



2018 Site Monitoring Report

Former City of Rhinelander Landfill

BRRTS #: 02 44 200967

Rhinelander, Wisconsin

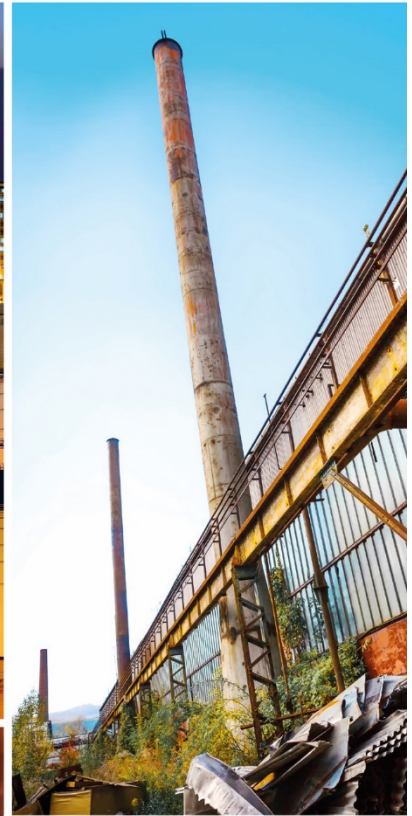
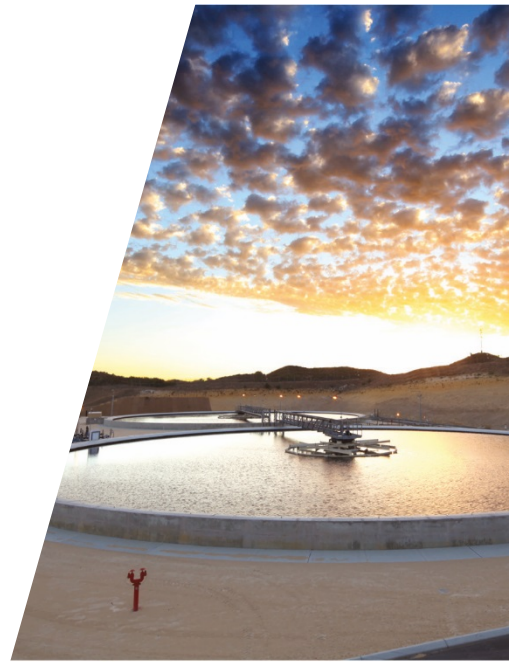




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1. Introduction

This report presents the results of the groundwater and surface water sampling program, along with the operation and maintenance activities, associated with former City of Rhinelander Landfill (Site). GHD Services Inc. (GHD) completed this report on behalf of the Rhinelander Landfill Group (RLG). The RLG retained GHD in June 2016 to perform the Site maintenance and monitoring activities.

1.1 Location

The former City of Rhinelander Landfill is located in the NE $\frac{1}{4}$ of Section 8 in Township 36 North, Range 9 East, Oneida County, Wisconsin. It is located at the confluence of Slaughterhouse Creek and the Pelican River along Old Highway 8. The landfill is shown on Figure 1.

1.2 Background

The City of Rhinelander Landfill was opened in 1939 and ceased accepting waste in 1979. The landfill was closed and capped in 1980. The landfill was owned and operated by the City of Rhinelander throughout the entire 40-year operational period. The landfill is still currently owned by the City of Rhinelander.

1.3 2018 Activities

The following activities associated with the Site were conducted in 2018:

- February 22: Tree copping work at the landfill completed
- April 24: Semi-Annual groundwater sampling of 8 monitoring wells
- April 24: Semi-Annual surface water sampling at two locations in Slaughterhouse Creek
- June 11: GHD submits semi-annual groundwater monitoring report to the Wisconsin Department of Natural Resources (WDNR)
- June 11: GHD submits semi-annual GEMS data to the WDNR
- July 19: MW21B and MW21C were abandoned
- August: City of Rhinelander mows the landfill cover
- October 22-23: Annual groundwater sampling/monitoring of 23 monitoring wells
- October 23: Semi-Annual surface water sampling at three locations in Slaughterhouse Creek
- November 19: GHD submits semi-annual GEMS data to the WDNR



2. Landfill Inspections

A landfill inspection was completed during each of the two sampling events.

2.1 Grass Cover

The grass cover on the landfill is in good condition. Mowing was completed by the City of Rhinelander in August 2018.

2.2 Trespassing and Site Security

The fence surrounding the landfill is currently in good condition. There are no known trespassing issues for this reporting period.

2.3 Beavers – Area 2 Restoration

A small percentage of the Area 2 restoration willow trees have been harvested by beavers. This is especially noted along the water's edge on the north side of the restoration area. Harvested trees are noted to be re-sprouting and no additional effort is planned at this time.

3. Phytoremediation/Poplar Tree Cover

The RLG voluntarily planted hybrid poplar trees and willow trees on the north end of the landfill in 1999 and 2000. The trees cover an area of approximately 7-acres. These trees were planted to provide the benefits of phytoremediation to the groundwater and leachate on the north end of the landfill. The hybrid poplar trees are periodically evaluated for overall health and survival. Several fallen trees were observed and end-of-life mortality was noted in a small percentage of the trees.

The RLG sub-contracted a WDNR-Certified Forestry Plan Writer to coordinate and oversee a logging contractor who harvested the trees by standard coppice methods. The coppice work included harvesting nearly all above-ground biomass, leaving only the stump and roots behind. During subsequent landfill inspections, it was noted that new growth was reemerging from the existing stumps and roots. The new growth is expected to continue the phytoremediation process.

4. Surface Water Sampling

4.1 Sampling Dates and Methods

Two rounds of surface water sampling were conducted in Slaughterhouse Creek in 2018: one in April and one in October. Samples were collected from the following locations and are presented on Figure 2:

- Upstream of the Rhinelander Landfill near the old Slaughterhouse (SW-10)
- Downstream of the landfill at the Newell Street Bridge (SW-20).
- At the toe of the Area 2 Restoration project (SW-28).



Sample point SW-28 was frozen over during the spring sampling event in 2018. A sample was unable to be collected. Sampling is accomplished by filling a 1-liter jar by dipping it into the creek. Creek water was used to rinse the jar several times before collecting the sample. Care was taken not to disturb sediments while rinsing or sampling the water.

4.2 Sample Results

Surface water results from this period are shown in Table 1. Most or all the results from this period are similar or within the normal range of variation when compared to prior sampling dates. Surface water laboratory reports, along with the Data Validation Memos, for this period are in Appendix A.

Chloride, ammonia, copper, lead, and zinc have established surface water quality standards as enumerated in Chapter NR 105, Wisc. Admin Code (NR 105). None of the 2018 results showed an exceedance of any applicable standard as expressed in NR 105. The discussion in this section compares the results to their codified NR 105 standards. In order to do this, certain field parameters (pH and temperature for ammonia/ammonium and hardness for metals) need to be considered in making the comparison to the standards. Comparisons of values using straight concentration comparisons are not valid for NR 105 exceedance evaluation for certain substances.

Chloride concentrations varied little among the five samples analyzed in 2018, ranging from 36.6 mg/L to 66.0 mg/L. The acute chloride toxicity surface water quality criteria, as listed in Table 1 of NR 105, is 757 mg/L. The chronic chloride standard for warm water sportfish is 395 mg/L, as listed in Table 5 of NR 105. Table 2 shows the chloride data relative to the applicable NR 105 standards.

Zinc, copper, and lead were not detected in any of the five surface water samples collected in 2018. No metals results exceeded their respective standards relative to their applicable standard (analysis for zinc, copper, and lead) listed in Table 2 and Table 6 of NR 105. Table 3 shows the lead, zinc, and copper data relative to Table 2 and Table 6 of the NR 105 applicable standards.

Ammonia is regulated under Table 2C (acute toxicity), Table 4B (30-day chronic), and Table 4B (4-day chronic toxicity) of NR 105. The applicable standard is based on the temperature and pH of the sample water, and thus results from point to point or round to round are not directly comparable based on total concentrations. No 2018 sample from any location had concentrations above the acute or chronic standards. Table 4 shows the ammonia data relative to the applicable NR 105 standards.

5. Groundwater Monitoring

5.1 Summary of Groundwater Monitoring Program

Figure 3 presents the network of monitoring wells identified for groundwater monitoring. The groundwater monitoring well network consists of a total of 36 wells, of which 23 are part of the monitoring program. These wells are screened in the upper, middle, and lower portions of the shallow regional aquifer.

Table 5 summarizes the sampling locations in the monitoring plan, and illustrates any changes to the monitoring plan that have occurred during the monitoring period.



During this reporting period, groundwater monitoring was conducted in April and October. The April 2018 sample round consists of collecting samples from nine monitoring wells. The October 2018 round consists on collecting samples from 20 monitoring wells. One well, MW-28A, was unable to be sampled in the April round due to spring flooding.

Monitoring well locations were sampled for analysis of volatile organic compounds (VOCs)+tetrahydrofuran, select dissolved metals, hardness, chloride, and, alkalinity. Select wells were sampled for Ammonia/Kjeldahl nitrogen. Field parameters included in the sampling are pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity.

5.2 Hydraulic Monitoring Program

During this reporting period, GHD collected a synoptic round of water level measurements from each monitoring well during the annual October sampling round. October 2018 groundwater contours for the upper "A" and middle "B" wells are presented on Figures 4 and 5. Groundwater elevations for the deep "C" wells are presented on Figure 6. Not enough data points were present to contour the "C" elevations. Table 6 presents the groundwater elevations for the two 2018 monitoring events.

Groundwater flow directions for the "A" and "B" wells exhibit a radial flow direction from the landfill to the surface water features located to northwest (Slaughterhouse Creek) and southwest (Pelican River). Groundwater flows from the landfill towards Slaughterhouse Creek to the north and towards the Pelican River to the southwest. The low vertical gradients indicate that groundwater flow is predominantly horizontal with minimal vertical movement.

5.3 Groundwater Sampling Program

Groundwater sampling was conducted in accordance with the April 29, 2016 letter from the WDNR to the RLG. Sampling methods are in accordance with the WDNR Groundwater Sampling Field Manual. Table 6 summarizes the monitoring well sampling events.

Samples were collected immediately after purging. Samples were placed in iced coolers and hand delivered to Pace Analytical Laboratories in Green Bay, Wisconsin.

Appendix B contains a copy of the laboratory reports associated with the 2018 groundwater sampling events. A copy of the data quality assessments and validation memos are also provided in Appendix B.

Table 7 provides a summary of detected compounds in monitoring wells sampled during the April and October 2018 sampling events.

5.4 Groundwater Sampling Results

The analytical results from the 2018 sampling events, along with the previous two years, are presented on Table 7. The groundwater sampling results from 2018 are consistent with historical results. Groundwater laboratory reports, along with the Data Validation Memos, for this period are in Appendix B.



5.4.1 VOCs

Four VOCs exceeded their respective Wisconsin Enforcement Standard (WES) in monitoring well samples collected during this reporting period: benzene, tetrahydrofuran, trichloroethene (TCE), and vinyl chloride.

Benzene results exceeded the WES at one location (MW-2A). Tetrahydrofuran results exceeded the WES at three locations (MW-2A, MW-3A, and MW-21A). TCE results exceeded the WES at one location (MW-18C). Vinyl chloride results exceeded the WES at eight locations (MW-16A, MW-16C, MW-18A, MW-20B, MW-20C, MW-25B, MW-26C, and MW-28A).

The VOC exceedances, along with the concentrations for the October 2018 monitoring event, are presented on Figure 7. Graphs of vinyl chloride concentrations over time at select well nests are provided in Appendix C.

5.4.2 Metals

Three metals exceeded their respective WES in monitoring well samples collected during this reporting period: boron, iron, and manganese.

Boron results exceeded the WES at two locations: MW-2A and MW-21A.

Iron results exceeded the WES at 14 locations: MW-2A, MW-2B, MW-3A, MW-16A, MW-16B, MW-16C, MW-18A, MW-20A, MW-20B, MW-20C, MW-21A, MW-26B, MW-26C, and MW-28A.

Manganese results exceeded the WES at 19 locations: MW-2A, MW-2B, MW-3A, MW-5A, MW-16A, MW-16B, MW-16C, MW-18A, MW-18B, MW-18C, MW-20A, MW-20B, MW-20C, MW-21A, MW-25B, MW-26B, MW-26C, MW-27B, and MW-28A.

5.4.3 Other Analytes

Two other analytes exceeded the WES in the monitoring well samples collected during this reporting period: ammonia and chloride. Ammonia results exceeded the WES at two locations (MW-2A and MW-3A). Chloride results exceeded the WES at one location (MW-5A).

6. Conclusions and Recommendations

Based on the 2018 surface water and groundwater sampling activities, the following conclusions are made:

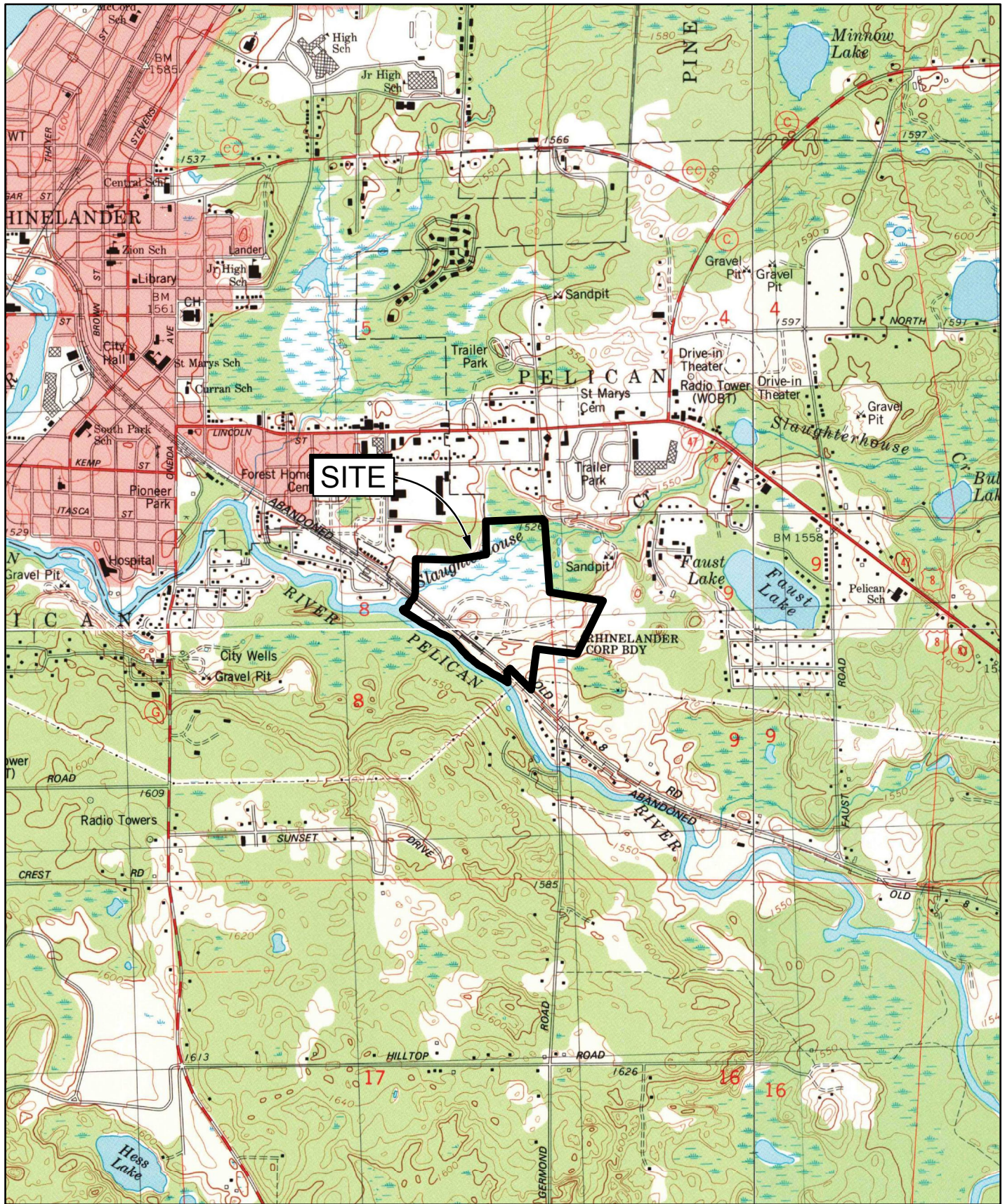
- None of the results from 2018 surface water sampling events indicated an exceedance of any applicable standard.
- Groundwater exhibits a radial flow direction from the landfill towards Slaughterhouse Creek to the north and towards the Pelican River to the southwest.
- Four VOCs exceeded their respective WES in monitoring well samples collected during this reporting period: benzene, tetrahydrofuran, TCE, and vinyl chloride.
- Three metals exceeded their respective WES in monitoring well samples collected during this reporting period: boron, iron, and manganese.



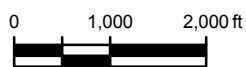
- Two other analytes exceeded the WES in the monitoring well samples collected during this reporting period: ammonia and chloride.
- The groundwater sampling results from 2018 are consistent with historical results.
- The Former Rhinelander Landfill is not impacting Slaughterhouse Creek.
- The elevated levels of iron and manganese are attributed to naturally occurring conditions.
- VOCs are sporadically present at low concentrations (typically near 1 µg/L) and do not show a plume coming from the former landfill before it encounters surface water.
- Other typical landfill parameters (ammonia and chloride) are present but are not impacting the adjacent surface water.

Based on the conclusions stated above, GHD recommends the following:

- Continue the semi-annual monitoring of the surface water and groundwater as outlined in Table 5.



Source: USGS 7.5 Minute Topos - Rhinelander; Moen Lake; Lake Julia; George Lake



FORMER CITY OF RHINELANDER LANDFILL
 RHINELANDER, WISCONSIN
 2018 SITE MONITORING REPORT

11115796-50
 Jan 22, 2019

SITE LOCATION

FIGURE 1

**2018 Surface Water Sample Results
Former City of Rhinelander Landfill - Slaughterhouse Creek
Rhinelander, Wisconsin**

Sample Location: Sample Date:	Unit	Upstream		Downstream		Near Seep	
		SW-10 04/24/18	SW-10 10/23/18	SW-20 04/24/18	SW-20 10/23/18	SW-28 04/24/18	SW-28 10/23/18
Parameters							
Metals							
Hardness	mg/L	54.1	55.5	44.0	88.3	NA	79.4
Copper	µg/L	< 6.3	< 6.3	< 6.3	< 6.3	NA	< 6.3
Iron	µg/L	10,300	4,080	2,160	4,570	NA	4,510
Lead	µg/L	< 4.3	< 5.9	< 4.3	< 5.9	NA	< 5.9
Sodium	µg/L	5,900	21,400	15,900	26,800	NA	20,400
Zinc	µg/L	< 9.3	< 11.6	< 9.3	< 11.6	NA	< 11.6
General Chemistry							
Fecal coliform bacteria	cfu/100mL	< 2.00	8.20	14.0	23.9	NA	11.5
Ammonia	mg/L	0.25 J	< 0.25	0.93	1.3	NA	3.3
Chemical oxygen demand (COD)	mg/L	< 13.4	54.0	< 14.2	54.6	NA	77.3
Chloride	mg/L	36.6	44.1	32.6	66.0	NA	51.7
Nitrite/Nitrate	mg/L	< 0.095	0.15 J	0.16 J	0.19 J	NA	0.18 J
Total kjeldahl nitrogen (TKN)	mg/L	0.61 J	0.44 J	0.95	1.7	NA	3.6
Turbidity	NTU	-	-	-	-	NA	-
Field Data							
Temperature	° C	10.0	5.41	5.5	5.01	NA	5.77
pH	SU	6.16	7.29	7.27	6.87	NA	6.89
Conductivity	µS	246	250	204	373	NA	367
Dissolved Oxygen	mg/L	8.45	8.84	8.61	3.48	NA	5.74
Oxidation Reduction Potential	mV	-83	-5	100	54	NA	51
Turbidity	NTU	53.0	12.1	10.4	12.0	NA	0.0

Notes:

NA - Backwater was completely frozen on April 24, 2018

**Chloride Results Relative to NR 105 Standards
Former City of Rhinelander Landfill - Slaughterhouse Creek
Rhinelander, Wisconsin**

Sample Location	Sample Date	Parameter	Units	Result	WWSF Table 1 Standard	WWSF Table 5 Standard
SW-10	4/24/2018	Chloride	mg/L	36.6	757	395
SW-10	10/23/2018	Chloride	mg/L	44.1	757	395
SW-20	4/24/2018	Chloride	mg/L	32.6	757	395
SW-20	10/23/2018	Chloride	mg/L	66.0	757	395
SW-28	4/24/2018	Chloride	mg/L	NA	757	395
SW-28	10/23/2018	Chloride	mg/L	51.7	757	395

Notes:

- mg/L - Milligram per liter
- NA - Backwater was completely frozen on April 24, 2018
- WWSF - Warm water sportfish

Table 3

**Metals Results Relative to NR 105 Standards
Former City of Rhinelander Landfill - Slaughterhouse Creek
Rhinelander, Wisconsin**

Sample Location	Sample Date	Parameter	Units	Result	WWSF Table 2 Calculated Standard	WWSF Table 6 Calculated Standard
SW-10	4/24/2018	Copper	µg/L	< 6.3	8.69	6.12
SW-10	4/24/2018	Lead	µg/L	< 4.3	59.06	15.47
SW-10	4/24/2018	Zinc	µg/L	< 9.3	70.34	70.34
SW-10	10/23/2018	Copper	µg/L	< 6.3	8.90	6.25
SW-10	10/23/2018	Lead	µg/L	< 5.9	60.54	15.86
SW-10	10/23/2018	Zinc	µg/L	< 11.6	71.93	71.93
SW-20	4/24/2018	Copper	µg/L	< 6.3	7.15	5.13
SW-20	4/24/2018	Lead	µg/L	< 4.3	48.37	12.67
SW-20	4/24/2018	Zinc	µg/L	< 9.3	58.71	58.71
SW-20	10/23/2018	Copper	µg/L	< 6.3	13.80	9.31
SW-20	10/23/2018	Lead	µg/L	< 5.9	94.81	24.83
SW-20	10/23/2018	Zinc	µg/L	< 11.6	107.97	107.97
SW-28	4/24/2018	Copper	µg/L	NA	NA	NA
SW-28	4/24/2018	Lead	µg/L	NA	NA	NA
SW-28	4/24/2018	Zinc	µg/L	NA	NA	NA
SW-28	10/23/2018	Copper	µg/L	< 6.3	12.48	8.50
SW-28	10/23/2018	Lead	µg/L	< 5.9	85.56	22.41
SW-28	10/23/2018	Zinc	µg/L	< 11.6	98.39	98.39

Notes:

- µg/L - Milligram per liter
- WWSF - Warm water sportfish
- NA - Backwater was completely frozen on April 24, 2018

**Ammonia Results Relative to NR 105 Standards
Former City of Rhinelander Landfill - Slaughterhouse Creek
Rhinelander, Wisconsin**

Sample Location	Sample Date	Parameter	Units	Result	Temperature (°C)	pH	WWSF Table 2C	WWSF Table 4B	WWSF Table 4B
							Acute Calculated	30-Day Calculated	Ammonia 4-Day Calculated
							Standard	Standard	Standard
SW-10	4/24/2018	Ammonia	mg/L	0.25 J	10.0	6.16	53.59	9.22	23.04
SW-10	10/23/2018	Ammonia	mg/L	< 0.25	5.41	7.29	26.54	9.19	22.98
SW-20	4/24/2018	Ammonia	mg/L	0.93	5.5	7.27	27.21	9.25	23.14
SW-20	10/23/2018	Ammonia	mg/L	1.3	5.01	6.87	40.04	11.40	28.49
SW-28	4/24/2018	Ammonia	mg/L	NA	NA	NA	NA	NA	NA
SW-28	10/23/2018	Ammonia	mg/L	3.3	5.77	6.89	39.45	10.79	26.97

Notes:

- mg/L - Milligram per liter
- WWSF - Warm water sportfish
- NA - Backwater was completely frozen on April 24, 2018

Table 5

**Current Monitoring Plan
Rhineland Landfill
Rhineland, Wisconsin**

Sample Matrix	Field Parameters	Laboratory Parameters	Investigative Samples	QA Samples ⁽¹⁾				Total Per Round	Current Sampling Frequency
				Field Blanks	Field Duplicates	MS ⁽²⁾	MSD ⁽²⁾		
Groundwater									
Semi-Annual Wells ⁽³⁾	pH, Temperature, Conductivity, DO, Turbidity, ORP	VOCs+tetrahydrofuran, Alkalinity, Chloride, Hardness, Dissolved Metals ^{(6) (7)} , Ammonia-N ⁽⁸⁾ , Kjeldahl-N ⁽⁸⁾	9	1	1	1	1	13	Semi-Annually
Annual Wells ^{(4) (5)}	pH, Temperature, Conductivity, DO, Turbidity, ORP	VOCs+tetrahydrofuran, Alkalinity, Chloride, Hardness, Dissolved Metals ^{(6) (7)} , Ammonia-N ⁽⁸⁾ , Kjeldahl-N ⁽⁸⁾	11	1	1	-	-	13	Annually
Surface Water									
Surface Water ⁽⁹⁾	pH, Temperature, Conductivity, DO, Turbidity, ORP	Fecal Coliform, Ammonia, Kjeldahl-N, NO3+NO2, COD, Chloride, Turbidity, Cu, Fe, Pb, Na, Zn, Hardness	3	-	-	-	-	3	Semi-Annually

Notes:

- Semi-Annual sampling will occur in April and October.
- Annual sampling will occur in October (along with a complete round of water level measurements).

- 1 One trip blank, which consists of a filled 40-mL preserved glass vial, shall be shipped with each cooler of VOC water samples.
- 2 For MS/MSD samples within a water matrix, triple the normal sample volumes will be collected.
- 3 Semi-Annual Wells currently include: 2A, 2B, 16A, 16B, 16C, 20A, 20B, 20C, 28A
- 4 Annual Wells currently include: 3A, 4A, 5A, 18A, 18B, 18C, 21A, 25B, 26B, 26C, 27B
- 5 Field Parameters are recorded for the following annual wells but are not sampled - 19B, 19C, 28A
- 6 Dissolved Metals will be field filtered and include Iron, Manganese, and Boron
- 7 Only the following wells are sampled for dissolved Boron - 2A, 4A, 5A, 18C, 20A, 21A, 25B, 28A
- 8 Only the following wells are sampled for Ammonia-N and Kjeldahl-N - 2A, 3A, 21A
- 9 Upstream (Sample Point 10), Area 2 Restoration (Sample Point 28), Downstream at Newell St. Bridge (Sample Point 20)

Table 6

**2018 Groundwater Elevation Summary
Rhineland Landfill
Rhineland, Wisconsin**

Monitoring Well	Top of Casing Elevation	Groundwater Elevation	
		April 2018	November 2018
MW2A	1527.01	-	1524.69
MW2B	1528.04	-	1525.52
MW3A	1527.02	-	1524.76
MW4A	1551.28	-	1536.30
MW4B	1549.99	-	1536.39
MW5A	1549.13	-	1535.38
MW16A	1533.07	-	1525.33
MW16B	1532.85	1525.14	1525.30
MW16C	1533.09	1525.11	1525.34
MW18A	1529.83	-	1525.24
MW18B	1529.83	-	1525.38
MW18C	1529.76	-	1525.34
MW19A	1531.91	-	1524.56
MW19B	1532.16	-	1525.61
MW19C	1532.04	-	1525.71
MW20A	1529.35	1525.70	1525.17
MW20B	1530.56	1526.05	1525.84
MW20C	1530.34	-	1525.72
MW21A	1528.42	-	1525.19
MW25A	1544.85	-	1532.05
MW25B	1545.18	-	1529.59
MW26A	1529.95	-	1526.30
MW26B	1529.21	-	1525.01

Table 6

**2018 Groundwater Elevation Summary
Rhinelanders Landfill
Rhinelanders, Wisconsin**

Monitoring Well	Top of Casing Elevation	Groundwater Elevation	
		April 2018	November 2018
MW26C	1530.06	-	1525.38
MW27A	1537.44	-	-
MW27B	1536.52	-	-
MW27C	1536.79	-	-
MW28A	1529.04	-	1524.54
MW28B	1528.33	-	1526.63

Notes:

All elevations in feet above mean sea level (AMSL)

Table 7

Summary of Detected Compounds
Former City of Rhinelander Landfill
Rhinelander, Wisconsin

Location	Date	WES PAL QA/QC	Boron (dissolved)	Hardness, calculation	Iron (dissolved)	Manganese (dissolved)	Alkalinity, total (as CaCO3)	Ammonia	Chloride	Total kjeldahl nitrogen (TKN)	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichlorobenzene	1,2-Dichloropropane	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Chloromethane (Methyl chloride)	cis-1,2-Dichloroethene	Cymene (p-Isopropyltoluene)
			ug/L	mg/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
			1000	--	300	50	--	9.7	250	--	850	480		600	5	75	5	100	30	70	--
			200	--	150	25	--	0.97	--	--	85	96		60	0.5	15	0.5	--	3	7	--
MW-2A	6/30/2016		1900	1080	64200	676	2300	287	67.5	284	< 1.23	4.2 J	3.2 J	< 5.0	< 5.0	< 5.0	34.6	< 5.0	< 5.0	< 5.0	< 5.0
MW-2A	6/30/2016	D	1880	1090	64300	676	2310	289	67.8	279	< 1.22	3.9 J	3.1 J	< 5.0	< 5.0	< 5.0	36.6	< 5.0	< 5.0	< 5.0	< 5.0
MW-2A	10/4/2016		2120	1100	60600	716	2150	271	72.4	276	< 1.21	2.9	2.1	< 1.0	< 1.0	1.8	29.2	1.7	< 1.0	< 1.0	< 1.0
MW-2A	10/4/2016	D	2050	1060	57300	641	2140	277	73.3	282	< 1.20	2.9	2.2	< 1.0	< 1.0	1.8	27.4	1.8	< 1.0	< 1.0	< 1.0
MW-2A	4/25/2017		1600	1140	64900	647	2320	266	77.2	259	< 1.19	1.4	1.1	< 1.0	< 1.0	0.80 J	16.1	0.77 J	0.77 J	< 1.0	< 1.0
MW-2A	10/11/2017		1430	879	49800	1050	1720	214	58.0	198	< 1.18	1.9	2.0	< 1.0	< 1.0	1.1	18.9	0.77 J	< 1.0	< 1.0	< 1.0
MW-2A	4/24/2018		1670	1040	56400	722	2220	256	69.1	263	< 1.17	3.4	2.8	< 2.0	< 2.0	1.5 J	27.3	1.4 J	< 2.0	< 2.0	< 2.0
MW-2A	10/22/2018		2090	1040	57800	625	2340	265	71.4	259	< 1.16	3.0	2.0 J	< 2.4	< 1.0	1.6 J	28.5	1.6 J	< 7.3	< 1.0	< 2.7
MW-2B	6/30/2016		--	179	21200	1200	226	--	28.7	--	< 1.15	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.77 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-2B	10/4/2016		--	157	20000	1210	220	--	21.4	--	< 1.14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-2B	4/25/2017		--	187	22500	1200	227	--	31.3	--	< 1.13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-2B	10/11/2017		145	169	21100	1350	211	--	23.7	--	< 1.12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.74 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-2B	4/24/2018		--	142	12400	1160	168	--	17.0	--	< 1.11	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-2B	10/22/2018		--	139	15500	1250	193	--	17.5	--	< 1.10	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.40 J	< 2.4	< 7.3	< 1.0	< 2.7
MW-3A	10/4/2016		42.7 J	396	53300	4690	807	102	30.8	93.4	< 1.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 1.0
MW-3A	10/11/2017		44.3	365	48300	4750	704	86.4	28.5	75.6	< 1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 1.0	7.0	< 1.0	< 1.0
MW-3A	10/22/2018		--	309	47800	3800	722	67.2	27.5	64.4	< 1.7	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	2.4	< 2.4	< 7.3	< 1.0	< 2.7
MW-4A	10/3/2016		14.5 J	110	< 100	< 5.0	123	--	1.2 J	--	< 1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-4A	10/10/2017		--	146	< 100	< 5.0	82.9	--	54.1	--	< 1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-4A	10/23/2018		14.2 J	116	< 118	< 5.0	101	--	25.3	--	< 1.4	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7
MW-4A	10/23/2018	D	13.7 J	116	< 118	< 5.0	105	--	25.4	--	< 1.3	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7
MW-5A	10/3/2016		13.3 J	138	< 100	89.7	54.0	--	134	--	< 1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-5A	10/10/2017		--	312	< 100	609	51.0	--	281	--	< 1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-5A	10/23/2018		15.6 J	828	< 118	2910	39.5	--	797	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7
MW-16A	6/29/2016		--	209	1320	4440	225	--	24.5	--	0.30 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.76 J	< 1.0	< 1.0	< 1.0	< 1.0

Table 7

Summary of Detected Compounds
Former City of Rhinelander Landfill
Rhinelander, Wisconsin

Location	Date	WES PAL QA/QC	Boron (dissolved)	Hardness, calculation	Iron (dissolved)	Manganese (dissolved)	Alkalinity, total (as CaCO3)	Ammonia	Chloride	Total kjeldahl nitrogen (TKN)	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichlorobenzene	1,2-Dichloropropane	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Chloromethane (Methyl chloride)	cis-1,2-Dichloroethene	Cymene (p-Isopropyltoluene)
			ug/L	mg/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
			1000	--	300	50	--	9.7	250	--	850	480		600	5	75	5	100	30	70	--
			200	--	150	25	--	0.97	--	--	85	96		60	0.5	15	0.5	--	3	7	--
MW-16A	10/3/2016		--	209	1550	4610	252	--	28.3	--	0.41 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	0.27 J	< 1.0
MW-16A	4/24/2017		--	202	1810	3970	222	--	24.6	--	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.82 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-16A	10/10/2017		--	237	2470	5220	258	--	31.0	--	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0
MW-16A	4/24/2018		--	168	2550	3260	165	--	20.1	--	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-16A	10/23/2018		--	126	1480	2470	139	--	14.8	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.43 J	< 2.4	< 7.3	< 1.0	< 2.7
MW-16B	6/29/2016		--	216	36200	3760	234	--	32.9	--	0.40 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0
MW-16B	10/3/2016		--	205	35500	3400	242	--	34.9	--	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	0.53 J	< 1.0	< 1.0	< 1.0
MW-16B	10/3/2016	D	--	207	35400	3510	238	--	34.8	--	0.30 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0
MW-16B	4/24/2017		--	236	39900	3690	257	--	38.6	--	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	0.52 J	< 1.0	< 1.0	< 1.0
MW-16B	10/10/2017		--	226	38800	4000	249	--	36.4	--	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0
MW-16B	4/24/2018		--	227	37300	3520	225	--	37.2	--	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-16B	10/23/2018		--	240	38700	4130	261	--	39.2	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.3	< 2.4	< 7.3	< 1.0	< 2.7
MW-16C	6/29/2016		--	221	24400	1940	245	--	34.6	--	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	0.51 J	< 1.0	< 1.0	< 1.0
MW-16C	10/3/2016		--	222	24800	1910	238	--	37.0	--	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	0.60 J	< 1.0	< 1.0	< 1.0
MW-16C	4/24/2017		--	232	26200	2050	257	--	39.7	--	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	0.59 J	< 1.0	< 1.0	< 1.0
MW-16C	10/10/2017		--	233	27100	2190	256	--	38.9	--	0.30 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	0.56 J	< 1.0	< 1.0	< 1.0
MW-16C	4/24/2018		--	232	26700	2110	237	--	41.5	--	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	0.64 J	< 1.0	< 1.0	< 1.0
MW-16C	10/23/2018		--	241	28000	2280	266	--	43.7	--	0.30 J	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.5	< 2.4	< 7.3	< 1.0	< 2.7
MW-18A	10/3/2016		--	209	2290	1100	165	--	68.3	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.4	< 1.0
MW-18A	10/9/2017		--	236	2880	1020	181	--	67.6	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2	< 1.0
MW-18A	10/23/2018		--	233	2050	1470	164	--	81.2	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	4.9	< 2.7
MW-18B	10/3/2016		--	303	< 100	1640	165	--	137	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0
MW-18B	10/9/2017		--	351	< 100	2030	201	--	157	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.57 J	< 1.0
MW-18B	10/23/2018		--	305	38.3 J	2110	306	--	51.5	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.54 J	< 2.4	< 7.3	< 1.0	< 2.7
MW-18C	10/3/2016		90.9 J	351	14.3 J	1140	214	--	161	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0

Table 7

Summary of Detected Compounds
Former City of Rhinelander Landfill
Rhinelander, Wisconsin

Location	Date	WES PAL QA/QC	Boron (dissolved)	Hardness, calculation	Iron (dissolved)	Manganese (dissolved)	Alkalinity, total (as CaCO3)	Ammonia	Chloride	Total kjeldahl nitrogen (TKN)	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichlorobenzene	1,2-Dichloropropane	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Chloromethane (Methyl chloride)	cis-1,2-Dichloroethene	Cymene (p-Isopropyltoluene)
			ug/L	mg/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
			1000	--	300	50	--	9.7	250	--	850	480		600	5	75	5	100	30	70	--
			200	--	150	25	--	0.97	--	--	85	96		60	0.5	15	0.5	--	3	7	--
MW-18C	10/9/2017		--	334	< 100	1240	171	--	162	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.61 J	< 1.0
MW-18C	10/9/2017	D	59.2	326	< 100	1220	171	--	162	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.71 J	< 1.0
MW-18C	10/23/2018		141	315	< 118	1490	276	--	83.8	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.42 J	< 2.4	< 7.3	0.40 J	< 2.7
MW-20A	6/29/2016		689	198	76500	788	385	--	14.3 J	--	< 1.0	22.9	5.2	1.2	< 1.0	2.3	1.7	6.9	< 1.0	< 1.0	0.59 J
MW-20A	10/3/2016		812	238	102000	1040	408	--	19.5 J	--	< 1.0	24.8	5.6	1.0	< 1.0	2.4	3.1	8.4	< 1.0	< 1.0	< 1.0
MW-20A	4/24/2017		428	167	71200	755	299	--	8.4 J	--	< 1.0	17.7	3.6	0.53 J	< 1.0	1.6	1.2	3.6	< 1.0	< 1.0	< 1.0
MW-20A	10/10/2017		782	249	114000	1130	466	--	13.1	--	< 1.0	18.8	4.1	0.79 J	< 1.0	1.5	2.1	6.8	< 1.0	< 1.0	< 1.0
MW-20A	4/24/2018		398	143	69400	654	253	--	8.9 J	--	< 1.0	19.7	4.6	0.63 J	< 1.0	1.6	1.0 J	5.2	< 1.0	< 1.0	0.59 J
MW-20A	10/23/2018		611	180	80700	712	277	--	7.8 J	--	< 1.0	23.5	4.8	0.86 J	< 1.0	1.9 J	1.9	6.2	< 7.3	< 1.0	< 2.7
MW-20B	6/29/2016		--	164	17600	1140	160	--	40.4	--	< 1.55	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.63 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-20B	10/3/2016		--	156	17300	1060	153	--	44.2	--	< 1.54	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.90 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-20B	4/24/2017		--	167	18200	1090	162	--	45.7	--	< 1.53	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.70 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-20B	10/10/2017		128	162	15700	1120	146	--	46.8	--	< 1.52	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.68 J	0.55 J	< 1.0	< 1.0	< 1.0
MW-20B	4/24/2018		--	162	17600	1080	145	--	46.3	--	< 1.51	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.64 J	0.57 J	< 1.0	< 1.0	< 1.0
MW-20B	10/23/2018		--	160	17700	1100	158	--	47.7	--	< 1.50	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.74 J	0.77 J	< 7.3	< 1.0	< 2.7
MW-20C	6/29/2016		--	179	20900	1380	182	--	40.0	--	< 1.49	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.81 J	0.56 J	< 1.0	< 1.0	< 1.0
MW-20C	10/3/2016		--	173	20800	1360	189	--	39.3	--	< 1.48	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	0.83 J	< 1.0	< 1.0	< 1.0
MW-20C	4/24/2017		--	180	21400	1350	188	--	45.9	--	< 1.47	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.80 J	0.59 J	< 1.0	< 1.0	< 1.0
MW-20C	4/24/2017	D	--	183	21600	1410	370	--	46.3	--	< 1.46	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.86 J	0.60 J	< 1.0	< 1.0	< 1.0
MW-20C	10/10/2017		--	180	21300	1430	179	--	44.9	--	< 1.45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.77 J	0.95 J	< 1.0	< 1.0	< 1.0
MW-20C	4/24/2018		--	183	21500	1400	183	--	46.9	--	< 1.44	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.90 J	0.74 J	< 1.0	< 1.0	< 1.0
MW-20C	10/23/2018		--	186	22000	1460	187	--	47.2	--	< 1.43	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.0	0.81 J	< 7.3	< 1.0	< 2.7
MW-21A	10/4/2016		1230	627	57900	1280	1810	265	60.4	264	< 1.42	4.4	1.7	< 1.0	< 1.0	1.8	4.6	5.5	< 1.0	< 1.0	< 1.0
MW-21A	10/11/2017		1220	732	39600	1220	1820	267	56.0	254	< 1.41	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	5.4 J	< 10.0	< 10.0	< 10.0
MW-21A	10/22/2018		1110	738	57300	1200	1830	232	46.8	230	< 1.40	5.0	2.2 J	< 2.4	< 1.0	1.9 J	4.7	7.1	< 7.3	< 1.0	< 2.7

