		<i>SB284-13</i>	<i>SB284-13</i>	<i>SB284-13</i>	<i>SB290-13</i>	<i>SB290-13</i>
<i>Sample Identification</i>		<i>SO-017360-102213-MR-031</i>	<i>SO-017360-102213-MR-032</i>	<i>SO-017360-102213-MR-033</i>	<i>SB-017360-102113-MR-005</i>	<i>SB-017360-102113-MR-006</i>
<i>Sample Date</i>		<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>
<i>Sample Depth</i>		<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>
<i>Sample Type</i>		<i>Duplicate</i>				
<i>Units</i>						
<i>Volatile Organic Compounds (VOCs)</i>						
Toluene	ug/kg	38 U	35 U	44 U	34 U	42 U
trans-1,2-Dichloroethene	ug/kg	38 U	35 U	44 U	34 U	42 U
trans-1,3-Dichloropropene	ug/kg	38 U	35 U	44 U	34 U	42 U
Trichloroethene	ug/kg	38 U	35 U	44 U	34 U	42 U
Trichlorofluoromethane (CFC-11)	ug/kg	38 U	35 U	44 U	34 U	42 U
Trifluorotrichloroethane (Freon 113)	ug/kg	38 U	35 U	44 U	34 U	42 U
Vinyl chloride	ug/kg	38 U	35 U	44 U	34 U	42 U
Xylenes (total)	ug/kg	120 U	100 U	130 U	100 U	130 U
<i>Semi-Volatile Organic Compounds (SVOCs)</i>						
2-Methylnaphthalene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Acenaphthene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Acenaphthylene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Anthracene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Benzo(a)anthracene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Benzo(a)pyrene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Benzo(b)fluoranthene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Benzo(g,h,i)perylene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Benzo(k)fluoranthene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Chrysene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Dibenz(a,h)anthracene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Fluoranthene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Fluorene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Naphthalene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Phenanthrene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
Pyrene	ug/kg	7.1 U	7.0 U	7.3 U	-	-
<i>Metals</i>						
Antimony	ug/kg	990 J	91 J	65 J	-	-
Arsenic	ug/kg	1700	1200	1400	-	-
Barium	ug/kg	7400 J	6500 J	11000 J	-	-
Beryllium	ug/kg	37 J	120 J	110 J	-	-
Cadmium	ug/kg	480	29 J	97 J	-	-
Chromium	ug/kg	22000	5400	7200	-	-
Cobalt	ug/kg	1100	1600	2000	-	-
Copper	ug/kg	5100	1200	4900	-	-
Iron	ug/kg	7600000	3800000	5000000	-	-
Lead	ug/kg	5700	1900	2400	-	-

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

<i>Sample Location</i>		<i>SB284-13</i>	<i>SB284-13</i>	<i>SB284-13</i>	<i>SB290-13</i>	<i>SB290-13</i>
<i>Sample Identification</i>		<i>SO-017360-102213-MR-031</i>	<i>SO-017360-102213-MR-032</i>	<i>SO-017360-102213-MR-033</i>	<i>SB-017360-102113-MR-005</i>	<i>SB-017360-102113-MR-006</i>
<i>Sample Date</i>		<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/22/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>
<i>Sample Depth</i>		<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(0-2) ft BGS</i>	<i>(2-4) ft BGS</i>
<i>Sample Type</i>		<i>Duplicate</i>				
<i>Metals</i>	<i>Units</i>					
Manganese	ug/kg	95000 J	24000 J	37000 J	-	-
Mercury	ug/kg	13 J	8.6 J	25 J	-	-
Molybdenum	ug/kg	23000	200 J	360 J	-	-
Nickel	ug/kg	17000	3500	5700	-	-
Selenium	ug/kg	110 J	84 J	320 J	-	-
Silver	ug/kg	1800	5.9 J	12 J	-	-
Thallium	ug/kg	28 J	24 J	44 J	-	-
Vanadium	ug/kg	3400	8200	11000	-	-
Zinc	ug/kg	19000	5400	9400	-	-
<i>PCBs</i>						
Aroclor-1016 (PCB-1016)	ug/kg	86 U	85 U	93 U	-	-
Aroclor-1221 (PCB-1221)	ug/kg	86 U	85 U	93 U	-	-
Aroclor-1232 (PCB-1232)	ug/kg	86 U	85 U	93 U	-	-
Aroclor-1242 (PCB-1242)	ug/kg	86 U	85 U	93 U	-	-
Aroclor-1248 (PCB-1248)	ug/kg	86 U	85 U	93 U	-	-
Aroclor-1254 (PCB-1254)	ug/kg	86 U	85 U	93 U	-	-
Aroclor-1260 (PCB-1260)	ug/kg	86 U	85 U	93 U	-	-
Total PCBs	ug/kg	ND	ND	ND	-	-
<i>General Chemistry</i>						
Moisture content (dry weight)	%	7.6	6.3	11	6.8	6.0

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB290-13	SB290-13	SB290-13	SB290-13	SB290-13
Sample Identification	SB-017360-102113-MR-007	SB-017360-102113-MR-008	SB-017360-102113-MR-010	SB-017360-102113-MR-009	SB-017360-102113-MR-011
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(12-14) ft BGS
Sample Type					
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	33 U	34 U	34 U	660 U
1,1,2,2-Tetrachloroethane	ug/kg	33 U	34 U	34 U	660 U
1,1,2-Trichloroethane	ug/kg	33 U	34 U	34 U	660 U
1,1-Dichloroethane	ug/kg	33 U	34 U	34 U	660 U
1,1-Dichloroethene	ug/kg	33 U	34 U	34 U	660 U
1,2,4-Trichlorobenzene	ug/kg	33 U	34 U	34 U	660 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	33 U	34 U	34 U	660 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	33 U	34 U	34 U	660 U
1,2-Dichlorobenzene	ug/kg	33 U	34 U	34 U	660 U
1,2-Dichloroethane	ug/kg	33 U	34 U	34 U	660 U
1,2-Dichloropropane	ug/kg	33 U	34 U	34 U	660 U
1,3-Dichlorobenzene	ug/kg	33 U	34 U	34 U	660 U
1,4-Dichlorobenzene	ug/kg	33 U	34 U	34 U	660 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	220 U	220 U	230 U	4400 U
2-Hexanone	ug/kg	33 U	34 U	34 U	660 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	33 U	34 U	34 U	660 U
Acetone	ug/kg	210	110 U	110 U	2200 U
Benzene	ug/kg	33 U	34 U	34 U	660 U
Bromodichloromethane	ug/kg	33 U	34 U	34 U	660 U
Bromoform	ug/kg	33 U	34 U	34 U	660 U
Bromomethane (Methyl bromide)	ug/kg	83 U	84 U	86 U	1600 U
Carbon disulfide	ug/kg	33 U	34 U	34 U	660 U
Carbon tetrachloride	ug/kg	33 U	34 U	34 U	660 U
Chlorobenzene	ug/kg	33 U	34 U	34 U	660 U
Chloroethane	ug/kg	110 U	110 U	110 U	2200 U
Chloroform (Trichloromethane)	ug/kg	33 U	34 U	34 U	660 U
Chloromethane (Methyl chloride)	ug/kg	110 U	110 U	110 U	2200 U
cis-1,2-Dichloroethene	ug/kg	33 U	34 U	34 U	660 U
cis-1,3-Dichloropropene	ug/kg	33 U	34 U	34 U	660 U
Cyclohexane	ug/kg	33 U	34 U	34 U	660 U
Dibromochloromethane	ug/kg	33 U	34 U	34 U	660 U
Dichlorodifluoromethane (CFC-12)	ug/kg	33 U	34 U	34 U	660 U
Ethylbenzene	ug/kg	13 J	15 J	17 J	660 U
Isopropyl benzene	ug/kg	15 J	65	77	660 U
Methyl acetate	ug/kg	250	220 U	230 U	4400 U
Methyl cyclohexane	ug/kg	33 U	34 U	34 U	660 U
Methyl tert butyl ether (MTBE)	ug/kg	33 U	34 U	34 U	660 U
Methylene chloride	ug/kg	33 U	34 U	34 U	660 U
Styrene	ug/kg	33 U	34 U	34 U	660 U
Tetrachloroethene	ug/kg	33 U	34 U	34 U	660 U

TABLE 2A

**VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

<i>Sample Location</i>		<i>SB290-13</i>	<i>SB290-13</i>	<i>SB290-13</i>	<i>SB290-13</i>	<i>SB290-13</i>
<i>Sample Identification</i>		<i>SB-017360-102113-MR-007</i>	<i>SB-017360-102113-MR-008</i>	<i>SB-017360-102113-MR-010</i>	<i>SB-017360-102113-MR-009</i>	<i>SB-017360-102113-MR-011</i>
<i>Sample Date</i>		<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>
<i>Sample Depth</i>		<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(12-14) ft BGS</i>
<i>Sample Type</i>						
	<i>Units</i>					
<i>Volatile Organic Compounds (VOCs)</i>						
Toluene	ug/kg	22 J	34 U	34 U	660 U	32 U
trans-1,2-Dichloroethene	ug/kg	33 U	34 U	34 U	660 U	32 U
trans-1,3-Dichloropropene	ug/kg	33 U	34 U	34 U	660 U	32 U
Trichloroethene	ug/kg	33 U	34 U	34 U	660 U	32 U
Trichlorofluoromethane (CFC-11)	ug/kg	33 U	34 U	34 U	660 U	32 U
Trifluorotrichloroethane (Freon 113)	ug/kg	33 U	34 U	34 U	660 U	32 U
Vinyl chloride	ug/kg	33 U	34 U	34 U	660 U	32 U
Xylenes (total)	ug/kg	51 J	100	120	2000 U	96 U
<i>Semi-Volatile Organic Compounds (SVOCs)</i>						
2-Methylnaphthalene	ug/kg	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-
<i>Metals</i>						
Antimony	ug/kg	-	-	-	-	-
Arsenic	ug/kg	-	-	-	-	-
Barium	ug/kg	-	-	-	-	-
Beryllium	ug/kg	-	-	-	-	-
Cadmium	ug/kg	-	-	-	-	-
Chromium	ug/kg	-	-	-	-	-
Cobalt	ug/kg	-	-	-	-	-
Copper	ug/kg	-	-	-	-	-
Iron	ug/kg	-	-	-	-	-
Lead	ug/kg	-	-	-	-	-

