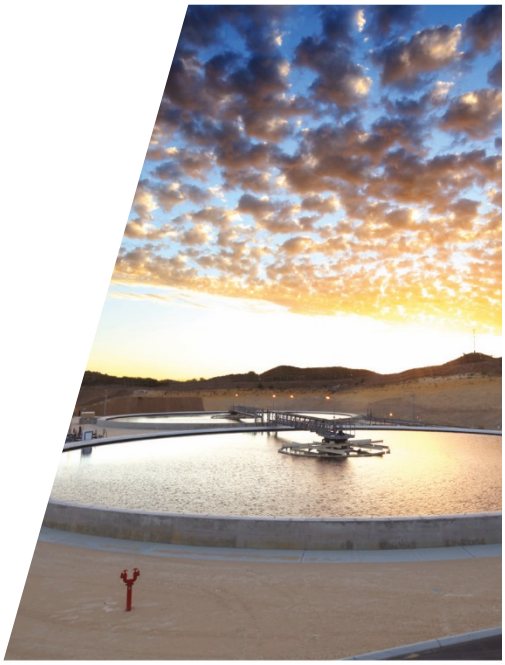
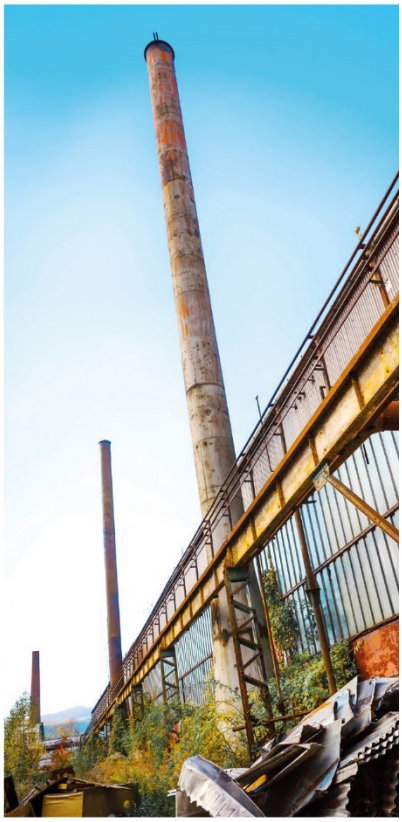


2020 Site Monitoring Report

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 Site is located in the NE ¼ 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 Site is shown on Figure 1.

1.2 Background

The Site 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 2020 Activities

The following activities associated with the Site were conducted in 2020:

- April 14: Semi-Annual groundwater monitoring of 8 monitoring wells
- April 14: Semi-Annual surface water sampling at three locations in Slaughterhouse Creek
- April 28: GHD submits semi-annual GEMS data to the WDNR
- May 22: GHD submits semi-annual groundwater monitoring report to the Wisconsin Department of Natural Resources (WDNR)
- July: City of Rhinelander mows the landfill cover
- October 19-20: Annual groundwater sampling/monitoring of 22 monitoring wells
- October 19: Semi-Annual surface water sampling at three locations in Slaughterhouse Creek
- December 16: GHD submits semi-annual GEMS data to the WDNR
- December 22: City of Rhinelander clears brush around monitoring wells.

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 July 2020.

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 in 2018 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 2020: one in April and one in October. Samples were collected from the following locations and are presented on Figure 2:

- Upstream of the Site 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).

4.2 Sample Results

Surface water results from this period are shown in Table 1. All the results from this period are similar or within the normal range of variability 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 2020 results showed an exceedance of any applicable standard as expressed in NR 105 except for ammonia at the SW-28

location. The discussion in this section compares the results to their codified NR 105 standards. 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 six samples analyzed in 2020, ranging from 42.1 milligrams per liter (mg/L) to 67.2 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.

Lead was not detected in any of the six surface water samples collected in 2020. Copper and zinc were each detected in one of the six surface water samples. All detected concentrations were estimated (J) values with a range from 3.6 J micrograms per liter (µg/L) to 26.6J µg/L. 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. In October 2020, the sample collected from SW-28 (Area 2 Restoration) exceeded the calculated standards from Table 2C and Table 4B. No other samples had concentrations above the acute or chronic standards. The last exceedance for ammonia at SW-28 was in the fall of 2019. The decreased surface water flow in the fall, along with the recent coppicing activities discussed in Section 3, have contributed to the elevated values of ammonia. The surface water locations will be sampled again in April 2021. 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 35 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 2020 sample event required collecting samples from nine monitoring wells. However, MW-28A, was inaccessible and not sampled due to spring flooding. The October 2020 round consisted of collecting samples from 20 monitoring wells.