Table 7

Summary of Detected Compounds
Former City of Rhinelander Landfill
Rhinelander, Wisconsin

Location	Date	WES PAL QA/QC	Boron (dissolved)	Hardness, calculation	Iron (dissolved)	Manganese (dissolved)	Alkalinity, total (as CaCO3)	Ammonia	Chloride	Total kjeldahl nitrogen (TKN)	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichlorobenzene	1,2-Dichloropropane	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Chloromethane (Methyl chloride)	cis-1,2-Dichloroethene	Cymene (p-Isopropyltoluene)
			ug/L	mg/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
			1000	--	300	50	--	9.7	250	--	850	480		600	5	75	5	100	30	70	--
			200	--	150	25	--	0.97	--	--	85	96		60	0.5	15	0.5	--	3	7	--
MW-25B	10/4/2016		24.1 J	260	21900	594	135	--	15.1	--	< 1.39	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-25B	10/10/2017		< 40.0	174	< 100	193	156	--	16.8	--	< 1.38	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-25B	10/23/2018		< 40.0	166	< 118	190	163	--	16.5	--	< 1.37	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7
MW-26B	10/3/2016		--	189	54.5 J	100	178	--	12.0	--	< 1.36	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-26B	10/9/2017		--	197	457	666	183	--	12.4	--	< 1.35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-26B	10/23/2018		--	21.4	10700	984	40.7	--	88.0	--	< 1.34	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7
MW-26C	10/3/2016		--	226	1040	2720	227	--	20.8	--	< 1.33	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	0.96 J	< 1.0	< 1.0	0.70 J	< 1.0
MW-26C	10/9/2017		--	241	1050	2830	227	--	22.8	--	< 1.32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.86 J	< 1.0	< 1.0	0.61 J	< 1.0
MW-26C	10/23/2018		--	235	930	2600	232	--	22.8	--	< 1.31	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.95 J	< 2.4	< 7.3	0.61 J	< 2.7
MW-27B	10/4/2016		--	86.5	54.6 J	155	77.3	--	4.5	--	< 1.30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-27B	10/10/2017		--	91.8	48.3 J	179	81.8	--	4.7	--	< 1.29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-27B	10/23/2018		--	89.6	41.2 J	175	79.7	--	5.0	--	< 1.28	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7
MW-28A	6/30/2016		283	312	5680	548	314	--	25.1	--	< 1.27	< 1.0	< 1.0	< 1.0	< 1.0	1.1	0.99 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-28A	10/4/2016		70.5 J	125	7420	2220	127	--	76.7	--	< 1.26	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MW-28A	10/10/2017		210	245	7200	1640	298	--	22.1	--	< 1.25	< 1.0	< 1.0	< 1.0	< 1.0	0.85 J	0.64 J	< 1.0	< 1.0	< 1.0	< 1.0
MW-28A	10/22/2018		242	298	4940	604	323	--	20.3	--	< 1.24	< 2.8	< 2.9	< 2.4	< 1.0	1.0 J	1.3	< 2.4	< 7.3	< 1.0	< 2.7

Table 7
Summary of Detected Compounds
Former City of Rhinelander Landfill
Rhinelander, Wisconsin

Location	Date	WES PAL QA/QC	Dichlorodifluoromethane (CFC-12)	Isopropyl benzene	m&p-Xylenes	o-Xylene	Methylene chloride	Naphthalene	N-Butylbenzene	N-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Vinyl chloride
			ug/L 1000 200	ug/L -- --	ug/L 2000 400	ug/L 5 0.5	ug/L 100 10	ug/L -- --	ug/L -- --	ug/L 5 0.5	ug/L 50 10	ug/L 800 160	ug/L 5 0.5	ug/L 0.2 0.02	
MW-2A	6/30/2016		< 5.0	< 5.0	8.5 J	< 5.0	< 5.0	< 25.0	< 5.0	< 5.0	< 5.0	210	< 5.0	< 5.0	< 5.0
MW-2A	6/30/2016	D	< 5.0	0.75 J	8.5 J	< 5.0	< 5.0	< 25.0	< 5.0	< 5.0	< 5.0	202	< 5.0	< 5.0	< 5.0
MW-2A	10/4/2016		< 1.0	0.55 J	6.1	0.72 J	< 1.0	4.4 J	< 1.0	0.67 J	< 1.0	239	0.53 J	< 1.0	< 1.0
MW-2A	10/4/2016	D	< 1.0	0.58 J	6.3	0.77 J	< 1.0	4.7 J	< 1.0	0.68 J	< 1.0	217	< 1.0	< 1.0	< 1.0
MW-2A	4/25/2017		< 1.0	0.29 J	3.2	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	184	< 1.0	< 1.0	< 1.0
MW-2A	10/11/2017		< 1.0	0.35 J	2.3	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	133	< 1.0	< 1.0	< 1.0
MW-2A	4/24/2018		< 2.0	0.55 J	5.7	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	185	< 2.0	< 2.0	< 2.0
MW-2A	10/22/2018		< 5.0	0.48 J	6.1	0.58 J	< 5.0	4.2 J	< 2.4	< 5.0	< 1.1	216	0.32 J	< 1.0	< 1.0
MW-2B	6/30/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	17.2	< 1.0	< 1.0	0.59 J
MW-2B	10/4/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	14.5	< 1.0	< 1.0	< 1.0
MW-2B	4/25/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	19.0	< 1.0	< 1.0	0.40 J
MW-2B	10/11/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	10.6	< 1.0	< 1.0	< 1.0
MW-2B	4/24/2018		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	7.3	< 1.0	< 1.0	< 1.0
MW-2B	10/22/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	8.9 J	< 5.0	< 1.0	< 1.0
MW-3A	10/4/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	177	< 1.0	< 1.0	0.22 J
MW-3A	10/11/2017		< 1.0	< 1.0	< 2.0	< 1.0	1.0	< 5.0	< 1.0	< 1.0	< 1.0	82.7	< 1.0	< 1.0	< 1.0
MW-3A	10/22/2018		< 5.0	< 5.0	1.6 J	< 1.0	< 5.0	1.2 J	< 2.4	< 5.0	< 1.1	90.1	0.19 J	< 1.0	< 1.0
MW-4A	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
MW-4A	10/10/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
MW-4A	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-4A	10/23/2018	D	< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-5A	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
MW-5A	10/10/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
MW-5A	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-16A	6/29/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1.2

Table 7
Summary of Detected Compounds
Former City of Rhinelander Landfill
Rhinelander, Wisconsin

Location	Date	WES PAL QA/QC	Dichlorodifluoromethane (CFC-12)	Isopropyl benzene	m&p-Xylenes	o-Xylene	Methylene chloride	Naphthalene	N-Butylbenzene	N-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Vinyl chloride
			ug/L 1000 200	ug/L -- --	ug/L 2000 400	ug/L -- --	ug/L 5 0.5	ug/L 100 10	ug/L -- --	ug/L -- --	ug/L 5 0.5	ug/L 50 10	ug/L 800 160	ug/L 5 0.5	ug/L 0.2 0.02
MW-16A	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	2.0
MW-16A	4/24/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	0.71 J
MW-16A	10/10/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1.1
MW-16A	4/24/2018		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	0.34 J
MW-16A	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	0.27 J
MW-16B	6/29/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	4.6 J	< 1.0	< 1.0	0.59 J
MW-16B	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	7.0	< 1.0	< 1.0	0.57 J
MW-16B	10/3/2016	D	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	6.9	< 1.0	< 1.0	0.56 J
MW-16B	4/24/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	11.5	< 1.0	< 1.0	< 1.0
MW-16B	10/10/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	7.6	< 1.0	< 1.0	0.24 J
MW-16B	4/24/2018		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	7.2	< 1.0	< 1.0	< 1.0
MW-16B	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	8.3 J	< 5.0	< 1.0	< 1.0
MW-16C	6/29/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	2.6 J	< 1.0	< 1.0	< 1.0	11.9	< 1.0	< 1.0	0.39 J
MW-16C	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	3.1 J	< 1.0	< 1.0	< 1.0	18.2	< 1.0	< 1.0	0.34 J
MW-16C	4/24/2017		< 1.0	< 1.0	1.1 J	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	15.9	< 1.0	< 1.0	0.24 J
MW-16C	10/10/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	12.9	< 1.0	< 1.0	0.22 J
MW-16C	4/24/2018		< 1.0	< 1.0	1.4 J	< 1.0	< 1.0	3.3 J	< 1.0	< 1.0	< 1.0	15.6	< 1.0	< 1.0	0.29 J
MW-16C	10/23/2018		< 5.0	< 5.0	1.6 J	< 1.0	< 5.0	4.5 J	< 2.4	< 5.0	< 1.1	16.6 J	< 5.0	< 1.0	0.35 J
MW-18A	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	0.94 J	0.27 J
MW-18A	10/9/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	1.7	0.36 J
MW-18A	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	3.9	0.22 J
MW-18B	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	0.86 J	< 5.0	< 1.0	22.1	< 1.0
MW-18B	10/9/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1.1	< 5.0	< 1.0	10.7	< 1.0
MW-18B	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	4.0 J	< 5.0	2.2	< 1.0
MW-18C	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	0.61 J	< 5.0	< 1.0	5.2	0.23 J

Table 7
Summary of Detected Compounds
Former City of Rhinelander Landfill
Rhinelander, Wisconsin

Location	Date	WES PAL QA/QC	Dichlorodifluoromethane (CFC-12)	Isopropyl benzene	m&p-Xylenes	o-Xylene	Methylene chloride	Naphthalene	N-Butylbenzene	N-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Vinyl chloride
			ug/L 1000 200	ug/L -- --	ug/L 2000 400	ug/L -- --	ug/L 5 0.5	ug/L 100 10	ug/L -- --	ug/L -- --	ug/L 5 0.5	ug/L 50 10	ug/L 800 160	ug/L 5 0.5	ug/L 0.2 0.02
MW-18C	10/9/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1.3	< 5.0	< 1.0	13.7	< 1.0
MW-18C	10/9/2017	D	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1.2	< 5.0	< 1.0	15.1	< 1.0
MW-18C	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	0.35 J	3.1 J	< 5.0	6.1	< 1.0
MW-20A	6/29/2016		< 1.0	4.7	82.5	3.3	< 1.0	19.5	1.4	3.5	< 1.0	10.7	< 1.0	< 1.0	< 1.0
MW-20A	10/3/2016		< 1.0	4.4	72.0	2.2	< 1.0	21.0	1.6	3.6	< 1.0	18.7	< 1.0	< 1.0	< 1.0
MW-20A	4/24/2017		< 1.0	2.7	40.8	1.3	< 1.0	11.0	< 1.0	2.1	< 1.0	6.8	< 1.0	< 1.0	< 1.0
MW-20A	10/10/2017		< 1.0	3.3	46.5	1.0	< 1.0	12.9	< 1.0	2.3	< 1.0	9.6	< 1.0	< 1.0	< 1.0
MW-20A	4/24/2018		< 1.0	3.5	50.6	1.1	< 1.0	12.5	1.4	2.4	< 1.0	7.5	< 1.0	< 1.0	< 1.0
MW-20A	10/23/2018		< 5.0	4.0 J	56.4	1.6	< 5.0	18.0	< 2.4	3.0 J	< 1.1	8.7 J	0.38 J	< 1.0	< 1.0
MW-20B	6/29/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	15.4	< 1.0	< 1.0	< 1.0	12.2	< 1.0	< 1.0	0.76 J
MW-20B	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	11.9	< 1.0	< 1.0	< 1.0	14.5	< 1.0	< 1.0	0.69 J
MW-20B	4/24/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	11.6	< 1.0	< 1.0	< 1.0	14.5	< 1.0	< 1.0	0.54 J
MW-20B	10/10/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	6.9	< 1.0	< 1.0	< 1.0	5.9	< 1.0	< 1.0	< 1.0
MW-20B	4/24/2018		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	10.6	< 1.0	< 1.0	< 1.0	15.2	< 1.0	< 1.0	0.48 J
MW-20B	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	12.3	< 2.4	< 5.0	< 1.1	11.0 J	< 5.0	< 1.0	0.43 J
MW-20C	6/29/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	8.3	< 1.0	< 1.0	< 1.0	8.1	< 1.0	< 1.0	1.1
MW-20C	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	6.2	< 1.0	< 1.0	< 1.0	12.2	< 1.0	< 1.0	1.2
MW-20C	4/24/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	6.7	< 1.0	< 1.0	< 1.0	7.1	< 1.0	< 1.0	0.84 J
MW-20C	4/24/2017	D	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	6.7	< 1.0	< 1.0	< 1.0	7.5	< 1.0	< 1.0	0.81 J
MW-20C	10/10/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	5.6	< 1.0	< 1.0	< 1.0	6.4	< 1.0	< 1.0	< 1.0
MW-20C	4/24/2018		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	8.9	< 1.0	< 1.0	< 1.0	14.1	< 1.0	< 1.0	0.78 J
MW-20C	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	7.7	< 2.4	< 5.0	< 1.1	10.6 J	< 5.0	< 1.0	0.84 J
MW-21A	10/4/2016		< 1.0	0.44 J	10.3	3.0	< 1.0	5.8	< 1.0	0.67 J	< 1.0	285	0.82 J	< 1.0	< 1.0
MW-21A	10/11/2017		< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	189	< 10.0	5.4 J	< 10.0
MW-21A	10/22/2018		< 5.0	0.68 J	10.6	2.1	< 5.0	14.0	< 2.4	0.86 J	< 1.1	130	0.71 J	< 1.0	< 1.0

Table 7
Summary of Detected Compounds
Former City of Rhinelander Landfill
Rhinelander, Wisconsin

Location	Date	WES PAL QA/QC	Dichlorodifluoromethane (CFC-12)	Isopropyl benzene	m&p-Xylenes	o-Xylene	Methylene chloride	Naphthalene	N-Butylbenzene	N-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Vinyl chloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
			1000	--	2000		5	100	--	--	5	50	800	5	0.2
			200	--	400		0.5	10	--	--	0.5	10	160	0.5	0.02
MW-25B	10/4/2016		0.53 J	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	0.83 J
MW-25B	10/10/2017		0.47 J	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1.4
MW-25B	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	1.6
MW-26B	10/3/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
MW-26B	10/9/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
MW-26B	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-26C	10/3/2016		0.36 J	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	4.6
MW-26C	10/9/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	4.8
MW-26C	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	5.1
MW-27B	10/4/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
MW-27B	10/10/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0
MW-27B	10/23/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-28A	6/30/2016		< 1.0	0.15 J	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	59.3	< 1.0	< 1.0	2.4
MW-28A	10/4/2016		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	11.3	< 1.0	< 1.0	< 1.0
MW-28A	10/10/2017		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	19.0	< 1.0	< 1.0	1.5
MW-28A	10/22/2018		< 5.0	< 5.0	< 2.0	< 1.0	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	29.4	< 5.0	< 1.0	1.0

Notes:

- WES - Wisconsin Enforcement Standard
- PAL - Preventative Action Limit
- Outlined cells exceed WES
- ug/L - Micrograms per Liter
- mg/L - Milligrams per Liter
- D - Duplicate Sample

Appendix A

Surface Water Sampling Laboratory Reports and Data Validation

November 08, 2018

Grant Anderson
GHD Services; St. Paul
1801 Old Highway 8 Northwest
Suite 114
Saint Paul, MN 55112

RE: Project: 11115796 RHINELANDER LF
Pace Project No.: 40178207

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178207

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178207

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40178207001	SW-20	Water	10/23/18 15:00	10/24/18 07:30
40178207002	SW-28	Water	10/23/18 15:10	10/24/18 07:30
40178207003	SW-10	Water	10/23/18 15:10	10/24/18 07:30

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178207

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40178207001	SW-20	EPA 6010	TXW	6
		SM 9222D	DEY	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
		EPA 410.4	TJJ	1
40178207002	SW-28	EPA 6010	TXW	6
		SM 9222D	DEY	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
		EPA 410.4	TJJ	1
40178207003	SW-10	EPA 6010	TXW	6
		SM 9222D	DEY	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
		EPA 410.4	TJJ	1

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178207

Sample: SW-20 **Lab ID: 40178207001** Collected: 10/23/18 15:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Copper	<6.3	ug/L	20.0	6.3	1	10/29/18 15:12	11/05/18 11:32	7440-50-8	
Iron	4570	ug/L	246	73.9	1	10/29/18 15:12	11/05/18 11:32	7439-89-6	
Sodium	26800	ug/L	1530	458	1	10/29/18 15:12	11/05/18 11:32	7440-23-5	P6
Lead	<5.9	ug/L	19.7	5.9	1	10/29/18 15:12	11/05/18 11:32	7439-92-1	
Zinc	<11.6	ug/L	40.0	11.6	1	10/29/18 15:12	11/05/18 11:32	7440-66-6	
Total Hardness by 2340B	88.3	mg/L	2.0	0.15	1	10/29/18 15:12	11/05/18 11:32		
9222D MICRO Fecal Coli by MF		Analytical Method: SM 9222D Preparation Method: SM 9222D							
Fecal Coliforms	23.9	CFU/100 mL	2.2	2.2	2.17	10/24/18 11:10	10/24/18 11:10		H3
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	66.0	mg/L	10.0	2.5	5		10/29/18 14:44	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	1.3	mg/L	0.50	0.25	1		11/06/18 13:31	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	1.7	mg/L	0.73	0.22	1	10/25/18 11:16	10/25/18 16:26	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.19J	mg/L	0.25	0.095	1		10/25/18 12:11		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	54.6	mg/L	47.2	14.2	1	11/01/18 08:17	11/01/18 11:06		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178207

Sample: SW-28 **Lab ID: 40178207002** Collected: 10/23/18 15:10 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Copper	<6.3	ug/L	20.0	6.3	1	10/29/18 15:12	11/05/18 11:40	7440-50-8	
Iron	4510	ug/L	246	73.9	1	10/29/18 15:12	11/05/18 11:40	7439-89-6	
Lead	<5.9	ug/L	19.7	5.9	1	10/29/18 15:12	11/05/18 11:40	7439-92-1	
Sodium	20400	ug/L	1530	458	1	10/29/18 15:12	11/05/18 11:40	7440-23-5	
Total Hardness by 2340B	79.4	mg/L	2.0	0.15	1	10/29/18 15:12	11/05/18 11:40		
Zinc	<11.6	ug/L	40.0	11.6	1	10/29/18 15:12	11/05/18 11:40	7440-66-6	
9222D MICRO Fecal Coli by MF		Analytical Method: SM 9222D Preparation Method: SM 9222D							
Fecal Coliforms	11.5	CFU/100 mL	1.6	1.6	1.64	10/24/18 11:10	10/24/18 11:10		H3
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	51.7	mg/L	10.0	2.5	5		10/29/18 14:58	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	3.3	mg/L	0.50	0.25	1		11/06/18 13:35	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	3.6	mg/L	0.73	0.22	1	10/25/18 11:16	10/25/18 16:29	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.18J	mg/L	0.25	0.095	1		10/25/18 12:15		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	77.3	mg/L	47.2	14.2	1	11/01/18 08:17	11/01/18 11:07		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178207

Sample: SW-10 **Lab ID: 40178207003** Collected: 10/23/18 15:10 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Copper	<6.3	ug/L	20.0	6.3	1	10/29/18 15:12	11/05/18 11:42	7440-50-8	
Iron	4080	ug/L	246	73.9	1	10/29/18 15:12	11/05/18 11:42	7439-89-6	
Lead	<5.9	ug/L	19.7	5.9	1	10/29/18 15:12	11/05/18 11:42	7439-92-1	
Sodium	21400	ug/L	1530	458	1	10/29/18 15:12	11/05/18 11:42	7440-23-5	
Total Hardness by 2340B	55.5	mg/L	2.0	0.15	1	10/29/18 15:12	11/05/18 11:42		
Zinc	<11.6	ug/L	40.0	11.6	1	10/29/18 15:12	11/05/18 11:42	7440-66-6	
9222D MICRO Fecal Coli by MF		Analytical Method: SM 9222D Preparation Method: SM 9222D							
Fecal Coliforms	8.20	CFU/100 mL	1.6	1.6	1.64	10/24/18 11:10	10/24/18 11:10		H3
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	44.1	mg/L	10.0	2.5	5		10/30/18 16:55	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	<0.25	mg/L	0.50	0.25	1		11/06/18 13:36	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.44J	mg/L	0.73	0.22	1	10/25/18 11:16	10/25/18 16:29	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.15J	mg/L	0.25	0.095	1		10/25/18 12:16		
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	54.0	mg/L	44.8	13.4	1	11/01/18 08:17	11/01/18 11:07		

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178207

QC Batch: 304396 Analysis Method: SM 9222D
QC Batch Method: SM 9222D Analysis Description: 9222D MICRO Fecal Coliform by MF
Associated Lab Samples: 40178207001, 40178207002, 40178207003

METHOD BLANK: 1778458 Matrix: Water
Associated Lab Samples: 40178207001, 40178207002, 40178207003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	10/24/18 11:10	

METHOD BLANK: 1778460 Matrix: Water
Associated Lab Samples: 40178207001, 40178207002, 40178207003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	10/24/18 11:10	

SAMPLE DUPLICATE: 1778459

Parameter	Units	40178207001 Result	Dup Result	RPD	Max RPD	Qualifiers
Fecal Coliforms	CFU/100 mL	23.9	19.6			

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178207

QC Batch: 304656 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 40178207001, 40178207002, 40178207003

METHOD BLANK: 1780736 Matrix: Water
Associated Lab Samples: 40178207001, 40178207002, 40178207003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<6.3	20.0	11/05/18 11:28	
Iron	ug/L	<73.9	246	11/05/18 11:28	
Lead	ug/L	<5.9	19.7	11/05/18 11:28	
Sodium	ug/L	<458	1530	11/05/18 11:28	
Total Hardness by 2340B	mg/L	<0.15	2.0	11/05/18 11:28	
Zinc	ug/L	<11.6	40.0	11/05/18 11:28	

LABORATORY CONTROL SAMPLE: 1780737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	500	509	102	80-120	
Iron	ug/L	5000	5150	103	80-120	
Lead	ug/L	500	504	101	80-120	
Sodium	ug/L	5000	5150	103	80-120	
Total Hardness by 2340B	mg/L		34.2			
Zinc	ug/L	500	526	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1780738 1780739

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40178207001 Result	Spike Conc.	Spike Conc.	Result						
Copper	ug/L	<6.3	500	500	506	515	101	103	75-125	2	20
Iron	ug/L	4570	5000	5000	9760	9920	104	107	75-125	2	20
Lead	ug/L	<5.9	500	500	493	506	99	101	75-125	3	20
Sodium	ug/L	26800	5000	5000	32600	33100	117	126	75-125	1	20 P6
Total Hardness by 2340B	mg/L	88.3			125	126				1	20
Zinc	ug/L	<11.6	500	500	522	531	103	104	75-125	2	20

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178207

QC Batch: 304466 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40178207001, 40178207002

METHOD BLANK: 1779161 Matrix: Water

Associated Lab Samples: 40178207001, 40178207002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/29/18 10:21	

LABORATORY CONTROL SAMPLE: 1779162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.6	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779163 1779164

Parameter	Units	40178258004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1650	2000	2000	3770	3770	106	106	90-110	0	15	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178207

QC Batch: 304495 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40178207003

METHOD BLANK: 1779427 Matrix: Water
Associated Lab Samples: 40178207003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/30/18 15:44	

LABORATORY CONTROL SAMPLE: 1779428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779429 1779430

Parameter	Units	40178207003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Chloride	mg/L	44.1	100	100	151	153	107	109	90-110	1	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779431 1779432

Parameter	Units	40178208019 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Chloride	mg/L	16.5	100	100	126	127	110	111	90-110	1	15 M0

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178207

QC Batch: 305603 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia

Associated Lab Samples: 40178207001, 40178207002, 40178207003

METHOD BLANK: 1785616 Matrix: Water

Associated Lab Samples: 40178207001, 40178207002, 40178207003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.25	0.50	11/06/18 13:29	

LABORATORY CONTROL SAMPLE: 1785617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785618 1785619

Parameter	Units	1785618		1785619		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40178207001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, Ammonia	mg/L	1.3	10	10	11.0	11.0	97	97	90-110	0	20

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178207

QC Batch: 304304 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 40178207001, 40178207002, 40178207003

METHOD BLANK: 1777749 Matrix: Water
Associated Lab Samples: 40178207001, 40178207002, 40178207003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.22	0.73	10/25/18 16:12	

LABORATORY CONTROL SAMPLE: 1777750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777751 1777752

Parameter	Units	40178231001 Result	MS		MSD		% Rec	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result							
Nitrogen, Kjeldahl, Total	mg/L	68.0	20	20	91.5	95.7	117	138	90-110	4	20	M0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777753 1777754

Parameter	Units	40178207001 Result	MS		MSD		% Rec	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result							
Nitrogen, Kjeldahl, Total	mg/L	1.7	5	5	6.5	6.3	97	93	90-110	3	20		

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178207

QC Batch: 304282 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 40178207001, 40178207002, 40178207003

METHOD BLANK: 1777654 Matrix: Water
Associated Lab Samples: 40178207001, 40178207002, 40178207003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	10/25/18 11:41	

LABORATORY CONTROL SAMPLE: 1777655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.3	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777656 1777657

Parameter	Units	40178202001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	2.3	2.3	92	92	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777658 1777659

Parameter	Units	40178207003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.15J	2.5	2.5	2.4	2.4	91	91	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178207

QC Batch: 305056 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 40178207001, 40178207002, 40178207003

METHOD BLANK: 1782311 Matrix: Water
Associated Lab Samples: 40178207001, 40178207002, 40178207003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<13.4	44.8	11/01/18 11:02	

LABORATORY CONTROL SAMPLE: 1782312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	536	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1782313 1782314

Parameter	Units	1782313		1782314		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40178207002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Chemical Oxygen Demand	mg/L	77.3	526	526	620	607	103	101	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1782315 1782316

Parameter	Units	1782315		1782316		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40178207001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Chemical Oxygen Demand	mg/L	54.6	526	526	595	593	103	102	90-110	0	10	

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QUALIFIERS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178207

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178207

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178207001	SW-20	EPA 3010	304656	EPA 6010	305339
40178207002	SW-28	EPA 3010	304656	EPA 6010	305339
40178207003	SW-10	EPA 3010	304656	EPA 6010	305339
40178207001	SW-20	SM 9222D	304395	SM 9222D	304396
40178207002	SW-28	SM 9222D	304395	SM 9222D	304396
40178207003	SW-10	SM 9222D	304395	SM 9222D	304396
40178207001	SW-20	EPA 300.0	304466		
40178207002	SW-28	EPA 300.0	304466		
40178207003	SW-10	EPA 300.0	304495		
40178207001	SW-20	EPA 350.1	305603		
40178207002	SW-28	EPA 350.1	305603		
40178207003	SW-10	EPA 350.1	305603		
40178207001	SW-20	EPA 351.2	304304	EPA 351.2	304389
40178207002	SW-28	EPA 351.2	304304	EPA 351.2	304389
40178207003	SW-10	EPA 351.2	304304	EPA 351.2	304389
40178207001	SW-20	EPA 353.2	304282		
40178207002	SW-28	EPA 353.2	304282		
40178207003	SW-10	EPA 353.2	304282		
40178207001	SW-20	EPA 410.4	305056	EPA 410.4	305136
40178207002	SW-28	EPA 410.4	305056	EPA 410.4	305136
40178207003	SW-10	EPA 410.4	305056	EPA 410.4	305136

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436



Handwritten initials/signature

40178207

Company Name: **SHD**
 Branch/Location: **St. Paul**
 Project Contact: **G. Anderson**
 Phone: **651-639-0913**
 Project Number: **1115796**
 Project Name: **Rhinelande LF**
 Project State: **WI**
 Sampled By (Print): **Ryan Agmad**
 Sampled By (Sign): *[Signature]*
 PO #:
 Regulatory Program:

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Analyses Requested	Yes/No	Pick Letter
Fecal Coliform	-	-
CO D	-	-
Ammonia, TN, N+V	-	-
Chloride	-	-
Metals: Hardness	-	-

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	W-181023-RA-100	10/23/18	1506	SW
002	W-181023-RA-101	↓	1510	↓
003	W-181023-RA-102	↓	1550	↓

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <i>[Signature]</i>	Date/Time: 10-25-18 6:50am	Received By: <i>[Signature]</i>	Date/Time: 10-24-18 0730
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40178207
 Receipt Temp = **ROI** °C
 Sample Receipt pH **OK** / Adjusted
 Cooler Custody Seal Present / ~~Not Present~~
 Intact / Not Intact

Sample Condition Upon Receipt Form (SCUR)

Client Name: GHD

Project #: _____

WO#: 40178207

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT Corr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
Date: 10-24-18
Initials: SU

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <i>No Mail or Invoice or presentation.</i>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <i>10/24/18</i>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: - VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	5. <i>Fecals received past hold. Per PM run past hold.</i> Date/Time: <i>10/24/18</i>
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: <u>W</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <i>No collect time on all samples</i> <i>10/24/18</i>
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AL for DM

Date: 10/24/18

May 09, 2018

Grant Anderson
GHD Services; St. Paul
1801 Old Highway 8 Northwest
Suite 114
Saint Paul, MN 55112

RE: Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40167943

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40167943001	SW-20	Water	04/24/18 12:50	04/25/18 09:14
40167943002	SW-10	Water	04/24/18 15:30	04/25/18 09:14

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SAMPLE ANALYTE COUNT

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40167943001	SW-20	EPA 6010	JLD	6
		SM 9222D	DEY	1
		EPA 180.1	DEY	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
		EPA 410.4	TJJ	1
40167943002	SW-10	EPA 6010	JLD	6
		SM 9222D	DEY	1
		EPA 180.1	DEY	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
		EPA 410.4	TJJ	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40167943

Sample: SW-20 **Lab ID: 40167943001** Collected: 04/24/18 12:50 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Copper	<6.3	ug/L	20.0	6.3	1	04/25/18 14:34	04/27/18 11:59	7440-50-8	
Iron	2160	ug/L	100	34.0	1	04/25/18 14:34	04/27/18 11:59	7439-89-6	
Lead	<4.3	ug/L	13.0	4.3	1	04/25/18 14:34	04/27/18 11:59	7439-92-1	
Sodium	15900	ug/L	500	98.9	1	04/25/18 14:34	04/27/18 11:59	7440-23-5	
Total Hardness by 2340B	44.0	mg/L	2.0	0.15	1	04/25/18 14:34	04/27/18 11:59		
Zinc	<9.3	ug/L	40.0	9.3	1	04/25/18 14:34	04/27/18 11:59	7440-66-6	
9222D MICRO Fecal Coli by MF Analytical Method: SM 9222D Preparation Method: SM 9222D									
Fecal Coliforms	14.0	CFU/100 mL	2.0	2.0	2	04/25/18 11:15	04/25/18 11:15		H3
180.1 Turbidity Analytical Method: EPA 180.1									
Turbidity	10.5	NTU	1.8	0.55	1		04/25/18 11:54		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	32.6	mg/L	10.0	2.5	5		05/01/18 15:16	16887-00-6	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	0.93	mg/L	0.50	0.25	1		05/07/18 13:56	7664-41-7	
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	0.95	mg/L	0.73	0.22	1	05/02/18 13:22	05/02/18 17:24	7727-37-9	B
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.16J	mg/L	0.25	0.095	1		04/27/18 12:38		
410.4 COD Analytical Method: EPA 410.4 Preparation Method: EPA 410.4									
Chemical Oxygen Demand	<14.2	mg/L	47.2	14.2	1	04/26/18 09:05	04/26/18 12:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

Sample: SW-10 **Lab ID: 40167943002** Collected: 04/24/18 15:30 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Copper	<6.3	ug/L	20.0	6.3	1	04/25/18 14:34	04/27/18 12:01	7440-50-8	
Iron	10300	ug/L	100	34.0	1	04/25/18 14:34	04/27/18 12:01	7439-89-6	
Lead	<4.3	ug/L	13.0	4.3	1	04/25/18 14:34	04/27/18 12:01	7439-92-1	
Sodium	5900	ug/L	500	98.9	1	04/25/18 14:34	04/27/18 12:01	7440-23-5	
Total Hardness by 2340B	54.1	mg/L	2.0	0.15	1	04/25/18 14:34	04/27/18 12:01		
Zinc	<9.3	ug/L	40.0	9.3	1	04/25/18 14:34	04/27/18 12:01	7440-66-6	
9222D MICRO Fecal Coli by MF Analytical Method: SM 9222D Preparation Method: SM 9222D									
Fecal Coliforms	<2.00	CFU/100 mL	2.0	2.0	2	04/25/18 11:15	04/25/18 11:15		H3
180.1 Turbidity Analytical Method: EPA 180.1									
Turbidity	48.9	NTU	5.5	1.6	1		04/25/18 11:58		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	36.6	mg/L	10.0	2.5	5		05/01/18 15:27	16887-00-6	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	0.25J	mg/L	0.50	0.25	1		05/07/18 13:57	7664-41-7	
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	0.61J	mg/L	0.73	0.22	1	05/02/18 13:22	05/02/18 17:25	7727-37-9	B
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		04/27/18 12:39		
410.4 COD Analytical Method: EPA 410.4 Preparation Method: EPA 410.4									
Chemical Oxygen Demand	<13.4	mg/L	44.8	13.4	1	04/26/18 09:05	04/26/18 12:02		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

QC Batch: 287105

Analysis Method: SM 9222D

QC Batch Method: SM 9222D

Analysis Description: 9222D MICRO Fecal Coliform by MF

Associated Lab Samples: 40167943001, 40167943002

METHOD BLANK: 1679299

Matrix: Water

Associated Lab Samples: 40167943001, 40167943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	04/25/18 11:15	

METHOD BLANK: 1679301

Matrix: Water

Associated Lab Samples: 40167943001, 40167943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	04/25/18 11:15	

SAMPLE DUPLICATE: 1679300

Parameter	Units	40167943001 Result	Dup Result	RPD	Max RPD	Qualifiers
Fecal Coliforms	CFU/100 mL	14.0	6.00			H3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40167943

QC Batch: 286996 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 40167943001, 40167943002

METHOD BLANK: 1678689 Matrix: Water
Associated Lab Samples: 40167943001, 40167943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<6.3	20.0	04/26/18 14:01	
Iron	ug/L	<34.0	100	04/26/18 14:01	
Lead	ug/L	<4.3	13.0	04/26/18 14:01	
Sodium	ug/L	117J	500	04/26/18 14:01	
Total Hardness by 2340B	mg/L	<0.15	2.0	04/26/18 14:01	
Zinc	ug/L	<9.3	40.0	04/26/18 14:01	

LABORATORY CONTROL SAMPLE: 1678690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	500	500	100	80-120	
Iron	ug/L	5000	4960	99	80-120	
Lead	ug/L	500	504	101	80-120	
Sodium	ug/L	5000	4950	99	80-120	
Total Hardness by 2340B	mg/L		32.2			
Zinc	ug/L	500	511	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1678691 1678692

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40167819001 Result	Spike Conc.	Spike Conc.	Result						
Copper	ug/L	<6.3	500	500	509	506	101	100	75-125	1	20
Iron	ug/L	524	5000	5000	5620	5500	102	99	75-125	2	20
Lead	ug/L	<4.3	500	500	501	488	100	98	75-125	3	20
Sodium	ug/L	75600	5000	5000	80000	81600	89	119	75-125	2	20
Total Hardness by 2340B	mg/L	453			486	499				3	20
Zinc	ug/L	22.5J	500	500	530	533	101	102	75-125	1	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

QC Batch: 286961

Analysis Method: EPA 180.1

QC Batch Method: EPA 180.1

Analysis Description: 180.1 Turbidity

Associated Lab Samples: 40167943001, 40167943002

METHOD BLANK: 1678489

Matrix: Water

Associated Lab Samples: 40167943001, 40167943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<0.55	1.8	04/25/18 11:50	

LABORATORY CONTROL SAMPLE: 1678490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	546	545	100	80-120	

SAMPLE DUPLICATE: 1678491

Parameter	Units	40167887001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	1.6J	1.4J		10	H3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

QC Batch: 287261 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40167943001, 40167943002

METHOD BLANK: 1680562 Matrix: Water

Associated Lab Samples: 40167943001, 40167943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	05/01/18 10:32	

LABORATORY CONTROL SAMPLE: 1680563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.0	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680564 1680565

Parameter	Units	1680564		1680565		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	7.1	20	29.0	29.2	109	110	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680566 1680567

Parameter	Units	1680566		1680567		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	36.6	100	145	145	108	109	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

QC Batch: 288063

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 40167943001, 40167943002

METHOD BLANK: 1685564

Matrix: Water

Associated Lab Samples: 40167943001, 40167943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.25	0.50	05/07/18 13:51	

LABORATORY CONTROL SAMPLE: 1685565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1685566 1685567

Parameter	Units	1685566		1685567		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40167942001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, Ammonia	mg/L	256	500	500	748	741	99	97	90-110	1	20

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40167943

QC Batch: 287672 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 40167943001, 40167943002

METHOD BLANK: 1682966 Matrix: Water
Associated Lab Samples: 40167943001, 40167943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.22J	0.73	05/02/18 17:02	

LABORATORY CONTROL SAMPLE: 1682967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682968 1682969

Parameter	Units	40168138001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Nitrogen, Kjeldahl, Total	mg/L	1.3	5	5	5	6.0	6.1	95	97	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682970 1682971

Parameter	Units	40167867002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Nitrogen, Kjeldahl, Total	mg/L	1.1	5	5	5	6.0	5.8	97	93	90-110	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

QC Batch: 287209

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Associated Lab Samples: 40167943001, 40167943002

METHOD BLANK: 1680113

Matrix: Water

Associated Lab Samples: 40167943001, 40167943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	04/27/18 12:29	

LABORATORY CONTROL SAMPLE: 1680114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680115 1680116

Parameter	Units	1680115		1680116		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40168097005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, NO2 plus NO3	mg/L	5.1	2.5	2.5	7.5	7.5	94	96	90-110	1	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40167943

QC Batch: 287034 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 40167943001, 40167943002

METHOD BLANK: 1679018 Matrix: Water
Associated Lab Samples: 40167943001, 40167943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<13.4	44.8	04/26/18 12:00	

LABORATORY CONTROL SAMPLE: 1679019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	515	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679020 1679021

Parameter	Units	40167797006 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chemical Oxygen Demand	mg/L	<14.2	526	526	566	552	107	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679022 1679023

Parameter	Units	40167943001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chemical Oxygen Demand	mg/L	<14.2	526	526	561	563	104	105	90-110	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

H3 Sample was received or analysis requested beyond the recognized method holding time.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40167943

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40167943001	SW-20	EPA 3010	286996	EPA 6010	287092
40167943002	SW-10	EPA 3010	286996	EPA 6010	287092
40167943001	SW-20	SM 9222D	287104	SM 9222D	287105
40167943002	SW-10	SM 9222D	287104	SM 9222D	287105
40167943001	SW-20	EPA 180.1	286961		
40167943002	SW-10	EPA 180.1	286961		
40167943001	SW-20	EPA 300.0	287261		
40167943002	SW-10	EPA 300.0	287261		
40167943001	SW-20	EPA 350.1	288063		
40167943002	SW-10	EPA 350.1	288063		
40167943001	SW-20	EPA 351.2	287672	EPA 351.2	287720
40167943002	SW-10	EPA 351.2	287672	EPA 351.2	287720
40167943001	SW-20	EPA 353.2	287209		
40167943002	SW-10	EPA 353.2	287209		
40167943001	SW-20	EPA 410.4	287034	EPA 410.4	287097
40167943002	SW-10	EPA 410.4	287034	EPA 410.4	287097

REPORT OF LABORATORY ANALYSIS

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Pace Container Order #346329

40167943

Addresses

Order By :	Ship To :	Return To:
Company <u>GHD SERVICES</u>	Company <u>GHD SERVICES (Pace Analytical</u>	Company <u>Pace Analytical Green Bay</u>
Contact <u>Anderson, Grant</u>	Contact <u>Ryan Aamot</u>	Contact <u>Milewsky, Dan</u>
Email <u>grant.anderson@ghd.com</u>	Email <u>ryan.aamot@ghd.com</u>	Email <u>dan.milewsky@pacelabs.com</u>
Address <u>1801 Old Highway 8 Northwest</u>	Address <u>1801 Old Highway 8 Northwest</u>	Address <u>1241 Bellevue Street</u>
Address 2 <u>Suite 114</u>	Address 2 <u>Suite 114</u>	Address 2 <u>Suite 9</u>
City <u>Saint Paul</u>	City <u>Saint Paul</u>	City <u>Green Bay</u>
State <u>MN</u> Zip <u>55112</u>	State <u>MN</u> Zip <u>55112</u>	State <u>WI</u> Zip <u>54302</u>
Phone <u>(651) 639-0913</u>	Phone <u>(651) 639-0913</u>	Phone <u>(920)469-2436</u>

Info

Project Name <u>Rhineland LF Surface Water</u>	Due Date <u>04/04/2018</u>	Profile _____	Quote _____
Project Manager <u>Milewsky, Dan</u>	Return _____	Carrier <u>Most Economical</u>	Location _____

Trip Blanks <input type="checkbox"/> Include Trip Blanks	Bottle Labels <input checked="" type="checkbox"/> Blank <input type="checkbox"/> Pre-Printed No Sample IDs <input type="checkbox"/> Pre-Printed With Sample IDs	Bottles <input type="checkbox"/> Boxed Cases <input type="checkbox"/> Individually Wrapped <input type="checkbox"/> Grouped By Sample
Return Shipping Labels <input type="checkbox"/> No Shipper Number <input type="checkbox"/> With Shipper Number	Misc <input type="checkbox"/> Sampling Instructions <input type="checkbox"/> Custody Seal <input type="checkbox"/> Temp. Blanks <input checked="" type="checkbox"/> Coolers _____ <input type="checkbox"/> Syringes _____	
COC Options <input checked="" type="checkbox"/> Number of Blanks <u>1</u> <input type="checkbox"/> Pre-Printed _____	<input type="checkbox"/> Extra Bubble Wrap <input type="checkbox"/> Short Hold/Rush Stickers <input type="checkbox"/> DI Water <u>Liter(s)</u> <input type="checkbox"/> USDA Regulated Soils	

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
4	WT	Fecal Coliform MF	120 ml sterile	4	0	18317007	
4	WT	Ammonia, TKN, N+N, COD	250mL plastic H2SO4	4	0	M-8-067-05BB	
4	WT	Chloride and Turbidity	1L Plastic unpreserved	4	0	C-8-012-02BB	
4	WT	Metals and Hardness	250mL plastic w/HNO3	4	0	M-8-054-04BB	

Hazard Shipping Placard In Place : NA

- *Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with your project manager.
- *Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
- *Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.
- *Payment term are net 30 days.
- *Please include the proposal number on the chain of custody to insure proper billing.