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

<i>Sample Location</i>	<i>SB290-13</i>	<i>SB290-13</i>	<i>SB290-13</i>	<i>SB290-13</i>	<i>SB290-13</i>
<i>Sample Identification</i>	SB-017360-102113-MR-007	SB-017360-102113-MR-008	SB-017360-102113-MR-010	SB-017360-102113-MR-009	SB-017360-102113-MR-011
<i>Sample Date</i>	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
<i>Sample Depth</i>	(4-6) ft BGS	(6-8) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(12-14) ft BGS
<i>Sample Type</i>					
<i>Units</i>					
Metals					
Manganese	ug/kg	-	-	-	-
Mercury	ug/kg	-	-	-	-
Molybdenum	ug/kg	-	-	-	-
Nickel	ug/kg	-	-	-	-
Selenium	ug/kg	-	-	-	-
Silver	ug/kg	-	-	-	-
Thallium	ug/kg	-	-	-	-
Vanadium	ug/kg	-	-	-	-
Zinc	ug/kg	-	-	-	-
PCBs					
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-
Total PCBs	ug/kg	-	-	-	-
General Chemistry					
Moisture content (dry weight)	%	7.1	11	12	8.5
6.3					

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB291-13	SB291-13	SB291-13	SB291-13	SB291-13
Sample Identification	SB-017360-102113-MR-013	SB-017360-102113-MR-014	SB-017360-102113-MR-015	SB-017360-102113-MR-016	SB-017360-102113-MR-017
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	42 U	42 U	38 U	49 U
1,1,2,2-Tetrachloroethane	ug/kg	42 U	42 U	38 U	49 U
1,1,2-Trichloroethane	ug/kg	42 U	42 U	38 U	49 U
1,1-Dichloroethane	ug/kg	42 U	42 U	38 U	49 U
1,1-Dichloroethene	ug/kg	42 U	42 U	38 U	49 U
1,2,4-Trichlorobenzene	ug/kg	42 U	42 U	38 U	49 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	42 U	42 U	38 U	49 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	42 U	42 U	38 U	49 U
1,2-Dichlorobenzene	ug/kg	42 U	42 U	38 U	49 U
1,2-Dichloroethane	ug/kg	42 U	42 U	38 U	49 U
1,2-Dichloropropane	ug/kg	42 U	42 U	38 U	49 U
1,3-Dichlorobenzene	ug/kg	42 U	42 U	38 U	49 U
1,4-Dichlorobenzene	ug/kg	42 U	42 U	38 U	49 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	280 U	280 U	250 U	330 U
2-Hexanone	ug/kg	42 U	42 U	38 U	49 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	42 U	42 U	38 U	49 U
Acetone	ug/kg	140 U	140 U	130 U	160 U
Benzene	ug/kg	42 U	42 U	38 U	49 U
Bromodichloromethane	ug/kg	42 U	42 U	38 U	49 U
Bromoform	ug/kg	42 U	42 U	38 U	49 U
Bromomethane (Methyl bromide)	ug/kg	100 U	110 U	95 U	120 U
Carbon disulfide	ug/kg	42 U	42 U	38 U	49 U
Carbon tetrachloride	ug/kg	42 U	42 U	38 U	49 U
Chlorobenzene	ug/kg	42 U	42 U	38 U	49 U
Chloroethane	ug/kg	140 U	140 U	130 U	160 U
Chloroform (Trichloromethane)	ug/kg	42 U	42 U	38 U	49 U
Chloromethane (Methyl chloride)	ug/kg	140 U	140 U	130 U	160 U
cis-1,2-Dichloroethene	ug/kg	42 U	42 U	38 U	49 U
cis-1,3-Dichloropropene	ug/kg	42 U	42 U	38 U	49 U
Cyclohexane	ug/kg	42 U	42 U	38 U	49 U
Dibromochloromethane	ug/kg	42 U	42 U	38 U	49 U
Dichlorodifluoromethane (CFC-12)	ug/kg	42 U	42 U	38 U	49 U
Ethylbenzene	ug/kg	42 U	42 U	38 U	49 U
Isopropyl benzene	ug/kg	42 U	42 U	38 U	49 U
Methyl acetate	ug/kg	280 U	280 U	250 U	330 U
Methyl cyclohexane	ug/kg	42 U	42 U	38 U	49 U
Methyl tert butyl ether (MTBE)	ug/kg	42 U	42 U	38 U	49 U
Methylene chloride	ug/kg	42 U	42 U	38 U	49 U
Styrene	ug/kg	42 U	42 U	38 U	49 U
Tetrachloroethene	ug/kg	42 U	42 U	38 U	49 U

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

Sample Location	SB291-13	SB291-13	SB291-13	SB291-13	SB291-13
Sample Identification	SB-017360-102113-MR-013	SB-017360-102113-MR-014	SB-017360-102113-MR-015	SB-017360-102113-MR-016	SB-017360-102113-MR-017
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth	(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type					
	Units				
Volatile Organic Compounds (VOCs)					
Toluene	ug/kg	42 U	42 U	38 U	49 U
trans-1,2-Dichloroethene	ug/kg	42 U	42 U	38 U	49 U
trans-1,3-Dichloropropene	ug/kg	42 U	42 U	38 U	49 U
Trichloroethene	ug/kg	480	410	1400	2000
Trichlorofluoromethane (CFC-11)	ug/kg	42 U	42 U	38 U	49 U
Trifluorotrichloroethane (Freon 113)	ug/kg	42 U	42 U	38 U	49 U
Vinyl chloride	ug/kg	42 U	42 U	38 U	49 U
Xylenes (total)	ug/kg	130 U	130 U	110 U	150 U
Semi-Volatile Organic Compounds (SVOCs)					
2-Methylnaphthalene	ug/kg	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-
Anthracene	ug/kg	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-
Chrysene	ug/kg	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-
Fluorene	ug/kg	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-
Naphthalene	ug/kg	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-
Pyrene	ug/kg	-	-	-	-
Metals					
Antimony	ug/kg	-	-	-	-
Arsenic	ug/kg	-	-	-	-
Barium	ug/kg	-	-	-	-
Beryllium	ug/kg	-	-	-	-
Cadmium	ug/kg	-	-	-	-
Chromium	ug/kg	-	-	-	-
Cobalt	ug/kg	-	-	-	-
Copper	ug/kg	-	-	-	-
Iron	ug/kg	-	-	-	-
Lead	ug/kg	-	-	-	-

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location		SB291-13	SB291-13	SB291-13	SB291-13	SB291-13
Sample Identification		SB-017360-102113-MR-013	SB-017360-102113-MR-014	SB-017360-102113-MR-015	SB-017360-102113-MR-016	SB-017360-102113-MR-017
Sample Date		10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth		(0-2) ft BGS	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS
Sample Type						
	Units					
Metals						
Manganese	ug/kg	-	-	-	-	-
Mercury	ug/kg	-	-	-	-	-
Molybdenum	ug/kg	-	-	-	-	-
Nickel	ug/kg	-	-	-	-	-
Selenium	ug/kg	-	-	-	-	-
Silver	ug/kg	-	-	-	-	-
Thallium	ug/kg	-	-	-	-	-
Vanadium	ug/kg	-	-	-	-	-
Zinc	ug/kg	-	-	-	-	-
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-
Total PCBs	ug/kg	-	-	-	-	-
General Chemistry						
Moisture content (dry weight)	%	9.3	19	12	24	11

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB292-13	SB292-13	SB292-13	SB292-13	SB294-13
Sample Identification	SO-017360-102113-MR-018	SO-017360-102113-MR-019	SO-017360-102113-MR-020	SO-017360-102113-MR-021	SO-017360-102113-MR-023
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS
Sample Type					
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	38 U	34 U	37 U	41 U
1,1,2,2-Tetrachloroethane	ug/kg	38 U	34 U	37 U	41 U
1,1,2-Trichloroethane	ug/kg	38 U	34 U	37 U	41 U
1,1-Dichloroethane	ug/kg	38 U	34 U	37 U	41 U
1,1-Dichloroethene	ug/kg	38 U	34 U	37 U	41 U
1,2,4-Trichlorobenzene	ug/kg	38 U	34 U	37 U	41 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	38 U	34 U	37 U	41 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	38 U	34 U	37 U	41 U
1,2-Dichlorobenzene	ug/kg	38 U	34 U	37 U	41 U
1,2-Dichloroethane	ug/kg	38 U	34 U	37 U	41 U
1,2-Dichloropropane	ug/kg	38 U	34 U	37 U	41 U
1,3-Dichlorobenzene	ug/kg	38 U	34 U	37 U	41 U
1,4-Dichlorobenzene	ug/kg	38 U	34 U	37 U	41 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	250 U	220 U	250 U	270 U
2-Hexanone	ug/kg	38 U	34 U	37 U	41 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	38 U	34 U	37 U	41 U
Acetone	ug/kg	130 U	110 U	120 U	140 U
Benzene	ug/kg	38 U	34 U	37 U	41 U
Bromodichloromethane	ug/kg	38 U	34 U	37 U	41 U
Bromoform	ug/kg	38 U	34 U	37 U	41 U
Bromomethane (Methyl bromide)	ug/kg	95 U	84 U	93 U	100 U
Carbon disulfide	ug/kg	38 U	34 U	37 U	41 U
Carbon tetrachloride	ug/kg	38 U	34 U	37 U	41 U
Chlorobenzene	ug/kg	38 U	34 U	37 U	41 U
Chloroethane	ug/kg	130 U	110 U	120 U	140 U
Chloroform (Trichloromethane)	ug/kg	38 U	34 U	37 U	41 U
Chloromethane (Methyl chloride)	ug/kg	130 U	110 U	120 U	140 U
cis-1,2-Dichloroethene	ug/kg	38 U	34 U	37 U	41 U
cis-1,3-Dichloropropene	ug/kg	38 U	34 U	37 U	41 U
Cyclohexane	ug/kg	38 U	34 U	37 U	41 U
Dibromochloromethane	ug/kg	38 U	34 U	37 U	41 U
Dichlorodifluoromethane (CFC-12)	ug/kg	38 U	34 U	37 U	41 U
Ethylbenzene	ug/kg	38 U	34 U	37 U	41 U
Isopropyl benzene	ug/kg	38 U	34 U	37 U	41 U
Methyl acetate	ug/kg	110 U	220 U	250 U	130 U
Methyl cyclohexane	ug/kg	250	34 U	37 U	41 U
Methyl tert butyl ether (MTBE)	ug/kg	38 U	34 U	37 U	41 U
Methylene chloride	ug/kg	38 U	34 U	37 U	41 U
Styrene	ug/kg	38 U	34 U	37 U	41 U
Tetrachloroethene	ug/kg	38 U	34 U	37 U	41 U