Sample Notes

Ship Date :	04/02/2018
Prepared By:	Mai Yer Her
Verified By:	



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-GB-C-031-rev.06

Document Revised: 31Jan2018
 Issuing Authority:
 Pace Green Bay Quality Office

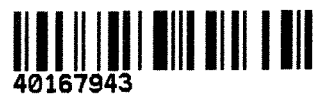
Sample Condition Upon Receipt Form (SCUR)

Client Name: CRA

Project #: _____

WO#: **40167943**

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: P/I / Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 4/25/18
 Initials: SSM

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A MS/MSD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>No collect times</u> <u>SSM 4/25/18</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: RMR for DM

Date: 4/25/18



Memorandum

February 6, 2019

To: Ryan Aamot, GHD

Ref. No.: 11115796-20

From:  Grant Anderson/sb/1

Tel: (651) 639-0913

**Subject: Analytical Results and Reduced Data Validation
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill Site – Rhinelanders, Wisconsin
April and October 2018**

1. Introduction

The following document details a reduced validation of analytical results for groundwater and surface water samples collected in support of the monitoring events at the Rhinelanders Landfill Site in Rhinelanders, Wisconsin during April and October 2018. Samples were submitted to Pace Analytical Services, Inc. (Pace), located in Green Bay, Wisconsin. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD Services, Inc. (GHD) 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 spike samples (MS), and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "National Functional Guidelines for Organic Superfund Methods Data Review," EPA-540-R-2017-002, January 2017
- ii) "National Functional Guidelines for Inorganic Superfund Methods Data Review," EPA-540-R-2017-001, January 2017

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in Table 3. The sample chain of custody documents and analytical reports were used to determine sample holding times. With the exception of fecal coliform bacteria analyses, all samples were analyzed within the



required holding times. Table 4 lists the holding time exceedances. Associated sample data are qualified as noted in the table.

All samples were properly preserved and delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. 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.

Laboratory method blanks were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

Total Kjeldahl nitrogen, alkalinity, hardness, and sodium were detected in the method blanks. However, in all cases the associated sample results were sufficiently high enough that qualification of data was not necessary. The remaining method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory control limits.

5. 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.

LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

The LCS contained all compounds of interest. All LCS 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. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the acceptance criteria, 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 acceptance criteria, demonstrating acceptable analytical accuracy and precision.

7. Field QA/QC Samples

The field QA/QC samples consisted of two trip blank samples, one field blank sample and one field duplicate sample set.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, two trip blank samples were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

Field Blank Sample Analysis

To assess ambient conditions at the site and cleanliness of sample containers, a field blank was submitted for analysis, as identified in Table 1. With the exception of hardness, all results were non-detect for the analytes of interest. Associated hardness results were sufficiently high enough that qualification of data was not necessary based on analytes detected in the field blank.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was 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. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

9. Conclusion

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

Table 1

Sample Collection and Analysis Summary
Groundwater and Surface Water Sampling Events
Rhineland Landfill
Rhineland, Wisconsin
April and October 2018

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters											Comments	
					VOC	Select Metals (total)	Select Metals (dissolved)	Hardness	Fecal Coliforms	Turbidity	Chloride	Alkalinity	Ammonia	Total Kjeldahl Nitrogen	Chemical Oxygen Demand		Nitrate/Nitrite
MW-2A	MW-2A	water	04/24/2018	14:00	x	x	x			x	x	x	x				
MW-2B	MW-2B	water	04/24/2018	13:50	x	x	x			x	x						
MW-16A	MW-16A	water	04/24/2018	12:10	x	x	x			x	x						
MW-16B	MW-16B	water	04/24/2018	12:40	x	x	x			x	x						
MW-16C	MW-16C	water	04/24/2018	12:25	x	x	x			x	x						
MW-20A	MW-20A	water	04/24/2018	14:45	x	x	x			x	x						
MW-20B	MW-20B	water	04/24/2018	15:00	x	x	x			x	x						
MW-20C	MW-20C	water	04/24/2018	15:10	x	x	x			x	x						
TRIP BLANK	Lab	water	04/24/2018	00:00	x	x	x										Trip Blank
SW-20	SW-20	water	04/24/2018	12:50		x		x	x	x			x	x	x	x	
SW-10	SW-10	water	04/24/2018	15:30		x		x	x	x			x	x	x	x	
SW-20	SW-20	water	10/23/2018	15:00		x		x	x		x		x	x	x	x	
SW-28	SW-28	water	10/23/2018	15:10		x		x	x		x		x	x	x	x	
SW-10	SW-10	water	10/23/2018	15:10		x		x	x		x		x	x	x	x	
MW-2A	MW-2A	water	10/22/2018	15:20	x		x	x		x	x		x	x			
MW-2B	MW-2B	water	10/22/2018	15:29	x		x	x		x	x						
MW-21A	MW-21A	water	10/22/2018	15:45	x		x	x		x	x		x	x			
MW-3A	MW-3A	water	10/22/2018	16:00	x		x	x		x	x		x	x			
MW-28A	MW-28A	water	10/22/2018	16:36	x		x	x		x	x						
MW-4A	MW-4A	water	10/23/2018	08:55	x		x	x		x	x						
MW-4A DUP	MW-4A	water	10/23/2018	08:55	x		x	x		x	x						duplicate (MW-4A)

Table 1

Sample Collection and Analysis Summary
Groundwater and Surface Water Sampling Events
Rhineland Landfill
Rhineland, Wisconsin
April and October 2018

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters											Comments		
					VOC	Select Metals (total)	Select Metals (dissolved)	Hardness	Fecal Coliforms	Turbidity	Chloride	Alkalinity	Ammonia	Total Kjeldahl Nitrogen	Chemical Oxygen Demand		Nitrate/Nitrite	
FIELD BLANK	MW-5A	water	10/23/2018	09:10	x	x	x			x	x							field blank
MW-5A	MW-5A	water	10/23/2018	09:10	x	x	x			x	x							
MW-20A	MW-20A	water	10/23/2018	09:50	x	x	x			x	x							
MW-20B	MW-20B	water	10/23/2018	10:00	x	x	x			x	x							
MW-20C	MW-20C	water	10/23/2018	10:25	x	x	x			x	x							
MW-16C	MW-16C	water	10/23/2018	11:26	x	x	x			x	x							
MW-16B	MW-16B	water	10/23/2018	11:40	x	x	x			x	x							
MW-16A	MW-16A	water	10/23/2018	12:00	x	x	x			x	x							
MW-26B	MW-26B	water	10/23/2018	13:10	x	x	x			x	x							
MW-26C	MW-26C	water	10/23/2018	13:04	x	x	x			x	x							
MW-27B	MW-27B	water	10/23/2018	13:33	x	x	x			x	x							
MW-25B	MW-25B	water	10/23/2018	13:52	x	x	x			x	x							
MW-18A	MW-18A	water	10/23/2018	14:20	x	x	x			x	x							
MW-18C	MW-18C	water	10/23/2018	15:00	x	x	x			x	x							
MW-18B	MW-18B	water	10/23/2018	14:30	x	x	x			x	x							
TRIP BLANK	Lab	water	10/23/2018	00:00	x													Trip Blank

Notes:

VOC - Volatile Organic Compounds

**Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhineland Landfill
Rhineland, Wisconsin
April and October 2018**

Location ID:	MW-16A	MW-16A	MW-16B	MW-16B	MW-16C	MW-16C	MW-18A	MW-18B	MW-18C
Sample Name:	MW-16A	MW-16A	MW-16B	MW-16B	MW-16C	MW-16C	MW-18A	MW-18B	MW-18C
Sample Date:	04/24/2018	10/23/2018	04/24/2018	10/23/2018	04/24/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018

Parameters	Unit									
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	0.24 J	1.0 U	0.27 J	1.0 U	0.24 J	0.30 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	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	µg/L	1.0 U	1.8 U	1.0 U	1.8 U	1.0 U	1.8 U	1.8 U	1.8 U	1.8 U
1,2,3-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 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	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	µg/L	1.0 U	2.8 U	1.0 U	2.8 U	1.0 U	2.8 U	2.8 U	2.8 U	2.8 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.9 U	5.0 U	5.9 U	5.0 U	5.9 U	5.9 U	5.9 U	5.9 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	2.8 U	1.0 U	2.8 U	1.0 U	2.8 U	2.8 U	2.8 U	2.8 U
1,2-Dichlorobenzene	µg/L	1.0 U	2.4 U	1.0 U	2.4 U	1.0 U	2.4 U	2.4 U	2.4 U	2.4 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	µg/L	1.0 U	2.9 U	1.0 U	2.9 U	1.0 U	2.9 U	2.9 U	2.9 U	2.9 U
1,3-Dichlorobenzene	µg/L	1.0 U	2.1 U	1.0 U	2.1 U	1.0 U	2.1 U	2.1 U	2.1 U	2.1 U
1,3-Dichloropropane	µg/L	1.0 U	2.8 U	1.0 U	2.8 U	1.0 U	2.8 U	2.8 U	2.8 U	2.8 U
1,4-Dichlorobenzene	µg/L	1.0 U	3.1 U	1.0 U	3.1 U	1.0 U	3.1 U	3.1 U	3.1 U	3.1 U
2,2-Dichloropropane	µg/L	1.0 U	7.6 U	1.0 U	7.6 U	1.0 U	7.6 U	7.6 U	7.6 U	7.6 U
2-Chlorotoluene	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	µg/L	1.0 U	2.5 U	1.0 U	2.5 U	1.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	µg/L	0.75 J	0.43 J	1.0	1.3	1.3	1.5	1.0 U	0.54 J	0.42 J
Bromobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.2 U	1.0 U	1.2 U	1.0 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromoform	µg/L	1.0 U	13.2 U	1.0 U	13.2 U	1.0 U	13.2 U	13.2 U	13.2 U	13.2 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	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	1.0 U	1.0 U	1.0 U

**Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhineland Landfill
Rhineland, Wisconsin
April and October 2018**

Location ID:	MW-16A	MW-16A	MW-16B	MW-16B	MW-16C	MW-16C	MW-18A	MW-18B	MW-18C
Sample Name:	MW-16A	MW-16A	MW-16B	MW-16B	MW-16C	MW-16C	MW-18A	MW-18B	MW-18C
Sample Date:	04/24/2018	10/23/2018	04/24/2018	10/23/2018	04/24/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018

Parameters	Unit									
Chlorobenzene	µg/L	1.0 U	2.4 U	1.0 U	2.4 U	0.64 J	2.4 U	2.4 U	2.4 U	2.4 U
Chlorobromomethane	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	7.3 U	1.0 U	7.3 U	1.0 U	7.3 U	7.3 U	7.3 U	7.3 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	4.9	1.0 U	0.40 J
cis-1,3-Dichloropropene	µg/L	1.0 U	12.1 U	1.0 U	12.1 U	1.0 U	12.1 U	12.1 U	12.1 U	12.1 U
Cymene (p-Isopropyltoluene)	µg/L	1.0 U	2.7 U	1.0 U	2.7 U	1.0 U	2.7 U	2.7 U	2.7 U	2.7 U
Dibromochloromethane	µg/L	1.0 U	8.7 U	1.0 U	8.7 U	1.0 U	8.7 U	8.7 U	8.7 U	8.7 U
Dibromomethane	µg/L	1.0 U	3.1 U	1.0 U	3.1 U	1.0 U	3.1 U	3.1 U	3.1 U	3.1 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diisopropyl ether	µg/L	1.0 U	6.3 U	1.0 U	6.3 U	1.0 U	6.3 U	6.3 U	6.3 U	6.3 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropyl benzene	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
m&p-Xylenes	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	1.4 J	1.6 J	2.0 U	2.0 U	2.0 U
Methyl tert butyl ether (MTBE)	µg/L	1.0 U	4.2 U	1.0 U	4.2 U	1.0 U	4.2 U	4.2 U	4.2 U	4.2 U
Methylene chloride	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Butylbenzene	µg/L	1.0 U	2.4 U	1.0 U	2.4 U	1.0 U	2.4 U	2.4 U	2.4 U	2.4 U
N-Propylbenzene	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	3.3 J	4.5 J	5.0 U	5.0 U	5.0 U
o-Xylene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.6 U	1.0 U	1.6 U	1.0 U	1.6 U	1.6 U	1.6 U	1.6 U
tert-Butylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	0.35 J
Tetrahydrofuran	µg/L	5.0 U	20.0 U	7.2	8.3 J	15.6	16.6 J	20.0 U	4.0 J	3.1 J
Toluene	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	3.6 U	1.0 U	3.6 U	1.0 U	3.6 U	3.6 U	3.6 U	3.6 U
trans-1,3-Dichloropropene	µg/L	1.0 U	14.6 U	1.0 U	14.6 U	1.0 U	14.6 U	14.6 U	14.6 U	14.6 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.9	2.2	6.1
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill
Rhinelanders, Wisconsin
April and October 2018

Location ID:	MW-16A	MW-16A	MW-16B	MW-16B	MW-16C	MW-16C	MW-18A	MW-18B	MW-18C
Sample Name:	MW-16A	MW-16A	MW-16B	MW-16B	MW-16C	MW-16C	MW-18A	MW-18B	MW-18C
Sample Date:	04/24/2018	10/23/2018	04/24/2018	10/23/2018	04/24/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018

Parameters	Unit									
Vinyl chloride	µg/L	0.34 J	0.27 J	1.0 U	1.0 U	0.29 J	0.35 J	0.22 J	1.0 U	1.0 U
Metals										
Hardness, calculation	mg/L	168	126	227	240	232	241	233	305	315
Boron (dissolved)	µg/L	--	--	--	--	--	--	--	--	141
Copper	µg/L	--	--	--	--	--	--	--	--	--
Iron	µg/L	--	--	--	--	--	--	--	--	--
Iron (dissolved)	µg/L	2550	1480	37300	38700	26700	28000	2050	38.3 J	118 U
Lead	µg/L	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	µg/L	3260	2470	3520	4130	2110	2280	1470	2110	1490
Sodium	µg/L	--	--	--	--	--	--	--	--	--
Zinc	µg/L	--	--	--	--	--	--	--	--	--
General Chemistry										
Fecal coliform bacteria	cfu/100mL	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	165	139	225	261	237	266	164	306	276
Ammonia	mg/L	--	--	--	--	--	--	--	--	--
Chemical oxygen demand (COD)	mg/L	--	--	--	--	--	--	--	--	--
Chloride	mg/L	20.1	14.8	37.2	39.2	41.5	43.7	81.2	51.5	83.8
Nitrite/Nitrate	mg/L	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	--	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--

**Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill
Rhinelanders, Wisconsin
April and October 2018**

Location ID:	MW-20A	MW-20A	MW-20B	MW-20B	MW-20C	MW-20C	MW-21A	MW-25B	MW-26B
Sample Name:	MW-20A	MW-20A	MW-20B	MW-20B	MW-20C	MW-20C	MW-21A	MW-25B	MW-26B
Sample Date:	04/24/2018	10/23/2018	04/24/2018	10/23/2018	04/24/2018	10/23/2018	10/22/2018	10/23/2018	10/23/2018

Parameters	Unit									
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	µg/L	1.0 U	1.8 U	1.0 U	1.8 U	1.0 U	1.8 U	1.8 U	1.8 U	1.8 U
1,2,3-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 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	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	µg/L	19.7	23.5	1.0 U	2.8 U	1.0 U	2.8 U	5.0	2.8 U	2.8 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.9 U	5.0 U	5.9 U	5.0 U	5.9 U	5.9 U	5.9 U	5.9 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	2.8 U	1.0 U	2.8 U	1.0 U	2.8 U	2.8 U	2.8 U	2.8 U
1,2-Dichlorobenzene	µg/L	0.63 J	0.86 J	1.0 U	2.4 U	1.0 U	2.4 U	2.4 U	2.4 U	2.4 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	µg/L	4.6	4.8	1.0 U	2.9 U	1.0 U	2.9 U	2.2 J	2.9 U	2.9 U
1,3-Dichlorobenzene	µg/L	1.0 U	2.1 U	1.0 U	2.1 U	1.0 U	2.1 U	2.1 U	2.1 U	2.1 U
1,3-Dichloropropane	µg/L	1.0 U	2.8 U	1.0 U	2.8 U	1.0 U	2.8 U	2.8 U	2.8 U	2.8 U
1,4-Dichlorobenzene	µg/L	1.6	1.9 J	1.0 U	3.1 U	1.0 U	3.1 U	1.9 J	3.1 U	3.1 U
2,2-Dichloropropane	µg/L	1.0 U	7.6 U	1.0 U	7.6 U	1.0 U	7.6 U	7.6 U	7.6 U	7.6 U
2-Chlorotoluene	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	µg/L	1.0 U	2.5 U	1.0 U	2.5 U	1.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	µg/L	1.0 J	1.9	0.64 J	0.74 J	0.90 J	1.0	4.7	1.0 U	1.0 U
Bromobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.2 U	1.0 U	1.2 U	1.0 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromoform	µg/L	1.0 U	13.2 U	1.0 U	13.2 U	1.0 U	13.2 U	13.2 U	13.2 U	13.2 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	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	1.0 U	1.0 U	1.0 U

**Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhineland Landfill
Rhineland, Wisconsin
April and October 2018**

Location ID:	MW-20A	MW-20A	MW-20B	MW-20B	MW-20C	MW-20C	MW-21A	MW-25B	MW-26B
Sample Name:	MW-20A	MW-20A	MW-20B	MW-20B	MW-20C	MW-20C	MW-21A	MW-25B	MW-26B
Sample Date:	04/24/2018	10/23/2018	04/24/2018	10/23/2018	04/24/2018	10/23/2018	10/22/2018	10/23/2018	10/23/2018

Parameters	Unit									
Chlorobenzene	µg/L	5.2	6.2	0.57 J	0.77 J	0.74 J	0.81 J	7.1	2.4 U	2.4 U
Chlorobromomethane	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	7.3 U	1.0 U	7.3 U	1.0 U	7.3 U	7.3 U	7.3 U	7.3 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	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	12.1 U	1.0 U	12.1 U	1.0 U	12.1 U	12.1 U	12.1 U	12.1 U
Cymene (p-Isopropyltoluene)	µg/L	0.59 J	2.7 U	1.0 U	2.7 U	1.0 U	2.7 U	2.7 U	2.7 U	2.7 U
Dibromochloromethane	µg/L	1.0 U	8.7 U	1.0 U	8.7 U	1.0 U	8.7 U	8.7 U	8.7 U	8.7 U
Dibromomethane	µg/L	1.0 U	3.1 U	1.0 U	3.1 U	1.0 U	3.1 U	3.1 U	3.1 U	3.1 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diisopropyl ether	µg/L	1.0 U	6.3 U	1.0 U	6.3 U	1.0 U	6.3 U	6.3 U	6.3 U	6.3 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropyl benzene	µg/L	3.5	4.0 J	1.0 U	5.0 U	1.0 U	5.0 U	0.68 J	5.0 U	5.0 U
m&p-Xylenes	µg/L	50.6	56.4	2.0 U	2.0 U	2.0 U	2.0 U	10.6	2.0 U	2.0 U
Methyl tert butyl ether (MTBE)	µg/L	1.0 U	4.2 U	1.0 U	4.2 U	1.0 U	4.2 U	4.2 U	4.2 U	4.2 U
Methylene chloride	µg/L	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Butylbenzene	µg/L	1.4	2.4 U	1.0 U	2.4 U	1.0 U	2.4 U	2.4 U	2.4 U	2.4 U
N-Propylbenzene	µg/L	2.4	3.0 J	1.0 U	5.0 U	1.0 U	5.0 U	0.86 J	5.0 U	5.0 U
Naphthalene	µg/L	12.5	18.0	10.6	12.3	8.9	7.7	14.0	5.0 U	5.0 U
o-Xylene	µg/L	1.1	1.6	1.0 U	1.0 U	1.0 U	1.0 U	2.1	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.6 U	1.0 U	1.6 U	1.0 U	1.6 U	1.6 U	1.6 U	1.6 U
tert-Butylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.1 U	1.0 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U
Tetrahydrofuran	µg/L	7.5	8.7 J	15.2	11.0 J	14.1	10.6 J	130	20.0 U	20.0 U
Toluene	µg/L	1.0 U	0.38 J	1.0 U	5.0 U	1.0 U	5.0 U	0.71 J	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	3.6 U	1.0 U	3.6 U	1.0 U	3.6 U	3.6 U	3.6 U	3.6 U
trans-1,3-Dichloropropene	µg/L	1.0 U	14.6 U	1.0 U	14.6 U	1.0 U	14.6 U	14.6 U	14.6 U	14.6 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U

Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhineland Landfill
Rhineland, Wisconsin
April and October 2018

Location ID:	MW-20A	MW-20A	MW-20B	MW-20B	MW-20C	MW-20C	MW-21A	MW-25B	MW-26B
Sample Name:	MW-20A	MW-20A	MW-20B	MW-20B	MW-20C	MW-20C	MW-21A	MW-25B	MW-26B
Sample Date:	04/24/2018	10/23/2018	04/24/2018	10/23/2018	04/24/2018	10/23/2018	10/22/2018	10/23/2018	10/23/2018

Parameters	Unit									
Vinyl chloride	µg/L	1.0 U	1.0 U	0.48 J	0.43 J	0.78 J	0.84 J	1.0 U	1.6	1.0 U
Metals										
Hardness, calculation	mg/L	143	180	162	160	183	186	738	166	21.4
Boron (dissolved)	µg/L	398	611	--	--	--	--	1110	40.0 U	--
Copper	µg/L	--	--	--	--	--	--	--	--	--
Iron	µg/L	--	--	--	--	--	--	--	--	--
Iron (dissolved)	µg/L	69400	80700	17600	17700	21500	22000	57300	118 U	10700
Lead	µg/L	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	µg/L	654	712	1080	1100	1400	1460	1200	190	984
Sodium	µg/L	--	--	--	--	--	--	--	--	--
Zinc	µg/L	--	--	--	--	--	--	--	--	--
General Chemistry										
Fecal coliform bacteria	cfu/100mL	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	253	277	145	158	183	187	1830	163	40.7
Ammonia	mg/L	--	--	--	--	--	--	232	--	--
Chemical oxygen demand (COD)	mg/L	--	--	--	--	--	--	--	--	--
Chloride	mg/L	8.9 J	7.8 J	46.3	47.7	46.9	47.2	46.8	16.5	88.0
Nitrite/Nitrate	mg/L	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	--	--	--	230	--	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--

Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhineland Landfill
Rhineland, Wisconsin
April and October 2018

Location ID:	MW-26C	MW-27B	MW-28A	MW-2A	MW-2A	MW-2B	MW-2B	MW-3A	MW-4A
Sample Name:	MW-26C	MW-27B	MW-28A	MW-2A	MW-2A	MW-2B	MW-2B	MW-3A	MW-4A
Sample Date:	10/23/2018	10/23/2018	10/22/2018	04/24/2018	10/22/2018	04/24/2018	10/22/2018	10/22/2018	10/23/2018

Parameters	Unit									
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	2.0 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	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	0.73 J	1.0 U	1.0 U	2.0 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	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	µg/L	1.8 U	1.8 U	1.8 U	2.0 U	1.8 U	1.0 U	1.8 U	1.8 U	1.8 U
1,2,3-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	µg/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	µg/L	2.8 U	2.8 U	2.8 U	3.4	3.0	1.0 U	2.8 U	2.8 U	2.8 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.9 U	5.9 U	5.9 U	10.0 U	5.9 U	5.0 U	5.9 U	5.9 U	5.9 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.8 U	2.8 U	2.8 U	2.0 U	2.8 U	1.0 U	2.8 U	2.8 U	2.8 U
1,2-Dichlorobenzene	µg/L	2.4 U	2.4 U	2.4 U	2.0 U	2.4 U	1.0 U	2.4 U	2.4 U	2.4 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	2.0 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	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	µg/L	2.9 U	2.9 U	2.9 U	2.8	2.0 J	1.0 U	2.9 U	2.9 U	2.9 U
1,3-Dichlorobenzene	µg/L	2.1 U	2.1 U	2.1 U	2.0 U	2.1 U	1.0 U	2.1 U	2.1 U	2.1 U
1,3-Dichloropropane	µg/L	2.8 U	2.8 U	2.8 U	2.0 U	2.8 U	1.0 U	2.8 U	2.8 U	2.8 U
1,4-Dichlorobenzene	µg/L	3.1 U	3.1 U	1.0 J	1.5 J	1.6 J	1.0 U	3.1 U	3.1 U	3.1 U
2,2-Dichloropropane	µg/L	7.6 U	7.6 U	7.6 U	2.0 U	7.6 U	1.0 U	7.6 U	7.6 U	7.6 U
2-Chlorotoluene	µg/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	5.0 U	5.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	µg/L	2.5 U	2.5 U	2.5 U	2.0 U	2.5 U	1.0 U	2.5 U	2.5 U	2.5 U
Benzene	µg/L	0.95 J	1.0 U	1.3	27.3	28.5	1.0 U	0.40 J	2.4	1.0 U
Bromobenzene	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.2 U	1.2 U	1.2 U	2.0 U	1.2 U	1.0 U	1.2 U	1.2 U	1.2 U
Bromoform	µg/L	13.2 U	13.2 U	13.2 U	2.0 U	13.2 U	1.0 U	13.2 U	13.2 U	13.2 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	10.0 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	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

**Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhineland Landfill
Rhineland, Wisconsin
April and October 2018**

Location ID:	MW-26C	MW-27B	MW-28A	MW-2A	MW-2A	MW-2B	MW-2B	MW-3A	MW-4A
Sample Name:	MW-26C	MW-27B	MW-28A	MW-2A	MW-2A	MW-2B	MW-2B	MW-3A	MW-4A
Sample Date:	10/23/2018	10/23/2018	10/22/2018	04/24/2018	10/22/2018	04/24/2018	10/22/2018	10/22/2018	10/23/2018

Parameters	Unit									
Chlorobenzene	µg/L	2.4 U	2.4 U	2.4 U	1.4 J	1.6 J	1.0 U	2.4 U	2.4 U	2.4 U
Chlorobromomethane	µg/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	7.3 U	7.3 U	7.3 U	2.0 U	7.3 U	1.0 U	7.3 U	7.3 U	7.3 U
cis-1,2-Dichloroethene	µg/L	0.61 J	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	12.1 U	12.1 U	12.1 U	2.0 U	12.1 U	1.0 U	12.1 U	12.1 U	12.1 U
Cymene (p-Isopropyltoluene)	µg/L	2.7 U	2.7 U	2.7 U	2.0 U	2.7 U	1.0 U	2.7 U	2.7 U	2.7 U
Dibromochloromethane	µg/L	8.7 U	8.7 U	8.7 U	2.0 U	8.7 U	1.0 U	8.7 U	8.7 U	8.7 U
Dibromomethane	µg/L	3.1 U	3.1 U	3.1 U	2.0 U	3.1 U	1.0 U	3.1 U	3.1 U	3.1 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U
Diisopropyl ether	µg/L	6.3 U	6.3 U	6.3 U	2.0 U	6.3 U	1.0 U	6.3 U	6.3 U	6.3 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	µg/L	5.0 U	5.0 U	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	0.55 J	0.48 J	1.0 U	5.0 U	5.0 U	5.0 U
m&p-Xylenes	µg/L	2.0 U	2.0 U	2.0 U	5.7	6.1	2.0 U	2.0 U	1.6 J	2.0 U
Methyl tert butyl ether (MTBE)	µg/L	4.2 U	4.2 U	4.2 U	2.0 U	4.2 U	1.0 U	4.2 U	4.2 U	4.2 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U
N-Butylbenzene	µg/L	2.4 U	2.4 U	2.4 U	2.0 U	2.4 U	1.0 U	2.4 U	2.4 U	2.4 U
N-Propylbenzene	µg/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	µg/L	5.0 U	5.0 U	5.0 U	10.0 U	4.2 J	5.0 U	5.0 U	1.2 J	5.0 U
o-Xylene	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	0.58 J	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.6 U	1.6 U	1.6 U	2.0 U	1.6 U	1.0 U	1.6 U	1.6 U	1.6 U
tert-Butylbenzene	µg/L	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.1 U	1.1 U	1.1 U	2.0 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1 U
Tetrahydrofuran	µg/L	20.0 U	20.0 U	29.4	185	216	7.3	8.9 J	90.1	20.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	2.0 U	0.32 J	1.0 U	5.0 U	0.19 J	5.0 U
trans-1,2-Dichloroethene	µg/L	3.6 U	3.6 U	3.6 U	2.0 U	3.6 U	1.0 U	3.6 U	3.6 U	3.6 U
trans-1,3-Dichloropropene	µg/L	14.6 U	14.6 U	14.6 U	2.0 U	14.6 U	1.0 U	14.6 U	14.6 U	14.6 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	2.0 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	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

**Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill
Rhinelanders, Wisconsin
April and October 2018**

Location ID:	MW-26C	MW-27B	MW-28A	MW-2A	MW-2A	MW-2B	MW-2B	MW-3A	MW-4A	
Sample Name:	MW-26C	MW-27B	MW-28A	MW-2A	MW-2A	MW-2B	MW-2B	MW-3A	MW-4A	
Sample Date:	10/23/2018	10/23/2018	10/22/2018	04/24/2018	10/22/2018	04/24/2018	10/22/2018	10/22/2018	10/23/2018	
Parameters	Unit									
Vinyl chloride	µg/L	5.1	1.0 U	1.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Metals										
Hardness, calculation	mg/L	235	89.6	298	1040	1040	142	139	309	116
Boron (dissolved)	µg/L	--	--	242	1670	2090	--	--	--	14.2 J
Copper	µg/L	--	--	--	--	--	--	--	--	--
Iron	µg/L	--	--	--	--	--	--	--	--	--
Iron (dissolved)	µg/L	930	41.2 J	4940	56400	57800	12400	15500	47800	118 U
Lead	µg/L	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	µg/L	2600	175	604	722	625	1160	1250	3800	5.0 U
Sodium	µg/L	--	--	--	--	--	--	--	--	--
Zinc	µg/L	--	--	--	--	--	--	--	--	--
General Chemistry										
Fecal coliform bacteria	cfu/100mL	--	--	--	--	--	--	--	--	--
Alkalinity, total (as CaCO3)	mg/L	232	79.7	323	2220	2340	168	193	722	101
Ammonia	mg/L	--	--	--	256	265	--	--	67.2	--
Chemical oxygen demand (COD)	mg/L	--	--	--	--	--	--	--	--	--
Chloride	mg/L	22.8	5.0	20.3	69.1	71.4	17.0	17.5	27.5	25.3
Nitrite/Nitrate	mg/L	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	263	259	--	--	64.4	--
Turbidity	NTU	--	--	--	--	--	--	--	--	--

**Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill
Rhinelanders, Wisconsin
April and October 2018**

Location ID:	MW-4A	MW-5A	SW-10	SW-10	SW-20	SW-20	SW-28
Sample Name:	MW-4A DUP	MW-5A	SW-10	SW-10	SW-20	SW-20	SW-28
Sample Date:	10/23/2018	10/23/2018	04/24/2018	10/23/2018	04/24/2018	10/23/2018	10/23/2018
	Duplicate						

Parameters	Unit							
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	--	--	--	--	--
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	--	--	--	--	--
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	--	--	--	--	--
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	--	--	--	--	--
1,1-Dichloropropene	µg/L	1.8 U	1.8 U	--	--	--	--	--
1,2,3-Trichlorobenzene	µg/L	5.0 U	5.0 U	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	5.0 U	5.0 U	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	2.8 U	2.8 U	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.9 U	5.9 U	--	--	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.8 U	2.8 U	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	2.4 U	2.4 U	--	--	--	--	--
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	--	--	--	--	--
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	--	--	--	--	--
1,3,5-Trimethylbenzene	µg/L	2.9 U	2.9 U	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	2.1 U	2.1 U	--	--	--	--	--
1,3-Dichloropropane	µg/L	2.8 U	2.8 U	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3.1 U	3.1 U	--	--	--	--	--
2,2-Dichloropropane	µg/L	7.6 U	7.6 U	--	--	--	--	--
2-Chlorotoluene	µg/L	5.0 U	5.0 U	--	--	--	--	--
2-Phenylbutane (sec-Butylbenzene)	µg/L	5.0 U	5.0 U	--	--	--	--	--
4-Chlorotoluene	µg/L	2.5 U	2.5 U	--	--	--	--	--
Benzene	µg/L	1.0 U	1.0 U	--	--	--	--	--
Bromobenzene	µg/L	1.0 U	1.0 U	--	--	--	--	--
Bromodichloromethane	µg/L	1.2 U	1.2 U	--	--	--	--	--
Bromoform	µg/L	13.2 U	13.2 U	--	--	--	--	--
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	--	--	--	--	--
Carbon tetrachloride	µg/L	1.0 U	1.0 U	--	--	--	--	--

**Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill
Rhinelanders, Wisconsin
April and October 2018**

Location ID:	MW-4A	MW-5A	SW-10	SW-10	SW-20	SW-20	SW-28
Sample Name:	MW-4A DUP	MW-5A	SW-10	SW-10	SW-20	SW-20	SW-28
Sample Date:	10/23/2018	10/23/2018	04/24/2018	10/23/2018	04/24/2018	10/23/2018	10/23/2018
	Duplicate						

Parameters	Unit							
Chlorobenzene	µg/L	2.4 U	2.4 U	--	--	--	--	--
Chlorobromomethane	µg/L	5.0 U	5.0 U	--	--	--	--	--
Chloroethane	µg/L	5.0 U	5.0 U	--	--	--	--	--
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	--	--	--	--	--
Chloromethane (Methyl chloride)	µg/L	7.3 U	7.3 U	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	12.1 U	12.1 U	--	--	--	--	--
Cymene (p-Isopropyltoluene)	µg/L	2.7 U	2.7 U	--	--	--	--	--
Dibromochloromethane	µg/L	8.7 U	8.7 U	--	--	--	--	--
Dibromomethane	µg/L	3.1 U	3.1 U	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	--	--	--	--	--
Diisopropyl ether	µg/L	6.3 U	6.3 U	--	--	--	--	--
Ethylbenzene	µg/L	1.0 U	1.0 U	--	--	--	--	--
Hexachlorobutadiene	µg/L	5.0 U	5.0 U	--	--	--	--	--
Isopropyl benzene	µg/L	5.0 U	5.0 U	--	--	--	--	--
m&p-Xylenes	µg/L	2.0 U	2.0 U	--	--	--	--	--
Methyl tert butyl ether (MTBE)	µg/L	4.2 U	4.2 U	--	--	--	--	--
Methylene chloride	µg/L	5.0 U	5.0 U	--	--	--	--	--
N-Butylbenzene	µg/L	2.4 U	2.4 U	--	--	--	--	--
N-Propylbenzene	µg/L	5.0 U	5.0 U	--	--	--	--	--
Naphthalene	µg/L	5.0 U	5.0 U	--	--	--	--	--
o-Xylene	µg/L	1.0 U	1.0 U	--	--	--	--	--
Styrene	µg/L	1.6 U	1.6 U	--	--	--	--	--
tert-Butylbenzene	µg/L	1.0 U	1.0 U	--	--	--	--	--
Tetrachloroethene	µg/L	1.1 U	1.1 U	--	--	--	--	--
Tetrahydrofuran	µg/L	20.0 U	20.0 U	--	--	--	--	--
Toluene	µg/L	5.0 U	5.0 U	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	3.6 U	3.6 U	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	14.6 U	14.6 U	--	--	--	--	--
Trichloroethene	µg/L	1.0 U	1.0 U	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	--	--	--	--	--

**Validated Analytical Results Summary
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill
Rhinelanders, Wisconsin
April and October 2018**

Location ID:	MW-4A	MW-5A	SW-10	SW-10	SW-20	SW-20	SW-28
Sample Name:	MW-4A DUP	MW-5A	SW-10	SW-10	SW-20	SW-20	SW-28
Sample Date:	10/23/2018	10/23/2018	04/24/2018	10/23/2018	04/24/2018	10/23/2018	10/23/2018
Duplicate							
Parameters	Unit						
Vinyl chloride	µg/L	1.0 U	1.0 U	--	--	--	--
Metals							
Hardness, calculation	mg/L	116	828	54.1	55.5	44.0	88.3
Boron (dissolved)	µg/L	13.7 J	15.6 J	--	--	--	--
Copper	µg/L	--	--	20.0 U	20.0 U	20.0 U	20.0 U
Iron	µg/L	--	--	10300	4080	2160	4570
Iron (dissolved)	µg/L	118 U	118 U	--	--	--	--
Lead	µg/L	--	--	13.0 U	19.7 U	13.0 U	19.7 U
Manganese (dissolved)	µg/L	5.0 U	2910	--	--	--	--
Sodium	µg/L	--	--	5900	21400	15900	26800
Zinc	µg/L	--	--	40.0 U	40.0 U	40.0 U	40.0 U
General Chemistry							
Fecal coliform bacteria	cfu/100mL	--	--	2.0 UJ	8.20 J	14.0 J	23.9 J
Alkalinity, total (as CaCO ₃)	mg/L	105	39.5	--	--	--	--
Ammonia	mg/L	--	--	0.25 J	0.50 U	0.93	1.3
Chemical oxygen demand (COD)	mg/L	--	--	44.8 U	54.0	47.2 U	54.6
Chloride	mg/L	25.4	797	36.6	44.1	32.6	66.0
Nitrite/Nitrate	mg/L	--	--	0.25 U	0.15 J	0.16 J	0.19 J
Total kjeldahl nitrogen (TKN)	mg/L	--	--	0.61 J	0.44 J	0.95	1.7
Turbidity	NTU	--	--	48.9	--	10.5	--

Note:

U - Not detected at the associated reporting limit

J - Estimated concentration

UJ - Not detected, associated reporting limit is estimated

Table 3

**Analytical Methods
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill
Rhinelanders, Wisconsin
April and October 2018**

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (days)	Collection or Extraction to Analysis (days)
Volatile Organic Compounds (VOC)	SW-846 8260	Water	-	14
Select Metals	SW-846 6010	Water	-	180
Select Metals, (dissolved)	SW-846 6010	Water	-	180
Hardness	SM 2340B	Water	-	180
Fecal Coliforms	SM 9222D	Water	-	6 hours
Chloride	EPA 300.0	Water	-	28
Ammonia	EPA 350.1	Water	-	28
Total Kjeldahl Nitrogen (TKN)	EPA 351.2	Water	-	28
Chemical Oxygen Demand (COD)	EPA 410.4	Water	-	28
Nitrate/Nitrite	EPA 353.2	Water	-	28
Alkalinity	EPA 310.2	Water	-	14
Turbidity	EPA 180.1	Water	-	48 hours

Notes:

Method References:

- SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
SM - "Standard Methods For the Examination of Water and Wastewater"
EPA - "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions

Table 4

**Qualified Sample Results Due to Holding Time Exceedance
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill
Rhinelanders, Wisconsin
April and October 2018**

Parameter	Sample ID	Holding Time (hours)	Holding Time Criteria (hours)	Analyte	Qualified Sample Results	Units
Fecal coliform bacteria	SW-20 (4/25)	22.5	6	Fecal coliform bacteria	14.0 J	cfu/100mL
	SW-10 (4/25)	20	6	Fecal coliform bacteria	2.0 UJ	cfu/100mL
	SW-20 (10/24)	20	6	Fecal coliform bacteria	23.9 J	cfu/100mL
	SW-28 (10/24)	20	6	Fecal coliform bacteria	11.5 J	cfu/100mL
	SW-10 (10/24)	20	6	Fecal coliform bacteria	8.20 J	cfu/100mL

Notes:

- J - Estimated concentration
 UJ - Not detected; associated reporting limit is estimated

Appendix B

Groundwater Sampling Laboratory Reports and Data Validation

November 12, 2018

Grant Anderson
GHD Services; St. Paul
1801 Old Highway 8 Northwest
Suite 114
Saint Paul, MN 55112

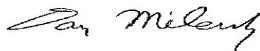
RE: Project: 11115796 RHINELANDER LF
Pace Project No.: 40178208

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40178208001	MW-2A	Water	10/22/18 15:20	10/24/18 07:30
40178208002	MW-2B	Water	10/22/18 15:29	10/24/18 07:30
40178208003	MW-21A	Water	10/22/18 15:45	10/24/18 07:30
40178208004	MW-3A	Water	10/22/18 16:00	10/24/18 07:30
40178208005	MW-28A	Water	10/22/18 16:36	10/24/18 07:30
40178208006	MW-4A	Water	10/23/18 08:55	10/24/18 07:30
40178208007	MW-4A DUP	Water	10/23/18 08:55	10/24/18 07:30
40178208008	FIELD BLANK	Water	10/23/18 09:10	10/24/18 07:30
40178208009	MW-5A	Water	10/23/18 09:10	10/24/18 07:30
40178208010	MW-20A	Water	10/23/18 09:50	10/24/18 07:30
40178208011	MW-20B	Water	10/23/18 10:00	10/24/18 07:30
40178208012	MW-20C	Water	10/23/18 10:25	10/24/18 07:30
40178208013	MW-16C	Water	10/23/18 11:26	10/24/18 07:30
40178208014	MW-16B	Water	10/23/18 11:40	10/24/18 07:30
40178208015	MW-16A	Water	10/23/18 12:00	10/24/18 07:30
40178208016	MW-26B	Water	10/23/18 13:10	10/24/18 07:30
40178208017	MW-26C	Water	10/23/18 13:04	10/24/18 07:30
40178208018	MW-27B	Water	10/23/18 13:33	10/24/18 07:30
40178208019	MW-25B	Water	10/23/18 13:52	10/24/18 07:30
40178208020	MW-18A	Water	10/23/18 14:20	10/24/18 07:30
40178208021	MW-18C	Water	10/23/18 15:00	10/24/18 07:30
40178208022	MW-18B	Water	10/23/18 14:30	10/24/18 07:30
40178208023	TRIP BLANK	Water	10/23/18 00:00	10/24/18 07:30
40178208024	MW-19B	Water	10/23/18 00:00	10/24/18 07:30
40178208025	MW-19C	Water	10/23/18 00:00	10/24/18 07:30
40178208026	MW-28B	Water	10/22/18 00:00	10/24/18 07:30

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40178208001	MW-2A	EPA 6010	TXW	4
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
40178208002	MW-2B	EPA 6010	TXW	3
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40178208003	MW-21A	EPA 6010	TXW	4
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
40178208004	MW-3A	EPA 6010	TXW	3
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 6010	TXW	4
40178208005	MW-28A	EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
40178208006	MW-4A	EPA 6010	TXW	4
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40178208007	MW-4A DUP	EPA 6010	TXW	4

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40178208008	FIELD BLANK	EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	4
		EPA 8260	HNW	65
40178208009	MW-5A	EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	4
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
40178208010	MW-20A	EPA 310.2	DAW	1
		EPA 6010	TXW	4
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40178208011	MW-20B	EPA 6010	TXW	3
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	3
40178208012	MW-20C	EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	3
		EPA 8260	HNW	65
40178208013	MW-16C		RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	3
		EPA 8260	HNW	65
			RMW	6
40178208014	MW-16B	EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	3
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40178208015	MW-16A	EPA 310.2	DAW	1
		EPA 6010	TXW	3
		EPA 8260	HNW	65
			RMW	6
40178208016	MW-26B	EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	3
		EPA 8260	HNW	65
40178208017	MW-26C		RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	3
40178208018	MW-27B	EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40178208019	MW-25B	EPA 6010	TXW	4
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
40178208020	MW-18A	EPA 310.2	DAW	1
		EPA 6010	TXW	3
		EPA 8260	HNW	65
			RMW	6
40178208021	MW-18C	EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	4
		EPA 8260	HNW	65
40178208022	MW-18B		RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	3

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	HNW	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40178208023	TRIP BLANK	EPA 8260	HNW	62
40178208024	MW-19B		RMW	6
40178208025	MW-19C		RMW	6
40178208026	MW-28B		RMW	6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-2A **Lab ID: 40178208001** Collected: 10/22/18 15:20 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	2090	ug/L	40.0	9.7	1		11/08/18 20:58	7440-42-8	
Iron, Dissolved	57800	ug/L	118	35.4	1		11/08/18 20:58	7439-89-6	
Manganese, Dissolved	625	ug/L	5.0	1.1	1		11/08/18 20:58	7439-96-5	
Total Hardness by 2340B, Dissolved	1040	mg/L	2.0	0.15	1		11/08/18 20:58		
8260 MSV		Analytical Method: EPA 8260							
Benzene	28.5	ug/L	1.0	0.25	1		10/25/18 12:51	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 12:51	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 12:51	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 12:51	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 12:51	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 12:51	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 12:51	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 12:51	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 12:51	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 12:51	56-23-5	
Chlorobenzene	1.6J	ug/L	2.4	0.71	1		10/25/18 12:51	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 12:51	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 12:51	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 12:51	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 12:51	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 12:51	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 12:51	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 12:51	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 12:51	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 12:51	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 12:51	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 12:51	541-73-1	
1,4-Dichlorobenzene	1.6J	ug/L	3.1	0.94	1		10/25/18 12:51	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 12:51	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 12:51	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 12:51	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 12:51	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 12:51	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 12:51	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 12:51	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 12:51	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 12:51	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 12:51	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 12:51	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 12:51	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 12:51	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 12:51	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 12:51	87-68-3	
Isopropylbenzene (Cumene)	0.48J	ug/L	5.0	0.39	1		10/25/18 12:51	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-2A **Lab ID: 40178208001** Collected: 10/22/18 15:20 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 12:51	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 12:51	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 12:51	1634-04-4	
Naphthalene	4.2J	ug/L	5.0	1.2	1		10/25/18 12:51	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 12:51	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 12:51	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 12:51	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 12:51	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 12:51	127-18-4	
Tetrahydrofuran	216	ug/L	20.0	2.3	1		10/25/18 12:51	109-99-9	
Toluene	0.32J	ug/L	5.0	0.17	1		10/25/18 12:51	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 12:51	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 12:51	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 12:51	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 12:51	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 12:51	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 12:51	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 12:51	96-18-4	
1,2,4-Trimethylbenzene	3.0	ug/L	2.8	0.84	1		10/25/18 12:51	95-63-6	
1,3,5-Trimethylbenzene	2.0J	ug/L	2.9	0.87	1		10/25/18 12:51	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 12:51	75-01-4	
m&p-Xylene	6.1	ug/L	2.0	0.47	1		10/25/18 12:51	179601-23-1	
o-Xylene	0.58J	ug/L	1.0	0.26	1		10/25/18 12:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/25/18 12:51	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/25/18 12:51	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/25/18 12:51	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.53	Std. Units			1		10/22/18 15:20		
Field Specific Conductance	4460	umhos/cm			1		10/22/18 15:20		
Oxygen, Dissolved	0.92	mg/L			1		10/22/18 15:20	7782-44-7	
REDOX	-96	mV			1		10/22/18 15:20		
Turbidity	0	NTU			1		10/22/18 15:20		
Temperature, Water (C)	12.27	deg C			1		10/22/18 15:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	71.4	mg/L	10.0	2.5	5		10/30/18 17:35	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	2340	mg/L	235	70.4	10		10/29/18 11:34		
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	265	mg/L	10.0	5.0	20		11/06/18 13:52	7664-41-7	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-2A **Lab ID: 40178208001** Collected: 10/22/18 15:20 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	259	mg/L	14.6	4.4	20	10/25/18 11:16	10/25/18 17:09	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178208

Sample: MW-2B **Lab ID: 40178208002** Collected: 10/22/18 15:29 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	15500	ug/L	118	35.4	1		11/08/18 21:05	7439-89-6	
Manganese, Dissolved	1250	ug/L	5.0	1.1	1		11/08/18 21:05	7439-96-5	
Total Hardness by 2340B, Dissolved	139	mg/L	2.0	0.15	1		11/08/18 21:05		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.40J	ug/L	1.0	0.25	1		10/25/18 10:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 10:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 10:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 10:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 10:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 10:00	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 10:00	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 10:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 10:00	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 10:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 10:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 10:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 10:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 10:00	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 10:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 10:00	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 10:00	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 10:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 10:00	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 10:00	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 10:00	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 10:00	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 10:00	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 10:00	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 10:00	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 10:00	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 10:00	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 10:00	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 10:00	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 10:00	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 10:00	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 10:00	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 10:00	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 10:00	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 10:00	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 10:00	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 10:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 10:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 10:00	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 10:00	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-2B **Lab ID: 40178208002** Collected: 10/22/18 15:29 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 10:00	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 10:00	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 10:00	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 10:00	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 10:00	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 10:00	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 10:00	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 10:00	127-18-4	
Tetrahydrofuran	8.9J	ug/L	20.0	2.3	1		10/25/18 10:00	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 10:00	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 10:00	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 10:00	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 10:00	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 10:00	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 10:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 10:00	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 10:00	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 10:00	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 10:00	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 10:00	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 10:00	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 10:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/25/18 10:00	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		10/25/18 10:00	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/25/18 10:00	2037-26-5	
Field Data		Analytical Method:							
Field pH	7	Std. Units			1		10/22/18 15:29		
Field Specific Conductance	636	umhos/cm			1		10/22/18 15:29		
Oxygen, Dissolved	1.89	mg/L			1		10/22/18 15:29	7782-44-7	
REDOX	-102	mV			1		10/22/18 15:29		
Turbidity	0	NTU			1		10/22/18 15:29		
Temperature, Water (C)	10.31	deg C			1		10/22/18 15:29		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	17.5	mg/L	10.0	2.5	5		10/30/18 17:48	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	193	mg/L	23.5	7.0	1		10/29/18 11:35		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-21A **Lab ID: 40178208003** Collected: 10/22/18 15:45 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	1110	ug/L	40.0	9.7	1		11/08/18 21:07	7440-42-8	
Iron, Dissolved	57300	ug/L	118	35.4	1		11/08/18 21:07	7439-89-6	
Manganese, Dissolved	1200	ug/L	5.0	1.1	1		11/08/18 21:07	7439-96-5	
Total Hardness by 2340B, Dissolved	738	mg/L	2.0	0.15	1		11/08/18 21:07		
8260 MSV		Analytical Method: EPA 8260							
Benzene	4.7	ug/L	1.0	0.25	1		10/25/18 13:13	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 13:13	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 13:13	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 13:13	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 13:13	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 13:13	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 13:13	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 13:13	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 13:13	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 13:13	56-23-5	
Chlorobenzene	7.1	ug/L	2.4	0.71	1		10/25/18 13:13	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 13:13	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 13:13	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 13:13	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 13:13	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 13:13	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 13:13	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 13:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 13:13	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 13:13	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 13:13	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 13:13	541-73-1	
1,4-Dichlorobenzene	1.9J	ug/L	3.1	0.94	1		10/25/18 13:13	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 13:13	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 13:13	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 13:13	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 13:13	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 13:13	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 13:13	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 13:13	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 13:13	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 13:13	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 13:13	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 13:13	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 13:13	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 13:13	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 13:13	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 13:13	87-68-3	
Isopropylbenzene (Cumene)	0.68J	ug/L	5.0	0.39	1		10/25/18 13:13	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-21A **Lab ID: 40178208003** Collected: 10/22/18 15:45 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 13:13	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 13:13	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 13:13	1634-04-4	
Naphthalene	14.0	ug/L	5.0	1.2	1		10/25/18 13:13	91-20-3	
n-Propylbenzene	0.86J	ug/L	5.0	0.81	1		10/25/18 13:13	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 13:13	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 13:13	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 13:13	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 13:13	127-18-4	
Tetrahydrofuran	130	ug/L	20.0	2.3	1		10/25/18 13:13	109-99-9	
Toluene	0.71J	ug/L	5.0	0.17	1		10/25/18 13:13	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 13:13	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 13:13	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 13:13	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 13:13	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 13:13	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 13:13	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 13:13	96-18-4	
1,2,4-Trimethylbenzene	5.0	ug/L	2.8	0.84	1		10/25/18 13:13	95-63-6	
1,3,5-Trimethylbenzene	2.2J	ug/L	2.9	0.87	1		10/25/18 13:13	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 13:13	75-01-4	
m&p-Xylene	10.6	ug/L	2.0	0.47	1		10/25/18 13:13	179601-23-1	
o-Xylene	2.1	ug/L	1.0	0.26	1		10/25/18 13:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/25/18 13:13	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/25/18 13:13	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/25/18 13:13	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.31	Std. Units			1		10/22/18 15:45		
Field Specific Conductance	790	umhos/cm			1		10/22/18 15:45		
Oxygen, Dissolved	4.2	mg/L			1		10/22/18 15:45	7782-44-7	
REDOX	-81	mV			1		10/22/18 15:45		
Turbidity	0	NTU			1		10/22/18 15:45		
Temperature, Water (C)	10.51	deg C			1		10/22/18 15:45		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	46.8	mg/L	10.0	2.5	5		10/30/18 18:01	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	1830	mg/L	235	70.4	10		10/29/18 11:36		
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	232	mg/L	10.0	5.0	20		11/06/18 13:53	7664-41-7	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-21A **Lab ID: 40178208003** Collected: 10/22/18 15:45 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	230	mg/L	14.6	4.4	20	10/25/18 11:16	10/25/18 17:10	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-3A **Lab ID: 40178208004** Collected: 10/22/18 16:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	47800	ug/L	118	35.4	1		11/08/18 21:10	7439-89-6	
Manganese, Dissolved	3800	ug/L	5.0	1.1	1		11/08/18 21:10	7439-96-5	
Total Hardness by 2340B, Dissolved	309	mg/L	2.0	0.15	1		11/08/18 21:10		
8260 MSV		Analytical Method: EPA 8260							
Benzene	2.4	ug/L	1.0	0.25	1		10/25/18 13:34	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 13:34	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 13:34	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 13:34	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 13:34	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 13:34	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 13:34	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 13:34	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 13:34	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 13:34	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 13:34	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 13:34	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 13:34	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 13:34	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 13:34	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 13:34	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 13:34	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 13:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 13:34	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 13:34	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 13:34	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 13:34	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 13:34	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 13:34	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 13:34	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 13:34	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 13:34	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 13:34	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 13:34	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 13:34	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 13:34	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 13:34	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 13:34	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 13:34	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 13:34	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 13:34	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 13:34	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 13:34	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 13:34	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 13:34	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-3A **Lab ID: 40178208004** Collected: 10/22/18 16:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 13:34	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 13:34	1634-04-4	
Naphthalene	1.2J	ug/L	5.0	1.2	1		10/25/18 13:34	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 13:34	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 13:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 13:34	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 13:34	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 13:34	127-18-4	
Tetrahydrofuran	90.1	ug/L	20.0	2.3	1		10/25/18 13:34	109-99-9	
Toluene	0.19J	ug/L	5.0	0.17	1		10/25/18 13:34	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 13:34	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 13:34	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 13:34	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 13:34	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 13:34	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 13:34	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 13:34	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 13:34	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 13:34	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 13:34	75-01-4	
m&p-Xylene	1.6J	ug/L	2.0	0.47	1		10/25/18 13:34	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 13:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/25/18 13:34	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		10/25/18 13:34	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/25/18 13:34	2037-26-5	
Field Data Analytical Method:									
Field pH	7.09	Std. Units			1		10/22/18 16:00		
Field Specific Conductance	1490	umhos/cm			1		10/22/18 16:00		
Oxygen, Dissolved	1.92	mg/L			1		10/22/18 16:00	7782-44-7	
REDOX	-40	mV			1		10/22/18 16:00		
Turbidity	0	NTU			1		10/22/18 16:00		
Temperature, Water (C)	9.01	deg C			1		10/22/18 16:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	27.5	mg/L	10.0	2.5	5		10/30/18 18:15	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	722	mg/L	117	35.2	5		10/29/18 11:36		
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	67.2	mg/L	2.5	1.2	5		11/06/18 13:50	7664-41-7	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-3A **Lab ID: 40178208004** Collected: 10/22/18 16:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	64.4	mg/L	7.3	2.2	10	10/25/18 11:16	10/25/18 17:11	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-28A **Lab ID: 40178208005** Collected: 10/22/18 16:36 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	242	ug/L	40.0	9.7	1		11/08/18 21:12	7440-42-8	
Iron, Dissolved	4940	ug/L	118	35.4	1		11/08/18 21:12	7439-89-6	
Manganese, Dissolved	604	ug/L	5.0	1.1	1		11/08/18 21:12	7439-96-5	
Total Hardness by 2340B, Dissolved	298	mg/L	2.0	0.15	1		11/08/18 21:12		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.3	ug/L	1.0	0.25	1		10/25/18 10:21	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 10:21	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 10:21	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 10:21	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 10:21	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 10:21	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 10:21	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 10:21	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 10:21	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 10:21	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 10:21	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 10:21	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 10:21	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 10:21	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 10:21	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 10:21	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 10:21	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 10:21	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 10:21	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 10:21	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 10:21	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 10:21	541-73-1	
1,4-Dichlorobenzene	1.0J	ug/L	3.1	0.94	1		10/25/18 10:21	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 10:21	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 10:21	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 10:21	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 10:21	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 10:21	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 10:21	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 10:21	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 10:21	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 10:21	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 10:21	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 10:21	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 10:21	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 10:21	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 10:21	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 10:21	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 10:21	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-28A **Lab ID: 40178208005** Collected: 10/22/18 16:36 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 10:21	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 10:21	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 10:21	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 10:21	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 10:21	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 10:21	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 10:21	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 10:21	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 10:21	127-18-4	
Tetrahydrofuran	29.4	ug/L	20.0	2.3	1		10/25/18 10:21	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 10:21	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 10:21	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 10:21	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 10:21	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 10:21	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 10:21	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 10:21	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 10:21	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 10:21	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 10:21	108-67-8	
Vinyl chloride	1.0	ug/L	1.0	0.17	1		10/25/18 10:21	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 10:21	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 10:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/25/18 10:21	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		10/25/18 10:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/25/18 10:21	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.55	Std. Units			1		10/22/18 16:36		
Field Specific Conductance	494	umhos/cm			1		10/22/18 16:36		
Oxygen, Dissolved	0.16	mg/L			1		10/22/18 16:36	7782-44-7	
REDOX	-27	mV			1		10/22/18 16:36		
Turbidity	0	NTU			1		10/22/18 16:36		
Temperature, Water (C)	10.55	deg C			1		10/22/18 16:36		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	20.3	mg/L	10.0	2.5	5		10/30/18 18:28	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	323	mg/L	23.5	7.0	1		10/29/18 11:37		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-4A **Lab ID: 40178208006** Collected: 10/23/18 08:55 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	14.2J	ug/L	40.0	9.7	1		11/08/18 21:19	7440-42-8	
Iron, Dissolved	<35.4	ug/L	118	35.4	1		11/08/18 21:19	7439-89-6	
Manganese, Dissolved	<1.1	ug/L	5.0	1.1	1		11/08/18 21:19	7439-96-5	
Total Hardness by 2340B, Dissolved	116	mg/L	2.0	0.15	1		11/08/18 21:19		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/25/18 10:42	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 10:42	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 10:42	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 10:42	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 10:42	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 10:42	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 10:42	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 10:42	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 10:42	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 10:42	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 10:42	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 10:42	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 10:42	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 10:42	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 10:42	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 10:42	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 10:42	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 10:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 10:42	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 10:42	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 10:42	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 10:42	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 10:42	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 10:42	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 10:42	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 10:42	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 10:42	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 10:42	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 10:42	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 10:42	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 10:42	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 10:42	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 10:42	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 10:42	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 10:42	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 10:42	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 10:42	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 10:42	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 10:42	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-4A **Lab ID: 40178208006** Collected: 10/23/18 08:55 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 10:42	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 10:42	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 10:42	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 10:42	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 10:42	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 10:42	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 10:42	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 10:42	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 10:42	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 10:42	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 10:42	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 10:42	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 10:42	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 10:42	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 10:42	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 10:42	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 10:42	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 10:42	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 10:42	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 10:42	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 10:42	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 10:42	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 10:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/25/18 10:42	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/25/18 10:42	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/25/18 10:42	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.21	Std. Units			1		10/23/18 08:55		
Field Specific Conductance	301	umhos/cm			1		10/23/18 08:55		
Oxygen, Dissolved	7.18	mg/L			1		10/23/18 08:55	7782-44-7	
REDOX	124	mV			1		10/23/18 08:55		
Turbidity	0	NTU			1		10/23/18 08:55		
Temperature, Water (C)	8.3	deg C			1		10/23/18 08:55		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	25.3	mg/L	2.0	0.50	1		10/30/18 18:42	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	101	mg/L	23.5	7.0	1		10/29/18 11:38		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-4A DUP **Lab ID: 40178208007** Collected: 10/23/18 08:55 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	13.7J	ug/L	40.0	9.7	1		11/08/18 21:22	7440-42-8	
Iron, Dissolved	<35.4	ug/L	118	35.4	1		11/08/18 21:22	7439-89-6	
Manganese, Dissolved	<1.1	ug/L	5.0	1.1	1		11/08/18 21:22	7439-96-5	
Total Hardness by 2340B, Dissolved	116	mg/L	2.0	0.15	1		11/08/18 21:22		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/25/18 11:04	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 11:04	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 11:04	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 11:04	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 11:04	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 11:04	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:04	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 11:04	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 11:04	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 11:04	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:04	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 11:04	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 11:04	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 11:04	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 11:04	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 11:04	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 11:04	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 11:04	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 11:04	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 11:04	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:04	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 11:04	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 11:04	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 11:04	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 11:04	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:04	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 11:04	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 11:04	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 11:04	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:04	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 11:04	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 11:04	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 11:04	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 11:04	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 11:04	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 11:04	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 11:04	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 11:04	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 11:04	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-4A DUP **Lab ID: 40178208007** Collected: 10/23/18 08:55 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 11:04	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 11:04	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 11:04	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 11:04	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 11:04	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 11:04	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 11:04	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:04	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 11:04	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 11:04	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 11:04	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 11:04	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 11:04	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 11:04	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 11:04	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 11:04	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 11:04	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 11:04	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 11:04	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 11:04	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 11:04	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 11:04	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 11:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/25/18 11:04	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/25/18 11:04	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/25/18 11:04	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.21	Std. Units			1		10/23/18 08:55		
Field Specific Conductance	301	umhos/cm			1		10/23/18 08:55		
Oxygen, Dissolved	7.18	mg/L			1		10/23/18 08:55	7782-44-7	
REDOX	124	mV			1		10/23/18 08:55		
Turbidity	0	NTU			1		10/23/18 08:55		
Temperature, Water (C)	7.21	deg C			1		10/23/18 08:55		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	25.4	mg/L	2.0	0.50	1		10/30/18 19:35	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	105	mg/L	23.5	7.0	1		10/29/18 11:38		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: FIELD BLANK **Lab ID: 40178208008** Collected: 10/23/18 09:10 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	<9.7	ug/L	40.0	9.7	1		11/08/18 21:24	7440-42-8	
Iron, Dissolved	<35.4	ug/L	118	35.4	1		11/08/18 21:24	7439-89-6	
Manganese, Dissolved	<1.1	ug/L	5.0	1.1	1		11/08/18 21:24	7439-96-5	
Total Hardness by 2340B, Dissolved	0.22J	mg/L	2.0	0.15	1		11/08/18 21:24		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/25/18 11:25	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 11:25	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 11:25	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 11:25	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 11:25	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 11:25	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:25	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 11:25	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 11:25	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 11:25	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:25	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 11:25	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 11:25	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 11:25	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 11:25	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 11:25	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 11:25	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 11:25	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 11:25	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 11:25	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:25	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 11:25	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 11:25	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 11:25	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 11:25	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:25	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 11:25	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 11:25	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 11:25	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:25	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 11:25	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 11:25	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 11:25	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 11:25	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 11:25	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 11:25	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 11:25	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 11:25	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 11:25	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: FIELD BLANK **Lab ID: 40178208008** Collected: 10/23/18 09:10 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 11:25	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 11:25	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 11:25	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 11:25	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 11:25	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 11:25	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 11:25	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:25	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 11:25	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 11:25	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 11:25	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 11:25	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 11:25	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 11:25	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 11:25	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 11:25	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 11:25	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 11:25	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 11:25	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 11:25	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 11:25	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 11:25	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 11:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/25/18 11:25	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/25/18 11:25	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/25/18 11:25	2037-26-5	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	<0.50	mg/L	2.0	0.50	1		10/30/18 19:48	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<7.0	mg/L	23.5	7.0	1		10/29/18 11:43		1q

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-5A **Lab ID: 40178208009** Collected: 10/23/18 09:10 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	15.6J	ug/L	40.0	9.7	1		11/08/18 21:27	7440-42-8	
Iron, Dissolved	<35.4	ug/L	118	35.4	1		11/08/18 21:27	7439-89-6	
Manganese, Dissolved	2910	ug/L	5.0	1.1	1		11/08/18 21:27	7439-96-5	
Total Hardness by 2340B, Dissolved	828	mg/L	2.0	0.15	1		11/08/18 21:27		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/25/18 13:55	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 13:55	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 13:55	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 13:55	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 13:55	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 13:55	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 13:55	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 13:55	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 13:55	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 13:55	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 13:55	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 13:55	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 13:55	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 13:55	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 13:55	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 13:55	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 13:55	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 13:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 13:55	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 13:55	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 13:55	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 13:55	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 13:55	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 13:55	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 13:55	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 13:55	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 13:55	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 13:55	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 13:55	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 13:55	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 13:55	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 13:55	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 13:55	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 13:55	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 13:55	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 13:55	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 13:55	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 13:55	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 13:55	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-5A **Lab ID: 40178208009** Collected: 10/23/18 09:10 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 13:55	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 13:55	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 13:55	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 13:55	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 13:55	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 13:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 13:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 13:55	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 13:55	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 13:55	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 13:55	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 13:55	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 13:55	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 13:55	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 13:55	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 13:55	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 13:55	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 13:55	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 13:55	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 13:55	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 13:55	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 13:55	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 13:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/25/18 13:55	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/25/18 13:55	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/25/18 13:55	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.24	Std. Units			1		10/23/18 09:10		
Field Specific Conductance	2960	umhos/cm			1		10/23/18 09:10		
Oxygen, Dissolved	6.04	mg/L			1		10/23/18 09:10	7782-44-7	
REDOX	132	mV			1		10/23/18 09:10		
Turbidity	0	NTU			1		10/23/18 09:10		
Temperature, Water (C)	9.34	deg C			1		10/23/18 09:10		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	797	mg/L	100	25.0	50		10/31/18 22:53	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	39.5	mg/L	23.5	7.0	1		10/29/18 11:44		1q

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-20A **Lab ID: 40178208010** Collected: 10/23/18 09:50 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	611	ug/L	40.0	9.7	1		11/08/18 21:29	7440-42-8	
Iron, Dissolved	80700	ug/L	118	35.4	1		11/08/18 21:29	7439-89-6	
Manganese, Dissolved	712	ug/L	5.0	1.1	1		11/08/18 21:29	7439-96-5	
Total Hardness by 2340B, Dissolved	180	mg/L	2.0	0.15	1		11/08/18 21:29		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.9	ug/L	1.0	0.25	1		10/25/18 14:17	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 14:17	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 14:17	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 14:17	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 14:17	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 14:17	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 14:17	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 14:17	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 14:17	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 14:17	56-23-5	
Chlorobenzene	6.2	ug/L	2.4	0.71	1		10/25/18 14:17	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 14:17	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 14:17	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 14:17	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 14:17	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 14:17	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 14:17	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 14:17	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 14:17	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 14:17	74-95-3	
1,2-Dichlorobenzene	0.86J	ug/L	2.4	0.71	1		10/25/18 14:17	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 14:17	541-73-1	
1,4-Dichlorobenzene	1.9J	ug/L	3.1	0.94	1		10/25/18 14:17	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 14:17	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 14:17	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 14:17	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 14:17	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 14:17	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 14:17	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 14:17	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 14:17	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 14:17	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 14:17	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 14:17	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 14:17	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 14:17	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 14:17	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 14:17	87-68-3	
Isopropylbenzene (Cumene)	4.0J	ug/L	5.0	0.39	1		10/25/18 14:17	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-20A **Lab ID: 40178208010** Collected: 10/23/18 09:50 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 14:17	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 14:17	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 14:17	1634-04-4	
Naphthalene	18.0	ug/L	5.0	1.2	1		10/25/18 14:17	91-20-3	
n-Propylbenzene	3.0J	ug/L	5.0	0.81	1		10/25/18 14:17	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 14:17	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 14:17	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 14:17	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 14:17	127-18-4	
Tetrahydrofuran	8.7J	ug/L	20.0	2.3	1		10/25/18 14:17	109-99-9	
Toluene	0.38J	ug/L	5.0	0.17	1		10/25/18 14:17	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 14:17	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 14:17	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 14:17	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 14:17	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 14:17	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 14:17	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 14:17	96-18-4	
1,2,4-Trimethylbenzene	23.5	ug/L	2.8	0.84	1		10/25/18 14:17	95-63-6	
1,3,5-Trimethylbenzene	4.8	ug/L	2.9	0.87	1		10/25/18 14:17	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 14:17	75-01-4	
m&p-Xylene	56.4	ug/L	2.0	0.47	1		10/25/18 14:17	179601-23-1	
o-Xylene	1.6	ug/L	1.0	0.26	1		10/25/18 14:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/25/18 14:17	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/25/18 14:17	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/25/18 14:17	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.97	Std. Units			1		10/23/18 09:50		
Field Specific Conductance	894	umhos/cm			1		10/23/18 09:50		
Oxygen, Dissolved	0.05	mg/L			1		10/23/18 09:50	7782-44-7	
REDOX	-44	mV			1		10/23/18 09:50		
Turbidity	0	NTU			1		10/23/18 09:50		
Temperature, Water (C)	9.73	deg C			1		10/23/18 09:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	7.8J	mg/L	10.0	2.5	5		10/30/18 20:15	16887-00-6	D3
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	277	mg/L	47.0	14.1	2		10/29/18 11:44		1q

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-20B Lab ID: 40178208011 Collected: 10/23/18 10:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	17700	ug/L	118	35.4	1		11/08/18 21:31	7439-89-6	
Manganese, Dissolved	1100	ug/L	5.0	1.1	1		11/08/18 21:31	7439-96-5	
Total Hardness by 2340B, Dissolved	160	mg/L	2.0	0.15	1		11/08/18 21:31		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.74J	ug/L	1.0	0.25	1		10/25/18 14:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 14:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 14:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 14:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 14:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 14:38	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 14:38	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 14:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 14:38	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 14:38	56-23-5	
Chlorobenzene	0.77J	ug/L	2.4	0.71	1		10/25/18 14:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 14:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 14:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 14:38	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 14:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 14:38	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 14:38	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 14:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 14:38	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 14:38	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 14:38	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 14:38	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 14:38	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 14:38	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 14:38	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 14:38	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 14:38	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 14:38	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 14:38	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 14:38	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 14:38	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 14:38	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 14:38	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 14:38	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 14:38	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 14:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 14:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 14:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 14:38	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 14:38	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-20B **Lab ID: 40178208011** Collected: 10/23/18 10:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 14:38	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 14:38	1634-04-4	
Naphthalene	12.3	ug/L	5.0	1.2	1		10/25/18 14:38	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 14:38	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 14:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 14:38	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 14:38	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 14:38	127-18-4	
Tetrahydrofuran	11.0J	ug/L	20.0	2.3	1		10/25/18 14:38	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 14:38	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 14:38	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 14:38	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 14:38	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 14:38	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 14:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 14:38	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 14:38	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 14:38	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 14:38	108-67-8	
Vinyl chloride	0.43J	ug/L	1.0	0.17	1		10/25/18 14:38	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 14:38	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 14:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/25/18 14:38	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		10/25/18 14:38	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/25/18 14:38	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.92	Std. Units			1		10/23/18 10:00		
Field Specific Conductance	547	umhos/cm			1		10/23/18 10:00		
Oxygen, Dissolved	0	mg/L			1		10/23/18 10:00	7782-44-7	
REDOX	-93	mV			1		10/23/18 10:00		
Turbidity	0	NTU			1		10/23/18 10:00		
Temperature, Water (C)	7.68	deg C			1		10/23/18 10:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	47.7	mg/L	10.0	2.5	5		10/30/18 20:28	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	158	mg/L	47.0	14.1	2		10/29/18 11:45		1q

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-20C **Lab ID: 40178208012** Collected: 10/23/18 10:25 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	22000	ug/L	118	35.4	1		11/08/18 21:34	7439-89-6	
Manganese, Dissolved	1460	ug/L	5.0	1.1	1		11/08/18 21:34	7439-96-5	
Total Hardness by 2340B, Dissolved	186	mg/L	2.0	0.15	1		11/08/18 21:34		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.0	ug/L	1.0	0.25	1		10/25/18 15:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 15:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 15:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 15:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 15:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 15:00	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 15:00	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 15:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 15:00	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 15:00	56-23-5	
Chlorobenzene	0.81J	ug/L	2.4	0.71	1		10/25/18 15:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 15:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 15:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 15:00	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 15:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 15:00	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 15:00	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 15:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 15:00	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 15:00	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 15:00	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 15:00	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 15:00	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 15:00	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 15:00	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 15:00	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 15:00	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 15:00	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 15:00	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 15:00	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 15:00	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 15:00	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 15:00	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 15:00	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 15:00	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 15:00	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 15:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 15:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 15:00	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 15:00	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-20C **Lab ID: 40178208012** Collected: 10/23/18 10:25 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 15:00	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 15:00	1634-04-4	
Naphthalene	7.7	ug/L	5.0	1.2	1		10/25/18 15:00	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 15:00	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 15:00	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 15:00	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 15:00	127-18-4	
Tetrahydrofuran	10.6J	ug/L	20.0	2.3	1		10/25/18 15:00	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 15:00	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 15:00	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 15:00	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 15:00	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 15:00	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 15:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 15:00	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 15:00	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 15:00	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 15:00	108-67-8	
Vinyl chloride	0.84J	ug/L	1.0	0.17	1		10/25/18 15:00	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 15:00	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 15:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/25/18 15:00	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		10/25/18 15:00	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/25/18 15:00	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.88	Std. Units			1		10/23/18 10:25		
Field Specific Conductance	630	umhos/cm			1		10/23/18 10:25		
Oxygen, Dissolved	0	mg/L			1		10/23/18 10:25	7782-44-7	
REDOX	-80	mV			1		10/23/18 10:25		
Turbidity	0	NTU			1		10/23/18 10:25		
Temperature, Water (C)	7.51	deg C			1		10/23/18 10:25		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	47.2	mg/L	10.0	2.5	5		10/30/18 20:42	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	187	mg/L	23.5	7.0	1		10/29/18 11:45		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-16C **Lab ID: 40178208013** Collected: 10/23/18 11:26 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	28000	ug/L	118	35.4	1		11/08/18 21:36	7439-89-6	
Manganese, Dissolved	2280	ug/L	5.0	1.1	1		11/08/18 21:36	7439-96-5	
Total Hardness by 2340B, Dissolved	241	mg/L	2.0	0.15	1		11/08/18 21:36		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.5	ug/L	1.0	0.25	1		10/25/18 15:21	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 15:21	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 15:21	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 15:21	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 15:21	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 15:21	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 15:21	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 15:21	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 15:21	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 15:21	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 15:21	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 15:21	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 15:21	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 15:21	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 15:21	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 15:21	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 15:21	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 15:21	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 15:21	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 15:21	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 15:21	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 15:21	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 15:21	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 15:21	75-71-8	
1,1-Dichloroethane	0.30J	ug/L	1.0	0.27	1		10/25/18 15:21	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 15:21	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 15:21	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 15:21	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 15:21	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 15:21	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 15:21	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 15:21	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 15:21	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 15:21	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 15:21	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 15:21	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 15:21	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 15:21	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 15:21	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 15:21	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-16C **Lab ID: 40178208013** Collected: 10/23/18 11:26 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 15:21	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 15:21	1634-04-4	
Naphthalene	4.5J	ug/L	5.0	1.2	1		10/25/18 15:21	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 15:21	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 15:21	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 15:21	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 15:21	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 15:21	127-18-4	
Tetrahydrofuran	16.6J	ug/L	20.0	2.3	1		10/25/18 15:21	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 15:21	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 15:21	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 15:21	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 15:21	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 15:21	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 15:21	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 15:21	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 15:21	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 15:21	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 15:21	108-67-8	
Vinyl chloride	0.35J	ug/L	1.0	0.17	1		10/25/18 15:21	75-01-4	
m&p-Xylene	1.6J	ug/L	2.0	0.47	1		10/25/18 15:21	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 15:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/25/18 15:21	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/25/18 15:21	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/25/18 15:21	2037-26-5	
Field Data Analytical Method:									
Field pH	7.01	Std. Units			1		10/23/18 11:26		
Field Specific Conductance	740	umhos/cm			1		10/23/18 11:26		
Oxygen, Dissolved	3.38	mg/L			1		10/23/18 11:26	7782-44-7	
REDOX	-85	mV			1		10/23/18 11:26		
Turbidity	0	NTU			1		10/23/18 11:26		
Temperature, Water (C)	7.5	deg C			1		10/23/18 11:26		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	43.7	mg/L	10.0	2.5	5		10/30/18 20:55	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	266	mg/L	23.5	7.0	1		10/29/18 11:46		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-16B **Lab ID: 40178208014** Collected: 10/23/18 11:40 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	38700	ug/L	118	35.4	1		11/08/18 21:39	7439-89-6	
Manganese, Dissolved	4130	ug/L	5.0	1.1	1		11/08/18 21:39	7439-96-5	
Total Hardness by 2340B, Dissolved	240	mg/L	2.0	0.15	1		11/08/18 21:39		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.3	ug/L	1.0	0.25	1		10/25/18 11:47	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 11:47	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 11:47	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 11:47	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 11:47	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 11:47	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:47	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 11:47	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 11:47	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 11:47	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:47	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 11:47	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 11:47	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 11:47	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 11:47	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 11:47	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 11:47	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 11:47	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 11:47	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 11:47	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:47	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 11:47	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 11:47	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 11:47	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 11:47	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:47	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 11:47	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 11:47	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 11:47	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:47	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 11:47	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 11:47	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 11:47	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 11:47	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 11:47	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 11:47	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 11:47	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 11:47	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 11:47	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 11:47	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-16B **Lab ID: 40178208014** Collected: 10/23/18 11:40 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 11:47	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 11:47	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 11:47	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 11:47	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 11:47	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 11:47	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:47	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 11:47	127-18-4	
Tetrahydrofuran	8.3J	ug/L	20.0	2.3	1		10/25/18 11:47	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 11:47	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 11:47	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 11:47	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 11:47	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 11:47	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 11:47	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 11:47	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 11:47	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 11:47	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 11:47	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 11:47	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 11:47	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 11:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/25/18 11:47	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/25/18 11:47	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/25/18 11:47	2037-26-5	
Field Data Analytical Method:									
Field pH	7.06	Std. Units			1		10/23/18 11:40		
Field Specific Conductance	758	umhos/cm			1		10/23/18 11:40		
Oxygen, Dissolved	0	mg/L			1		10/23/18 11:40	7782-44-7	
REDOX	-124	mV			1		10/23/18 11:40		
Turbidity	0	NTU			1		10/23/18 11:40		
Temperature, Water (C)	7.43	deg C			1		10/23/18 11:40		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	39.2	mg/L	10.0	2.5	5		10/30/18 21:09	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	261	mg/L	23.5	7.0	1		10/29/18 11:46		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-16A **Lab ID: 40178208015** Collected: 10/23/18 12:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	1480	ug/L	118	35.4	1		11/08/18 21:41	7439-89-6	
Manganese, Dissolved	2470	ug/L	5.0	1.1	1		11/08/18 21:41	7439-96-5	
Total Hardness by 2340B, Dissolved	126	mg/L	2.0	0.15	1		11/08/18 21:41		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.43J	ug/L	1.0	0.25	1		10/25/18 12:08	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 12:08	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 12:08	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 12:08	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 12:08	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 12:08	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 12:08	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 12:08	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 12:08	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 12:08	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 12:08	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 12:08	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 12:08	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 12:08	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 12:08	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 12:08	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 12:08	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 12:08	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 12:08	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 12:08	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 12:08	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 12:08	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 12:08	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 12:08	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 12:08	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 12:08	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 12:08	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 12:08	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 12:08	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 12:08	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 12:08	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 12:08	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 12:08	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 12:08	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 12:08	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 12:08	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 12:08	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 12:08	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 12:08	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 12:08	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-16A **Lab ID: 40178208015** Collected: 10/23/18 12:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 12:08	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 12:08	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 12:08	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 12:08	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 12:08	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 12:08	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 12:08	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 12:08	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 12:08	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 12:08	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 12:08	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 12:08	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 12:08	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 12:08	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 12:08	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 12:08	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 12:08	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 12:08	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 12:08	108-67-8	
Vinyl chloride	0.27J	ug/L	1.0	0.17	1		10/25/18 12:08	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 12:08	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 12:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/25/18 12:08	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		10/25/18 12:08	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/25/18 12:08	2037-26-5	
Field Data Analytical Method:									
Field pH	7.15	Std. Units			1		10/23/18 12:00		
Field Specific Conductance	198	umhos/cm			1		10/23/18 12:00		
Oxygen, Dissolved	1.8	mg/L			1		10/23/18 12:00	7782-44-7	
REDOX	-3	mV			1		10/23/18 12:00		
Turbidity	0	NTU			1		10/23/18 12:00		
Temperature, Water (C)	8.61	deg C			1		10/23/18 12:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	14.8	mg/L	10.0	2.5	5		10/30/18 21:22	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	139	mg/L	23.5	7.0	1		10/29/18 11:47		1q