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB292-13	SB292-13	SB292-13	SB292-13	SB294-13
Sample Identification	SO-017360-102113-MR-018	SO-017360-102113-MR-019	SO-017360-102113-MR-020	SO-017360-102113-MR-021	SO-017360-102113-MR-023
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/21/2013
Sample Depth	(2-4) ft BGS	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS
Sample Type					
Units					
Volatile Organic Compounds (VOCs)					
Toluene	ug/kg	100	34 U	37 U	41 U
trans-1,2-Dichloroethene	ug/kg	38 U	34 U	37 U	41 U
trans-1,3-Dichloropropene	ug/kg	38 U	34 U	37 U	41 U
Trichloroethene	ug/kg	800	34 U	37 U	550
Trichlorofluoromethane (CFC-11)	ug/kg	38 U	34 U	37 U	41 U
Trifluorotrichloroethane (Freon 113)	ug/kg	38 U	34 U	37 U	41 U
Vinyl chloride	ug/kg	38 U	34 U	37 U	41 U
Xylenes (total)	ug/kg	160	100 U	110 U	120 U
Semi-Volatile Organic Compounds (SVOCs)					
2-Methylnaphthalene	ug/kg	130	6.9 U	7.1 U	33
Acenaphthene	ug/kg	29	6.9 U	7.1 U	7.0 U
Acenaphthylene	ug/kg	170	6.9 U	7.1 U	7.0 U
Anthracene	ug/kg	230	6.9 U	7.1 U	7.0 U
Benzo(a)anthracene	ug/kg	590	6.9 U	7.1 U	63
Benzo(a)pyrene	ug/kg	920	6.9 U	7.1 U	46
Benzo(b)fluoranthene	ug/kg	1100	6.9 U	7.1 U	66
Benzo(g,h,i)perylene	ug/kg	1400	6.9 U	7.1 U	66
Benzo(k)fluoranthene	ug/kg	700	6.9 U	7.1 U	42
Chrysene	ug/kg	870	6.9 U	7.1 U	82
Dibenz(a,h)anthracene	ug/kg	280	6.9 U	7.1 U	7.0 U
Fluoranthene	ug/kg	1100	6.9 U	7.1 U	68
Fluorene	ug/kg	33	6.9 U	7.1 U	7.0 U
Indeno(1,2,3-cd)pyrene	ug/kg	810	6.9 U	7.1 U	36
Naphthalene	ug/kg	120	6.9 U	7.1 U	22
Phenanthrene	ug/kg	540	6.9 U	7.1 U	73
Pyrene	ug/kg	1000	6.9 U	7.1 U	70
Metals					
Antimony	ug/kg	7200	110 J	24 J	1800 U
Arsenic	ug/kg	3900	1100	870	550 J
Barium	ug/kg	160000 J	13000 J	5600 J	5500 J
Beryllium	ug/kg	170 J	89 J	69 J	130 J
Cadmium	ug/kg	2200	52 J	20 J	730 U
Chromium	ug/kg	63000	6600	5500	7600
Cobalt	ug/kg	10000	1900	1500	2200
Copper	ug/kg	200000	7700	3800	7600
Iron	ug/kg	19000000	5000000	3700000	4500000
Lead	ug/kg	300000	6700	3300	2000

**VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

<i>Sample Location</i>		<i>SB292-13</i>	<i>SB292-13</i>	<i>SB292-13</i>	<i>SB292-13</i>	<i>SB294-13</i>
<i>Sample Identification</i>		<i>SO-017360-102113-MR-018</i>	<i>SO-017360-102113-MR-019</i>	<i>SO-017360-102113-MR-020</i>	<i>SO-017360-102113-MR-021</i>	<i>SO-017360-102113-MR-023</i>
<i>Sample Date</i>		<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>
<i>Sample Depth</i>		<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(2-4) ft BGS</i>
<i>Sample Type</i>						
	<i>Units</i>					
Metals						
Manganese	ug/kg	310000 J	35000 J	28000 J	55000 J	620000 J
Mercury	ug/kg	26 J	15 J	9.2 J	16 J	22 J
Molybdenum	ug/kg	13000	490	42 J	150 J	150000
Nickel	ug/kg	46000	4200	3800	7400	1400000
Selenium	ug/kg	440 J	240 J	190 J	340 J	280 J
Silver	ug/kg	660 J	80 J	52 J	1800 U	320 J
Thallium	ug/kg	2200 U	45 J	19 J	58 J	1800 U
Vanadium	ug/kg	11000	10000	7100	8600	1800 U
Zinc	ug/kg	190000	15000	6500	11000	41000
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	89 U	84 U	83 U	85 U	88 U
Aroclor-1221 (PCB-1221)	ug/kg	89 U	84 U	83 U	85 U	88 U
Aroclor-1232 (PCB-1232)	ug/kg	89 U	84 U	83 U	85 U	88 U
Aroclor-1242 (PCB-1242)	ug/kg	89 U	84 U	83 U	85 U	88 U
Aroclor-1248 (PCB-1248)	ug/kg	89 U	84 U	83 U	85 U	88 U
Aroclor-1254 (PCB-1254)	ug/kg	89 U	84 U	83 U	85 U	88 U
Aroclor-1260 (PCB-1260)	ug/kg	89 U	84 U	83 U	85 U	88 U
Total PCBs	ug/kg	ND	ND	ND	ND	ND
General Chemistry						
Moisture content (dry weight)	%	9.7	5.6	3.6	6.1	6.4

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

Sample Location	SB294-13	SB294-13	SB294-13	SB294-13	SB295-13
Sample Identification	SO-017360-102113-MR-024	SO-017360-102113-MR-025	SO-017360-102113-MR-026	SO-017360-102113-MR-027	SO-017360-102313-MR-068
Sample Date	10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/23/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(2-4) ft BGS
Sample Type				Duplicate	
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	67 U	45 U	37 U	34 U
1,1,2,2-Tetrachloroethane	ug/kg	67 U	45 U	37 U	34 U
1,1,2-Trichloroethane	ug/kg	67 U	45 U	37 U	34 U
1,1-Dichloroethane	ug/kg	67 U	45 U	37 U	34 U
1,1-Dichloroethene	ug/kg	67 U	45 U	37 U	34 U
1,2,4-Trichlorobenzene	ug/kg	67 U	45 U	37 U	34 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	67 U	45 U	37 U	34 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	67 U	45 U	37 U	34 U
1,2-Dichlorobenzene	ug/kg	67 U	45 U	37 U	34 U
1,2-Dichloroethane	ug/kg	67 U	45 U	37 U	34 U
1,2-Dichloropropane	ug/kg	67 U	45 U	37 U	34 U
1,3-Dichlorobenzene	ug/kg	67 U	45 U	37 U	34 U
1,4-Dichlorobenzene	ug/kg	67 U	45 U	37 U	34 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	440 U	300 U	250 U	220 U
2-Hexanone	ug/kg	67 U	45 U	37 U	34 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	67 U	45 U	37 U	34 U
Acetone	ug/kg	220 U	150 U	120 U	110 U
Benzene	ug/kg	67 U	45 U	37 U	34 U
Bromodichloromethane	ug/kg	67 U	45 U	37 U	34 U
Bromoform	ug/kg	67 U	45 U	37 U	34 U
Bromomethane (Methyl bromide)	ug/kg	170 U	110 U	93 U	84 U
Carbon disulfide	ug/kg	67 U	45 U	37 U	34 U
Carbon tetrachloride	ug/kg	67 U	45 U	37 U	34 U
Chlorobenzene	ug/kg	67 U	45 U	37 U	34 U
Chloroethane	ug/kg	220 U	150 U	120 U	110 U
Chloroform (Trichloromethane)	ug/kg	67 U	45 U	37 U	34 U
Chloromethane (Methyl chloride)	ug/kg	220 U	150 U	120 U	110 U
cis-1,2-Dichloroethene	ug/kg	67 U	45 U	37 U	34 U
cis-1,3-Dichloropropene	ug/kg	67 U	45 U	37 U	34 U
Cyclohexane	ug/kg	67 U	45 U	37 U	34 U
Dibromochloromethane	ug/kg	67 U	45 U	37 U	34 U
Dichlorodifluoromethane (CFC-12)	ug/kg	67 U	45 U	37 U	34 U
Ethylbenzene	ug/kg	67 U	45 U	37 U	34 U
Isopropyl benzene	ug/kg	67 U	45 U	37 U	34 U
Methyl acetate	ug/kg	440 U	300 U	250 U	220 U
Methyl cyclohexane	ug/kg	67 U	45 U	37 U	34 U
Methyl tert butyl ether (MTBE)	ug/kg	67 U	45 U	37 U	34 U
Methylene chloride	ug/kg	67 U	45 U	37 U	34 U
Styrene	ug/kg	67 U	45 U	37 U	34 U
Tetrachloroethene	ug/kg	67 U	45 U	37 U	34 U

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location		SB294-13	SB294-13	SB294-13	SB294-13	SB295-13
Sample Identification		SO-017360-102113-MR-024	SO-017360-102113-MR-025	SO-017360-102113-MR-026	SO-017360-102113-MR-027	SO-017360-102313-MR-068
Sample Date		10/21/2013	10/21/2013	10/21/2013	10/21/2013	10/23/2013
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(2-4) ft BGS
Sample Type					Duplicate	
Units						
Volatile Organic Compounds (VOCs)						
Toluene	ug/kg	67 U	45 U	37 U	34 U	34 J
trans-1,2-Dichloroethene	ug/kg	67 U	45 U	37 U	34 U	36 U
trans-1,3-Dichloropropene	ug/kg	67 U	45 U	37 U	34 U	36 U
Trichloroethene	ug/kg	67 U	45 U	37 U	34 U	990
Trichlorofluoromethane (CFC-11)	ug/kg	67 U	45 U	37 U	34 U	36 U
Trifluorotrichloroethane (Freon 113)	ug/kg	67 U	45 U	37 U	34 U	36 U
Vinyl chloride	ug/kg	67 U	45 U	37 U	34 U	36 U
Xylenes (total)	ug/kg	200 U	140 U	110 U	100 U	110 U
Semi-Volatile Organic Compounds (SVOCs)						
2-Methylnaphthalene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	40
Acenaphthene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	7.1 U
Acenaphthylene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	24
Anthracene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	100
Benzo(a)anthracene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	330
Benzo(a)pyrene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	400
Benzo(b)fluoranthene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	400
Benzo(g,h,i)perylene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	360
Benzo(k)fluoranthene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	360
Chrysene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	400
Dibenz(a,h)anthracene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	63
Fluoranthene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	650
Fluorene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	25
Indeno(1,2,3-cd)pyrene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	260
Naphthalene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	22
Phenanthrene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	400
Pyrene	ug/kg	7.0 U	7.0 U	7.0 U	6.9 U	650
Metals						
Antimony	ug/kg	120 J	31 J	33 J	36 J	1200 J
Arsenic	ug/kg	980	1200	970	1100	3500
Barium	ug/kg	11000 J	3900 J	5100 J	5800 J	46000
Beryllium	ug/kg	76 J	87 J	110 J	110 J	190 J
Cadmium	ug/kg	53 J	27 J	36 J	36 J	820
Chromium	ug/kg	6600	5200	10000	7000	100000
Cobalt	ug/kg	1500	1600	2800	2500	8200
Copper	ug/kg	2800	2000	4300	5000	50000
Iron	ug/kg	4600000	4200000	5500000	5400000	9300000
Lead	ug/kg	4200	1900	2200	2400	52000 J

**VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

<i>Sample Location</i>		<i>SB294-13</i>	<i>SB294-13</i>	<i>SB294-13</i>	<i>SB294-13</i>	<i>SB295-13</i>
<i>Sample Identification</i>		<i>SO-017360-102113-MR-024</i>	<i>SO-017360-102113-MR-025</i>	<i>SO-017360-102113-MR-026</i>	<i>SO-017360-102113-MR-027</i>	<i>SO-017360-102313-MR-068</i>
<i>Sample Date</i>		<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/21/2013</i>	<i>10/23/2013</i>
<i>Sample Depth</i>		<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(2-4) ft BGS</i>
<i>Sample Type</i>					<i>Duplicate</i>	
Units						
Metals						
Manganese	ug/kg	37000 J	29000 J	74000 J	86000 J	350000
Mercury	ug/kg	11 J	11 J	15 J	11 J	25 J
Molybdenum	ug/kg	850	150 J	130 J	410 J	20000
Nickel	ug/kg	17000	3900	6600	5400	85000
Selenium	ug/kg	170 J	170 J	470	400 J	2000 U
Silver	ug/kg	22 J	390 U	390 U	410 U	900 J
Thallium	ug/kg	31 J	24 J	34 J	33 J	53 J
Vanadium	ug/kg	8600	8800	11000	9900	6900
Zinc	ug/kg	10000	6300	9800	9900	65000
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	85 U	87 U	87 U	86 U	-
Aroclor-1221 (PCB-1221)	ug/kg	85 U	87 U	87 U	86 U	-
Aroclor-1232 (PCB-1232)	ug/kg	85 U	87 U	87 U	86 U	-
Aroclor-1242 (PCB-1242)	ug/kg	85 U	87 U	87 U	86 U	-
Aroclor-1248 (PCB-1248)	ug/kg	85 U	87 U	87 U	86 U	-
Aroclor-1254 (PCB-1254)	ug/kg	85 U	87 U	87 U	86 U	-
Aroclor-1260 (PCB-1260)	ug/kg	85 U	87 U	87 U	86 U	-
Total PCBs	ug/kg	ND	ND	ND	ND	-
General Chemistry						
Moisture content (dry weight)	%	4.5	4.7	7.2	6.0	6.9

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

Sample Location		SB295-13	SB295-13	SB295-13	SB297-13	SB297-13
Sample Identification		SO-017360-102313-MR-069	SO-017360-102313-MR-070	SO-017360-102313-MR-071	SO-017360-102313-MR-073	SO-017360-102313-MR-074
Sample Date		10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type						
Units						
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	ug/kg	40 U	87 U	36 U	41 U	49 U
1,1,2,2-Tetrachloroethane	ug/kg	40 U	87 U	36 U	41 U	49 U
1,1,2-Trichloroethane	ug/kg	40 U	87 U	36 U	41 U	49 U
1,1-Dichloroethane	ug/kg	40 U	87 U	36 U	41 U	49 U
1,1-Dichloroethene	ug/kg	40 U	87 U	36 U	41 U	49 U
1,2,4-Trichlorobenzene	ug/kg	40 U	87 U	36 U	41 U	49 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	40 U	87 U	36 U	41 U	49 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	40 U	87 U	36 U	41 U	49 U
1,2-Dichlorobenzene	ug/kg	40 U	87 U	36 U	41 U	49 U
1,2-Dichloroethane	ug/kg	40 U	87 U	36 U	41 U	49 U
1,2-Dichloropropane	ug/kg	40 U	87 U	36 U	41 U	49 U
1,3-Dichlorobenzene	ug/kg	40 U	87 U	36 U	41 U	49 U
1,4-Dichlorobenzene	ug/kg	40 U	87 U	36 U	41 U	49 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	270 U	580 U	240 U	270 U	330 U
2-Hexanone	ug/kg	40 U	87 U	36 U	41 U	49 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	40 U	87 U	36 U	41 U	49 U
Acetone	ug/kg	130 U	290 U	120 U	140 U	160 U
Benzene	ug/kg	40 U	87 U	36 U	31 J	49 U
Bromodichloromethane	ug/kg	40 U	87 U	36 U	41 U	49 U
Bromoform	ug/kg	40 U	87 U	36 U	41 U	49 U
Bromomethane (Methyl bromide)	ug/kg	100 U	220 U	89 U	100 U	120 U
Carbon disulfide	ug/kg	40 U	87 U	36 U	41 U	49 U
Carbon tetrachloride	ug/kg	40 U	87 U	36 U	41 U	49 U
Chlorobenzene	ug/kg	40 U	87 U	36 U	41 U	49 U
Chloroethane	ug/kg	130 U	290 U	120 U	140 U	160 U
Chloroform (Trichloromethane)	ug/kg	40 U	87 U	36 U	41 U	49 U
Chloromethane (Methyl chloride)	ug/kg	130 U	290 U	120 U	140 U	160 U
cis-1,2-Dichloroethene	ug/kg	40 U	87 U	36 U	41 U	49 U
cis-1,3-Dichloropropene	ug/kg	40 U	87 U	36 U	41 U	49 U
Cyclohexane	ug/kg	40 U	87 U	36 U	41 U	49 U
Dibromochloromethane	ug/kg	40 U	87 U	36 U	41 U	49 U
Dichlorodifluoromethane (CFC-12)	ug/kg	40 U	87 U	36 U	41 U	49 U
Ethylbenzene	ug/kg	40 U	87 U	36 U	24 J	49 U
Isopropyl benzene	ug/kg	40 U	87 U	36 U	41 U	49 U
Methyl acetate	ug/kg	270 U	580 U	1200	270 U	330 U
Methyl cyclohexane	ug/kg	40 U	87 U	36 U	140	49 U
Methyl tert butyl ether (MTBE)	ug/kg	40 U	87 U	36 U	41 U	49 U
Methylene chloride	ug/kg	40 U	87 U	36 U	41 U	49 U
Styrene	ug/kg	40 U	87 U	36 U	41 U	49 U
Tetrachloroethene	ug/kg	40 U	87 U	36 U	41 U	49 U

**VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

<i>Sample Location</i>		<i>SB295-13</i>	<i>SB295-13</i>	<i>SB295-13</i>	<i>SB297-13</i>	<i>SB297-13</i>
<i>Sample Identification</i>		<i>SO-017360-102313-MR-069</i>	<i>SO-017360-102313-MR-070</i>	<i>SO-017360-102313-MR-071</i>	<i>SO-017360-102313-MR-073</i>	<i>SO-017360-102313-MR-074</i>
<i>Sample Date</i>		<i>10/23/2013</i>	<i>10/23/2013</i>	<i>10/23/2013</i>	<i>10/23/2013</i>	<i>10/23/2013</i>
<i>Sample Depth</i>		<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>
<i>Sample Type</i>						
<i>Units</i>						
<i>Volatile Organic Compounds (VOCs)</i>						
Toluene	ug/kg	40 U	87 U	36 U	110	49 U
trans-1,2-Dichloroethene	ug/kg	40 U	87 U	36 U	41 U	49 U
trans-1,3-Dichloropropene	ug/kg	40 U	87 U	36 U	41 U	49 U
Trichloroethene	ug/kg	580	1300	700	2300	910
Trichlorofluoromethane (CFC-11)	ug/kg	40 U	87 U	36 U	41 U	49 U
Trifluorotrichloroethane (Freon 113)	ug/kg	40 U	87 U	36 U	41 U	49 U
Vinyl chloride	ug/kg	40 U	87 U	36 U	41 U	49 U
Xylenes (total)	ug/kg	120 U	260 U	110 U	150	150 U
<i>Semi-Volatile Organic Compounds (SVOCs)</i>						
2-Methylnaphthalene	ug/kg	32	350	110	130	120
Acenaphthene	ug/kg	7.1 U	73 U	170	7.3 U	100
Acenaphthylene	ug/kg	7.1 U	260	69	7.3 U	36
Anthracene	ug/kg	25	1000	440	27	650
Benzo(a)anthracene	ug/kg	110	2800	720	120	2400
Benzo(a)pyrene	ug/kg	100	2900	650	130	2600
Benzo(b)fluoranthene	ug/kg	110	3200	1200	240	2400
Benzo(g,h,i)perylene	ug/kg	110	2000	600	86	1500
Benzo(k)fluoranthene	ug/kg	100	2400	230	63	1900
Chrysene	ug/kg	120	3400	820	130	2500
Dibenz(a,h)anthracene	ug/kg	7.1 U	570	140	31	360
Fluoranthene	ug/kg	170	4900	1600	200	5400
Fluorene	ug/kg	7.1 U	840	220	7.3 U	140
Indeno(1,2,3-cd)pyrene	ug/kg	78	1400	390	79	1400
Naphthalene	ug/kg	7.1 U	73 U	62	75	53
Phenanthrene	ug/kg	82	3800	1300	180	2000
Pyrene	ug/kg	170	4100	1600	180	4200
<i>Metals</i>						
Antimony	ug/kg	690 J	460	700	370	240 J
Arsenic	ug/kg	4200	6200	860	4800	3300
Barium	ug/kg	37000	59000	170000	48000	37000
Beryllium	ug/kg	170 J	500	53 J	290	170 J
Cadmium	ug/kg	430 J	66 J	490	210	170 J
Chromium	ug/kg	55000	7500	10000	9900	13000
Cobalt	ug/kg	5400	3100	940	2800	2700
Copper	ug/kg	33000	11000	6300	17000	14000
Iron	ug/kg	11000000	2200000	3400000	7000000	5500000
Lead	ug/kg	46000 J	14000 J	52000 J	38000 J	24000 J

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location		SB295-13	SB295-13	SB295-13	SB297-13	SB297-13
Sample Identification		SO-017360-102313-MR-069	SO-017360-102313-MR-070	SO-017360-102313-MR-071	SO-017360-102313-MR-073	SO-017360-102313-MR-074
Sample Date		10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type						
	Units					
Metals						
Manganese	ug/kg	270000	30000	54000	110000	150000
Mercury	ug/kg	10 J	95	18 J	17 J	12 J
Molybdenum	ug/kg	39000	1200	12000	1800	1800
Nickel	ug/kg	41000	11000	8300	11000	12000
Selenium	ug/kg	330 J	180 J	68 J	380	310 J
Silver	ug/kg	260 J	33 J	2000	89 J	68 J
Thallium	ug/kg	1700 U	90 J	13 J	120 J	51 J
Vanadium	ug/kg	6600	5400	1800	9700	7800
Zinc	ug/kg	37000	10000	58000	22000	28000
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-
Total PCBs	ug/kg	-	-	-	-	-
General Chemistry						
Moisture content (dry weight)	%	6.1	9.8	5.9	8.4	7.6