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-26B **Lab ID: 40178208016** Collected: 10/23/18 13:10 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	10700	ug/L	118	35.4	1		11/08/18 21:48	7439-89-6	
Manganese, Dissolved	984	ug/L	5.0	1.1	1		11/08/18 21:48	7439-96-5	
Total Hardness by 2340B, Dissolved	21.4	mg/L	2.0	0.15	1		11/08/18 21:48		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/25/18 15:43	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 15:43	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 15:43	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 15:43	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 15:43	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 15:43	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 15:43	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 15:43	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 15:43	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 15:43	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 15:43	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 15:43	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 15:43	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 15:43	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 15:43	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 15:43	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 15:43	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 15:43	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 15:43	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 15:43	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 15:43	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 15:43	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 15:43	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 15:43	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 15:43	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 15:43	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 15:43	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 15:43	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 15:43	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 15:43	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 15:43	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 15:43	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 15:43	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 15:43	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 15:43	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 15:43	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 15:43	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 15:43	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 15:43	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 15:43	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-26B **Lab ID: 40178208016** Collected: 10/23/18 13:10 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 15:43	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 15:43	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 15:43	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 15:43	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 15:43	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 15:43	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 15:43	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 15:43	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 15:43	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 15:43	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 15:43	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 15:43	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 15:43	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 15:43	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 15:43	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 15:43	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 15:43	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 15:43	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 15:43	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 15:43	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 15:43	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 15:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/25/18 15:43	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/25/18 15:43	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/25/18 15:43	2037-26-5	
Field Data Analytical Method:									
Field pH	6.42	Std. Units			1		10/23/18 13:10		
Field Specific Conductance	427	umhos/cm			1		10/23/18 13:10		
Oxygen, Dissolved	3.82	mg/L			1		10/23/18 13:10	7782-44-7	
REDOX	15	mV			1		10/23/18 13:10		
Turbidity	0	NTU			1		10/23/18 13:10		
Temperature, Water (C)	10.29	deg C			1		10/23/18 13:10		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	88.0	mg/L	10.0	2.5	5		10/30/18 21:35	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	40.7	mg/L	23.5	7.0	1		10/29/18 11:50		1q

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-26C **Lab ID: 40178208017** Collected: 10/23/18 13:04 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	930	ug/L	118	35.4	1		11/08/18 21:51	7439-89-6	
Manganese, Dissolved	2600	ug/L	5.0	1.1	1		11/08/18 21:51	7439-96-5	
Total Hardness by 2340B, Dissolved	235	mg/L	2.0	0.15	1		11/08/18 21:51		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.95J	ug/L	1.0	0.25	1		10/25/18 16:04	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 16:04	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 16:04	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 16:04	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 16:04	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 16:04	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 16:04	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 16:04	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 16:04	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 16:04	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 16:04	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 16:04	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 16:04	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 16:04	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 16:04	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 16:04	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 16:04	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 16:04	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 16:04	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 16:04	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 16:04	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 16:04	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 16:04	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 16:04	75-71-8	
1,1-Dichloroethane	0.73J	ug/L	1.0	0.27	1		10/25/18 16:04	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 16:04	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 16:04	75-35-4	
cis-1,2-Dichloroethene	0.61J	ug/L	1.0	0.27	1		10/25/18 16:04	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 16:04	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 16:04	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 16:04	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 16:04	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 16:04	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 16:04	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 16:04	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 16:04	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 16:04	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 16:04	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 16:04	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 16:04	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178208

Sample: MW-26C **Lab ID: 40178208017** Collected: 10/23/18 13:04 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 16:04	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 16:04	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 16:04	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 16:04	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 16:04	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 16:04	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 16:04	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 16:04	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 16:04	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 16:04	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 16:04	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 16:04	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 16:04	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 16:04	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 16:04	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 16:04	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 16:04	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 16:04	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 16:04	108-67-8	
Vinyl chloride	5.1	ug/L	1.0	0.17	1		10/25/18 16:04	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 16:04	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 16:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/25/18 16:04	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/25/18 16:04	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/25/18 16:04	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.11	Std. Units			1		10/23/18 13:04		
Field Specific Conductance	516	umhos/cm			1		10/23/18 13:04		
Oxygen, Dissolved	2.74	mg/L			1		10/23/18 13:04	7782-44-7	
REDOX	-41	mV			1		10/23/18 13:04		
Turbidity	0	NTU			1		10/23/18 13:04		
Temperature, Water (C)	7.58	deg C			1		10/23/18 13:04		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	22.8	mg/L	2.0	0.50	1		10/30/18 22:29	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	232	mg/L	47.0	14.1	2		10/29/18 11:50		1q

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-27B **Lab ID: 40178208018** Collected: 10/23/18 13:33 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	41.2J	ug/L	118	35.4	1		11/08/18 21:53	7439-89-6	
Manganese, Dissolved	175	ug/L	5.0	1.1	1		11/08/18 21:53	7439-96-5	
Total Hardness by 2340B, Dissolved	89.6	mg/L	2.0	0.15	1		11/08/18 21:53		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/25/18 16:26	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 16:26	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 16:26	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 16:26	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 16:26	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 16:26	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 16:26	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 16:26	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 16:26	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 16:26	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 16:26	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 16:26	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 16:26	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 16:26	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 16:26	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 16:26	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 16:26	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 16:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 16:26	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 16:26	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 16:26	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 16:26	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 16:26	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 16:26	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 16:26	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 16:26	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 16:26	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 16:26	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 16:26	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 16:26	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 16:26	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 16:26	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 16:26	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 16:26	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 16:26	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 16:26	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 16:26	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 16:26	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 16:26	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 16:26	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-27B **Lab ID: 40178208018** Collected: 10/23/18 13:33 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 16:26	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 16:26	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 16:26	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 16:26	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 16:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 16:26	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 16:26	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 16:26	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 16:26	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 16:26	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 16:26	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 16:26	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 16:26	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 16:26	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 16:26	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 16:26	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 16:26	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 16:26	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 16:26	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 16:26	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 16:26	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 16:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/25/18 16:26	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/25/18 16:26	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/25/18 16:26	2037-26-5	
Field Data Analytical Method:									
Field pH	7.59	Std. Units			1		10/23/18 13:33		
Field Specific Conductance	218	umhos/cm			1		10/23/18 13:33		
Oxygen, Dissolved	0	mg/L			1		10/23/18 13:33	7782-44-7	
REDOX	-69	mV			1		10/23/18 13:33		
Turbidity	0	NTU			1		10/23/18 13:33		
Temperature, Water (C)	8	deg C			1		10/23/18 13:33		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	5.0	mg/L	2.0	0.50	1		10/30/18 22:42	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	79.7	mg/L	23.5	7.0	1		10/29/18 11:52		1q

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-25B **Lab ID: 40178208019** Collected: 10/23/18 13:52 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	<9.7	ug/L	40.0	9.7	1		11/08/18 21:55	7440-42-8	
Iron, Dissolved	<35.4	ug/L	118	35.4	1		11/08/18 21:55	7439-89-6	
Manganese, Dissolved	190	ug/L	5.0	1.1	1		11/08/18 21:55	7439-96-5	
Total Hardness by 2340B, Dissolved	166	mg/L	2.0	0.15	1		11/08/18 21:55		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/25/18 16:47	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 16:47	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 16:47	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 16:47	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 16:47	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 16:47	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 16:47	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 16:47	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 16:47	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 16:47	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 16:47	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 16:47	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 16:47	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 16:47	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 16:47	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 16:47	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 16:47	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 16:47	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 16:47	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 16:47	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 16:47	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 16:47	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 16:47	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 16:47	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 16:47	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 16:47	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 16:47	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 16:47	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 16:47	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 16:47	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 16:47	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 16:47	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 16:47	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 16:47	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 16:47	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 16:47	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 16:47	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 16:47	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 16:47	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-25B **Lab ID: 40178208019** Collected: 10/23/18 13:52 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 16:47	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 16:47	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 16:47	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 16:47	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 16:47	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 16:47	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 16:47	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 16:47	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 16:47	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 16:47	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 16:47	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 16:47	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 16:47	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 16:47	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 16:47	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 16:47	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 16:47	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 16:47	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 16:47	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 16:47	108-67-8	
Vinyl chloride	1.6	ug/L	1.0	0.17	1		10/25/18 16:47	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 16:47	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 16:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/25/18 16:47	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/25/18 16:47	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/25/18 16:47	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.93	Std. Units			1		10/23/18 13:52		
Field Specific Conductance	374	umhos/cm			1		10/23/18 13:52		
Oxygen, Dissolved	0	mg/L			1		10/23/18 13:52	7782-44-7	
REDOX	-41	mV			1		10/23/18 13:52		
Turbidity	N	NTU			1		10/23/18 13:52		
Temperature, Water (C)	7.58	deg C			1		10/23/18 13:52		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	16.5	mg/L	10.0	2.5	5		10/30/18 22:55	16887-00-6	M0
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	163	mg/L	23.5	7.0	1		10/29/18 11:52		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-18A **Lab ID: 40178208020** Collected: 10/23/18 14:20 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	2050	ug/L	118	35.4	1		11/08/18 21:58	7439-89-6	
Manganese, Dissolved	1470	ug/L	5.0	1.1	1		11/08/18 21:58	7439-96-5	
Total Hardness by 2340B, Dissolved	233	mg/L	2.0	0.15	1		11/08/18 21:58		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		10/25/18 12:30	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 12:30	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 12:30	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 12:30	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 12:30	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 12:30	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 12:30	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 12:30	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 12:30	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 12:30	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 12:30	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 12:30	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 12:30	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 12:30	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 12:30	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 12:30	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 12:30	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 12:30	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 12:30	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 12:30	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 12:30	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 12:30	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 12:30	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 12:30	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 12:30	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 12:30	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 12:30	75-35-4	
cis-1,2-Dichloroethene	4.9	ug/L	1.0	0.27	1		10/25/18 12:30	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 12:30	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 12:30	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 12:30	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 12:30	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 12:30	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 12:30	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 12:30	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 12:30	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 12:30	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 12:30	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 12:30	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 12:30	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-18A **Lab ID: 40178208020** Collected: 10/23/18 14:20 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 12:30	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 12:30	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 12:30	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 12:30	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 12:30	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 12:30	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 12:30	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 12:30	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 12:30	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 12:30	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 12:30	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 12:30	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 12:30	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 12:30	79-00-5	
Trichloroethene	3.9	ug/L	1.0	0.26	1		10/25/18 12:30	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 12:30	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 12:30	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 12:30	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 12:30	108-67-8	
Vinyl chloride	0.22J	ug/L	1.0	0.17	1		10/25/18 12:30	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 12:30	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 12:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/25/18 12:30	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		10/25/18 12:30	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/25/18 12:30	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.55	Std. Units			1		10/23/18 14:20		
Field Specific Conductance	642	umhos/cm			1		10/23/18 14:20		
Oxygen, Dissolved	0.6	mg/L			1		10/23/18 14:20	7782-44-7	
REDOX	-46	mV			1		10/23/18 14:20		
Turbidity	0	NTU			1		10/23/18 14:20		
Temperature, Water (C)	9.15	deg C			1		10/23/18 14:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	81.2	mg/L	10.0	2.5	5		10/31/18 13:15	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	164	mg/L	23.5	7.0	1		10/29/18 11:53		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-18C **Lab ID: 40178208021** Collected: 10/23/18 15:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	141	ug/L	40.0	9.7	1		11/08/18 22:05	7440-42-8	
Iron, Dissolved	<35.4	ug/L	118	35.4	1		11/08/18 22:05	7439-89-6	
Manganese, Dissolved	1490	ug/L	5.0	1.1	1		11/08/18 22:05	7439-96-5	
Total Hardness by 2340B, Dissolved	315	mg/L	2.0	0.15	1		11/08/18 22:05		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.42J	ug/L	1.0	0.25	1		10/25/18 18:31	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 18:31	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 18:31	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 18:31	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 18:31	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 18:31	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 18:31	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 18:31	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 18:31	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 18:31	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 18:31	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 18:31	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 18:31	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 18:31	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 18:31	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 18:31	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 18:31	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 18:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 18:31	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 18:31	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 18:31	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 18:31	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 18:31	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 18:31	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 18:31	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 18:31	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 18:31	75-35-4	
cis-1,2-Dichloroethene	0.40J	ug/L	1.0	0.27	1		10/25/18 18:31	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 18:31	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 18:31	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 18:31	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 18:31	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 18:31	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 18:31	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 18:31	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 18:31	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 18:31	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 18:31	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 18:31	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-18C **Lab ID: 40178208021** Collected: 10/23/18 15:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 18:31	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 18:31	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 18:31	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 18:31	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 18:31	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 18:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 18:31	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 18:31	79-34-5	
Tetrachloroethene	0.35J	ug/L	1.1	0.33	1		10/25/18 18:31	127-18-4	
Tetrahydrofuran	3.1J	ug/L	20.0	2.3	1		10/25/18 18:31	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 18:31	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 18:31	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 18:31	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 18:31	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 18:31	79-00-5	
Trichloroethene	6.1	ug/L	1.0	0.26	1		10/25/18 18:31	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 18:31	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 18:31	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 18:31	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 18:31	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 18:31	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 18:31	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 18:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/25/18 18:31	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		10/25/18 18:31	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/25/18 18:31	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.22	Std. Units			1		10/23/18 15:00		
Field Specific Conductance	777	umhos/cm			1		10/23/18 15:00		
Oxygen, Dissolved	0.59	mg/L			1		10/23/18 15:00	7782-44-7	
REDOX	11	mV			1		10/23/18 15:00		
Turbidity	0	NTU			1		10/23/18 15:00		
Temperature, Water (C)	7.4	deg C			1		10/23/18 15:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	83.8	mg/L	10.0	2.5	5		10/31/18 13:27	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	276	mg/L	23.5	7.0	1		10/29/18 11:54		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-18B **Lab ID: 40178208022** Collected: 10/23/18 14:30 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	38.3J	ug/L	118	35.4	1		11/08/18 22:17	7439-89-6	
Manganese, Dissolved	2110	ug/L	5.0	1.1	1		11/08/18 22:17	7439-96-5	
Total Hardness by 2340B, Dissolved	305	mg/L	2.0	0.15	1		11/08/18 22:17		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.54J	ug/L	1.0	0.25	1		10/26/18 09:37	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/26/18 09:37	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/26/18 09:37	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/26/18 09:37	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/26/18 09:37	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/26/18 09:37	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/26/18 09:37	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/26/18 09:37	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/26/18 09:37	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/26/18 09:37	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/26/18 09:37	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/26/18 09:37	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/26/18 09:37	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/26/18 09:37	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/26/18 09:37	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/26/18 09:37	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/26/18 09:37	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/26/18 09:37	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/26/18 09:37	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/26/18 09:37	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/26/18 09:37	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/26/18 09:37	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/26/18 09:37	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/26/18 09:37	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/26/18 09:37	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/26/18 09:37	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/26/18 09:37	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/26/18 09:37	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/26/18 09:37	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/26/18 09:37	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/26/18 09:37	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/26/18 09:37	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/26/18 09:37	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/26/18 09:37	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/26/18 09:37	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/26/18 09:37	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/26/18 09:37	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/26/18 09:37	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/26/18 09:37	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/26/18 09:37	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-18B **Lab ID: 40178208022** Collected: 10/23/18 14:30 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/26/18 09:37	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/26/18 09:37	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/26/18 09:37	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/26/18 09:37	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/26/18 09:37	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/26/18 09:37	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/26/18 09:37	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/26/18 09:37	127-18-4	
Tetrahydrofuran	4.0J	ug/L	20.0	2.3	1		10/26/18 09:37	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/26/18 09:37	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/26/18 09:37	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/26/18 09:37	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/26/18 09:37	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/26/18 09:37	79-00-5	
Trichloroethene	2.2	ug/L	1.0	0.26	1		10/26/18 09:37	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/26/18 09:37	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/26/18 09:37	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/26/18 09:37	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/26/18 09:37	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/26/18 09:37	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/26/18 09:37	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/26/18 09:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/26/18 09:37	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		10/26/18 09:37	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		10/26/18 09:37	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.33	Std. Units			1		10/23/18 14:30		
Field Specific Conductance	731	umhos/cm			1		10/23/18 14:30		
Oxygen, Dissolved	0.82	mg/L			1		10/23/18 14:30	7782-44-7	
REDOX	-36	mV			1		10/23/18 14:30		
Turbidity	0	NTU			1		10/23/18 14:30		
Temperature, Water (C)	7.78	deg C			1		10/23/18 14:30		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	51.5	mg/L	10.0	2.5	5		10/31/18 13:39	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	306	mg/L	23.5	7.0	1		10/29/18 11:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: TRIP BLANK **Lab ID: 40178208023** Collected: 10/23/18 00:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		10/25/18 11:25	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		10/25/18 11:25	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		10/25/18 11:25	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		10/25/18 11:25	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		10/25/18 11:25	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		10/25/18 11:25	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:25	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		10/25/18 11:25	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		10/25/18 11:25	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		10/25/18 11:25	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:25	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		10/25/18 11:25	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		10/25/18 11:25	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		10/25/18 11:25	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		10/25/18 11:25	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		10/25/18 11:25	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		10/25/18 11:25	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		10/25/18 11:25	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		10/25/18 11:25	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		10/25/18 11:25	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		10/25/18 11:25	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		10/25/18 11:25	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		10/25/18 11:25	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		10/25/18 11:25	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 11:25	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:25	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		10/25/18 11:25	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		10/25/18 11:25	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		10/25/18 11:25	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:25	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		10/25/18 11:25	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		10/25/18 11:25	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		10/25/18 11:25	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		10/25/18 11:25	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		10/25/18 11:25	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		10/25/18 11:25	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/25/18 11:25	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		10/25/18 11:25	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		10/25/18 11:25	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		10/25/18 11:25	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		10/25/18 11:25	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/25/18 11:25	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/25/18 11:25	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		10/25/18 11:25	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		10/25/18 11:25	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		10/25/18 11:25	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: TRIP BLANK **Lab ID: 40178208023** Collected: 10/23/18 00:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		10/25/18 11:25	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		10/25/18 11:25	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		10/25/18 11:25	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		10/25/18 11:25	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		10/25/18 11:25	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/25/18 11:25	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		10/25/18 11:25	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		10/25/18 11:25	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		10/25/18 11:25	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		10/25/18 11:25	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		10/25/18 11:25	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/25/18 11:25	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/25/18 11:25	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/25/18 11:25	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/25/18 11:25	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/25/18 11:25	95-47-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-19B **Lab ID: 40178208024** Collected: 10/23/18 00:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.93	Std. Units			1		10/23/18 00:00		
Field Specific Conductance	725	umhos/cm			1		10/23/18 00:00		
Oxygen, Dissolved	1.53	mg/L			1		10/23/18 00:00	7782-44-7	
REDOX	-74	mV			1		10/23/18 00:00		
Turbidity	0	NTU			1		10/23/18 00:00		
Temperature, Water (C)	8.38	deg C			1		10/23/18 00:00		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-19C **Lab ID: 40178208025** Collected: 10/23/18 00:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	6.94	Std. Units			1		10/23/18 00:00		
Field Specific Conductance	768	umhos/cm			1		10/23/18 00:00		
Oxygen, Dissolved	0.87	mg/L			1		10/23/18 00:00	7782-44-7	
REDOX	-88	mV			1		10/23/18 00:00		
Turbidity	0	NTU			1		10/23/18 00:00		
Temperature, Water (C)	8.66	deg C			1		10/23/18 00:00		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Sample: MW-28B **Lab ID: 40178208026** Collected: 10/22/18 00:00 Received: 10/24/18 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	7.06	Std. Units			1		10/22/18 00:00		
Field Specific Conductance	220	umhos/cm			1		10/22/18 00:00		
Oxygen, Dissolved	2.86	mg/L			1		10/22/18 00:00	7782-44-7	
REDOX	-68	mV			1		10/22/18 00:00		
Turbidity	0	NTU			1		10/22/18 00:00		
Temperature, Water (C)	9.78	deg C			1		10/22/18 00:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

QC Batch: 305982 Analysis Method: EPA 6010
 QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
 Associated Lab Samples: 40178208001, 40178208002, 40178208003, 40178208004, 40178208005, 40178208006, 40178208007, 40178208008, 40178208009, 40178208010, 40178208011, 40178208012, 40178208013, 40178208014, 40178208015, 40178208016, 40178208017, 40178208018, 40178208019, 40178208020

METHOD BLANK: 1788772 Matrix: Water
 Associated Lab Samples: 40178208001, 40178208002, 40178208003, 40178208004, 40178208005, 40178208006, 40178208007, 40178208008, 40178208009, 40178208010, 40178208011, 40178208012, 40178208013, 40178208014, 40178208015, 40178208016, 40178208017, 40178208018, 40178208019, 40178208020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<9.7	40.0	11/08/18 20:53	
Iron, Dissolved	ug/L	<35.4	118	11/08/18 20:53	
Manganese, Dissolved	ug/L	<1.1	5.0	11/08/18 20:53	
Total Hardness by 2340B, Dissolved	mg/L	0.19J	2.0	11/08/18 20:53	

LABORATORY CONTROL SAMPLE: 1788773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	500	489	98	80-120	
Iron, Dissolved	ug/L	5000	4960	99	80-120	
Manganese, Dissolved	ug/L	500	485	97	80-120	
Total Hardness by 2340B, Dissolved	mg/L		32.9			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1788774 1788775

Parameter	Units	1788774		1788775		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40178208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Boron, Dissolved	ug/L	2090	500	500	2540	2490	90	80	75-125	2	20	
Iron, Dissolved	ug/L	57800	5000	5000	63600	62700	117	98	75-125	1	20	
Manganese, Dissolved	ug/L	625	500	500	1090	1080	94	92	75-125	1	20	
Total Hardness by 2340B, Dissolved	mg/L	1040			1090	1070				2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178208

QC Batch: 305983 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40178208021, 40178208022

METHOD BLANK: 1788776 Matrix: Water
Associated Lab Samples: 40178208021, 40178208022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<9.7	40.0	11/09/18 15:28	
Iron, Dissolved	ug/L	<35.4	118	11/09/18 15:28	
Manganese, Dissolved	ug/L	<1.1	5.0	11/09/18 15:28	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	2.0	11/09/18 15:28	

LABORATORY CONTROL SAMPLE: 1788777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	500	486	97	80-120	
Iron, Dissolved	ug/L	5000	4910	98	80-120	
Manganese, Dissolved	ug/L	500	478	96	80-120	
Total Hardness by 2340B, Dissolved	mg/L		32.4			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1788778 1788779

Parameter	Units	40178208021		1788778		1788779		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Boron, Dissolved	ug/L	141	500	500	626	628	97	97	75-125	0	20		
Iron, Dissolved	ug/L	<35.4	5000	5000	4850	4900	97	98	75-125	1	20		
Manganese, Dissolved	ug/L	1490	500	500	1930	1950	89	93	75-125	1	20		
Total Hardness by 2340B, Dissolved	mg/L	315			338	340				0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

QC Batch: 304207 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40178208001, 40178208002, 40178208003, 40178208004, 40178208005, 40178208006, 40178208007,
 40178208008, 40178208009, 40178208010, 40178208011, 40178208012, 40178208013, 40178208014,
 40178208015, 40178208016, 40178208017, 40178208018, 40178208019, 40178208020

METHOD BLANK: 1777240 Matrix: Water

Associated Lab Samples: 40178208001, 40178208002, 40178208003, 40178208004, 40178208005, 40178208006, 40178208007,
 40178208008, 40178208009, 40178208010, 40178208011, 40178208012, 40178208013, 40178208014,
 40178208015, 40178208016, 40178208017, 40178208018, 40178208019, 40178208020

Parameter	Units	Blank Reporting		Analyzed	Qualifiers
		Result	Limit		
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/25/18 08:12	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/25/18 08:12	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/25/18 08:12	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/25/18 08:12	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/25/18 08:12	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/25/18 08:12	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/25/18 08:12	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	10/25/18 08:12	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/25/18 08:12	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/25/18 08:12	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/25/18 08:12	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/25/18 08:12	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/25/18 08:12	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/25/18 08:12	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/25/18 08:12	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/25/18 08:12	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/25/18 08:12	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/25/18 08:12	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/25/18 08:12	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/25/18 08:12	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/25/18 08:12	
2-Chlorotoluene	ug/L	<0.93	5.0	10/25/18 08:12	
4-Chlorotoluene	ug/L	<0.76	2.5	10/25/18 08:12	
Benzene	ug/L	<0.25	1.0	10/25/18 08:12	
Bromobenzene	ug/L	<0.24	1.0	10/25/18 08:12	
Bromochloromethane	ug/L	<0.36	5.0	10/25/18 08:12	
Bromodichloromethane	ug/L	<0.36	1.2	10/25/18 08:12	
Bromoform	ug/L	<4.0	13.2	10/25/18 08:12	
Bromomethane	ug/L	<0.97	5.0	10/25/18 08:12	
Carbon tetrachloride	ug/L	<0.17	1.0	10/25/18 08:12	
Chlorobenzene	ug/L	<0.71	2.4	10/25/18 08:12	
Chloroethane	ug/L	<1.3	5.0	10/25/18 08:12	
Chloroform	ug/L	<1.3	5.0	10/25/18 08:12	
Chloromethane	ug/L	<2.2	7.3	10/25/18 08:12	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/25/18 08:12	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/25/18 08:12	
Dibromochloromethane	ug/L	<2.6	8.7	10/25/18 08:12	
Dibromomethane	ug/L	<0.94	3.1	10/25/18 08:12	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

METHOD BLANK: 1777240

Matrix: Water

Associated Lab Samples: 40178208001, 40178208002, 40178208003, 40178208004, 40178208005, 40178208006, 40178208007, 40178208008, 40178208009, 40178208010, 40178208011, 40178208012, 40178208013, 40178208014, 40178208015, 40178208016, 40178208017, 40178208018, 40178208019, 40178208020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/25/18 08:12	
Diisopropyl ether	ug/L	<1.9	6.3	10/25/18 08:12	
Ethylbenzene	ug/L	<0.22	1.0	10/25/18 08:12	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/25/18 08:12	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/25/18 08:12	
m&p-Xylene	ug/L	<0.47	2.0	10/25/18 08:12	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/25/18 08:12	
Methylene Chloride	ug/L	<0.58	5.0	10/25/18 08:12	
n-Butylbenzene	ug/L	<0.71	2.4	10/25/18 08:12	
n-Propylbenzene	ug/L	<0.81	5.0	10/25/18 08:12	
Naphthalene	ug/L	<1.2	5.0	10/25/18 08:12	
o-Xylene	ug/L	<0.26	1.0	10/25/18 08:12	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/25/18 08:12	
sec-Butylbenzene	ug/L	<0.85	5.0	10/25/18 08:12	
Styrene	ug/L	<0.47	1.6	10/25/18 08:12	
tert-Butylbenzene	ug/L	<0.30	1.0	10/25/18 08:12	
Tetrachloroethene	ug/L	<0.33	1.1	10/25/18 08:12	
Tetrahydrofuran	ug/L	<2.3	20.0	10/25/18 08:12	
Toluene	ug/L	<0.17	5.0	10/25/18 08:12	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/25/18 08:12	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/25/18 08:12	
Trichloroethene	ug/L	<0.26	1.0	10/25/18 08:12	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/25/18 08:12	
Vinyl chloride	ug/L	<0.17	1.0	10/25/18 08:12	
4-Bromofluorobenzene (S)	%	94	70-130	10/25/18 08:12	
Dibromofluoromethane (S)	%	108	70-130	10/25/18 08:12	
Toluene-d8 (S)	%	99	70-130	10/25/18 08:12	

LABORATORY CONTROL SAMPLE: 1777241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.0	112	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	67-130	
1,1,2-Trichloroethane	ug/L	50	47.7	95	70-130	
1,1-Dichloroethane	ug/L	50	51.5	103	70-134	
1,1-Dichloroethene	ug/L	50	49.4	99	75-132	
1,2,4-Trichlorobenzene	ug/L	50	46.8	94	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.0	94	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	70-130	
1,2-Dichlorobenzene	ug/L	50	51.9	104	70-130	
1,2-Dichloroethane	ug/L	50	49.2	98	73-134	
1,2-Dichloropropane	ug/L	50	44.5	89	79-128	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

LABORATORY CONTROL SAMPLE: 1777241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.4	101	70-130	
Benzene	ug/L	50	51.5	103	69-137	
Bromodichloromethane	ug/L	50	49.4	99	70-130	
Bromoform	ug/L	50	51.4	103	64-133	
Bromomethane	ug/L	50	28.1	56	29-123	
Carbon tetrachloride	ug/L	50	55.1	110	73-142	
Chlorobenzene	ug/L	50	51.3	103	70-130	
Chloroethane	ug/L	50	43.1	86	59-133	
Chloroform	ug/L	50	50.7	101	80-129	
Chloromethane	ug/L	50	36.0	72	27-125	
cis-1,2-Dichloroethene	ug/L	50	50.2	100	70-134	
cis-1,3-Dichloropropene	ug/L	50	44.1	88	70-130	
Dibromochloromethane	ug/L	50	56.9	114	70-130	
Dichlorodifluoromethane	ug/L	50	28.6	57	12-127	
Ethylbenzene	ug/L	50	51.4	103	86-127	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	70-130	
m&p-Xylene	ug/L	100	105	105	70-131	
Methyl-tert-butyl ether	ug/L	50	45.1	90	65-136	
Methylene Chloride	ug/L	50	53.2	106	72-133	
o-Xylene	ug/L	50	50.9	102	70-130	
Styrene	ug/L	50	51.9	104	70-130	
Tetrachloroethene	ug/L	50	46.1	92	70-130	
Toluene	ug/L	50	49.5	99	84-124	
trans-1,2-Dichloroethene	ug/L	50	52.1	104	70-133	
trans-1,3-Dichloropropene	ug/L	50	43.8	88	67-130	
Trichloroethene	ug/L	50	49.7	99	70-130	
Trichlorofluoromethane	ug/L	50	52.9	106	69-147	
Vinyl chloride	ug/L	50	42.5	85	48-134	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777612 1777613

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40178208002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.24	50	50	55.4	56.7	111	113	70-136	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	45.8	47.6	92	95	67-133	4	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	46.0	47.5	92	95	70-130	3	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	52.2	54.1	104	108	70-139	4	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	50.5	52.3	101	105	72-137	4	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	46.9	48.6	94	97	68-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	45.9	47.0	92	94	60-130	2	21	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Parameter	Units	40178208002		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec						
MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777612 1777613														
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.6	49.6	97	99	70-130	2	20			
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.7	52.9	103	106	70-130	2	20			
1,2-Dichloroethane	ug/L	<0.28	50	50	48.7	49.2	97	98	71-137	1	20			
1,2-Dichloropropane	ug/L	<0.28	50	50	43.5	44.3	87	89	78-130	2	20			
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.5	51.9	101	104	70-130	3	20			
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.5	52.1	101	104	70-130	3	20			
Benzene	ug/L	0.40J	50	50	51.3	53.8	102	107	66-143	5	20			
Bromodichloromethane	ug/L	<0.36	50	50	48.5	50.3	97	101	70-130	4	20			
Bromoform	ug/L	<4.0	50	50	48.9	50.4	98	101	64-134	3	20			
Bromomethane	ug/L	<0.97	50	50	31.3	32.9	63	66	29-136	5	25			
Carbon tetrachloride	ug/L	<0.17	50	50	56.1	58.1	112	116	73-142	4	20			
Chlorobenzene	ug/L	<0.71	50	50	50.7	51.6	101	103	70-130	2	20			
Chloroethane	ug/L	<1.3	50	50	46.2	46.9	92	94	58-138	1	20			
Chloroform	ug/L	<1.3	50	50	50.2	51.7	100	103	80-131	3	20			
Chloromethane	ug/L	<2.2	50	50	40.4	42.5	81	85	24-125	5	20			
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	49.6	52.1	99	104	68-137	5	22			
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	43.2	45.2	86	90	70-130	5	20			
Dibromochloromethane	ug/L	<2.6	50	50	55.6	56.9	111	114	70-131	2	20			
Dichlorodifluoromethane	ug/L	<0.50	50	50	42.2	43.7	84	87	10-127	4	20			
Ethylbenzene	ug/L	<0.22	50	50	50.1	50.9	100	102	81-136	1	20			
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	51.9	53.4	104	107	70-132	3	20			
m&p-Xylene	ug/L	<0.47	100	100	103	106	103	106	70-135	3	20			
Methyl-tert-butyl ether	ug/L	<1.2	50	50	44.2	45.6	88	91	58-142	3	23			
Methylene Chloride	ug/L	<0.58	50	50	52.8	55.1	106	110	69-137	4	20			
o-Xylene	ug/L	<0.26	50	50	49.6	51.6	99	103	70-132	4	20			
Styrene	ug/L	<0.47	50	50	51.6	52.7	103	105	70-130	2	20			
Tetrachloroethene	ug/L	<0.33	50	50	45.6	46.7	91	93	70-132	2	20			
Toluene	ug/L	<0.17	50	50	48.5	50.2	97	100	81-130	4	20			
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	51.3	53.6	103	107	70-136	4	20			
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.0	44.2	86	88	67-130	3	20			
Trichloroethene	ug/L	<0.26	50	50	48.3	51.1	97	102	70-131	6	20			
Trichlorofluoromethane	ug/L	<0.21	50	50	54.0	56.1	108	112	66-150	4	20			
Vinyl chloride	ug/L	<0.17	50	50	46.3	48.0	93	96	46-134	4	20			
4-Bromofluorobenzene (S)	%						101	100	70-130					
Dibromofluoromethane (S)	%						106	109	70-130					
Toluene-d8 (S)	%						99	97	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178208

QC Batch: 304249 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40178208021, 40178208022, 40178208023

METHOD BLANK: 1777532 Matrix: Water
Associated Lab Samples: 40178208021, 40178208022, 40178208023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/25/18 08:04	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/25/18 08:04	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/25/18 08:04	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/25/18 08:04	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/25/18 08:04	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/25/18 08:04	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/25/18 08:04	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	10/25/18 08:04	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/25/18 08:04	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/25/18 08:04	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/25/18 08:04	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/25/18 08:04	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/25/18 08:04	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/25/18 08:04	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/25/18 08:04	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/25/18 08:04	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/25/18 08:04	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/25/18 08:04	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/25/18 08:04	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/25/18 08:04	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/25/18 08:04	
2-Chlorotoluene	ug/L	<0.93	5.0	10/25/18 08:04	
4-Chlorotoluene	ug/L	<0.76	2.5	10/25/18 08:04	
Benzene	ug/L	<0.25	1.0	10/25/18 08:04	
Bromobenzene	ug/L	<0.24	1.0	10/25/18 08:04	
Bromochloromethane	ug/L	<0.36	5.0	10/25/18 08:04	
Bromodichloromethane	ug/L	<0.36	1.2	10/25/18 08:04	
Bromoform	ug/L	<4.0	13.2	10/25/18 08:04	
Bromomethane	ug/L	<0.97	5.0	10/25/18 08:04	
Carbon tetrachloride	ug/L	<0.17	1.0	10/25/18 08:04	
Chlorobenzene	ug/L	<0.71	2.4	10/25/18 08:04	
Chloroethane	ug/L	<1.3	5.0	10/25/18 08:04	
Chloroform	ug/L	<1.3	5.0	10/25/18 08:04	
Chloromethane	ug/L	<2.2	7.3	10/25/18 08:04	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/25/18 08:04	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/25/18 08:04	
Dibromochloromethane	ug/L	<2.6	8.7	10/25/18 08:04	
Dibromomethane	ug/L	<0.94	3.1	10/25/18 08:04	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/25/18 08:04	
Diisopropyl ether	ug/L	<1.9	6.3	10/25/18 08:04	
Ethylbenzene	ug/L	<0.22	1.0	10/25/18 08:04	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

METHOD BLANK: 1777532

Matrix: Water

Associated Lab Samples: 40178208021, 40178208022, 40178208023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/25/18 08:04	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/25/18 08:04	
m&p-Xylene	ug/L	<0.47	2.0	10/25/18 08:04	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/25/18 08:04	
Methylene Chloride	ug/L	<0.58	5.0	10/25/18 08:04	
n-Butylbenzene	ug/L	<0.71	2.4	10/25/18 08:04	
n-Propylbenzene	ug/L	<0.81	5.0	10/25/18 08:04	
Naphthalene	ug/L	<1.2	5.0	10/25/18 08:04	
o-Xylene	ug/L	<0.26	1.0	10/25/18 08:04	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/25/18 08:04	
sec-Butylbenzene	ug/L	<0.85	5.0	10/25/18 08:04	
Styrene	ug/L	<0.47	1.6	10/25/18 08:04	
tert-Butylbenzene	ug/L	<0.30	1.0	10/25/18 08:04	
Tetrachloroethene	ug/L	<0.33	1.1	10/25/18 08:04	
Tetrahydrofuran	ug/L	<2.3	20.0	10/25/18 08:04	
Toluene	ug/L	<0.17	5.0	10/25/18 08:04	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/25/18 08:04	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/25/18 08:04	
Trichloroethene	ug/L	<0.26	1.0	10/25/18 08:04	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/25/18 08:04	
Vinyl chloride	ug/L	<0.17	1.0	10/25/18 08:04	
4-Bromofluorobenzene (S)	%	97	70-130	10/25/18 08:04	
Dibromofluoromethane (S)	%	94	70-130	10/25/18 08:04	
Toluene-d8 (S)	%	106	70-130	10/25/18 08:04	

LABORATORY CONTROL SAMPLE: 1777533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.1	96	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	49.0	98	67-130	
1,1,2-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1-Dichloroethane	ug/L	50	45.0	90	70-134	
1,1-Dichloroethene	ug/L	50	42.2	84	75-132	
1,2,4-Trichlorobenzene	ug/L	50	50.7	101	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.3	95	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	50.6	101	70-130	
1,2-Dichlorobenzene	ug/L	50	45.6	91	70-130	
1,2-Dichloroethane	ug/L	50	46.3	93	73-134	
1,2-Dichloropropane	ug/L	50	50.3	101	79-128	
1,3-Dichlorobenzene	ug/L	50	44.9	90	70-130	
1,4-Dichlorobenzene	ug/L	50	46.0	92	70-130	
Benzene	ug/L	50	46.9	94	69-137	
Bromodichloromethane	ug/L	50	54.9	110	70-130	
Bromoform	ug/L	50	57.5	115	64-133	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

LABORATORY CONTROL SAMPLE: 1777533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	28.0	56	29-123	
Carbon tetrachloride	ug/L	50	48.1	96	73-142	
Chlorobenzene	ug/L	50	49.6	99	70-130	
Chloroethane	ug/L	50	34.7	69	59-133	
Chloroform	ug/L	50	44.2	88	80-129	
Chloromethane	ug/L	50	25.1	50	27-125	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	70-134	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	70-130	
Dibromochloromethane	ug/L	50	50.5	101	70-130	
Dichlorodifluoromethane	ug/L	50	22.3	45	12-127	
Ethylbenzene	ug/L	50	55.1	110	86-127	
Isopropylbenzene (Cumene)	ug/L	50	57.0	114	70-130	
m&p-Xylene	ug/L	100	111	111	70-131	
Methyl-tert-butyl ether	ug/L	50	42.3	85	65-136	
Methylene Chloride	ug/L	50	41.5	83	72-133	
o-Xylene	ug/L	50	55.4	111	70-130	
Styrene	ug/L	50	56.7	113	70-130	
Tetrachloroethene	ug/L	50	54.6	109	70-130	
Toluene	ug/L	50	52.7	105	84-124	
trans-1,2-Dichloroethene	ug/L	50	43.4	87	70-133	
trans-1,3-Dichloropropene	ug/L	50	48.7	97	67-130	
Trichloroethene	ug/L	50	53.6	107	70-130	
Trichlorofluoromethane	ug/L	50	44.1	88	69-147	
Vinyl chloride	ug/L	50	32.1	64	48-134	
4-Bromofluorobenzene (S)	%			115	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777614 1777615

Parameter	Units	MS 40178247001		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.4	51.8	103	104	70-136	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	53.8	52.3	108	105	67-133	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	55.7	55.2	111	110	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	48.3	48.9	97	98	70-139	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	46.5	47.7	93	95	72-137	2	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	55.7	55.0	111	110	68-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	52.1	50.3	104	101	60-130	4	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	55.2	53.7	110	107	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	48.8	48.2	98	96	70-130	1	20	
1,2-Dichloroethane	ug/L	2.7	50	50	52.3	52.3	99	99	71-137	0	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	53.8	53.7	108	107	78-130	0	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	48.2	47.3	96	95	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Parameter	Units	40178247001		1777614		1777615		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
1,4-Dichlorobenzene	ug/L	<0.94	50	50	48.8	48.5	98	97	70-130	1	20		
Benzene	ug/L	<0.25	50	50	50.1	50.2	100	100	66-143	0	20		
Bromodichloromethane	ug/L	<0.36	50	50	57.3	56.4	115	113	70-130	2	20		
Bromoform	ug/L	<4.0	50	50	62.4	62.1	125	124	64-134	0	20		
Bromomethane	ug/L	<0.97	50	50	36.5	38.6	73	77	29-136	5	25		
Carbon tetrachloride	ug/L	<0.17	50	50	51.3	51.2	103	102	73-142	0	20		
Chlorobenzene	ug/L	<0.71	50	50	53.4	52.2	107	104	70-130	2	20		
Chloroethane	ug/L	<1.3	50	50	40.7	42.1	81	84	58-138	3	20		
Chloroform	ug/L	<1.3	50	50	46.3	47.0	93	94	80-131	1	20		
Chloromethane	ug/L	<2.2	50	50	33.0	33.4	66	67	24-125	1	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	47.6	48.2	95	96	68-137	1	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	56.0	55.3	112	111	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	53.8	52.7	108	105	70-131	2	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	35.9	36.1	72	72	10-127	1	20		
Ethylbenzene	ug/L	<0.22	50	50	58.3	57.7	117	115	81-136	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	60.0	59.6	120	119	70-132	1	20		
m&p-Xylene	ug/L	<0.47	100	100	117	117	117	117	70-135	0	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	46.1	45.9	92	92	58-142	0	23		
Methylene Chloride	ug/L	<0.58	50	50	44.8	46.5	90	93	69-137	4	20		
o-Xylene	ug/L	<0.26	50	50	59.1	59.0	118	118	70-132	0	20		
Styrene	ug/L	<0.47	50	50	60.4	59.7	121	119	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	58.5	57.3	117	115	70-132	2	20		
Toluene	ug/L	<0.17	50	50	55.5	55.3	111	111	81-130	0	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	47.8	48.1	96	96	70-136	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	52.4	51.9	105	104	67-130	1	20		
Trichloroethene	ug/L	<0.26	50	50	56.7	56.5	113	113	70-131	0	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	49.0	49.2	98	98	66-150	0	20		
Vinyl chloride	ug/L	<0.17	50	50	40.5	41.4	81	83	46-134	2	20		
4-Bromofluorobenzene (S)	%						112	114	70-130				
Dibromofluoromethane (S)	%						92	94	70-130				
Toluene-d8 (S)	%						107	107	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178208

QC Batch: 304495 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40178208001, 40178208002, 40178208003, 40178208004, 40178208005, 40178208006, 40178208007, 40178208008, 40178208009, 40178208010, 40178208011, 40178208012, 40178208013, 40178208014, 40178208015, 40178208016, 40178208017, 40178208018, 40178208019

METHOD BLANK: 1779427 Matrix: Water
Associated Lab Samples: 40178208001, 40178208002, 40178208003, 40178208004, 40178208005, 40178208006, 40178208007, 40178208008, 40178208009, 40178208010, 40178208011, 40178208012, 40178208013, 40178208014, 40178208015, 40178208016, 40178208017, 40178208018, 40178208019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/30/18 15:44	

LABORATORY CONTROL SAMPLE: 1779428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779429 1779430

Parameter	Units	40178207003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	44.1	100	151	153	107	109	90-110	1	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779431 1779432

Parameter	Units	40178208019 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	16.5	100	126	127	110	111	90-110	1	15	M0	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178208

QC Batch: 304533 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40178208020, 40178208021, 40178208022

METHOD BLANK: 1780034 Matrix: Water
Associated Lab Samples: 40178208020, 40178208021, 40178208022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/31/18 10:12	

LABORATORY CONTROL SAMPLE: 1780035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1780036 1780037

Parameter	Units	40178475002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	77.6	100	100	180	179	102	102	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1780038 1780039

Parameter	Units	40178261001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	256	400	400	653	656	99	100	90-110	0	15	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178208

QC Batch: 304501 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40178208001, 40178208002, 40178208003, 40178208004, 40178208005, 40178208006, 40178208007

METHOD BLANK: 1779534 Matrix: Water
Associated Lab Samples: 40178208001, 40178208002, 40178208003, 40178208004, 40178208005, 40178208006, 40178208007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<7.0	23.5	10/29/18 11:21	

LABORATORY CONTROL SAMPLE: 1779535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	94.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779536 1779537

Parameter	Units	40178202001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	438	500	500	981	964	109	105	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779538 1779539

Parameter	Units	40178208007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	105	100	100	198	205	93	99	90-110	3	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

QC Batch: 305603

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 40178208001, 40178208003, 40178208004

METHOD BLANK: 1785616

Matrix: Water

Associated Lab Samples: 40178208001, 40178208003, 40178208004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.25	0.50	11/06/18 13:29	

LABORATORY CONTROL SAMPLE: 1785617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785618 1785619

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40178207001	Result	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Nitrogen, Ammonia	mg/L	1.3	1.3	10	10	11.0	11.0	97	97	90-110	0	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40178208

QC Batch: 304304 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 40178208001, 40178208003, 40178208004

METHOD BLANK: 1777749 Matrix: Water
Associated Lab Samples: 40178208001, 40178208003, 40178208004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.22	0.73	10/25/18 16:12	

LABORATORY CONTROL SAMPLE: 1777750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777751 1777752

Parameter	Units	40178231001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, Kjeldahl, Total	mg/L	68.0	20	20	91.5	95.7	117	138	90-110	4	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777753 1777754

Parameter	Units	40178207001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, Kjeldahl, Total	mg/L	1.7	5	5	6.5	6.3	97	93	90-110	3	20	

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QUALIFIERS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q Analyte was measured in the associated method blank at a concentration of -16.0 mg/L.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178208001	MW-2A	EPA 6010	305982		
40178208002	MW-2B	EPA 6010	305982		
40178208003	MW-21A	EPA 6010	305982		
40178208004	MW-3A	EPA 6010	305982		
40178208005	MW-28A	EPA 6010	305982		
40178208006	MW-4A	EPA 6010	305982		
40178208007	MW-4A DUP	EPA 6010	305982		
40178208008	FIELD BLANK	EPA 6010	305982		
40178208009	MW-5A	EPA 6010	305982		
40178208010	MW-20A	EPA 6010	305982		
40178208011	MW-20B	EPA 6010	305982		
40178208012	MW-20C	EPA 6010	305982		
40178208013	MW-16C	EPA 6010	305982		
40178208014	MW-16B	EPA 6010	305982		
40178208015	MW-16A	EPA 6010	305982		
40178208016	MW-26B	EPA 6010	305982		
40178208017	MW-26C	EPA 6010	305982		
40178208018	MW-27B	EPA 6010	305982		
40178208019	MW-25B	EPA 6010	305982		
40178208020	MW-18A	EPA 6010	305982		
40178208021	MW-18C	EPA 6010	305983		
40178208022	MW-18B	EPA 6010	305983		
40178208001	MW-2A	EPA 8260	304207		
40178208002	MW-2B	EPA 8260	304207		
40178208003	MW-21A	EPA 8260	304207		
40178208004	MW-3A	EPA 8260	304207		
40178208005	MW-28A	EPA 8260	304207		
40178208006	MW-4A	EPA 8260	304207		
40178208007	MW-4A DUP	EPA 8260	304207		
40178208008	FIELD BLANK	EPA 8260	304207		
40178208009	MW-5A	EPA 8260	304207		
40178208010	MW-20A	EPA 8260	304207		
40178208011	MW-20B	EPA 8260	304207		
40178208012	MW-20C	EPA 8260	304207		
40178208013	MW-16C	EPA 8260	304207		
40178208014	MW-16B	EPA 8260	304207		
40178208015	MW-16A	EPA 8260	304207		
40178208016	MW-26B	EPA 8260	304207		
40178208017	MW-26C	EPA 8260	304207		
40178208018	MW-27B	EPA 8260	304207		
40178208019	MW-25B	EPA 8260	304207		
40178208020	MW-18A	EPA 8260	304207		
40178208021	MW-18C	EPA 8260	304249		
40178208022	MW-18B	EPA 8260	304249		
40178208023	TRIP BLANK	EPA 8260	304249		
40178208001	MW-2A				
40178208002	MW-2B				

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178208003	MW-21A				
40178208004	MW-3A				
40178208005	MW-28A				
40178208006	MW-4A				
40178208007	MW-4A DUP				
40178208009	MW-5A				
40178208010	MW-20A				
40178208011	MW-20B				
40178208012	MW-20C				
40178208013	MW-16C				
40178208014	MW-16B				
40178208015	MW-16A				
40178208016	MW-26B				
40178208017	MW-26C				
40178208018	MW-27B				
40178208019	MW-25B				
40178208020	MW-18A				
40178208021	MW-18C				
40178208022	MW-18B				
40178208024	MW-19B				
40178208025	MW-19C				
40178208026	MW-28B				
40178208001	MW-2A	EPA 300.0	304495		
40178208002	MW-2B	EPA 300.0	304495		
40178208003	MW-21A	EPA 300.0	304495		
40178208004	MW-3A	EPA 300.0	304495		
40178208005	MW-28A	EPA 300.0	304495		
40178208006	MW-4A	EPA 300.0	304495		
40178208007	MW-4A DUP	EPA 300.0	304495		
40178208008	FIELD BLANK	EPA 300.0	304495		
40178208009	MW-5A	EPA 300.0	304495		
40178208010	MW-20A	EPA 300.0	304495		
40178208011	MW-20B	EPA 300.0	304495		
40178208012	MW-20C	EPA 300.0	304495		
40178208013	MW-16C	EPA 300.0	304495		
40178208014	MW-16B	EPA 300.0	304495		
40178208015	MW-16A	EPA 300.0	304495		
40178208016	MW-26B	EPA 300.0	304495		
40178208017	MW-26C	EPA 300.0	304495		
40178208018	MW-27B	EPA 300.0	304495		
40178208019	MW-25B	EPA 300.0	304495		
40178208020	MW-18A	EPA 300.0	304533		
40178208021	MW-18C	EPA 300.0	304533		
40178208022	MW-18B	EPA 300.0	304533		
40178208001	MW-2A	EPA 310.2	304501		
40178208002	MW-2B	EPA 310.2	304501		
40178208003	MW-21A	EPA 310.2	304501		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40178208

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178208004	MW-3A	EPA 310.2	304501		
40178208005	MW-28A	EPA 310.2	304501		
40178208006	MW-4A	EPA 310.2	304501		
40178208007	MW-4A DUP	EPA 310.2	304501		
40178208008	FIELD BLANK	EPA 310.2	304502		
40178208009	MW-5A	EPA 310.2	304502		
40178208010	MW-20A	EPA 310.2	304502		
40178208011	MW-20B	EPA 310.2	304502		
40178208012	MW-20C	EPA 310.2	304502		
40178208013	MW-16C	EPA 310.2	304502		
40178208014	MW-16B	EPA 310.2	304502		
40178208015	MW-16A	EPA 310.2	304502		
40178208016	MW-26B	EPA 310.2	304502		
40178208017	MW-26C	EPA 310.2	304502		
40178208018	MW-27B	EPA 310.2	304502		
40178208019	MW-25B	EPA 310.2	304502		
40178208020	MW-18A	EPA 310.2	304502		
40178208021	MW-18C	EPA 310.2	304502		
40178208022	MW-18B	EPA 310.2	304502		
40178208001	MW-2A	EPA 350.1	305603		
40178208003	MW-21A	EPA 350.1	305603		
40178208004	MW-3A	EPA 350.1	305603		
40178208001	MW-2A	EPA 351.2	304304	EPA 351.2	304389
40178208003	MW-21A	EPA 351.2	304304	EPA 351.2	304389
40178208004	MW-3A	EPA 351.2	304304	EPA 351.2	304389

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(Please Print Clearly)

Company Name: **G.H.O**
 Branch/Location: **St. Paul**
 Project Contact: **G Anderson**
 Phone: **651-639-0913**
 Project Number: **1115796**
 Project Name: **Rhineland, LA**
 Project State: **WI**
 Sampled By (Print): **Ryan Adams**
 Sampled By (Sign): *[Signature]*



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40178208

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CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Analysis Requested	Filter Letter	Matrix	DATE	TIME	MATRIX
VOC + tetrahydrofuran			10/23/17	1530	G
Alkalinity/Chloride				1529	
Hardness				1545	
Fe/Mn				1600	
Boron				1636	
Ammonia-N /TKN			10/23/17	855	
				855	
				910	
				910	
				950	
				1000	
				1025	
				1126	

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD (billable)
 On your sample
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PAGE LAB #	CLIENT FIELD ID	COLLECTION DATE	TIME	MATRIX
001	W-181022-RA-01	10/23/17	1530	G
002	W-181022-RA-02		1529	
003	W-181022-RA-03		1545	
004	W-181022-RA-04		1600	
005	W-181022-RA-05		1636	
006	W-181023-RA-06	10/23/17	855	
007	W-181023-RA-07		855	
008	W-181023-RA-08		910	
009	W-181023-RA-09		910	
010	W-181023-RA-10		950	
011	W-181023-RA-11		1000	
012	W-181023-RA-12		1025	
013	W-181023-RA-13		1126	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:

Relinquished By: *Grant Jensen* Date/Time: 10-23-18 6:50
 Received By: *Suzanne Wylly* Date/Time: 10-24-18 0730

Transmit Prelim Rush Results by (complete what you want):

Email #1: Relinquished By: Date/Time: Received By: Date/Time:
 Email #2: Relinquished By: Date/Time: Received By: Date/Time:
 Telephone: Relinquished By: Date/Time: Received By: Date/Time:
 Fax: Relinquished By: Date/Time: Received By: Date/Time:

Samples on HOLD are subject to special pricing and release of liability

PAGE Project No. 40178208
 Receipt Temp = ROT °C
 Sample Receipt pH *OK* Adjusted
 Cooler Custody Seal Present / *Not Present* Intact / Not Intact

Pace Container Order #410725

40178208

Addresses

Order By :	Ship To :	Return To:
Company <u>GHD SERVICES</u>	Company <u>GHD SERVICES (Pace Analytical)</u>	Company <u>Pace Analytical Green Bay</u>
Contact <u>Anderson, Grant</u>	Contact <u>Ryan Aamot</u>	Contact <u>Milewsky, Dan</u>
Email <u>grant.anderson@ghd.com</u>	Email <u>ryan.aamot@ghd.com</u>	Email <u>dan.milewsky@pacelabs.com</u>
Address <u>1801 Old Highway 8 Northwest</u>	Address <u>1801 Old Highway 8 Northwest</u>	Address <u>1241 Bellevue Street</u>
Address 2 <u>Suite 114</u>	Address 2 <u>Suite 114</u>	Address 2 <u>Suite 9</u>
City <u>Saint Paul</u>	City <u>Saint Paul</u>	City <u>Green Bay</u>
State <u>MN</u> Zip <u>55112</u>	State <u>MN</u> Zip <u>55112</u>	State <u>WI</u> Zip <u>54302</u>
Phone <u>(651) 639-0913</u>	Phone <u>(651) 639-0913</u>	Phone <u>(920)469-2436</u>

Info

Project Name <u>Rhineland LF Surface Water</u>	Due Date <u>10/16/2018</u>	Profile _____	Quote _____
Project Manager <u>Milewsky, Dan</u>	Return _____	Carrier <u>Most Economical</u>	Location _____

Trip Blanks <input type="checkbox"/> Include Trip Blanks	Bottle Labels <input checked="" type="checkbox"/> Blank <input type="checkbox"/> Pre-Printed No Sample IDs <input type="checkbox"/> Pre-Printed With Sample IDs	Bottles <input type="checkbox"/> Boxed Cases <input type="checkbox"/> Individually Wrapped <input type="checkbox"/> Grouped By Sample
Return Shipping Labels <input type="checkbox"/> No Shipper Number <input type="checkbox"/> With Shipper Number	Misc <input type="checkbox"/> Sampling Instructions <input type="checkbox"/> Custody Seal <input type="checkbox"/> Temp. Blanks <input checked="" type="checkbox"/> Coolers _____ <input type="checkbox"/> Syringes _____	
COC Options <input checked="" type="checkbox"/> Number of Blanks <u>1</u> <input type="checkbox"/> Pre-Printed _____	<input type="checkbox"/> Extra Bubble Wrap <input type="checkbox"/> Short Hold/Rush Stickers <input type="checkbox"/> DI Water <u>Liter(s)</u> <input type="checkbox"/> USDA Regulated Soils	

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
4	WT	Fecal Coliform MF	120 ml sterile	4	0	07817003	
4	WT	Ammonia, TKN, N+N, COD	250mL plastic H2SO4	4	0	M-8-249-09BB	
4	WT	Chloride	250mL plastic unpres	4	0	M-8-124-04BB	
4	WT	Metals and Hardness	250mL plastic w/HNO3	4	0	M-8-242-03BB	

Hazard Shipping Placard In Place : NA

- *Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with your project manager.
- *Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
- *Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.
- *Payment term are net 30 days.
- *Please include the proposal number on the chain of custody to insure proper billing.

Sample Notes

Ship Date : 10/12/2018

Prepared By: Mai Yer Her

Verified By:

Pace Container Order #410726

40178208

Addresses

Order By :	Ship To :	Return To:
Company <u>GHD SERVICES</u>	Company <u>GHD SERVICES (Pace Analytical)</u>	Company <u>Pace Analytical Green Bay</u>
Contact <u>Anderson, Grant</u>	Contact <u>Ryan Aamot</u>	Contact <u>Milewsky, Dan</u>
Email <u>grant.anderson@ghd.com</u>	Email <u>ryan.aamot@ghd.com</u>	Email <u>dan.milewsky@pacelabs.com</u>
Address <u>1801 Old Highway 8 Northwest</u>	Address <u>1801 Old Highway 8 Northwest</u>	Address <u>1241 Bellevue Street</u>
Address 2 <u>Suite 114</u>	Address 2 <u>Suite 114</u>	Address 2 <u>Suite 9</u>
City <u>Saint Paul</u>	City <u>Saint Paul</u>	City <u>Green Bay</u>
State <u>MN</u> Zip <u>55112</u>	State <u>MN</u> Zip <u>55112</u>	State <u>WI</u> Zip <u>54302</u>
Phone <u>(651) 639-0913</u>	Phone <u>(651) 639-0913</u>	Phone <u>(920)469-2436</u>

Info

Project Name <u>Rhineland LF Groundwater</u>	Due Date <u>10/16/2018</u>	Profile _____	Quote _____
Project Manager <u>Milewsky, Dan</u>	Return _____	Carrier <u>Most Economical</u>	Location _____

Trip Blanks

Include Trip Blanks

Bottle Labels

- Blank
 Pre-Printed No Sample IDs
 Pre-Printed With Sample IDs

Bottles

- Boxed Cases
 Individually Wrapped
 Grouped By Sample

Return Shipping Labels

- No Shipper Number
 With Shipper Number

Misc

- | | |
|--|--|
| <input type="checkbox"/> Sampling Instructions | <input type="checkbox"/> Extra Bubble Wrap |
| <input type="checkbox"/> Custody Seal | <input type="checkbox"/> Short Hold/Rush Stickers |
| <input type="checkbox"/> Temp. Blanks | <input type="checkbox"/> DI Water <input style="width: 50px;" type="text" value="Liter(s)"/> |
| <input checked="" type="checkbox"/> Coolers <input style="width: 100px;" type="text"/> | <input type="checkbox"/> USDA Regulated Soils |
| <input type="checkbox"/> Syringes <input style="width: 100px;" type="text"/> | |

COC Options

- Number of Blanks
 Pre-Printed

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
2	WT	Trip BLANK	2-40mL HCL w/custody seal	4	0	B-8-141-01VB	
24	WT	VOC WI List	3-40ml clear vial HCl-hydrochloric acid	72	0	B-8-247-01VB	
24	WT	Alkalinity and Chloride	250mL plastic unpres	24	0	M-8-124-04BB	
24	WT	Metals	250mL plastic w/HNO3	24	0	M-8-242-03BB	
5	WT	Ammonia and TKN	250mL plastic H2SO4	5	0	M-8-249-09BB	
24	WT	Hardness; 6010	250mL plastic HNO3	24	0	M-8-242-03BB	

Hazard Shipping Placard In Place : NA

- *Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with your project manager.
- *Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
- *Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.
- *Payment term are net 30 days.
- *Please include the proposal number on the chain of custody to insure proper billing.

Sample Notes

Ship Date : 10/12/2018

Prepared By: Mai Yer Her

Verified By:

10/12/2018

Mai Yer Her

Client Name: GHD

Sample Preservation Receipt Form

Project #: 40178208

Pace Lab #	Glass							Plastic							Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)							
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN					
021											1		4																									2.5 / 5 / 10
022											1		4																									2.5 / 5 / 10
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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018
 Issuing Authority:
 Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GHD

Project #: _____

WO#: 40178208

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI Corr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 10-24-18
 Initials: [Signature]

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <i>No preservation, mail or invoice info</i>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <i>10/24/18 [Signature]</i>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <i>002-2-250mlp ID's are W1810 RAOZ No collect times on all samples 10-24-18</i>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>410</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AK for DM

Date: 10/24/18

May 09, 2018

Grant Anderson
GHD Services; St. Paul
1801 Old Highway 8 Northwest
Suite 114
Saint Paul, MN 55112

RE: Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40167942

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40167942001	MW-2A	Water	04/24/18 14:00	04/25/18 09:14
40167942002	MW-2B	Water	04/24/18 13:50	04/25/18 09:14
40167942003	MW-16A	Water	04/24/18 12:10	04/25/18 09:14
40167942004	MW-16B	Water	04/24/18 12:40	04/25/18 09:14
40167942005	MW-16C	Water	04/24/18 12:25	04/25/18 09:14
40167942006	MW-20A	Water	04/24/18 14:45	04/25/18 09:14
40167942007	MW-20B	Water	04/24/18 15:00	04/25/18 09:14
40167942008	MW-20C	Water	04/24/18 15:10	04/25/18 09:14
40167942009	TRIP BLANK	Water	04/24/18 00:00	04/25/18 09:14

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40167942001	MW-2A	EPA 6010	JLD	4
		EPA 8260	LAP	65
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
40167942002	MW-2B	EPA 6010	JLD	3
		EPA 8260	LAP	65
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40167942003	MW-16A	EPA 6010	JLD	3
		EPA 8260	LAP	65
			AXL	7
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
			JLD	3
40167942004	MW-16B	EPA 6010	JLD	3
		EPA 8260	LAP	65
			AXL	7
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
			JLD	3
40167942005	MW-16C	EPA 6010	JLD	3
		EPA 8260	LAP	65
			AXL	7
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
			JLD	3
40167942006	MW-20A	EPA 6010	JLD	4
		EPA 8260	LAP	65
			AXL	7
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
			JLD	3
40167942007	MW-20B	EPA 6010	JLD	3
		EPA 8260	LAP	65
			AXL	7
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
			JLD	3
40167942008	MW-20C	EPA 6010	JLD	3
		EPA 8260	LAP	65
			JLD	3

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40167942

Lab ID	Sample ID	Method	Analysts	Analytes Reported
			AXL	7
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40167942009	TRIP BLANK	EPA 8260	LAP	65

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: **MW-2A** Lab ID: **40167942001** Collected: 04/24/18 14:00 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	1670	ug/L	40.0	6.7	1		04/27/18 16:34	7440-42-8	
Iron, Dissolved	56400	ug/L	100	15.5	1		04/27/18 16:34	7439-89-6	
Manganese, Dissolved	722	ug/L	5.0	1.1	1		04/27/18 16:34	7439-96-5	
Total Hardness by 2340B, Dissolved	1040	mg/L	2.0	0.15	1		04/27/18 16:34		
8260 MSV		Analytical Method: EPA 8260							
Benzene	27.3	ug/L	2.0	1.0	2		04/27/18 11:47	71-43-2	
Bromobenzene	<0.46	ug/L	2.0	0.46	2		04/27/18 11:47	108-86-1	
Bromochloromethane	<0.68	ug/L	2.0	0.68	2		04/27/18 11:47	74-97-5	
Bromodichloromethane	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	75-27-4	
Bromoform	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	75-25-2	
Bromomethane	<4.9	ug/L	10.0	4.9	2		04/27/18 11:47	74-83-9	
n-Butylbenzene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	104-51-8	
sec-Butylbenzene	<4.4	ug/L	10.0	4.4	2		04/27/18 11:47	135-98-8	
tert-Butylbenzene	<0.36	ug/L	2.0	0.36	2		04/27/18 11:47	98-06-6	
Carbon tetrachloride	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	56-23-5	
Chlorobenzene	1.4J	ug/L	2.0	1.0	2		04/27/18 11:47	108-90-7	
Chloroethane	<0.75	ug/L	2.0	0.75	2		04/27/18 11:47	75-00-3	
Chloroform	<5.0	ug/L	10.0	5.0	2		04/27/18 11:47	67-66-3	
Chloromethane	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	74-87-3	
2-Chlorotoluene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	95-49-8	
4-Chlorotoluene	<0.43	ug/L	2.0	0.43	2		04/27/18 11:47	106-43-4	
1,2-Dibromo-3-chloropropane	<4.3	ug/L	10.0	4.3	2		04/27/18 11:47	96-12-8	
Dibromochloromethane	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	124-48-1	
1,2-Dibromoethane (EDB)	<0.36	ug/L	2.0	0.36	2		04/27/18 11:47	106-93-4	
Dibromomethane	<0.85	ug/L	2.0	0.85	2		04/27/18 11:47	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	541-73-1	
1,4-Dichlorobenzene	1.5J	ug/L	2.0	1.0	2		04/27/18 11:47	106-46-7	
Dichlorodifluoromethane	<0.45	ug/L	2.0	0.45	2		04/27/18 11:47	75-71-8	
1,1-Dichloroethane	<0.48	ug/L	2.0	0.48	2		04/27/18 11:47	75-34-3	
1,2-Dichloroethane	<0.34	ug/L	2.0	0.34	2		04/27/18 11:47	107-06-2	
1,1-Dichloroethene	<0.82	ug/L	2.0	0.82	2		04/27/18 11:47	75-35-4	
cis-1,2-Dichloroethene	<0.51	ug/L	2.0	0.51	2		04/27/18 11:47	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/L	2.0	0.51	2		04/27/18 11:47	156-60-5	
1,2-Dichloropropane	<0.47	ug/L	2.0	0.47	2		04/27/18 11:47	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	142-28-9	
2,2-Dichloropropane	<0.97	ug/L	2.0	0.97	2		04/27/18 11:47	594-20-7	
1,1-Dichloropropene	<0.88	ug/L	2.0	0.88	2		04/27/18 11:47	563-58-6	
cis-1,3-Dichloropropene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	10061-01-5	
trans-1,3-Dichloropropene	<0.46	ug/L	2.0	0.46	2		04/27/18 11:47	10061-02-6	
Diisopropyl ether	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	108-20-3	
Ethylbenzene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	100-41-4	
Hexachloro-1,3-butadiene	<4.2	ug/L	10.0	4.2	2		04/27/18 11:47	87-68-3	
Isopropylbenzene (Cumene)	0.55J	ug/L	2.0	0.29	2		04/27/18 11:47	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-2A **Lab ID: 40167942001** Collected: 04/24/18 14:00 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
p-Isopropyltoluene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	99-87-6	
Methylene Chloride	<0.47	ug/L	2.0	0.47	2		04/27/18 11:47	75-09-2	
Methyl-tert-butyl ether	<0.35	ug/L	2.0	0.35	2		04/27/18 11:47	1634-04-4	
Naphthalene	<5.0	ug/L	10.0	5.0	2		04/27/18 11:47	91-20-3	
n-Propylbenzene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	103-65-1	
Styrene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	2.0	0.36	2		04/27/18 11:47	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	2.0	0.50	2		04/27/18 11:47	79-34-5	
Tetrachloroethene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	127-18-4	
Tetrahydrofuran	185	ug/L	10.0	4.1	2		04/27/18 11:47	109-99-9	
Toluene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	108-88-3	
1,2,3-Trichlorobenzene	<4.3	ug/L	10.0	4.3	2		04/27/18 11:47	87-61-6	
1,2,4-Trichlorobenzene	<4.4	ug/L	10.0	4.4	2		04/27/18 11:47	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	2.0	0.39	2		04/27/18 11:47	79-00-5	
Trichloroethene	<0.66	ug/L	2.0	0.66	2		04/27/18 11:47	79-01-6	
Trichlorofluoromethane	<0.37	ug/L	2.0	0.37	2		04/27/18 11:47	75-69-4	
1,2,3-Trichloropropane	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	96-18-4	
1,2,4-Trimethylbenzene	3.4	ug/L	2.0	1.0	2		04/27/18 11:47	95-63-6	
1,3,5-Trimethylbenzene	2.8	ug/L	2.0	1.0	2		04/27/18 11:47	108-67-8	
Vinyl chloride	<0.35	ug/L	2.0	0.35	2		04/27/18 11:47	75-01-4	
m&p-Xylene	5.7	ug/L	4.0	2.0	2		04/27/18 11:47	179601-23-1	
o-Xylene	<1.0	ug/L	2.0	1.0	2		04/27/18 11:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		2		04/27/18 11:47	460-00-4	
Dibromofluoromethane (S)	95	%	67-130		2		04/27/18 11:47	1868-53-7	
Toluene-d8 (S)	98	%	70-130		2		04/27/18 11:47	2037-26-5	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	69.1	mg/L	10.0	2.5	5		05/02/18 19:14	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	2220	mg/L	235	70.4	10		04/30/18 13:36		
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	256	mg/L	25.0	12.5	50		05/07/18 15:38	7664-41-7	
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	263	mg/L	14.6	4.4	20	05/02/18 13:22	05/02/18 17:23	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-2B **Lab ID: 40167942002** Collected: 04/24/18 13:50 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	12400	ug/L	100	15.5	1		04/27/18 16:36	7439-89-6	
Manganese, Dissolved	1160	ug/L	5.0	1.1	1		04/27/18 16:36	7439-96-5	
Total Hardness by 2340B, Dissolved	142	mg/L	2.0	0.15	1		04/27/18 16:36		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/27/18 12:55	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/27/18 12:55	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/27/18 12:55	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 12:55	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/27/18 12:55	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/27/18 12:55	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/27/18 12:55	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/27/18 12:55	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/27/18 12:55	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/27/18 12:55	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/27/18 12:55	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/27/18 12:55	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/27/18 12:55	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/27/18 12:55	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/27/18 12:55	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 12:55	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 12:55	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/27/18 12:55	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/27/18 12:55	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/27/18 12:55	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/27/18 12:55	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/27/18 12:55	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/27/18 12:55	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-2B **Lab ID: 40167942002** Collected: 04/24/18 13:50 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/27/18 12:55	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/27/18 12:55	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/27/18 12:55	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/27/18 12:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/27/18 12:55	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	127-18-4	
Tetrahydrofuran	7.3	ug/L	5.0	2.0	1		04/27/18 12:55	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/27/18 12:55	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 12:55	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/27/18 12:55	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/27/18 12:55	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/27/18 12:55	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/27/18 12:55	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/27/18 12:55	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/27/18 12:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		04/27/18 12:55	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		04/27/18 12:55	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/27/18 12:55	2037-26-5	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	17.0	mg/L	10.0	2.5	5		05/02/18 19:25	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	168	mg/L	47.0	14.1	2		05/04/18 10:16		B

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-16A **Lab ID: 40167942003** Collected: 04/24/18 12:10 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	2550	ug/L	100	15.5	1		04/27/18 16:38	7439-89-6	
Manganese, Dissolved	3260	ug/L	5.0	1.1	1		04/27/18 16:38	7439-96-5	
Total Hardness by 2340B, Dissolved	168	mg/L	2.0	0.15	1		04/27/18 16:38		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.75J	ug/L	1.0	0.50	1		04/27/18 15:33	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/27/18 15:33	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/27/18 15:33	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/27/18 15:33	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 15:33	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/27/18 15:33	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/27/18 15:33	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/27/18 15:33	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/27/18 15:33	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/27/18 15:33	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/27/18 15:33	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/27/18 15:33	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/27/18 15:33	75-71-8	
1,1-Dichloroethane	0.24J	ug/L	1.0	0.24	1		04/27/18 15:33	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/27/18 15:33	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/27/18 15:33	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 15:33	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 15:33	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/27/18 15:33	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/27/18 15:33	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/27/18 15:33	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/27/18 15:33	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/27/18 15:33	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/27/18 15:33	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-16A **Lab ID: 40167942003** Collected: 04/24/18 12:10 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/27/18 15:33	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/27/18 15:33	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/27/18 15:33	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/27/18 15:33	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/27/18 15:33	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/27/18 15:33	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/27/18 15:33	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 15:33	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/27/18 15:33	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/27/18 15:33	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/27/18 15:33	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	108-67-8	
Vinyl chloride	0.34J	ug/L	1.0	0.18	1		04/27/18 15:33	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/27/18 15:33	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		04/27/18 15:33	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		04/27/18 15:33	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/27/18 15:33	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.71	Std. Units			1		04/24/18 12:10		
Field Specific Conductance	409	umhos/cm			1		04/24/18 12:10		
Oxygen, Dissolved	4.32	mg/L			1		04/24/18 12:10	7782-44-7	
REDOX	-37	mV			1		04/24/18 12:10		
Turbidity	0	NTU			1		04/24/18 12:10		
Depth to Groundwater	14.75	feet			1		04/24/18 12:10		
Temperature, Water (C)	6.3	deg C			1		04/24/18 12:10		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	20.1	mg/L	2.0	0.50	1		05/02/18 19:35	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	165	mg/L	23.5	7.0	1		05/04/18 10:18		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-16B **Lab ID: 40167942004** Collected: 04/24/18 12:40 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	37300	ug/L	100	15.5	1		04/27/18 16:41	7439-89-6	
Manganese, Dissolved	3520	ug/L	5.0	1.1	1		04/27/18 16:41	7439-96-5	
Total Hardness by 2340B, Dissolved	227	mg/L	2.0	0.15	1		04/27/18 16:41		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.0	ug/L	1.0	0.50	1		04/27/18 13:17	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/27/18 13:17	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/27/18 13:17	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/27/18 13:17	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 13:17	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/27/18 13:17	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/27/18 13:17	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/27/18 13:17	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/27/18 13:17	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/27/18 13:17	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/27/18 13:17	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/27/18 13:17	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/27/18 13:17	75-71-8	
1,1-Dichloroethane	0.27J	ug/L	1.0	0.24	1		04/27/18 13:17	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/27/18 13:17	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/27/18 13:17	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 13:17	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 13:17	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/27/18 13:17	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/27/18 13:17	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/27/18 13:17	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/27/18 13:17	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/27/18 13:17	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/27/18 13:17	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-16B **Lab ID: 40167942004** Collected: 04/24/18 12:40 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/27/18 13:17	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/27/18 13:17	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/27/18 13:17	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/27/18 13:17	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/27/18 13:17	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	127-18-4	
Tetrahydrofuran	7.2	ug/L	5.0	2.0	1		04/27/18 13:17	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/27/18 13:17	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 13:17	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/27/18 13:17	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/27/18 13:17	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/27/18 13:17	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/27/18 13:17	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/27/18 13:17	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		04/27/18 13:17	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		04/27/18 13:17	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/27/18 13:17	2037-26-5	
Field Data Analytical Method:									
Field pH	6.98	Std. Units			1		04/24/18 12:40		
Field Specific Conductance	681	umhos/cm			1		04/24/18 12:40		
Oxygen, Dissolved	1.96	mg/L			1		04/24/18 12:40	7782-44-7	
REDOX	-172	mV			1		04/24/18 12:40		
Turbidity	0	NTU			1		04/24/18 12:40		
Depth to Groundwater	7.71	feet			1		04/24/18 12:40		
Temperature, Water (C)	8.2	deg C			1		04/24/18 12:40		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	37.2	mg/L	10.0	2.5	5		05/02/18 20:17	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	225	mg/L	23.5	7.0	1		05/04/18 10:18		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-16C **Lab ID: 40167942005** Collected: 04/24/18 12:25 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	26700	ug/L	100	15.5	1		04/27/18 16:43	7439-89-6	
Manganese, Dissolved	2110	ug/L	5.0	1.1	1		04/27/18 16:43	7439-96-5	
Total Hardness by 2340B, Dissolved	232	mg/L	2.0	0.15	1		04/27/18 16:43		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.3	ug/L	1.0	0.50	1		04/27/18 15:55	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/27/18 15:55	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/27/18 15:55	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/27/18 15:55	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 15:55	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/27/18 15:55	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	56-23-5	
Chlorobenzene	0.64J	ug/L	1.0	0.50	1		04/27/18 15:55	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/27/18 15:55	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/27/18 15:55	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/27/18 15:55	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/27/18 15:55	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/27/18 15:55	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/27/18 15:55	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/27/18 15:55	75-71-8	
1,1-Dichloroethane	0.24J	ug/L	1.0	0.24	1		04/27/18 15:55	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/27/18 15:55	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/27/18 15:55	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 15:55	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 15:55	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/27/18 15:55	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/27/18 15:55	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/27/18 15:55	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/27/18 15:55	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/27/18 15:55	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/27/18 15:55	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40167942