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB297-13	SB297-13	SB297-13	SB299-13	SB299-13
Sample Identification	SO-017360-102313-MR-075	SO-017360-102313-MR-076	SO-017360-102313-MR-077	SO-017360-102313-MR-062	SO-017360-102313-MR-063
Sample Date	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type			Duplicate		
	Units				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	52 U	39 U	46 U	38 U
1,1,2,2-Tetrachloroethane	ug/kg	52 U	39 U	46 U	38 U
1,1,2-Trichloroethane	ug/kg	52 U	39 U	46 U	38 U
1,1-Dichloroethane	ug/kg	52 U	39 U	46 U	38 U
1,1-Dichloroethene	ug/kg	52 U	39 U	46 U	38 U
1,2,4-Trichlorobenzene	ug/kg	52 U	39 U	46 U	38 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	52 U	39 U	46 U	38 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	52 U	39 U	46 U	38 U
1,2-Dichlorobenzene	ug/kg	52 U	39 U	46 U	38 U
1,2-Dichloroethane	ug/kg	52 U	39 U	46 U	38 U
1,2-Dichloropropane	ug/kg	52 U	39 U	46 U	38 U
1,3-Dichlorobenzene	ug/kg	52 U	39 U	46 U	38 U
1,4-Dichlorobenzene	ug/kg	52 U	39 U	46 U	38 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	350 U	260 U	310 U	250 U
2-Hexanone	ug/kg	52 U	39 U	46 U	38 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	52 U	39 U	46 U	38 U
Acetone	ug/kg	170 U	130 U	150 U	130 U
Benzene	ug/kg	52 U	39 U	46 U	38 U
Bromodichloromethane	ug/kg	52 U	39 U	46 U	38 U
Bromoform	ug/kg	52 U	39 U	46 U	38 U
Bromomethane (Methyl bromide)	ug/kg	130 U	97 U	120 U	95 U
Carbon disulfide	ug/kg	52 U	39 U	46 U	38 U
Carbon tetrachloride	ug/kg	52 U	39 U	46 U	38 U
Chlorobenzene	ug/kg	52 U	39 U	46 U	38 U
Chloroethane	ug/kg	170 U	130 U	150 U	130 U
Chloroform (Trichloromethane)	ug/kg	52 U	39 U	46 U	38 U
Chloromethane (Methyl chloride)	ug/kg	170 U	130 U	150 U	130 U
cis-1,2-Dichloroethene	ug/kg	52 U	39 U	46 U	38 U
cis-1,3-Dichloropropene	ug/kg	52 U	39 U	46 U	38 U
Cyclohexane	ug/kg	52 U	39 U	46 U	38 U
Dibromochloromethane	ug/kg	52 U	39 U	46 U	38 U
Dichlorodifluoromethane (CFC-12)	ug/kg	52 U	39 U	46 U	38 U
Ethylbenzene	ug/kg	52 U	39 U	46 U	38 U
Isopropyl benzene	ug/kg	52 U	39 U	46 U	38 U
Methyl acetate	ug/kg	350 U	210 U	280 U	250 U
Methyl cyclohexane	ug/kg	52 U	39 U	46 U	38 U
Methyl tert butyl ether (MTBE)	ug/kg	52 U	39 U	46 U	38 U
Methylene chloride	ug/kg	52 U	39 U	46 U	38 U
Styrene	ug/kg	52 U	39 U	46 U	38 U
Tetrachloroethene	ug/kg	52 U	39 U	46 U	38 U

**VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

<i>Sample Location</i>		<i>SB297-13</i>	<i>SB297-13</i>	<i>SB297-13</i>	<i>SB299-13</i>	<i>SB299-13</i>
<i>Sample Identification</i>		<i>SO-017360-102313-MR-075</i>	<i>SO-017360-102313-MR-076</i>	<i>SO-017360-102313-MR-077</i>	<i>SO-017360-102313-MR-062</i>	<i>SO-017360-102313-MR-063</i>
<i>Sample Date</i>		<i>10/23/2013</i>	<i>10/23/2013</i>	<i>10/23/2013</i>	<i>10/23/2013</i>	<i>10/23/2013</i>
<i>Sample Depth</i>		<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>
<i>Sample Type</i>				<i>Duplicate</i>		
<i>Units</i>						
<i>Volatile Organic Compounds (VOCs)</i>						
Toluene	ug/kg	52 U	39 U	46 U	38 U	53 U
trans-1,2-Dichloroethene	ug/kg	52 U	39 U	46 U	38 U	53 U
trans-1,3-Dichloropropene	ug/kg	52 U	39 U	46 U	38 U	53 U
Trichloroethene	ug/kg	590	3000	3800	320	17000
Trichlorofluoromethane (CFC-11)	ug/kg	52 U	39 U	46 U	38 U	53 U
Trifluorotrichloroethane (Freon 113)	ug/kg	52 U	39 U	46 U	38 U	53 U
Vinyl chloride	ug/kg	52 U	39 U	46 U	38 U	53 U
Xylenes (total)	ug/kg	160 U	120 U	140 U	110 U	160 U
<i>Semi-Volatile Organic Compounds (SVOCs)</i>						
2-Methylnaphthalene	ug/kg	33	74	83	54	33
Acenaphthene	ug/kg	7.1 U	27	44	7.1 U	43
Acenaphthylene	ug/kg	7.1 U	34	22	110	7.5 U
Anthracene	ug/kg	36	120	140	140	63
Benzo(a)anthracene	ug/kg	150	560	490	400	600
Benzo(a)pyrene	ug/kg	130	500	480	620	330
Benzo(b)fluoranthene	ug/kg	140	1300	930	790	2600
Benzo(g,h,i)perylene	ug/kg	120	700	430	480	1200
Benzo(k)fluoranthene	ug/kg	120	380	230	490	1200
Chrysene	ug/kg	170	780	550	590	2300
Dibenz(a,h)anthracene	ug/kg	20	170	110	110	470
Fluoranthene	ug/kg	270	1500	1300	860	1400
Fluorene	ug/kg	7.1 U	25	46	29	7.5 U
Indeno(1,2,3-cd)pyrene	ug/kg	79	470	330	410	850
Naphthalene	ug/kg	7.1 U	76	66	54	84
Phenanthrene	ug/kg	170	1000	840	320	1200
Pyrene	ug/kg	250	840	900	830	950
<i>Metals</i>						
Antimony	ug/kg	130 J	28000	13000	1100	48000
Arsenic	ug/kg	1300	17000	8100	2500	22000
Barium	ug/kg	18000	300000	200000	32000	1300000
Beryllium	ug/kg	90 J	190 J	190 J	81 J	170 J
Cadmium	ug/kg	97 J	12000	5600	710	22000
Chromium	ug/kg	5200	2000000	2700000	58000	1200000
Cobalt	ug/kg	1700	100000	52000	5500	190000
Copper	ug/kg	9600	880000	620000	50000 J	5800000
Iron	ug/kg	3800000	140000000	54000000	8200000	140000000
Lead	ug/kg	10000 J	2300000 J	540000 J	81000	1800000 J

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB297-13	SB297-13	SB297-13	SB299-13	SB299-13
Sample Identification	SO-017360-102313-MR-075	SO-017360-102313-MR-076	SO-017360-102313-MR-077	SO-017360-102313-MR-062	SO-017360-102313-MR-063
Sample Date	10/23/2013	10/23/2013	10/23/2013	10/23/2013	10/23/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type			Duplicate		
	Units				
Metals					
Manganese	ug/kg	110000	6200000	210000 J	4100000
Mercury	ug/kg	9.6 J	83	28 J	37 J
Molybdenum	ug/kg	480	530000	27000	630000
Nickel	ug/kg	4100	1900000	63000	1500000
Selenium	ug/kg	190 J	570 J	200 J	420 J
Silver	ug/kg	52 J	10000	2100	11000
Thallium	ug/kg	45 J	49 J	40 J	85 J
Vanadium	ug/kg	5700	17000 J	5800 J	110000
Zinc	ug/kg	17000	1000000	89000	4000000
PCBs					
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-
Total PCBs	ug/kg	-	-	-	-
General Chemistry					
Moisture content (dry weight)	%	6.8	10	7.0	11

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

Sample Location	SB299-13	SB299-13	SB299-13	SB300-13	SB300-13
Sample Identification	SO-017360-102313-MR-064	SO-017360-102313-MR-065	SO-017360-102313-MR-066	SO-017360-102213-MR-058	SO-017360-102213-MR-059
Sample Date	10/23/2013	10/23/2013	10/23/2013	10/22/2013	10/22/2013
Sample Depth	(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type	Duplicate				
Units					
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	ug/kg	39 U	52 U	39 U	32 U
1,1,2,2-Tetrachloroethane	ug/kg	39 U	52 U	39 U	32 U
1,1,2-Trichloroethane	ug/kg	39 U	52 U	39 U	32 U
1,1-Dichloroethane	ug/kg	39 U	52 U	39 U	32 U
1,1-Dichloroethene	ug/kg	39 U	52 U	39 U	32 U
1,2,4-Trichlorobenzene	ug/kg	39 U	52 U	39 U	32 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	39 U	52 U	39 U	32 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	39 U	52 U	39 U	32 U
1,2-Dichlorobenzene	ug/kg	39 U	52 U	39 U	32 U
1,2-Dichloroethane	ug/kg	39 U	52 U	39 U	32 U
1,2-Dichloropropane	ug/kg	39 U	52 U	39 U	32 U
1,3-Dichlorobenzene	ug/kg	39 U	52 U	39 U	32 U
1,4-Dichlorobenzene	ug/kg	39 U	52 U	39 U	32 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	260 U	350 U	260 U	220 U
2-Hexanone	ug/kg	39 U	52 U	39 U	32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg	39 U	52 U	39 U	32 U
Acetone	ug/kg	130 U	170 U	130 U	110 U
Benzene	ug/kg	39 U	52 U	39 U	32 U
Bromodichloromethane	ug/kg	39 U	52 U	39 U	32 U
Bromoform	ug/kg	39 U	52 U	39 U	32 U
Bromomethane (Methyl bromide)	ug/kg	99 U	130 U	98 U	81 U
Carbon disulfide	ug/kg	39 U	52 U	39 U	32 U
Carbon tetrachloride	ug/kg	39 U	52 U	39 U	32 U
Chlorobenzene	ug/kg	39 U	52 U	39 U	32 U
Chloroethane	ug/kg	130 U	170 U	130 U	110 U
Chloroform (Trichloromethane)	ug/kg	39 U	52 U	39 U	32 U
Chloromethane (Methyl chloride)	ug/kg	130 U	170 U	130 U	110 U
cis-1,2-Dichloroethene	ug/kg	120	52 U	39 U	32 U
cis-1,3-Dichloropropene	ug/kg	39 U	52 U	39 U	32 U
Cyclohexane	ug/kg	39 U	52 U	39 U	32 U
Dibromochloromethane	ug/kg	39 U	52 U	39 U	32 U
Dichlorodifluoromethane (CFC-12)	ug/kg	39 U	52 U	39 U	32 U
Ethylbenzene	ug/kg	39 U	52 U	39 U	32 U
Isopropyl benzene	ug/kg	39 U	52 U	39 U	32 U
Methyl acetate	ug/kg	260 U	350 U	260 U	220 U
Methyl cyclohexane	ug/kg	39 U	52 U	39 U	32 U
Methyl tert butyl ether (MTBE)	ug/kg	39 U	52 U	39 U	32 U
Methylene chloride	ug/kg	39 U	52 U	39 U	32 U
Styrene	ug/kg	39 U	52 U	39 U	32 U
Tetrachloroethene	ug/kg	39 U	52 U	39 U	32 U

**VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013**

<i>Sample Location</i>		<i>SB299-13</i>	<i>SB299-13</i>	<i>SB299-13</i>	<i>SB300-13</i>	<i>SB300-13</i>
<i>Sample Identification</i>		<i>SO-017360-102313-MR-064</i>	<i>SO-017360-102313-MR-065</i>	<i>SO-017360-102313-MR-066</i>	<i>SO-017360-102213-MR-058</i>	<i>SO-017360-102213-MR-059</i>
<i>Sample Date</i>		<i>10/23/2013</i>	<i>10/23/2013</i>	<i>10/23/2013</i>	<i>10/22/2013</i>	<i>10/22/2013</i>
<i>Sample Depth</i>		<i>(4-6) ft BGS</i>	<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>	<i>(2-4) ft BGS</i>	<i>(4-6) ft BGS</i>
<i>Sample Type</i>		<i>Duplicate</i>				
	<i>Units</i>					
<i>Volatile Organic Compounds (VOCs)</i>						
Toluene	ug/kg	39 U	52 U	39 U	32 U	36 U
trans-1,2-Dichloroethene	ug/kg	64	52 U	39 U	32 U	36 U
trans-1,3-Dichloropropene	ug/kg	39 U	52 U	39 U	32 U	36 U
Trichloroethene	ug/kg	15000	11000	1100 J	320	36 U
Trichlorofluoromethane (CFC-11)	ug/kg	39 U	52 U	39 U	32 U	36 U
Trifluorotrichloroethane (Freon 113)	ug/kg	39 U	52 U	39 U	32 U	36 U
Vinyl chloride	ug/kg	39 U	52 U	39 U	32 U	36 U
Xylenes (total)	ug/kg	120 U	160 U	120 U	97 U	110 U
<i>Semi-Volatile Organic Compounds (SVOCs)</i>						
2-Methylnaphthalene	ug/kg	33	7.3 U	7.1 UJ	56	140 U
Acenaphthene	ug/kg	36	55	7.1 UJ	7.2 U	140 U
Acenaphthylene	ug/kg	7.4 U	7.3 U	7.1 UJ	120	140 U
Anthracene	ug/kg	50	40	7.1 UJ	710	660
Benzo(a)anthracene	ug/kg	430	470	61 J	2200	1500
Benzo(a)pyrene	ug/kg	290	470	73 J	2700	1100
Benzo(b)fluoranthene	ug/kg	1700	1700	110 J	2700	1200
Benzo(g,h,i)perylene	ug/kg	880	1100	47 J	1600	1100
Benzo(k)fluoranthene	ug/kg	930	1100	29 J	2500	1100
Chrysene	ug/kg	1600	1400	54 J	2400	1200
Dibenz(a,h)anthracene	ug/kg	340	410	22 J	340	140 U
Fluoranthene	ug/kg	1100	950	100 J	5000	2800
Fluorene	ug/kg	7.4 U	7.3 U	7.1 UJ	260	140 U
Indeno(1,2,3-cd)pyrene	ug/kg	650	890	50 J	1400	600
Naphthalene	ug/kg	66	130	7.1 UJ	36	140 U
Phenanthrene	ug/kg	860	870	40 J	2700	1700
Pyrene	ug/kg	660	620	94 J	4200	1900
<i>Metals</i>						
Antimony	ug/kg	51000	81000	460 J	270 J	360 J
Arsenic	ug/kg	21000	25000	1500 J	2000 J	3000
Barium	ug/kg	1200000	1800000	58000	23000	27000
Beryllium	ug/kg	150 J	190 J	150 J	120 J	180 J
Cadmium	ug/kg	24000	28000	220 J	160 J	180 J
Chromium	ug/kg	1300000	1600000	29000	12000	9200
Cobalt	ug/kg	250000	180000	3800	2400	2500
Copper	ug/kg	5000000	8800000	31000	15000 J	8600 J
Iron	ug/kg	130000000	160000000	6800000	5200000	5700000
Lead	ug/kg	4400000 J	6600000 J	30000 J	14000	14000

TABLE 2A

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location		SB299-13	SB299-13	SB299-13	SB300-13	SB300-13
Sample Identification		SO-017360-102313-MR-064	SO-017360-102313-MR-065	SO-017360-102313-MR-066	SO-017360-102213-MR-058	SO-017360-102213-MR-059
Sample Date		10/23/2013	10/23/2013	10/23/2013	10/22/2013	10/22/2013
Sample Depth		(4-6) ft BGS	(6-8) ft BGS	(8-10) ft BGS	(2-4) ft BGS	(4-6) ft BGS
Sample Type		Duplicate				
	Units					
Metals						
Manganese	ug/kg	4000000	6800000	160000	140000 J	110000 J
Mercury	ug/kg	40	26 J	18 J	26 J	34 J
Molybdenum	ug/kg	610000	670000	8600	2900	2000
Nickel	ug/kg	2000000	1800000	26000	9900	7600
Selenium	ug/kg	540 J	700 J	2000 U	2100 U	1900 U
Silver	ug/kg	11000	13000	120 J	180 J	180 J
Thallium	ug/kg	77 J	70 J	58 J	58 J	56 J
Vanadium	ug/kg	83000	91000	8600	7500 J	8400 J
Zinc	ug/kg	4700000	6200000	72000	25000	77000
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-
Total PCBs	ug/kg	-	-	-	-	-
General Chemistry						
Moisture content (dry weight)	%	11	12	7.3	7.3	5.0

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB300-13	SB300-13
Sample Identification	SO-017360-102213-MR-060	SO-017360-102213-MR-061
Sample Date	10/22/2013	10/22/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS
Sample Type		
	Units	
Volatile Organic Compounds (VOCs)		
1,1,1-Trichloroethane	ug/kg 82 U	35 U
1,1,2,2-Tetrachloroethane	ug/kg 82 U	35 U
1,1,2-Trichloroethane	ug/kg 82 U	35 U
1,1-Dichloroethane	ug/kg 82 U	35 U
1,1-Dichloroethene	ug/kg 82 U	35 U
1,2,4-Trichlorobenzene	ug/kg 82 U	35 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg 82 U	35 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg 82 U	35 U
1,2-Dichlorobenzene	ug/kg 82 U	35 U
1,2-Dichloroethane	ug/kg 82 U	35 U
1,2-Dichloropropane	ug/kg 82 U	35 U
1,3-Dichlorobenzene	ug/kg 82 U	35 U
1,4-Dichlorobenzene	ug/kg 82 U	35 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg 540 U	230 U
2-Hexanone	ug/kg 82 U	35 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIB)	ug/kg 82 U	35 U
Acetone	ug/kg 270 U	120 U
Benzene	ug/kg 82 U	35 U
Bromodichloromethane	ug/kg 82 U	35 U
Bromoform	ug/kg 82 U	35 U
Bromomethane (Methyl bromide)	ug/kg 200 U	86 U
Carbon disulfide	ug/kg 82 U	35 U
Carbon tetrachloride	ug/kg 82 U	35 U
Chlorobenzene	ug/kg 82 U	35 U
Chloroethane	ug/kg 270 U	120 U
Chloroform (Trichloromethane)	ug/kg 82 U	35 U
Chloromethane (Methyl chloride)	ug/kg 270 U	120 U
cis-1,2-Dichloroethene	ug/kg 82 U	35 U
cis-1,3-Dichloropropene	ug/kg 82 U	35 U
Cyclohexane	ug/kg 82 U	35 U
Dibromochloromethane	ug/kg 82 U	35 U
Dichlorodifluoromethane (CFC-12)	ug/kg 82 U	35 U
Ethylbenzene	ug/kg 82 U	35 U
Isopropyl benzene	ug/kg 82 U	35 U
Methyl acetate	ug/kg 540 U	230 U
Methyl cyclohexane	ug/kg 82 U	35 U
Methyl tert butyl ether (MTBE)	ug/kg 82 U	35 U
Methylene chloride	ug/kg 82 U	35 U
Styrene	ug/kg 82 U	35 U
Tetrachloroethene	ug/kg 82 U	35 U

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location	SB300-13	SB300-13
Sample Identification	SO-017360-102213-MR-060	SO-017360-102213-MR-061
Sample Date	10/22/2013	10/22/2013
Sample Depth	(6-8) ft BGS	(8-10) ft BGS
Sample Type		
	Units	
Volatile Organic Compounds (VOCs)		
Toluene	ug/kg 82 U	35 U
trans-1,2-Dichloroethene	ug/kg 82 U	35 U
trans-1,3-Dichloropropene	ug/kg 82 U	35 U
Trichloroethene	ug/kg 3600	35 U
Trichlorofluoromethane (CFC-11)	ug/kg 82 U	35 U
Trifluorotrichloroethane (Freon 113)	ug/kg 82 U	35 U
Vinyl chloride	ug/kg 82 U	35 U
Xylenes (total)	ug/kg 250 U	100 U
Semi-Volatile Organic Compounds (SVOCs)		
2-Methylnaphthalene	ug/kg 49	7.0 U
Acenaphthene	ug/kg 7.0 U	7.0 U
Acenaphthylene	ug/kg 7.0 U	7.0 U
Anthracene	ug/kg 7.0 U	20
Benzo(a)anthracene	ug/kg 7.0 U	73
Benzo(a)pyrene	ug/kg 7.0 U	58
Benzo(b)fluoranthene	ug/kg 7.0 U	54
Benzo(g,h,i)perylene	ug/kg 7.0 U	56
Benzo(k)fluoranthene	ug/kg 7.0 U	55
Chrysene	ug/kg 7.0 U	65
Dibenz(a,h)anthracene	ug/kg 7.0 U	7.0 U
Fluoranthene	ug/kg 7.0 U	120
Fluorene	ug/kg 7.0 U	7.0 U
Indeno(1,2,3-cd)pyrene	ug/kg 7.0 U	31
Naphthalene	ug/kg 33	7.0 U
Phenanthrene	ug/kg 45	82
Pyrene	ug/kg 7.0 U	110
Metals		
Antimony	ug/kg 160 J	52 J
Arsenic	ug/kg 10000	2300
Barium	ug/kg 76000	17000
Beryllium	ug/kg 370 J	130 J
Cadmium	ug/kg 48 J	54 J
Chromium	ug/kg 3700	7000
Cobalt	ug/kg 4000	2500
Copper	ug/kg 13000 J	7400 J
Iron	ug/kg 10000000	6900000
Lead	ug/kg 950	9100