Sample: MW-16C **Lab ID: 40167942005** Collected: 04/24/18 12:25 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/27/18 15:55	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/27/18 15:55	1634-04-4	
Naphthalene	3.3J	ug/L	5.0	2.5	1		04/27/18 15:55	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/27/18 15:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/27/18 15:55	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	127-18-4	
Tetrahydrofuran	15.6	ug/L	5.0	2.0	1		04/27/18 15:55	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/27/18 15:55	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 15:55	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/27/18 15:55	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/27/18 15:55	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/27/18 15:55	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	108-67-8	
Vinyl chloride	0.29J	ug/L	1.0	0.18	1		04/27/18 15:55	75-01-4	
m&p-Xylene	1.4J	ug/L	2.0	1.0	1		04/27/18 15:55	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/27/18 15:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		04/27/18 15:55	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		04/27/18 15:55	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/27/18 15:55	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.78	Std. Units			1		04/24/18 12:25		
Field Specific Conductance	682	umhos/cm			1		04/24/18 12:25		
Oxygen, Dissolved	2.4	mg/L			1		04/24/18 12:25	7782-44-7	
REDOX	-129	mV			1		04/24/18 12:25		
Turbidity	0	NTU			1		04/24/18 12:25		
Depth to Groundwater	7.98	feet			1		04/24/18 12:25		
Temperature, Water (C)	8.2	deg C			1		04/24/18 12:25		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	41.5	mg/L	10.0	2.5	5		05/02/18 20:28	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	237	mg/L	23.5	7.0	1		05/04/18 10:20		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-20A **Lab ID: 40167942006** Collected: 04/24/18 14:45 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	398	ug/L	40.0	6.7	1		04/27/18 16:50	7440-42-8	
Iron, Dissolved	69400	ug/L	100	15.5	1		04/27/18 16:50	7439-89-6	
Manganese, Dissolved	654	ug/L	5.0	1.1	1		04/27/18 16:50	7439-96-5	
Total Hardness by 2340B, Dissolved	143	mg/L	2.0	0.15	1		04/27/18 16:50		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.0J	ug/L	1.0	0.50	1		04/27/18 13:40	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/27/18 13:40	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/27/18 13:40	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/27/18 13:40	74-83-9	
n-Butylbenzene	1.4	ug/L	1.0	0.50	1		04/27/18 13:40	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 13:40	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/27/18 13:40	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	56-23-5	
Chlorobenzene	5.2	ug/L	1.0	0.50	1		04/27/18 13:40	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/27/18 13:40	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/27/18 13:40	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/27/18 13:40	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/27/18 13:40	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/27/18 13:40	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/27/18 13:40	74-95-3	
1,2-Dichlorobenzene	0.63J	ug/L	1.0	0.50	1		04/27/18 13:40	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	541-73-1	
1,4-Dichlorobenzene	1.6	ug/L	1.0	0.50	1		04/27/18 13:40	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/27/18 13:40	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/27/18 13:40	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/27/18 13:40	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/27/18 13:40	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 13:40	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 13:40	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/27/18 13:40	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/27/18 13:40	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/27/18 13:40	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/27/18 13:40	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/27/18 13:40	87-68-3	
Isopropylbenzene (Cumene)	3.5	ug/L	1.0	0.14	1		04/27/18 13:40	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-20A **Lab ID: 40167942006** Collected: 04/24/18 14:45 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	0.59J	ug/L	1.0	0.50	1		04/27/18 13:40	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/27/18 13:40	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/27/18 13:40	1634-04-4	
Naphthalene	12.5	ug/L	5.0	2.5	1		04/27/18 13:40	91-20-3	
n-Propylbenzene	2.4	ug/L	1.0	0.50	1		04/27/18 13:40	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/27/18 13:40	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/27/18 13:40	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	127-18-4	
Tetrahydrofuran	7.5	ug/L	5.0	2.0	1		04/27/18 13:40	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/27/18 13:40	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 13:40	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/27/18 13:40	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/27/18 13:40	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/27/18 13:40	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 13:40	96-18-4	
1,2,4-Trimethylbenzene	19.7	ug/L	1.0	0.50	1		04/27/18 13:40	95-63-6	
1,3,5-Trimethylbenzene	4.6	ug/L	1.0	0.50	1		04/27/18 13:40	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/27/18 13:40	75-01-4	
m&p-Xylene	50.6	ug/L	2.0	1.0	1		04/27/18 13:40	179601-23-1	
o-Xylene	1.1	ug/L	1.0	0.50	1		04/27/18 13:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	61-130		1		04/27/18 13:40	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		04/27/18 13:40	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/27/18 13:40	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.2	Std. Units			1		04/24/18 14:45		
Field Specific Conductance	725	umhos/cm			1		04/24/18 14:45		
Oxygen, Dissolved	3.95	mg/L			1		04/24/18 14:45	7782-44-7	
REDOX	-83	mV			1		04/24/18 14:45		
Turbidity	0	NTU			1		04/24/18 14:45		
Depth to Groundwater	3.65	feet			1		04/24/18 14:45		
Temperature, Water (C)	3.2	deg C			1		04/24/18 14:45		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	8.9J	mg/L	10.0	2.5	5		05/02/18 20:38	16887-00-6	D3
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	253	mg/L	47.0	14.1	2		05/04/18 10:21		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-20B **Lab ID: 40167942007** Collected: 04/24/18 15:00 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	17600	ug/L	100	15.5	1		04/27/18 16:53	7439-89-6	
Manganese, Dissolved	1080	ug/L	5.0	1.1	1		04/27/18 16:53	7439-96-5	
Total Hardness by 2340B, Dissolved	162	mg/L	2.0	0.15	1		04/27/18 16:53		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.64J	ug/L	1.0	0.50	1		04/27/18 16:18	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/27/18 16:18	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/27/18 16:18	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/27/18 16:18	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 16:18	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/27/18 16:18	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	56-23-5	
Chlorobenzene	0.57J	ug/L	1.0	0.50	1		04/27/18 16:18	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/27/18 16:18	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/27/18 16:18	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/27/18 16:18	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/27/18 16:18	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/27/18 16:18	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/27/18 16:18	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/27/18 16:18	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/27/18 16:18	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/27/18 16:18	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/27/18 16:18	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 16:18	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 16:18	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/27/18 16:18	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/27/18 16:18	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/27/18 16:18	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/27/18 16:18	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/27/18 16:18	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/27/18 16:18	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-20B **Lab ID: 40167942007** Collected: 04/24/18 15:00 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/27/18 16:18	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/27/18 16:18	1634-04-4	
Naphthalene	10.6	ug/L	5.0	2.5	1		04/27/18 16:18	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/27/18 16:18	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/27/18 16:18	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	127-18-4	
Tetrahydrofuran	15.2	ug/L	5.0	2.0	1		04/27/18 16:18	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/27/18 16:18	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 16:18	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/27/18 16:18	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/27/18 16:18	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/27/18 16:18	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	108-67-8	
Vinyl chloride	0.48J	ug/L	1.0	0.18	1		04/27/18 16:18	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/27/18 16:18	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		04/27/18 16:18	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		04/27/18 16:18	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/27/18 16:18	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.8	Std. Units			1		04/24/18 15:00		
Field Specific Conductance	501	umhos/cm			1		04/24/18 15:00		
Oxygen, Dissolved	2.28	mg/L			1		04/24/18 15:00	7782-44-7	
REDOX	-123	mV			1		04/24/18 15:00		
Turbidity	0	NTU			1		04/24/18 15:00		
Depth to Groundwater	4.51	feet			1		04/24/18 15:00		
Temperature, Water (C)	8.3	deg C			1		04/24/18 15:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	46.3	mg/L	10.0	2.5	5		05/02/18 20:49	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	145	mg/L	23.5	7.0	1		05/04/18 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: MW-20C **Lab ID: 40167942008** Collected: 04/24/18 15:10 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	21500	ug/L	100	15.5	1		04/27/18 16:55	7439-89-6	
Manganese, Dissolved	1400	ug/L	5.0	1.1	1		04/27/18 16:55	7439-96-5	
Total Hardness by 2340B, Dissolved	183	mg/L	2.0	0.15	1		04/27/18 16:55		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.90J	ug/L	1.0	0.50	1		04/27/18 16:42	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/27/18 16:42	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/27/18 16:42	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/27/18 16:42	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 16:42	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/27/18 16:42	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	56-23-5	
Chlorobenzene	0.74J	ug/L	1.0	0.50	1		04/27/18 16:42	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/27/18 16:42	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/27/18 16:42	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/27/18 16:42	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/27/18 16:42	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/27/18 16:42	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/27/18 16:42	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/27/18 16:42	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/27/18 16:42	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/27/18 16:42	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/27/18 16:42	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 16:42	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 16:42	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/27/18 16:42	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/27/18 16:42	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/27/18 16:42	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/27/18 16:42	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/27/18 16:42	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/27/18 16:42	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40167942

Sample: **MW-20C** Lab ID: **40167942008** Collected: 04/24/18 15:10 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/27/18 16:42	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/27/18 16:42	1634-04-4	
Naphthalene	8.9	ug/L	5.0	2.5	1		04/27/18 16:42	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/27/18 16:42	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/27/18 16:42	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	127-18-4	
Tetrahydrofuran	14.1	ug/L	5.0	2.0	1		04/27/18 16:42	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/27/18 16:42	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 16:42	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/27/18 16:42	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/27/18 16:42	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/27/18 16:42	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	108-67-8	
Vinyl chloride	0.78J	ug/L	1.0	0.18	1		04/27/18 16:42	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/27/18 16:42	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/27/18 16:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		04/27/18 16:42	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		04/27/18 16:42	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/27/18 16:42	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.73	Std. Units			1		04/24/18 15:10		
Field Specific Conductance	565	umhos/cm			1		04/24/18 15:10		
Oxygen, Dissolved	3.46	mg/L			1		04/24/18 15:10	7782-44-7	
REDOX	-111	mV			1		04/24/18 15:10		
Turbidity	0	NTU			1		04/24/18 15:10		
Depth to Groundwater	4.84	feet			1		04/24/18 15:10		
Temperature, Water (C)	8.3	deg C			1		04/24/18 15:10		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	46.9	mg/L	10.0	2.5	5		05/02/18 21:00	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	183	mg/L	23.5	7.0	1		05/04/18 10:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: TRIP BLANK **Lab ID: 40167942009** Collected: 04/24/18 00:00 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/27/18 10:40	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/27/18 10:40	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/27/18 10:40	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 10:40	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/27/18 10:40	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/27/18 10:40	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/27/18 10:40	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/27/18 10:40	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/27/18 10:40	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/27/18 10:40	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/27/18 10:40	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/27/18 10:40	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/27/18 10:40	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/27/18 10:40	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/27/18 10:40	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 10:40	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/27/18 10:40	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/27/18 10:40	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/27/18 10:40	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/27/18 10:40	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/27/18 10:40	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/27/18 10:40	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/27/18 10:40	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/27/18 10:40	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/27/18 10:40	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/27/18 10:40	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/27/18 10:40	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Sample: TRIP BLANK **Lab ID: 40167942009** Collected: 04/24/18 00:00 Received: 04/25/18 09:14 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/27/18 10:40	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/27/18 10:40	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/27/18 10:40	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/27/18 10:40	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/27/18 10:40	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/27/18 10:40	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/27/18 10:40	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/27/18 10:40	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/27/18 10:40	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/27/18 10:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		04/27/18 10:40	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		04/27/18 10:40	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/27/18 10:40	2037-26-5	

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40167942

QC Batch: 287268 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40167942001, 40167942002, 40167942003, 40167942004, 40167942005, 40167942006, 40167942007, 40167942008

METHOD BLANK: 1680589 Matrix: Water
Associated Lab Samples: 40167942001, 40167942002, 40167942003, 40167942004, 40167942005, 40167942006, 40167942007, 40167942008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<6.7	40.0	04/27/18 15:00	
Iron, Dissolved	ug/L	<15.5	100	04/27/18 15:00	
Manganese, Dissolved	ug/L	<1.1	5.0	04/27/18 15:00	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	2.0	04/27/18 15:00	

LABORATORY CONTROL SAMPLE: 1680590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	500	526	105	80-120	
Iron, Dissolved	ug/L	5000	4980	100	80-120	
Manganese, Dissolved	ug/L	500	479	96	80-120	
Total Hardness by 2340B, Dissolved	mg/L		32.6			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680591 1680592

Parameter	Units	1680591		1680592		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40167999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Boron, Dissolved	ug/L	28.1J	500	500	580	577	110	110	75-125	1	20
Iron, Dissolved	ug/L	12000	5000	5000	16800	16800	95	96	75-125	0	20
Manganese, Dissolved	ug/L	380	500	500	865	857	97	95	75-125	1	20
Total Hardness by 2340B, Dissolved	mg/L	355			381	381				0	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40167942

QC Batch: 287144 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40167942001, 40167942002, 40167942003, 40167942004, 40167942005, 40167942006, 40167942007, 40167942008, 40167942009

METHOD BLANK: 1679699 Matrix: Water
Associated Lab Samples: 40167942001, 40167942002, 40167942003, 40167942004, 40167942005, 40167942006, 40167942007, 40167942008, 40167942009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	04/27/18 08:24	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/27/18 08:24	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	04/27/18 08:24	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/27/18 08:24	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/27/18 08:24	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/27/18 08:24	
1,1-Dichloropropene	ug/L	<0.44	1.0	04/27/18 08:24	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	04/27/18 08:24	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	04/27/18 08:24	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	04/27/18 08:24	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	04/27/18 08:24	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/27/18 08:24	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/27/18 08:24	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/27/18 08:24	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/27/18 08:24	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/27/18 08:24	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	04/27/18 08:24	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/27/18 08:24	
1,3-Dichloropropane	ug/L	<0.50	1.0	04/27/18 08:24	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/27/18 08:24	
2,2-Dichloropropane	ug/L	<0.48	1.0	04/27/18 08:24	
2-Chlorotoluene	ug/L	<0.50	1.0	04/27/18 08:24	
4-Chlorotoluene	ug/L	<0.21	1.0	04/27/18 08:24	
Benzene	ug/L	<0.50	1.0	04/27/18 08:24	
Bromobenzene	ug/L	<0.23	1.0	04/27/18 08:24	
Bromochloromethane	ug/L	<0.34	1.0	04/27/18 08:24	
Bromodichloromethane	ug/L	<0.50	1.0	04/27/18 08:24	
Bromoform	ug/L	<0.50	1.0	04/27/18 08:24	
Bromomethane	ug/L	<2.4	5.0	04/27/18 08:24	
Carbon tetrachloride	ug/L	<0.50	1.0	04/27/18 08:24	
Chlorobenzene	ug/L	<0.50	1.0	04/27/18 08:24	
Chloroethane	ug/L	<0.37	1.0	04/27/18 08:24	
Chloroform	ug/L	<2.5	5.0	04/27/18 08:24	
Chloromethane	ug/L	<0.50	1.0	04/27/18 08:24	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/27/18 08:24	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/27/18 08:24	
Dibromochloromethane	ug/L	<0.50	1.0	04/27/18 08:24	
Dibromomethane	ug/L	<0.43	1.0	04/27/18 08:24	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/27/18 08:24	
Diisopropyl ether	ug/L	<0.50	1.0	04/27/18 08:24	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

METHOD BLANK: 1679699

Matrix: Water

Associated Lab Samples: 40167942001, 40167942002, 40167942003, 40167942004, 40167942005, 40167942006, 40167942007, 40167942008, 40167942009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.50	1.0	04/27/18 08:24	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	04/27/18 08:24	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	04/27/18 08:24	
m&p-Xylene	ug/L	<1.0	2.0	04/27/18 08:24	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/27/18 08:24	
Methylene Chloride	ug/L	<0.23	1.0	04/27/18 08:24	
n-Butylbenzene	ug/L	<0.50	1.0	04/27/18 08:24	
n-Propylbenzene	ug/L	<0.50	1.0	04/27/18 08:24	
Naphthalene	ug/L	<2.5	5.0	04/27/18 08:24	
o-Xylene	ug/L	<0.50	1.0	04/27/18 08:24	
p-Isopropyltoluene	ug/L	<0.50	1.0	04/27/18 08:24	
sec-Butylbenzene	ug/L	<2.2	5.0	04/27/18 08:24	
Styrene	ug/L	<0.50	1.0	04/27/18 08:24	
tert-Butylbenzene	ug/L	<0.18	1.0	04/27/18 08:24	
Tetrachloroethene	ug/L	<0.50	1.0	04/27/18 08:24	
Tetrahydrofuran	ug/L	<2.0	5.0	04/27/18 08:24	
Toluene	ug/L	<0.50	1.0	04/27/18 08:24	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/27/18 08:24	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/27/18 08:24	
Trichloroethene	ug/L	<0.33	1.0	04/27/18 08:24	
Trichlorofluoromethane	ug/L	<0.18	1.0	04/27/18 08:24	
Vinyl chloride	ug/L	<0.18	1.0	04/27/18 08:24	
4-Bromofluorobenzene (S)	%	95	61-130	04/27/18 08:24	
Dibromofluoromethane (S)	%	98	67-130	04/27/18 08:24	
Toluene-d8 (S)	%	97	70-130	04/27/18 08:24	

LABORATORY CONTROL SAMPLE: 1679700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.4	109	70-130	
1,1,1-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.0	96	70-130	
1,1,2-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethane	ug/L	50	47.5	95	71-132	
1,1-Dichloroethene	ug/L	50	54.1	108	75-130	
1,1-Dichloropropene	ug/L	50	52.4	105	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.5	101	70-130	
1,2,3-Trichloropropane	ug/L	50	47.8	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	70-130	
1,2,4-Trimethylbenzene	ug/L	50	46.9	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.8	98	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	70-130	
1,2-Dichlorobenzene	ug/L	50	50.5	101	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

LABORATORY CONTROL SAMPLE: 1679700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.8	96	70-131	
1,2-Dichloropropane	ug/L	50	49.1	98	80-120	
1,3,5-Trimethylbenzene	ug/L	50	48.8	98	70-130	
1,3-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,3-Dichloropropane	ug/L	50	48.1	96	70-130	
1,4-Dichlorobenzene	ug/L	50	50.1	100	70-130	
2,2-Dichloropropane	ug/L	50	55.0	110	70-130	
2-Chlorotoluene	ug/L	50	47.6	95	70-130	
4-Chlorotoluene	ug/L	50	49.6	99	70-130	
Benzene	ug/L	50	46.5	93	73-145	
Bromobenzene	ug/L	50	48.7	97	70-130	
Bromochloromethane	ug/L	50	53.6	107	70-130	
Bromodichloromethane	ug/L	50	49.5	99	70-130	
Bromoform	ug/L	50	47.4	95	67-130	
Bromomethane	ug/L	50	45.9	92	26-128	
Carbon tetrachloride	ug/L	50	55.7	111	70-133	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	48.6	97	58-120	
Chloroform	ug/L	50	50.7	101	80-121	
Chloromethane	ug/L	50	42.2	84	40-127	
cis-1,2-Dichloroethene	ug/L	50	57.8	116	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	70-130	
Dibromochloromethane	ug/L	50	47.9	96	70-130	
Dibromomethane	ug/L	50	51.1	102	70-130	
Dichlorodifluoromethane	ug/L	50	42.4	85	20-135	
Diisopropyl ether	ug/L	50	45.8	92	70-130	
Ethylbenzene	ug/L	50	52.3	105	87-129	
Hexachloro-1,3-butadiene	ug/L	50	54.2	108	70-130	
Isopropylbenzene (Cumene)	ug/L	50	55.0	110	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	53.2	106	66-143	
Methylene Chloride	ug/L	50	50.4	101	70-130	
n-Butylbenzene	ug/L	50	49.8	100	70-130	
n-Propylbenzene	ug/L	50	48.7	97	70-130	
Naphthalene	ug/L	50	47.7	95	70-130	
o-Xylene	ug/L	50	51.8	104	70-130	
p-Isopropyltoluene	ug/L	50	48.4	97	70-130	
sec-Butylbenzene	ug/L	50	51.5	103	70-130	
Styrene	ug/L	50	49.6	99	70-130	
tert-Butylbenzene	ug/L	50	51.2	102	70-130	
Tetrachloroethene	ug/L	50	54.1	108	70-130	
Tetrahydrofuran	ug/L	50	46.9	94	50-150	
Toluene	ug/L	50	51.8	104	82-130	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	75-132	
trans-1,3-Dichloropropene	ug/L	50	46.8	94	70-130	
Trichloroethene	ug/L	50	49.8	100	70-130	
Trichlorofluoromethane	ug/L	50	54.8	110	76-133	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

LABORATORY CONTROL SAMPLE: 1679700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	45.3	91	57-136	
4-Bromofluorobenzene (S)	%			99	61-130	
Dibromofluoromethane (S)	%			101	67-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679701 1679702

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40167985003 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	<0.18	50	50	54.8	54.1	110	108	70-130	1	20	
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.2	52.5	106	105	70-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	49.2	54.1	98	108	70-130	9	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	49.4	51.2	99	102	70-130	4	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	47.2	45.6	94	91	71-133	3	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	53.2	53.2	106	106	75-136	0	20	
1,1-Dichloropropene	ug/L	<0.44	50	50	51.1	50.0	102	100	70-130	2	20	
1,2,3-Trichlorobenzene	ug/L	<2.1	50	50	52.6	54.9	105	110	70-130	4	20	
1,2,3-Trichloropropane	ug/L	<0.50	50	50	48.1	54.0	96	108	70-130	11	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	50.0	52.4	100	105	70-130	5	20	
1,2,4-Trimethylbenzene	ug/L	<0.50	50	50	48.6	48.2	97	96	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	53.3	59.4	107	119	63-123	11	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50.6	53.5	101	107	70-130	6	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	50.1	51.2	100	102	70-130	2	20	
1,2-Dichloroethane	ug/L	0.75J	50	50	48.4	48.5	95	95	70-131	0	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	48.7	46.8	97	94	80-120	4	20	
1,3,5-Trimethylbenzene	ug/L	<0.50	50	50	49.2	48.8	98	98	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	49.8	50.3	100	101	70-130	1	20	
1,3-Dichloropropane	ug/L	<0.50	50	50	49.0	51.6	98	103	70-130	5	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.2	50.1	100	100	70-130	0	20	
2,2-Dichloropropane	ug/L	<0.48	50	50	54.0	52.2	108	104	70-130	3	20	
2-Chlorotoluene	ug/L	<0.50	50	50	47.2	48.0	94	96	70-130	2	20	
4-Chlorotoluene	ug/L	<0.21	50	50	50.8	49.0	102	98	70-130	4	20	
Benzene	ug/L	<0.50	50	50	45.3	45.0	91	90	73-145	1	20	
Bromobenzene	ug/L	<0.23	50	50	49.3	48.4	99	97	70-130	2	20	
Bromochloromethane	ug/L	<0.34	50	50	53.0	50.9	106	102	70-130	4	20	
Bromodichloromethane	ug/L	<0.50	50	50	48.9	48.3	98	97	70-130	1	20	
Bromoform	ug/L	<0.50	50	50	46.2	51.0	92	102	67-130	10	20	
Bromomethane	ug/L	<2.4	50	50	45.4	39.0	91	78	26-129	15	20	
Carbon tetrachloride	ug/L	<0.50	50	50	55.1	53.3	110	107	70-134	3	20	
Chlorobenzene	ug/L	<0.50	50	50	52.0	49.3	104	99	70-130	5	20	
Chloroethane	ug/L	<0.37	50	50	49.5	46.5	99	93	58-120	6	20	
Chloroform	ug/L	<2.5	50	50	49.1	48.7	98	97	80-121	1	20	
Chloromethane	ug/L	<0.50	50	50	43.4	41.1	87	82	40-128	5	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	53.8	52.8	108	106	70-130	2	20	

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679701		1679702		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40167985003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	47.7	46.8	95	94	70-130	2	20		
Dibromochloromethane	ug/L	<0.50	50	50	47.8	50.3	96	101	70-130	5	20		
Dibromomethane	ug/L	<0.43	50	50	50.7	50.6	101	101	70-130	0	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	39.3	39.3	79	79	20-146	0	20		
Diisopropyl ether	ug/L	<0.50	50	50	44.8	44.4	90	89	70-130	1	20		
Ethylbenzene	ug/L	<0.50	50	50	53.4	51.8	107	104	87-129	3	20		
Hexachloro-1,3-butadiene	ug/L	<2.1	50	50	58.2	54.2	116	108	70-130	7	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	54.3	53.1	109	106	70-130	2	20		
m&p-Xylene	ug/L	<1.0	100	100	108	105	108	105	70-130	3	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	52.8	54.5	106	109	66-143	3	20		
Methylene Chloride	ug/L	<0.23	50	50	49.3	47.2	99	94	70-130	4	20		
n-Butylbenzene	ug/L	<0.50	50	50	51.5	51.4	103	103	70-130	0	20		
n-Propylbenzene	ug/L	<0.50	50	50	48.4	48.7	97	97	70-130	1	20		
Naphthalene	ug/L	<2.5	50	50	52.5	58.1	105	116	70-130	10	20		
o-Xylene	ug/L	<0.50	50	50	51.5	51.0	103	102	70-130	1	20		
p-Isopropyltoluene	ug/L	<0.50	50	50	49.6	48.7	99	97	70-130	2	20		
sec-Butylbenzene	ug/L	<2.2	50	50	51.1	51.2	102	102	70-130	0	20		
Styrene	ug/L	<0.50	50	50	51.3	50.6	103	101	70-130	1	20		
tert-Butylbenzene	ug/L	<0.18	50	50	50.8	51.3	102	103	70-130	1	20		
Tetrachloroethene	ug/L	<0.50	50	50	54.2	54.6	108	109	70-130	1	20		
Tetrahydrofuran	ug/L	<2.0	50	50	49.2	55.7	98	111	50-150	12	20		
Toluene	ug/L	<0.50	50	50	51.8	49.2	104	98	82-131	5	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	48.9	48.4	98	97	75-135	1	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.8	48.6	94	97	70-130	4	20		
Trichloroethene	ug/L	<0.33	50	50	49.1	48.6	98	97	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	51.9	53.7	104	107	76-150	4	20		
Vinyl chloride	ug/L	<0.18	50	50	45.6	44.4	91	89	56-143	3	20		
4-Bromofluorobenzene (S)	%						97	99	61-130				
Dibromofluoromethane (S)	%						100	101	67-130				
Toluene-d8 (S)	%						97	98	70-130				

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40167942

QC Batch: 287136 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40167942001, 40167942002, 40167942003, 40167942004, 40167942005, 40167942006, 40167942007, 40167942008

METHOD BLANK: 1679636 Matrix: Water
Associated Lab Samples: 40167942001, 40167942002, 40167942003, 40167942004, 40167942005, 40167942006, 40167942007, 40167942008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	05/02/18 15:54	

LABORATORY CONTROL SAMPLE: 1679637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.9	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679638 1679639

Parameter	Units	40167944004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1130	2000	2000	3330	3130	110	100	90-110	6	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679640 1679641

Parameter	Units	40167942008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	46.9	100	100	155	155	108	108	90-110	0	15	

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

QC Batch: 287389	Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2	Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40167942001	

METHOD BLANK: 1681596 Matrix: Water
Associated Lab Samples: 40167942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	04/30/18 13:16	

LABORATORY CONTROL SAMPLE: 1681597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	98.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681598 1681599

Parameter	Units	40167819009		1681598		1681599		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	178	178	100	100	276	271	98	93	90-110	2	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681600 1681601

Parameter	Units	40168054002		1681600		1681601		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	186J	186J	1000	1000	1080	1070	89	88	90-110	1	20 M0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40167942

QC Batch: 287715 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40167942002, 40167942003, 40167942004, 40167942005, 40167942006, 40167942007, 40167942008

METHOD BLANK: 1683247 Matrix: Water
Associated Lab Samples: 40167942002, 40167942003, 40167942004, 40167942005, 40167942006, 40167942007, 40167942008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	9.0J	23.5	05/04/18 10:07	

LABORATORY CONTROL SAMPLE: 1683248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	90.6	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1683249 1683250

Parameter	Units	40167942002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	168	200	200	357	363	95	97	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1683251 1683252

Parameter	Units	40167940004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	247	200	200	454	445	103	99	90-110	2	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

QC Batch: 288063

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 40167942001

METHOD BLANK: 1685564

Matrix: Water

Associated Lab Samples: 40167942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.25	0.50	05/07/18 13:51	

LABORATORY CONTROL SAMPLE: 1685565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1685566 1685567

Parameter	Units	40167942001		MS		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Nitrogen, Ammonia	mg/L	256	500	500	500	748	741	99	97	90-110	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40167942

QC Batch: 287672 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 40167942001

METHOD BLANK: 1682966 Matrix: Water
Associated Lab Samples: 40167942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.22J	0.73	05/02/18 17:02	

LABORATORY CONTROL SAMPLE: 1682967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682968 1682969

Parameter	Units	1682968		1682969		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40168138001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, Kjeldahl, Total	mg/L	1.3	5	5	6.0	6.1	95	97	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682970 1682971

Parameter	Units	1682970		1682971		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40167867002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, Kjeldahl, Total	mg/L	1.1	5	5	6.0	5.8	97	93	90-110	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40167942

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40167942001	MW-2A	EPA 6010	287268		
40167942002	MW-2B	EPA 6010	287268		
40167942003	MW-16A	EPA 6010	287268		
40167942004	MW-16B	EPA 6010	287268		
40167942005	MW-16C	EPA 6010	287268		
40167942006	MW-20A	EPA 6010	287268		
40167942007	MW-20B	EPA 6010	287268		
40167942008	MW-20C	EPA 6010	287268		
40167942001	MW-2A	EPA 8260	287144		
40167942002	MW-2B	EPA 8260	287144		
40167942003	MW-16A	EPA 8260	287144		
40167942004	MW-16B	EPA 8260	287144		
40167942005	MW-16C	EPA 8260	287144		
40167942006	MW-20A	EPA 8260	287144		
40167942007	MW-20B	EPA 8260	287144		
40167942008	MW-20C	EPA 8260	287144		
40167942009	TRIP BLANK	EPA 8260	287144		
40167942003	MW-16A				
40167942004	MW-16B				
40167942005	MW-16C				
40167942006	MW-20A				
40167942007	MW-20B				
40167942008	MW-20C				
40167942001	MW-2A	EPA 300.0	287136		
40167942002	MW-2B	EPA 300.0	287136		
40167942003	MW-16A	EPA 300.0	287136		
40167942004	MW-16B	EPA 300.0	287136		
40167942005	MW-16C	EPA 300.0	287136		
40167942006	MW-20A	EPA 300.0	287136		
40167942007	MW-20B	EPA 300.0	287136		
40167942008	MW-20C	EPA 300.0	287136		
40167942001	MW-2A	EPA 310.2	287389		
40167942002	MW-2B	EPA 310.2	287715		
40167942003	MW-16A	EPA 310.2	287715		
40167942004	MW-16B	EPA 310.2	287715		
40167942005	MW-16C	EPA 310.2	287715		
40167942006	MW-20A	EPA 310.2	287715		
40167942007	MW-20B	EPA 310.2	287715		
40167942008	MW-20C	EPA 310.2	287715		
40167942001	MW-2A	EPA 350.1	288063		
40167942001	MW-2A	EPA 351.2	287672	EPA 351.2	287720

REPORT OF LABORATORY ANALYSIS

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CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114
St. Paul, Minnesota 55112 United States

Phone: (651) 639-0913

Fax: (651) 639-0923

COC NO. **SP-02607**

PAGE 1 OF 1

(See Reverse Side for Instructions)

40167942

Page 3 of 40

Project No/Phase/Task Code: 1115796-20			Laboratory Name: Price				Lab Location:				SSOW ID:																																															
Project Name: Rhinelander Landfill			Lab Contact:				Lab Quote No:				Cooler No:																																															
Project Location: Rhinelander			CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier:																																															
Chemistry Contact: Grant Anderson			<table border="1"> <tr> <th>SAMPLE TYPE</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>Matrix Code (see back of COC)</td> <td>Grab (G) or Comp (C)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				SAMPLE TYPE	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	Matrix Code (see back of COC)	Grab (G) or Comp (C)									Alkalinity, Chloride				Hardness				Iron, Manganese				Boron				Ammonia + Kjeldahl				VOCs + tetrahydro				MS/MSD Request				Airbill No:			
SAMPLE TYPE	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																																													
Matrix Code (see back of COC)	Grab (G) or Comp (C)																																																									
Sampler(s): R. Ann + K. Jenkin																															Date Shipped:																											
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	Alkalinity, Chloride	Hardness	Iron, Manganese	Boron	Ammonia + Kjeldahl	VOCs + tetrahydro	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:																																			
1	W-180724-R-01		001	4/24/18	LC	G	1	3	1	1					6	/	/	/	/	/	/		Mw-2A																																			
2	W-180724-R-02		002				1	3	1						5	/	/	/	/	/	/		Mw-2B																																			
3	W-180724-R-03		003				1	3	1						5	/	/	/	/	/	/		Mw-16A																																			
4	W-180724-R-04		004				1	3	1						5	/	/	/	/	/	/		Mw-16B																																			
5	W-180724-R-05		005				1	3	1						5	/	/	/	/	/	/		Mw-16C																																			
6	W-180724-R-06		006				1	3	1						5	/	/	/	/	/	/		Mw-20A																																			
7	W-180724-R-07		007				1	3	1						5	/	/	/	/	/	/		Mw-20B																																			
8	W-180724-R-08		008				1	3	1						5	/	/	/	/	/	/		Mw-20C																																			
9																																																										
10	trip blank		009																																																							
11																																																										
12																																																										
13																																																										
14																																																										
15																																																										
TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other:						Total Number of Containers: 42				Notes/ Special Requirements: Metals were field filtered																																																
All Samples in Cooler must be on COC																																																										
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME																																												
1.		GHD		4/25/18		9:14		1.		Price		4/25/18		0914																																												
2.								2.																																																		
3.								3.																																																		

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

Pace Container Order #346330

40167942

Addresses

Order By :	Ship To :	Return To:
Company <u>GHD SERVICES</u>	Company <u>GHD SERVICES (Pace Analytical)</u>	Company <u>Pace Analytical Green Bay</u>
Contact <u>Anderson, Grant</u>	Contact <u>Ryan Aamot</u>	Contact <u>Milewsky, Dan</u>
Email <u>grant.anderson@ghd.com</u>	Email <u>ryan.aamot@ghd.com</u>	Email <u>dan.milewsky@pacelabs.com</u>
Address <u>1801 Old Highway 8 Northwest</u>	Address <u>1801 Old Highway 8 Northwest</u>	Address <u>1241 Bellevue Street</u>
Address 2 <u>Suite 114</u>	Address 2 <u>Suite 114</u>	Address 2 <u>Suite 9</u>
City <u>Saint Paul</u>	City <u>Saint Paul</u>	City <u>Green Bay</u>
State <u>MN</u> Zip <u>55112</u>	State <u>MN</u> Zip <u>55112</u>	State <u>WI</u> Zip <u>54302</u>
Phone <u>(651) 639-0913</u>	Phone <u>(651) 639-0913</u>	Phone <u>(920)469-2436</u>

Info

Project Name <u>Rhineland LF Groundwater</u>	Due Date <u>04/04/2018</u>	Profile _____	Quote _____
Project Manager <u>Milewsky, Dan</u>	Return _____	Carrier <u>Most Economical</u>	Location _____

Trip Blanks <input checked="" type="checkbox"/> Include Trip Blanks	Bottle Labels <input checked="" type="checkbox"/> Blank <input type="checkbox"/> Pre-Printed No Sample IDs <input type="checkbox"/> Pre-Printed With Sample IDs	Bottles <input type="checkbox"/> Boxed Cases <input type="checkbox"/> Individually Wrapped <input type="checkbox"/> Grouped By Sample
Return Shipping Labels <input type="checkbox"/> No Shipper Number <input type="checkbox"/> With Shipper Number	Misc <input type="checkbox"/> Sampling Instructions <input type="checkbox"/> Custody Seal <input type="checkbox"/> Temp. Blanks <input checked="" type="checkbox"/> Coolers _____ <input type="checkbox"/> Syringes _____	
COC Options <input checked="" type="checkbox"/> Number of Blanks <u>2</u> <input type="checkbox"/> Pre-Printed _____	<input type="checkbox"/> Extra Bubble Wrap <input type="checkbox"/> Short Hold/Rush Stickers <input type="checkbox"/> DI Water <u>Liter(s)</u> <input type="checkbox"/> USDA Regulated Soils	

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
2	WT	Trip BLANK	2-40mL HCL w/custody seal	4	0	B-7-324-01VB	
11	WT	VOC W/ List	3-40ml clear vial HCl-hydrochloric acid	33	0	B-8-058-02VB	
11	WT	Alkalinity and Chloride	250mL plastic unpres	11	0	M-8-039-06BB	
11	WT	Hardness and Metals	250mL plastic HNO3-nitric acid	11	0	M-8-054-04BB	
3	WT	Ammonia and TKN	250mL plastic H2SO4	3	0	M-8-067-05BB	

Hazard Shipping Placard In Place : NA

- *Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with your project manager.
- *Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
- *Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.
- *Payment term are net 30 days.
- *Please include the proposal number on the chain of custody to insure proper billing.

Sample Notes

Ship Date :	<u>04/02/2018</u>
Prepared By:	<u>Mai Yer Her</u>
Verified By:	_____

Sample Condition Upon Receipt Form (SCUR)

Client Name: CRA

Project #: _____

WO#: 40167942

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: _____
Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
Custody Seal on Samples Present: yes no Seals intact: yes no
Packing Material: Bubble Wrap Bubble Bags None Other _____
Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: POI / Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
Date: 4/25/18
Initials: SSM

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A MS/MSD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>U</u>		<u>No collect times</u> <u>SSM 4/25/18</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>390</u>		

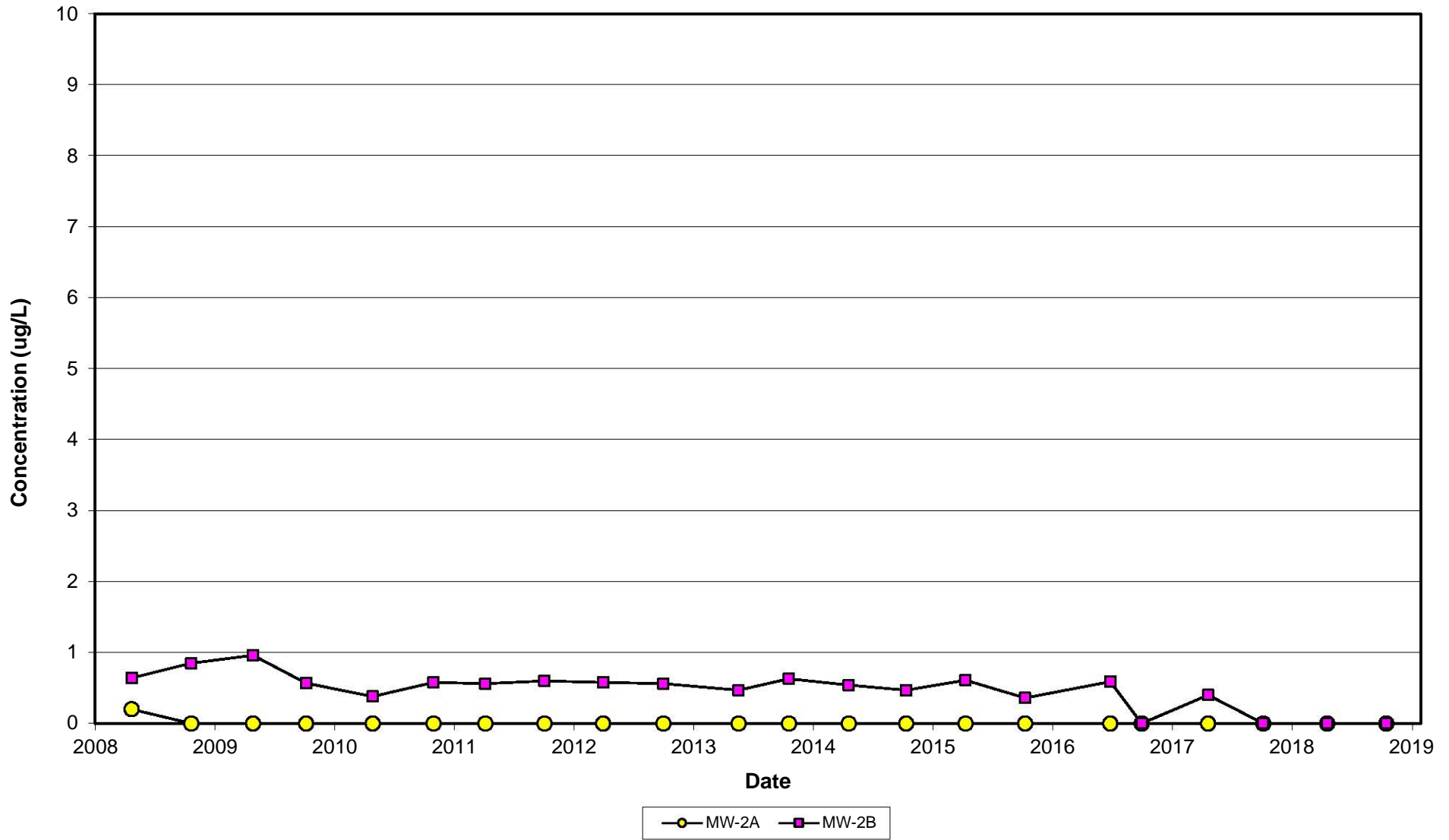
Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: AL for DM Date: 4/25/18