VALIDATED ANALYTICAL RESULTS SUMMARY - SOIL
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

<i>Sample Location</i>		<i>SB300-13</i>	<i>SB300-13</i>
<i>Sample Identification</i>		<i>SO-017360-102213-MR-060</i>	<i>SO-017360-102213-MR-061</i>
<i>Sample Date</i>		<i>10/22/2013</i>	<i>10/22/2013</i>
<i>Sample Depth</i>		<i>(6-8) ft BGS</i>	<i>(8-10) ft BGS</i>
<i>Sample Type</i>			
	<i>Units</i>		
Metals			
Manganese	ug/kg	16000 J	160000 J
Mercury	ug/kg	20 J	32 J
Molybdenum	ug/kg	1300	320 J
Nickel	ug/kg	8300	6700
Selenium	ug/kg	670	350 J
Silver	ug/kg	12 J	9.5 J
Thallium	ug/kg	77 J	46 J
Vanadium	ug/kg	6200 J	11000 J
Zinc	ug/kg	3800	16000
PCBs			
Aroclor-1016 (PCB-1016)	ug/kg	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-
Total PCBs	ug/kg	-	-
General Chemistry			
Moisture content (dry weight)	%	7.1	6.5

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

TABLE 2B

VALIDATED ANALYTICAL RESULTS SUMMARY -GROUNDWATER
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Sample Location		TW300-13	TW300-13
Sample Identification		GW-017360-102313-MR-078	GW-017360-102313-MR-079
Sample Date		10/23/2013	10/23/2013
Sample Type			Duplicate
	Units		
Volatile Organic Compounds (VOCs)			
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) (MIE)	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
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	0.92 U	0.96 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

TABLE 2B

VALIDATED ANALYTICAL RESULTS SUMMARY -GROUNDWATER
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

<i>Sample Location</i>		<i>TW300-13</i>	<i>TW300-13</i>
<i>Sample Identification</i>		<i>GW-017360-102313-MR-078</i>	<i>GW-017360-102313-MR-079</i>
<i>Sample Date</i>		<i>10/23/2013</i>	<i>10/23/2013</i>
<i>Sample Type</i>			<i>Duplicate</i>
	<i>Units</i>		
<i>Volatile Organic Compounds (VOCs)</i>			
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	3.5	3.4
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

Final

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

TABLE 3

ANALYTICAL METHODS AND HOLDING TIME CRITERIA
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

<i>Parameter</i>	<i>Method</i>	<i>Matrix</i>	<i>Holding Time</i>	
			<i>Collection to Extraction (days)</i>	<i>Collection or Extraction to Analysis (days)</i>
TCL VOCs	SW-846 8260B	Water	-	14
	SW-846 8260B	Soil	-	14
TCL PAHs	SW-846 8270C	Soil	14	40
TCL PCBs	SW-846 8082	Soil	14	40
TAL Metals	SW-846 6020	Soil	-	180
Mercury	SW-846 7471A	Soil	-	28
TCLP Metals	SW-846 1311/6000/7000 series	Soil	180	180 (28 days-Mercury)
TCLP VOC	SW-846 1311/8260B	Soil	14	14
TCLP SVOC	SW-846 1311/8270C	Soil	14 (TCLP)/7 (prep)	40

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions.

PCBs - Polychlorinated biphenyls

PAH - Polynuclear aromatic hydrocarbons

SVOC - Semi-volatile organic compounds

TAL - Target analyte list

TCL - Target compound list

TCLP - Toxicity Characteristic Leaching Procedure

VOC - Volatile organic compounds

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date (mm/dd/yyyy)</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Original Result</i>	<i>Qualified Result</i>	<i>Units</i>
TAL Metals	Antimony	10/29/2013	0.002808	SO-017360-102113-MR-021	0.061 J	1.8 U	mg/kg
TAL Metals	Cadmium	10/29/2013	0.00174	SO-017360-102113-MR-021	0.042 J	0.73 U	mg/kg
TAL Metals	Mercury	10/30/2013	0.0015	SO-017360-102213-MR-036	0.0071 J	0.043 U	mg/kg
TAL Metals	Silver	10/29/2013	0.002222	SO-017360-102113-MR-021	0.017 J	1.8 U	mg/kg
				SO-017360-102113-MR-025	0.0066 J	0.39 U	mg/kg
				SO-017360-102113-MR-026	0.0071 J	0.39 U	mg/kg
				SO-017360-102113-MR-027	0.0064 J	0.41 U	mg/kg

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

TAL - Target analyte list

TABLE 5

QUALIFIED SAMPLE DATA DUE TO OUTLYING OF SURROGATE RECOVERIES
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

<i>Parameter</i>	<i>Sample ID</i>	<i>Surrogate</i>	<i>Surrogate Recovery (percent)</i>	<i>Control Limits (percent)</i>	<i>Analyte</i>	<i>Qualified Result</i>		<i>Units</i>
PCBs	SO-017360-102213-MR-049	Decachlorobiphenyl	36.0	40-140	Aroclor-1016 (PCB-1016)	290	UJ	µg/kg
					Aroclor-1221 (PCB-1221)	290	UJ	µg/kg
					Aroclor-1232 (PCB-1232)	290	UJ	µg/kg
					Aroclor-1242 (PCB-1242)	290	UJ	µg/kg
					Aroclor-1248 (PCB-1248)	290	UJ	µg/kg
					Aroclor-1254 (PCB-1254)	290	UJ	µg/kg
					Aroclor-1260 (PCB-1260)	290	UJ	µg/kg
PCBs	SO-017360-102213-MR-052	Decachlorobiphenyl	33.0	40-140	Aroclor-1016 (PCB-1016)	91	UJ	µg/kg
					Aroclor-1221 (PCB-1221)	91	UJ	µg/kg
					Aroclor-1232 (PCB-1232)	91	UJ	µg/kg
					Aroclor-1242 (PCB-1242)	91	UJ	µg/kg
					Aroclor-1248 (PCB-1248)	91	UJ	µg/kg
					Aroclor-1254 (PCB-1254)	91	UJ	µg/kg
					Aroclor-1260 (PCB-1260)	91	UJ	µg/kg

Notes:

UJ - Not detected; associated reporting limit is estimated.

PCBs - Polychlorinated biphenyls

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING LABORATORY CONTROL SAMPLE RESULTS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

<i>Parameter</i>	<i>Analyte</i>	<i>LCS Date (mm/dd/yyyy)</i>	<i>LCS (percent)</i>	<i>Control Limits (percent)</i>	<i>Associated Sample ID</i>	<i>Qualified Results</i>	<i>Units</i>
TCL VOCs	Chloromethane (Methyl chloride)	8/27/2013	69	70-125	GW-017360-102313-MR-078	5 UJ	ug/kg

Notes:

UJ - Not detected; associated reporting limit is estimated.

LCS - Laboratory control sample

TCL - Target compound list

VOC - Volatile organic compounds

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits		Qualified Sample ID	Qualified Result	Units
						% Recovery	RPD			
TCL VOCs	SB-017360-102113-MR-015	Dibromochloromethane	59.2	59.2	0	65-135	30	SB-017360-102113-MR-015	39 UJ	ug/kg
TCL VOCs	SO-017360-102313-MR-066	Trichloroethene	57.2	58.5	0.821	75-125	30	SO-017360-102313-MR-066	1100 J	ug/kg
TCL PAHs	SO-017360-102313-MR-066	2-Methylnaphthalene	28.3	75.6	89.5	45-105	30	SO-017360-102313-MR-066	7.1 UJ	ug/kg
		Acenaphthene	24.8	73.9	98	45-110	30	SO-017360-102313-MR-066	7.1 UJ	ug/kg
		Acenaphthylene	24.3	77.8	103	45-105	30	SO-017360-102313-MR-066	7.1 UJ	ug/kg
		Anthracene	27.4	84.2	100	55-105	30	SO-017360-102313-MR-066	7.1 UJ	ug/kg
		Benzo(a)anthracene	25.8	91.2	103	50-110	30	SO-017360-102313-MR-066	61 J	ug/kg
		Benzo(a)pyrene	27.9	95.2	99.4	50-110	30	SO-017360-102313-MR-066	73 J	ug/kg
		Benzo(b)fluoranthene	32.3	101	91	45-115	30	SO-017360-102313-MR-066	110 J	ug/kg
		Benzo(g,h,i)perylene	23.4	88.1	108	40-125	30	SO-017360-102313-MR-066	47 J	ug/kg
		Benzo(k)fluoranthene	27.3	91	103	45-115	30	SO-017360-102313-MR-066	29 J	ug/kg
		Chrysene	22.2	80.5	104	55-110	30	SO-017360-102313-MR-066	54 J	ug/kg
		Dibenz(a,h)anthracene	24	84.4	107	40-125	30	SO-017360-102313-MR-066	22 J	ug/kg
		Fluoranthene	26.3	91.5	97.2	55-115	30	SO-017360-102313-MR-066	100 J	ug/kg
		Fluorene	23.5	76.3	105	50-110	30	SO-017360-102313-MR-066	7.1 UJ	ug/kg
		Indeno(1,2,3-cd)pyrene	25.3	85	100	40-120	30	SO-017360-102313-MR-066	50 J	ug/kg
		Naphthalene	26.8	71.9	89.8	40-105	30	SO-017360-102313-MR-066	7.1 UJ	ug/kg
		Phenanthrene	27.9	89	98.2	50-110	30	SO-017360-102313-MR-066	40 J	ug/kg
		Pyrene	27.3	97.9	100	45-125	30	SO-017360-102313-MR-066	94 J	ug/kg
TAL Metals	SO-017360-102213-MR-032	Barium	132	135	0.745	75-125	25	SO-017360-102113-MR-018	160 J	mg/kg
								SO-017360-102113-MR-019	13 J	mg/kg
								SO-017360-102113-MR-020	5.6 J	mg/kg
								SO-017360-102113-MR-021	5.5 J	mg/kg
								SO-017360-102113-MR-023	31 J	mg/kg
								SO-017360-102113-MR-024	11 J	mg/kg
								SO-017360-102113-MR-025	3.9 J	mg/kg
								SO-017360-102113-MR-026	5.1 J	mg/kg
								SO-017360-102113-MR-027	5.8 J	mg/kg
								SO-017360-102213-MR-030	9.6 J	mg/kg
								SO-017360-102213-MR-031	7.4 J	mg/kg
								SO-017360-102213-MR-032	6.5 J	mg/kg
								SO-017360-102213-MR-033	11 J	mg/kg
								SO-017360-102213-MR-036	1.6 J	mg/kg
TAL Metals	SO-017360-102213-MR-032	Manganese	153	174	4.05	75-125	25	SO-017360-102113-MR-018	310 J	mg/kg
								SO-017360-102113-MR-019	35 J	mg/kg
								SO-017360-102113-MR-020	28 J	mg/kg
								SO-017360-102113-MR-021	55 J	mg/kg
								SO-017360-102113-MR-023	620 J	mg/kg
								SO-017360-102113-MR-024	37 J	mg/kg
								SO-017360-102113-MR-025	29 J	mg/kg
								SO-017360-102113-MR-026	74 J	mg/kg

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits		Qualified Sample ID	Qualified Result	Units
						% Recovery	RPD			
TAL Metals	SO-017360-102213-MR-032	Manganese	153	174	4.05	75-125	25	SO-017360-102113-MR-027	86 J	mg/kg
								SO-017360-102213-MR-030	79 J	mg/kg
								SO-017360-102213-MR-031	95 J	mg/kg
								SO-017360-102213-MR-032	24 J	mg/kg
								SO-017360-102213-MR-033	37 J	mg/kg
								SO-017360-102213-MR-036	110 J	mg/kg
TAL Metals	SO-017360-102213-MR-039	Copper	66.2	117	27.9	75-125	25	SO-017360-102213-MR-037	3.4 J	mg/kg
								SO-017360-102213-MR-038	3.4 J	mg/kg
								SO-017360-102213-MR-039	6.5 J	mg/kg
								SO-017360-102213-MR-040	31 J	mg/kg
								SO-017360-102213-MR-041	16 J	mg/kg
								SO-017360-102213-MR-042	4.7 J	mg/kg
								SO-017360-102213-MR-043	8.7 J	mg/kg
								SO-017360-102213-MR-044	8.7 J	mg/kg
								SO-017360-102213-MR-047	38 J	mg/kg
								SO-017360-102213-MR-048	51 J	mg/kg
								SO-017360-102213-MR-049	17 J	mg/kg
								SO-017360-102213-MR-051	6.0 J	mg/kg
								SO-017360-102213-MR-052	2.7 J	mg/kg
								SO-017360-102213-MR-053	5.1 J	mg/kg
								SO-017360-102213-MR-058	15 J	mg/kg
								SO-017360-102213-MR-059	8.6 J	mg/kg
								SO-017360-102213-MR-060	13 J	mg/kg
								SO-017360-102213-MR-061	7.4 J	mg/kg
								SO-017360-102313-MR-062	50 J	mg/kg
TAL Metals	SO-017360-102213-MR-039	Beryllium	59.2	57.4	3.85	75-125	25	SO-017360-102213-MR-037	0.14 J	mg/kg
								SO-017360-102213-MR-038	0.10 J	mg/kg
								SO-017360-102213-MR-039	0.16 J	mg/kg
								SO-017360-102213-MR-040	0.29 J	mg/kg
								SO-017360-102213-MR-041	0.21 J	mg/kg
								SO-017360-102213-MR-042	0.076 J	mg/kg
								SO-017360-102213-MR-043	0.12 J	mg/kg
								SO-017360-102213-MR-044	0.17 J	mg/kg
								SO-017360-102213-MR-047	0.45 J	mg/kg
								SO-017360-102213-MR-048	0.45 J	mg/kg
								SO-017360-102213-MR-049	0.30 J	mg/kg
								SO-017360-102213-MR-051	0.0073 J	mg/kg
								SO-017360-102213-MR-052	0.0086 J	mg/kg
								SO-017360-102213-MR-053	0.076 J	mg/kg
								SO-017360-102213-MR-058	0.12 J	mg/kg
								SO-017360-102213-MR-059	0.18 J	mg/kg
								SO-017360-102213-MR-060	0.37 J	mg/kg

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits		Qualified Sample ID	Qualified Result	Units
						% Recovery	RPD			
TAL Metals	SO-017360-102213-MR-039	Beryllium	59.2	57.4	3.85	75-125	25	SO-017360-102213-MR-061	0.13 J	mg/kg
								SO-017360-102313-MR-062	0.081 J	mg/kg
TAL Metals	SO-017360-102213-MR-039	Manganese	210	148	11.2	75-125	25	SO-017360-102213-MR-037	20 J	mg/kg
								SO-017360-102213-MR-038	23 J	mg/kg
								SO-017360-102213-MR-039	26 J	mg/kg
								SO-017360-102213-MR-040	41 J	mg/kg
								SO-017360-102213-MR-041	140 J	mg/kg
								SO-017360-102213-MR-042	94 J	mg/kg
								SO-017360-102213-MR-043	130 J	mg/kg
								SO-017360-102213-MR-044	140 J	mg/kg
								SO-017360-102213-MR-047	30 J	mg/kg
								SO-017360-102213-MR-048	130 J	mg/kg
								SO-017360-102213-MR-049	25 J	mg/kg
								SO-017360-102213-MR-051	49 J	mg/kg
								SO-017360-102213-MR-052	29 J	mg/kg
								SO-017360-102213-MR-053	25 J	mg/kg
								SO-017360-102213-MR-058	140 J	mg/kg
								SO-017360-102213-MR-059	110 J	mg/kg
								SO-017360-102213-MR-060	16 J	mg/kg
								SO-017360-102213-MR-061	160 J	mg/kg
								SO-017360-102313-MR-062	210 J	mg/kg
TAL Metals	SO-017360-102213-MR-045	Vanadium	160	142	8.02	75-125	25	SO-017360-102213-MR-037	7.3 J	mg/kg
								SO-017360-102213-MR-038	6.7 J	mg/kg
								SO-017360-102213-MR-039	10 J	mg/kg
								SO-017360-102213-MR-040	5.1 J	mg/kg
								SO-017360-102213-MR-041	8.9 J	mg/kg
								SO-017360-102213-MR-042	6.1 J	mg/kg
								SO-017360-102213-MR-043	13 J	mg/kg
								SO-017360-102213-MR-044	11 J	mg/kg
								SO-017360-102213-MR-045	4.6 J	mg/kg
								SO-017360-102213-MR-047	12 J	mg/kg
								SO-017360-102213-MR-048	12 J	mg/kg
								SO-017360-102213-MR-049	41 J	mg/kg
								SO-017360-102213-MR-051	0.31 J	mg/kg
								SO-017360-102213-MR-052	0.097 J	mg/kg
								SO-017360-102213-MR-053	8.7 J	mg/kg
								SO-017360-102213-MR-058	7.5 J	mg/kg
								SO-017360-102213-MR-059	8.4 J	mg/kg
								SO-017360-102213-MR-060	6.2 J	mg/kg
								SO-017360-102213-MR-061	11 J	mg/kg
								SO-017360-102313-MR-062	5.8 J	mg/kg

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS
 ADDITIONAL SITE-WIDE INVESTIGATION
 RACER GRAND RAPIDS STAMPING
 GRAND RAPIDS, MICHIGAN
 OCTOBER 2013

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits		Qualified Sample ID	Qualified Result	Units
						% Recovery	RPD			
TAL Metals	SO-017360-102313-MR-066	Lead	-49	-50.9	0.254	75-125	25	SO-017360-102313-MR-063	1800 J	mg/kg
								SO-017360-102313-MR-064	4400 J	mg/kg
								SO-017360-102313-MR-065	6600 J	mg/kg
								SO-017360-102313-MR-066	30 J	mg/kg
								SO-017360-102313-MR-068	52 J	mg/kg
								SO-017360-102313-MR-069	46 J	mg/kg
								SO-017360-102313-MR-070	14 J	mg/kg
								SO-017360-102313-MR-071	52 J	mg/kg
								SO-017360-102313-MR-073	38 J	mg/kg
								SO-017360-102313-MR-074	24 J	mg/kg
								SO-017360-102313-MR-075	10 J	mg/kg
								SO-017360-102313-MR-076	2300 J	mg/kg
								SO-017360-102313-MR-077	540 J	mg/kg

Notes:

- J - Estimated concentration
- UJ - Not detected; associated reporting limit is estimated
- MS - Matrix spike
- MSD - Matrix spike duplicate
- PAH - Polynuclear aromatic hydrocarbons
- RPD - Relative percent difference
- TAL - Target analyte list
- TCL - Target compound list
- VOC - Volatile organic compounds

TABLE 8

QUALIFIED SAMPLE DATA DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
ADDITIONAL SITE-WIDE INVESTIGATION
RACER GRAND RAPIDS STAMPING
GRAND RAPIDS, MICHIGAN
OCTOBER 2013

<i>Parameter</i>	<i>Analyte</i>	<i>RPD/Diff</i>	<i>Sample ID</i>	<i>Qualified Result</i>	<i>Field Duplicate Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TAL Metals	Lead	124% RPD	SO-017360-102313-MR-076	2300 J	SO-017360-102313-MR-077	540 J	mg/kg
TAL Metals	Antimony	110% RPD	SO-017360-102213-MR-030	3.4 J	SO-017360-102213-MR-031	0.99 J	mg/kg
PAHs	Benzo(a)anthracene	33.9 Diff	SO-017360-102213-MR-030	41 J	SO-017360-102213-MR-031	7.1 U	ug/kg
	Benzo(a)pyrene	19.9 Diff	SO-017360-102213-MR-030	27 J	SO-017360-102213-MR-031	7.1 U	ug/kg
	Benzo(b)fluoranthene	24.9 Diff	SO-017360-102213-MR-030	32 J	SO-017360-102213-MR-031	7.1 U	ug/kg
	Benzo(g,h,i)perylene	31.9 Diff	SO-017360-102213-MR-030	39 J	SO-017360-102213-MR-031	7.1 U	ug/kg
	Benzo(k)fluoranthene	15.9 Diff	SO-017360-102213-MR-030	23 J	SO-017360-102213-MR-031	7.1 U	ug/kg
	Chrysene	22.9 Diff	SO-017360-102213-MR-030	30 J	SO-017360-102213-MR-031	7.1 U	ug/kg
	Fluoranthene	24.9 Diff	SO-017360-102213-MR-030	32 J	SO-017360-102213-MR-031	7.1 U	ug/kg
	Phenanthrene	21.9 Diff	SO-017360-102213-MR-030	29 J	SO-017360-102213-MR-031	7.1 U	ug/kg
	Pyrene	21.9 Diff	SO-017360-102213-MR-030	29 J	SO-017360-102213-MR-031	7.1 U	ug/kg

Notes:

J - Estimated concentration

U - Not detected at the associated reporting limit

Diff - Difference (i.e. >1X RL for waters or >2XRL for soils.)

RPD - Relative percent difference

PAH - Polynuclear aromatic hydrocarbons

TAL - Target analyte list

TCL - Target compound list