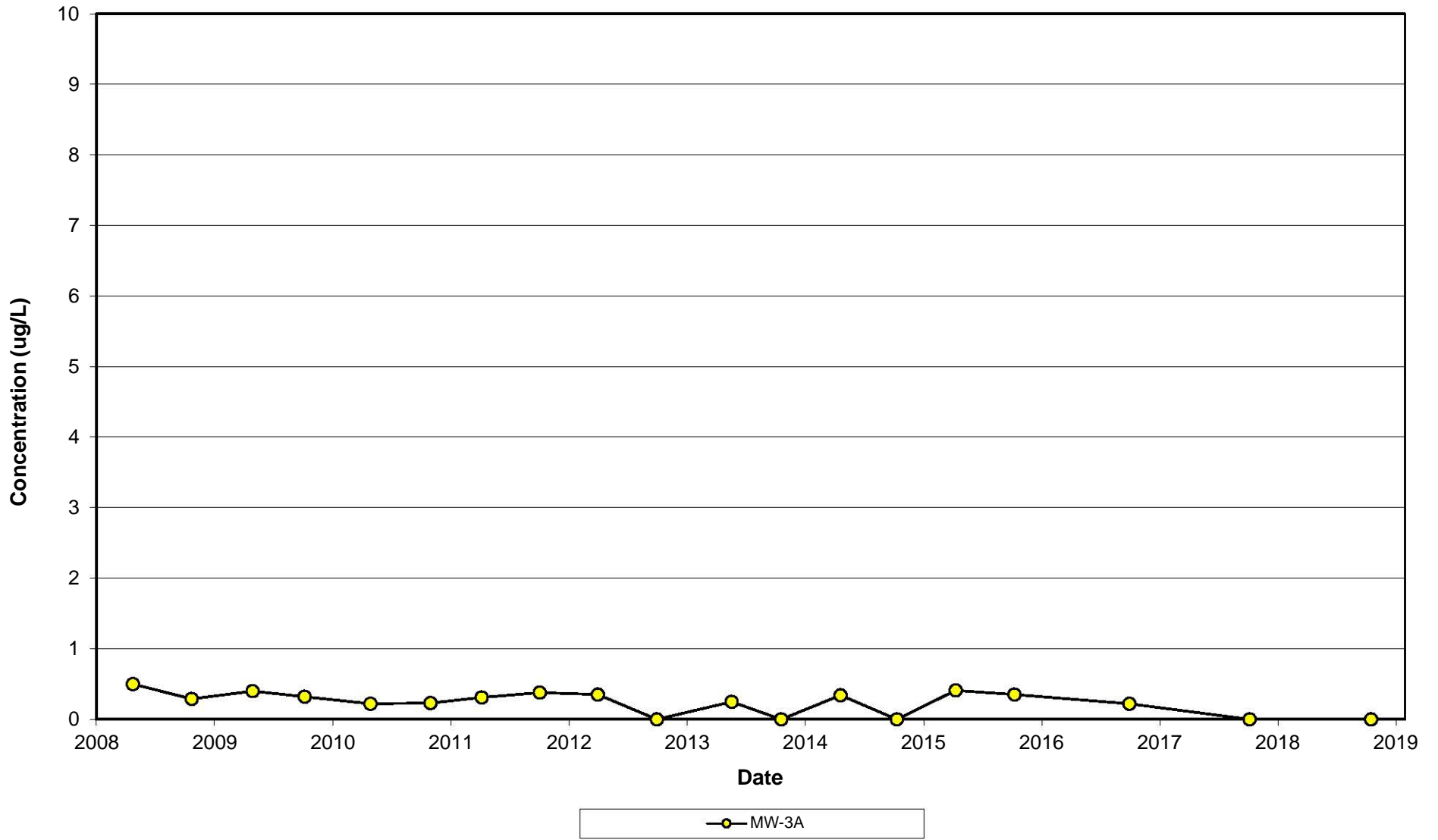
Appendix C

Vinyl Chloride Graphs

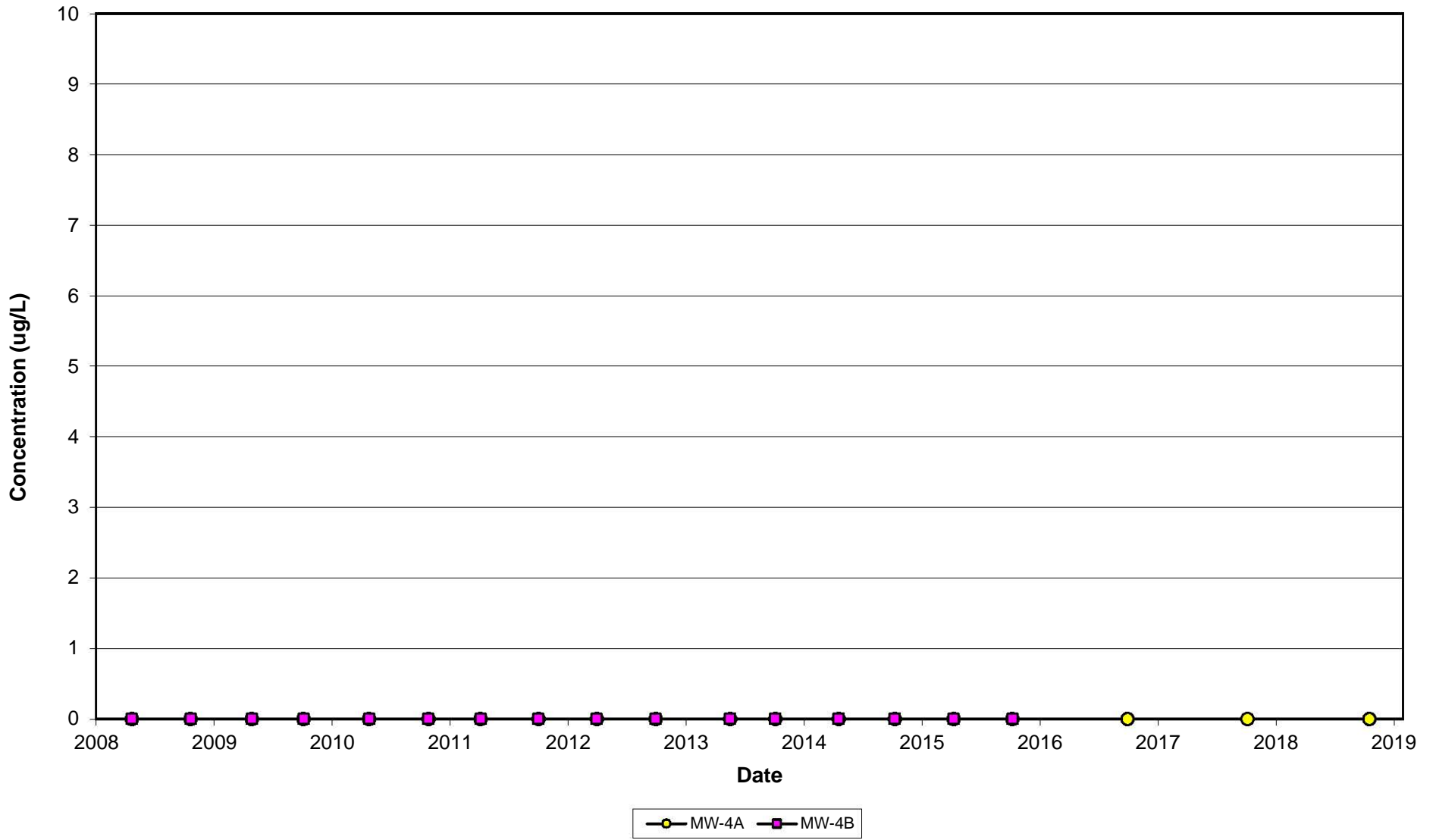
Vinyl Chloride Concentrations Over Time
(MW-2 NEST)
Rhinelanders Landfill
Rhinelanders, Wisconsin



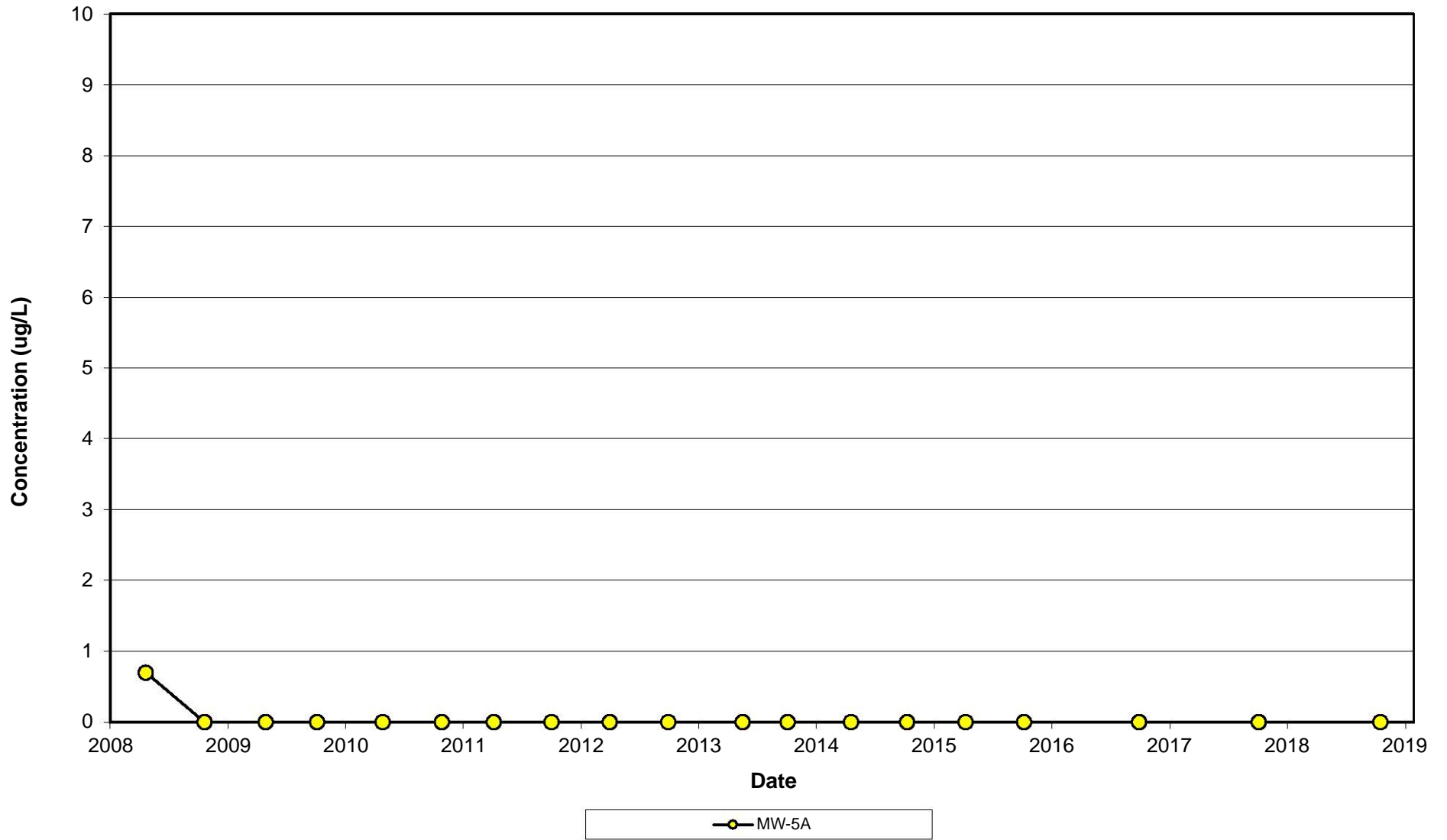
Vinyl Chloride Concentrations Over Time
(MW-3A)
Rhinelanders Landfill
Rhinelanders, Wisconsin



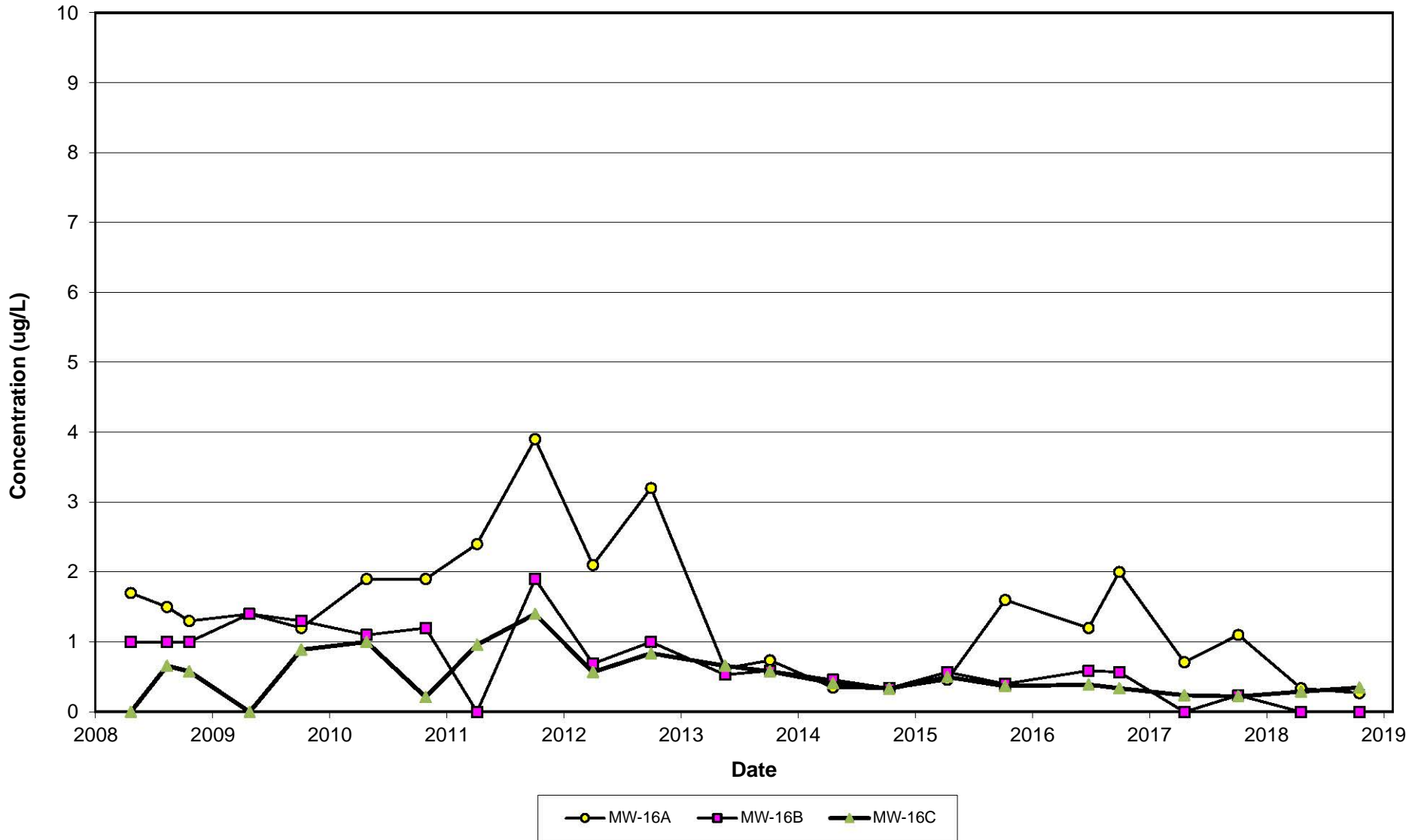
Vinyl Chloride Concentrations Over Time
(MW-4 NEST)
Rhinelanders Landfill
Rhinelanders, Wisconsin



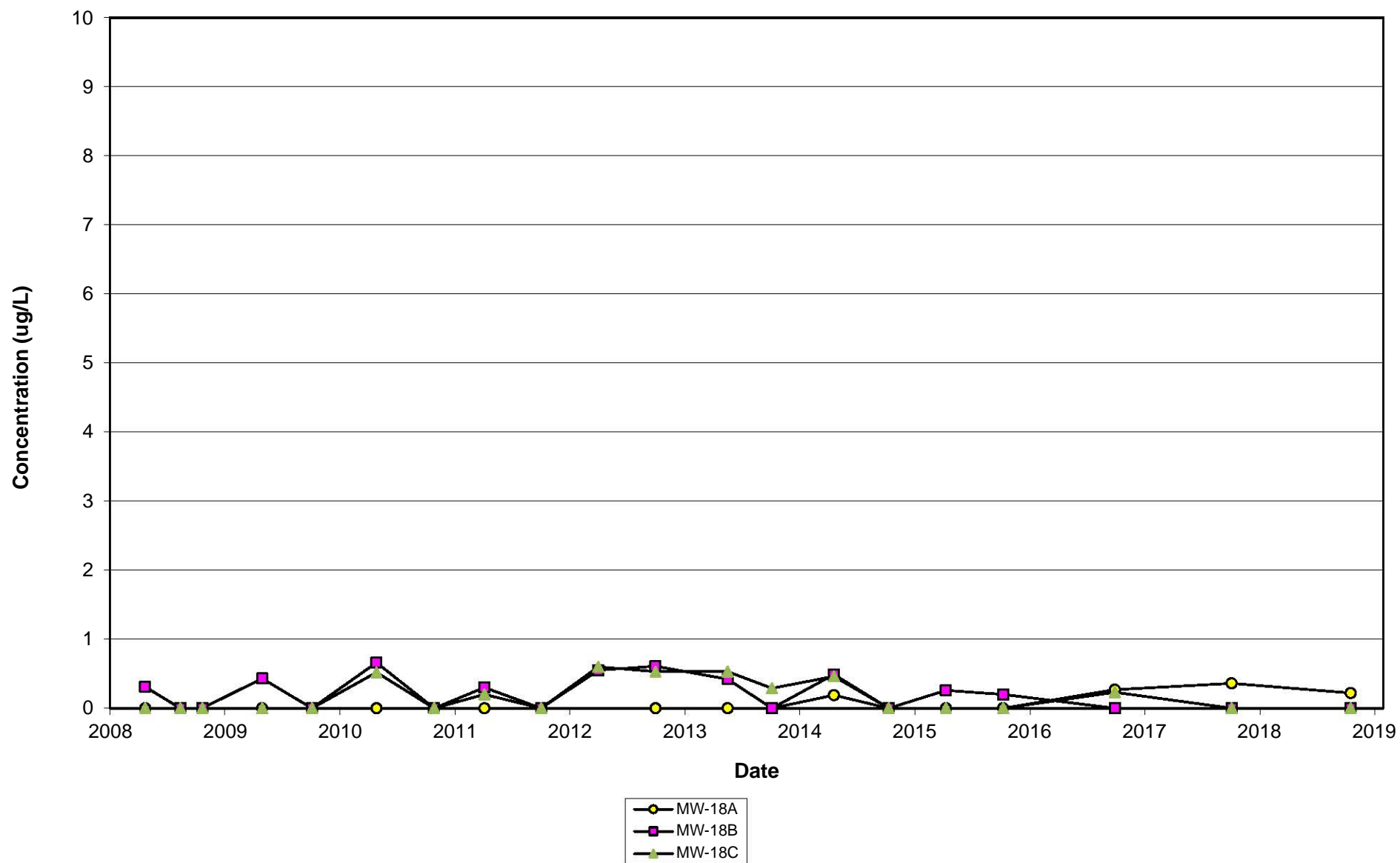
Vinyl Chloride Concentrations Over Time
(MW-5A)
Rhinelanders Landfill
Rhinelanders, Wisconsin



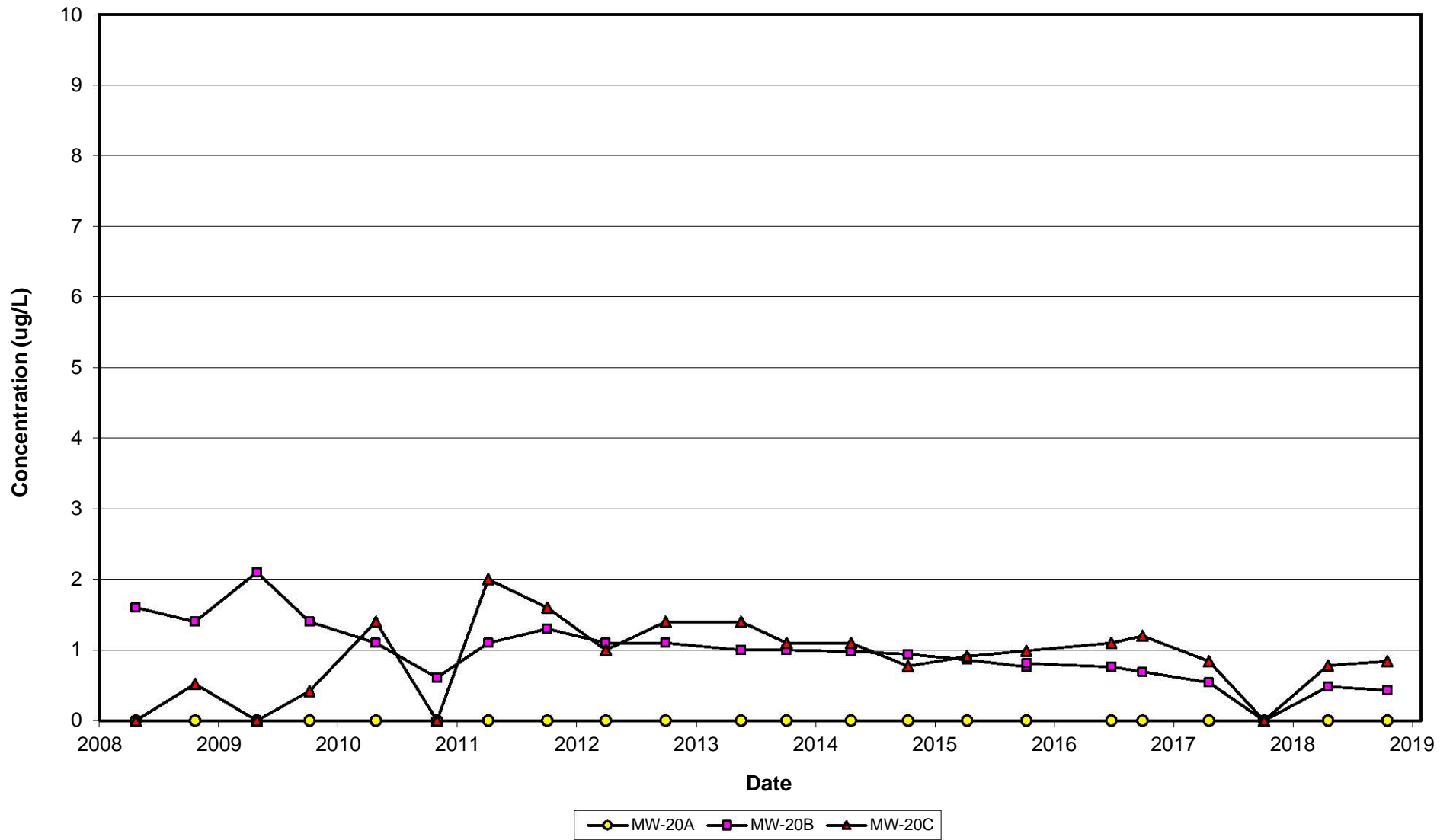
Vinyl Chloride Concentrations Over Time
(MW-16 NEST)
Rhineland Landfill
Rhineland, Wisconsin



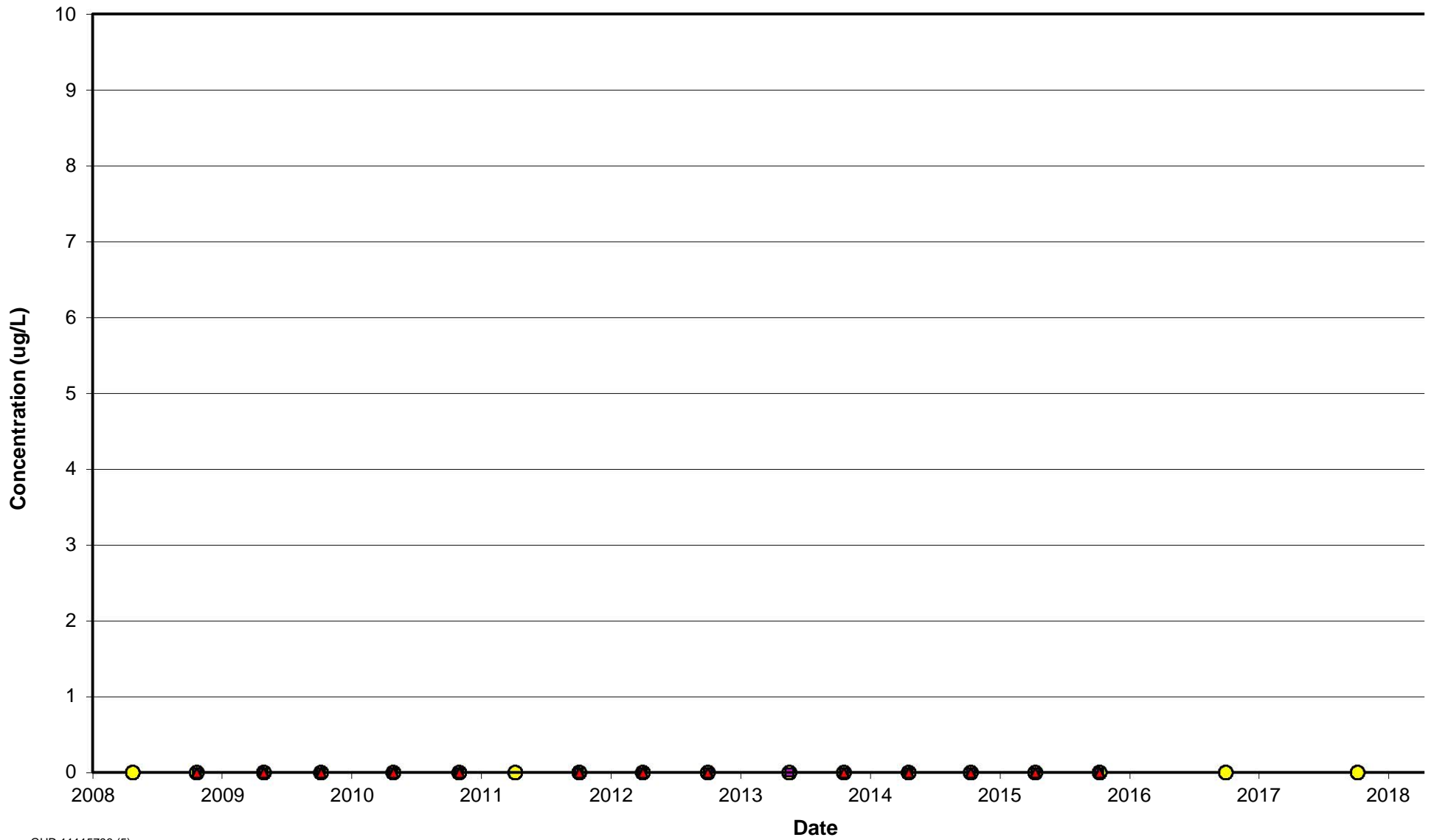
Vinyl Chloride Concentrations Over Time
 (MW-18 NEST)
 Rhinelander Landfill
 Rhinelander, Wisconsin



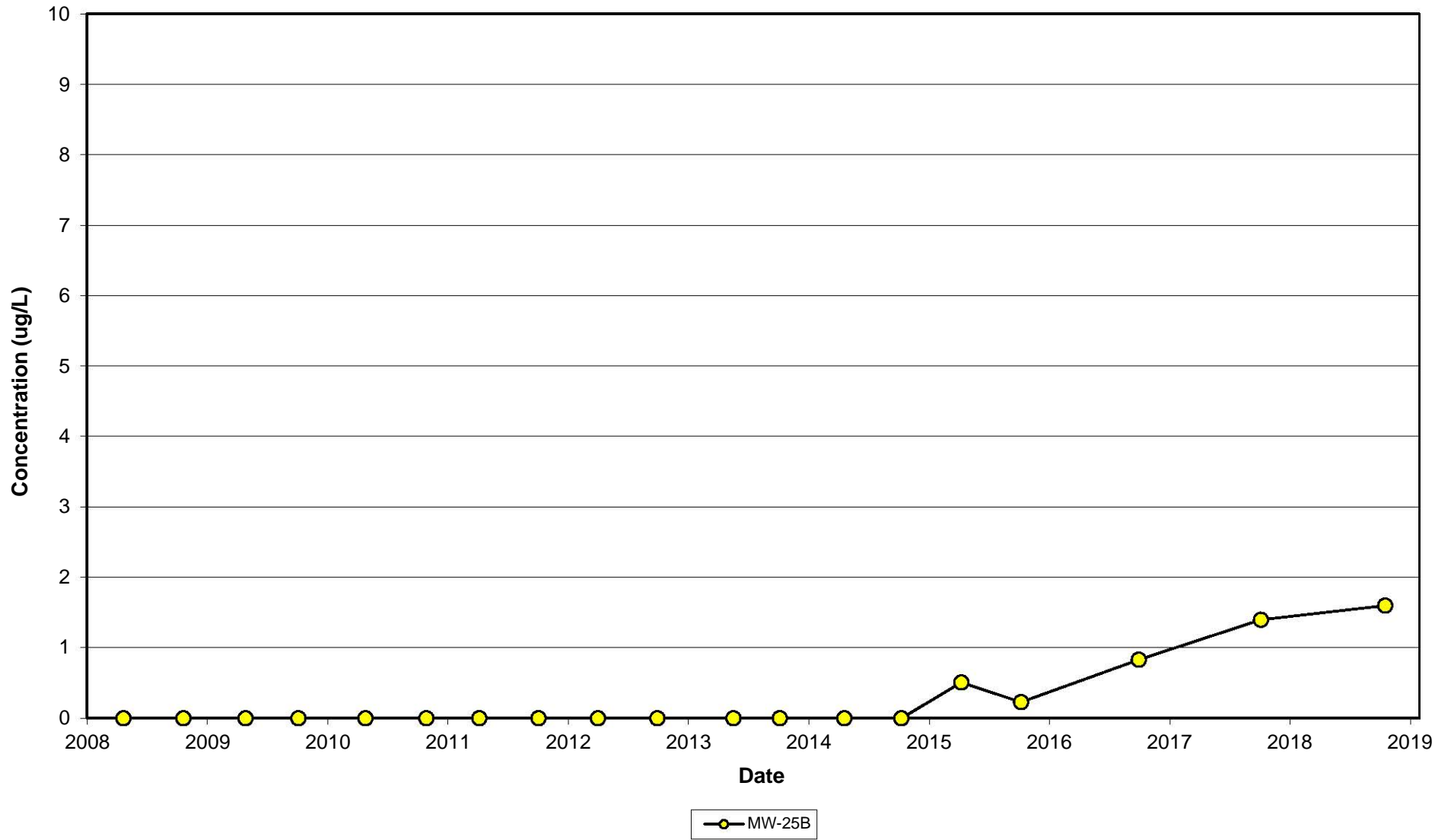
Vinyl Chloride Concentrations Over Time
(MW-20 NEST)
Rhinelanders Landfill
Rhinelanders, Wisconsin



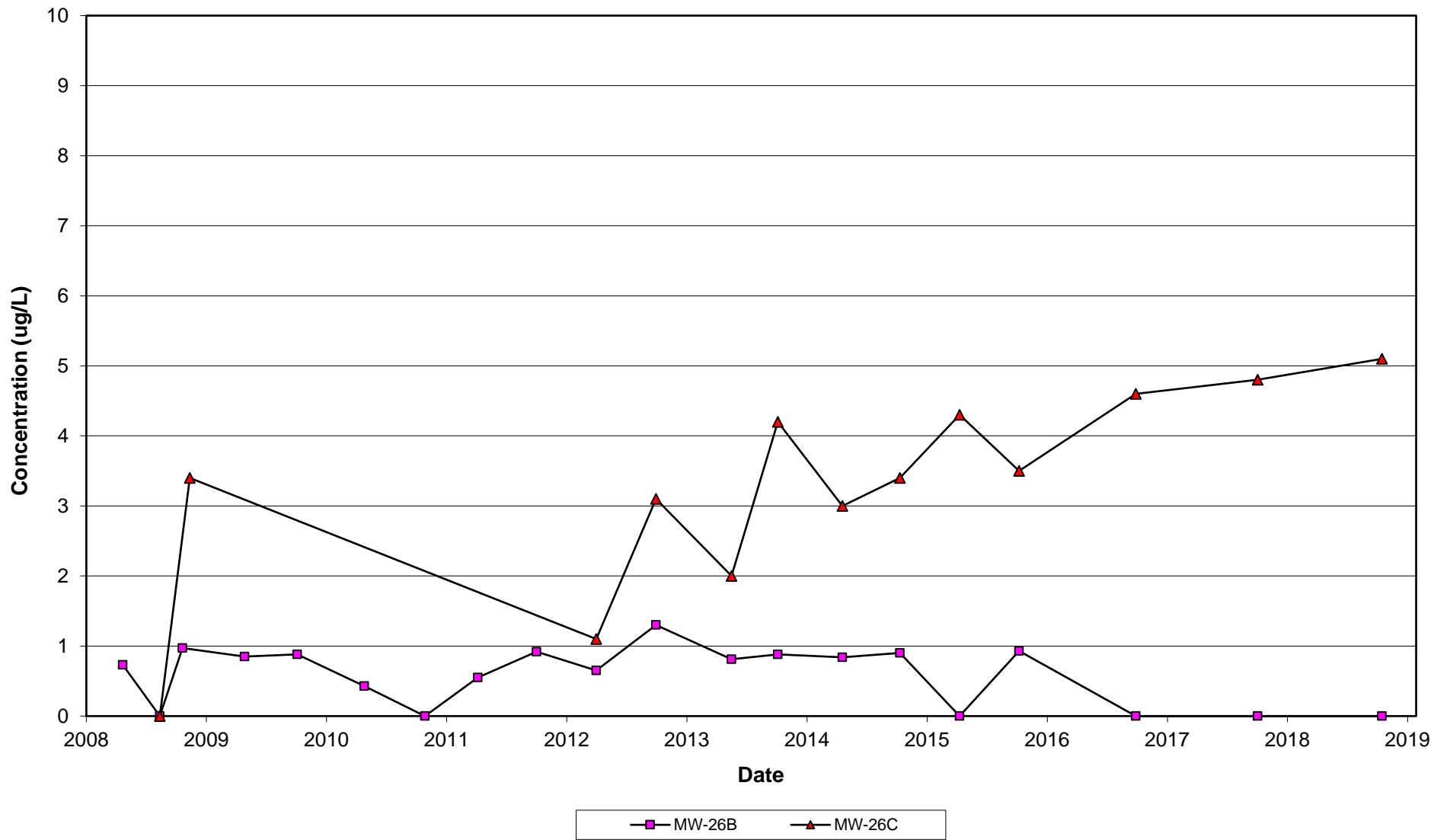
Vinyl Chloride Concentrations Over Time
(MW-21 NEST)
Rhinelanders Landfill
Rhinelanders, Wisconsin



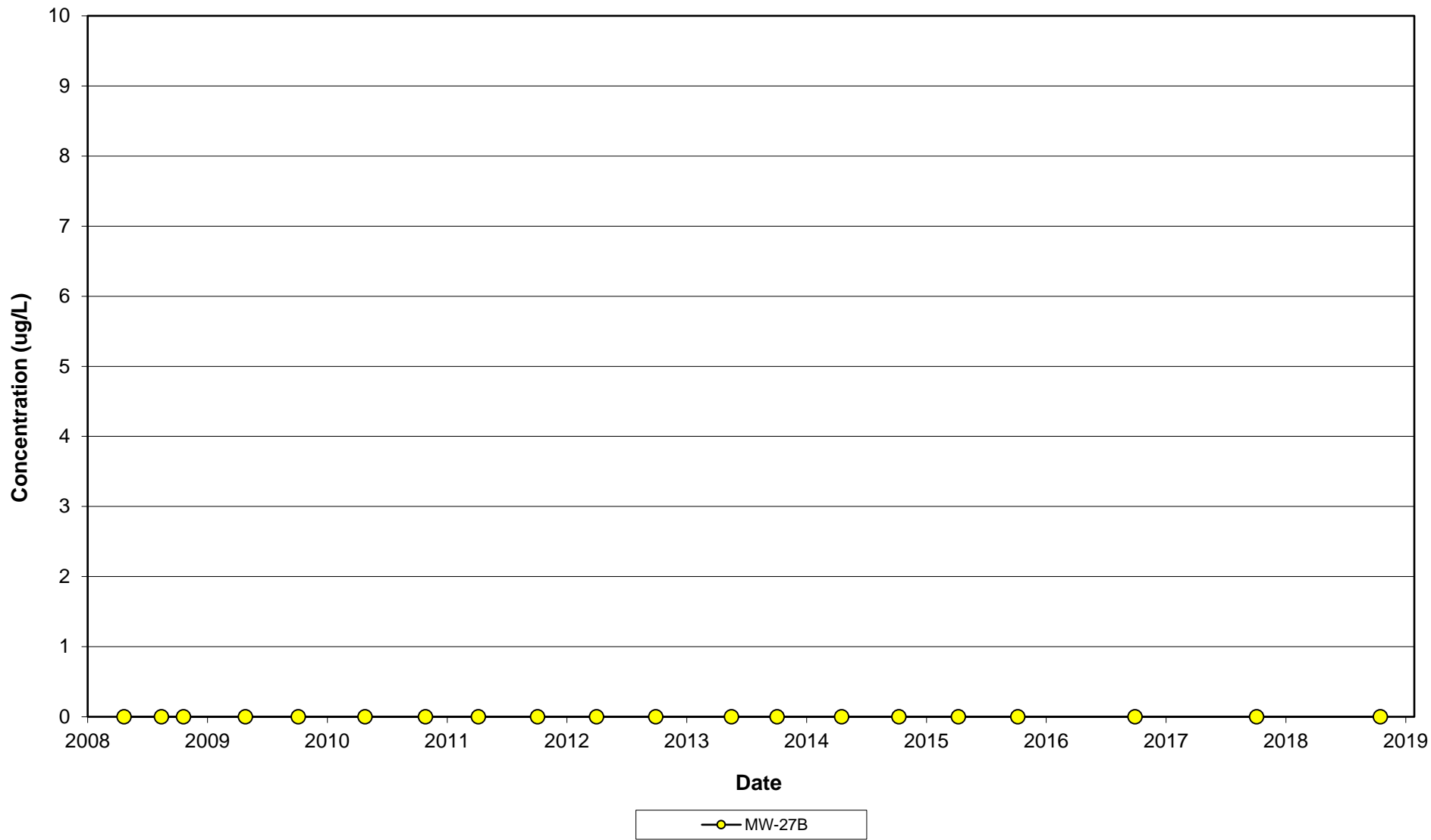
Vinyl Chloride Concentrations Over Time
(MW-25B)
Rhinelanders Landfill
Rhinelanders, Wisconsin



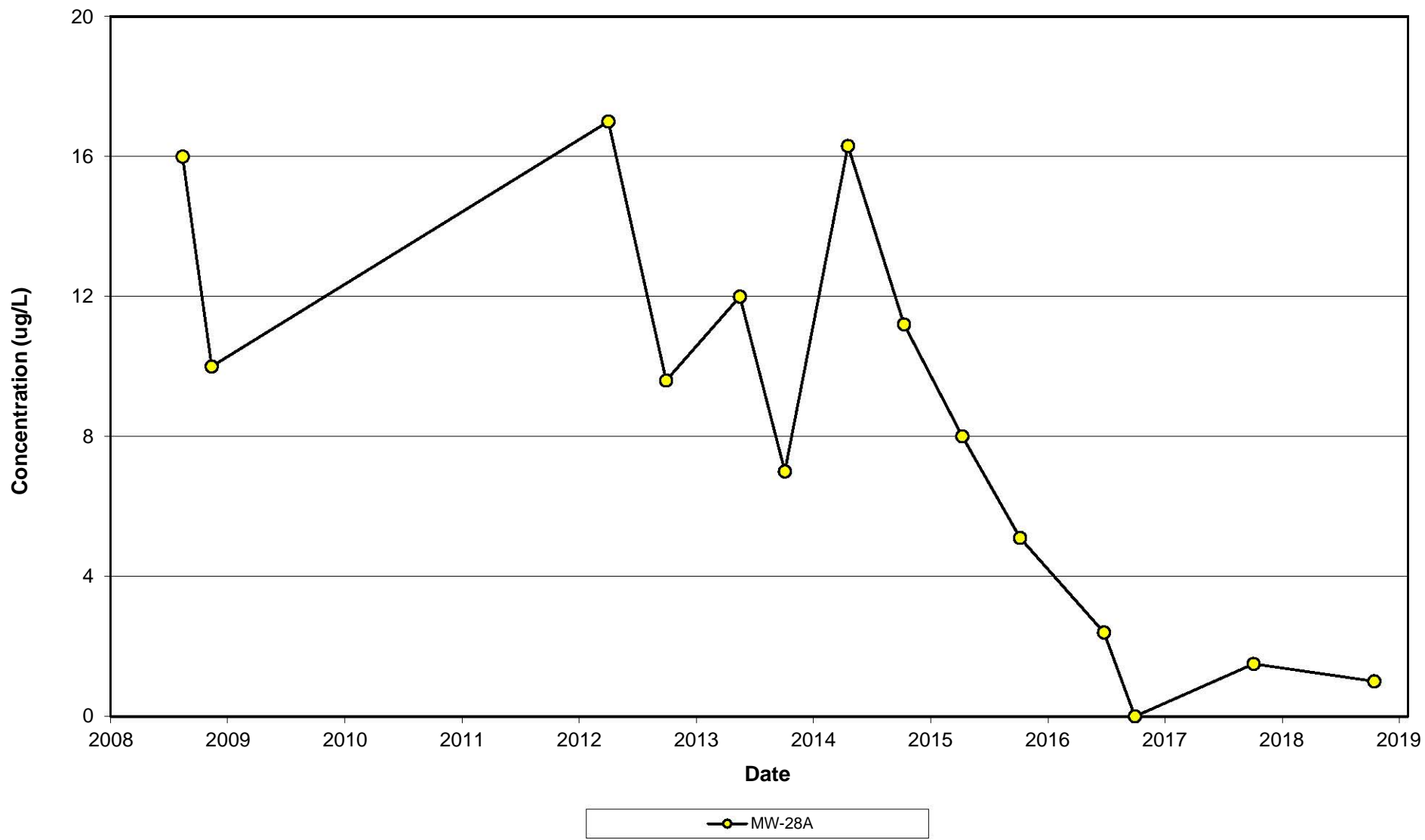
Vinyl Chloride Concentrations Over Time
(MW-26 NEST)
Rhinelanders Landfill
Rhinelanders, Wisconsin



Vinyl Chloride Concentrations Over Time
(MW-27B)
Rhinelanders Landfill
Rhinelanders, Wisconsin



Vinyl Chloride Concentrations Over Time
(MW-28A)
Rhinelanders Landfill
Rhinelanders, Wisconsin





about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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