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 (TKN) 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 water level measurement from each monitoring well during the annual fall sampling round. October 2020 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 October 2020 monitoring event.

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 groundwater elevation data show upward vertical groundwater flow at monitoring well locations along Slaughterhouse Creek and Pelican River, which infers groundwater discharge into these surface water features. Away for these surface water features the groundwater elevations (e.g., MW25A/B and MW4A/B) show downward vertical groundwater flow.

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 5 summarizes the monitoring well sampling events.

Samples were collected immediately after purging. Samples were placed in iced coolers and shipped via standard chain of custody procedures to Pace Analytical Laboratories in Green Bay, Wisconsin.

Appendix B contains a copy of the laboratory reports associated with the 2020 groundwater sampling events. A copy of the data quality assessments and validation memos are also provided in Appendix A.

Table 7 provides a summary of detected compounds in monitoring wells sampled during the April and October 2020 sampling events.

5.4 Groundwater Sampling Results

The analytical results from the 2020 sampling events, along with the previous four years, are presented on Table 7. The groundwater sampling results from 2020 are consistent with historical results. Groundwater laboratory reports 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 three locations (MW-18A, MW-18B, and MW-18C). Vinyl chloride results exceeded the WES at ten locations (MW-2B, MW-16A, MW-16B, MW-16C, MW-20B, MW-20C, MW-25B, MW-26B, MW-26C, and MW-28A).

The VOC exceedances, along with the concentrations for the October 2020 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 dissolved metals exceeded their respective WES in monitoring well samples collected during this reporting period: boron, iron, and manganese.

Boron results exceeded the WES at one location: MW-2A.

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 three locations (MW-2A MW-3A, and MW-21A. Chloride results exceeded the WES at one location (MW-5A).

6. Conclusions and Recommendations

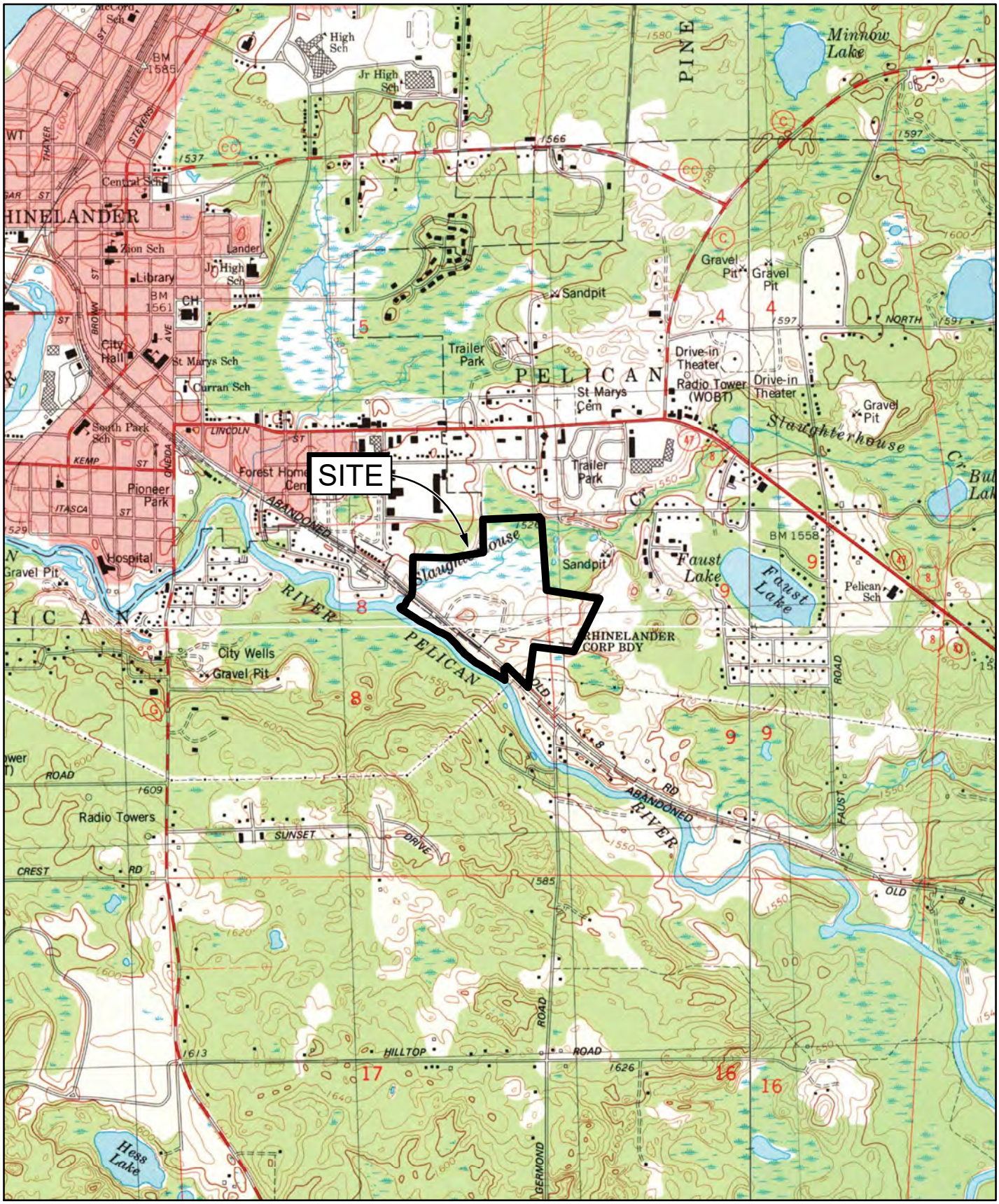
Based on the 2020 surface water and groundwater sampling activities, the following conclusions are made:

- Ammonia exceeded the NR 105 standards in the SW-28 sample from the October 2020 sampling event. No other sample results from the 2020 surface water sampling events indicated an exceedance of any applicable standard.
- Other typical landfill parameters (ammonia and chloride) are present in groundwater but are not impacting the adjacent surface water.
- 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 dissolved metals exceeded their respective WES in monitoring well samples collected during this reporting period: boron, iron, and manganese. The widespread presence of iron and manganese suggests that these elevated levels are naturally occurring and unrelated to the landfill.
- Two other analytes exceeded the WES in the monitoring well samples collected during this reporting period: ammonia and chloride.
- The groundwater sampling results from 2020 are consistent with historical results.
- VOCs are sporadically present at low concentrations and do not indicate the presence of a plume emanating from the Site and impacting surface waters.

Based on the conclusions stated above, GHD, on behalf of the RLG, recommends the following:

- Continue the semi-annual monitoring of the surface water as outlined in Table 5.
- Reduce the amount of analytes collected during the annual sampling round. Currently, GHD samples for VOCs + tetrahydrofuran, alkalinity, chloride, hardness, dissolved metals, ammonia, and TKN. Moving forward, GHD recommends only sampling for VOCs + tetrahydrofuran, and ammonia and TKN, in select wells. The RLG has over twenty years of data indicating consistent levels of alkalinity, chloride, hardness, and dissolved metals. As presented in Table 7, alkalinity, chloride, hardness, and dissolved metals have shown consistent values since 2016. GHD believes that after 20 years of monitoring a comprehensive and consistent database has been established for these parameters, which show a steady state condition. Hence, sampling for these analytes provides no added benefit and is no longer necessary.



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

0 1,000 2,000 ft

N

GHD

FORMER CITY OF RHINELANDER LANDFILL
RHINELANDER, WISCONSIN
2020 SITE MONITORING REPORT

11115796-50

Jan 5, 2021

SITE LOCATION

FIGURE 1

GIS File: I:\GIS\Projects\8-chars\11------\1111----\111157--\11115796\11115796-REPORTS\11115796-50(007)\11115796-50(007)GIS-SP001.mxd

Source: Sand Creek Consultants, Inc.; Oneida County GIS

0 50 100 150 ft

N

LEGEND

- SURFACE WATER SAMPLING LOCATION
- APPROXIMATE EDGE OF WASTE
- SITE PROPERTY BOUNDARY

GHD

FORMER CITY OF RHINELANDER LANDFILL
RHINELANDER, WISCONSIN
2020 SITE MONITORING REPORT

11115796-50

Jan 5, 2021

SURFACE WATER SAMPLING LOCATIONS

FIGURE 2

GIS File: I:\GIS\Projects\8-chars\11------\1111----\111157--\11115796\11115796-REPORTS\11115796-50(007)\11115796-50(007)GIS-SP002.mxd

Source: Sand Creek Consultants, Inc.; Oneida County GIS

0 100 200 ft

LEGEND

- MONITORING WELL LOCATION
- MONITORING WELL (NOT PART OF MONITORING NETWORK)
- APPROXIMATE EDGE OF WASTE
- SITE PROPERTY BOUNDARY

GHD

FORMER CITY OF RHINELANDER LANDFILL
RHINELANDER, WISCONSIN
2020 SITE MONITORING REPORT

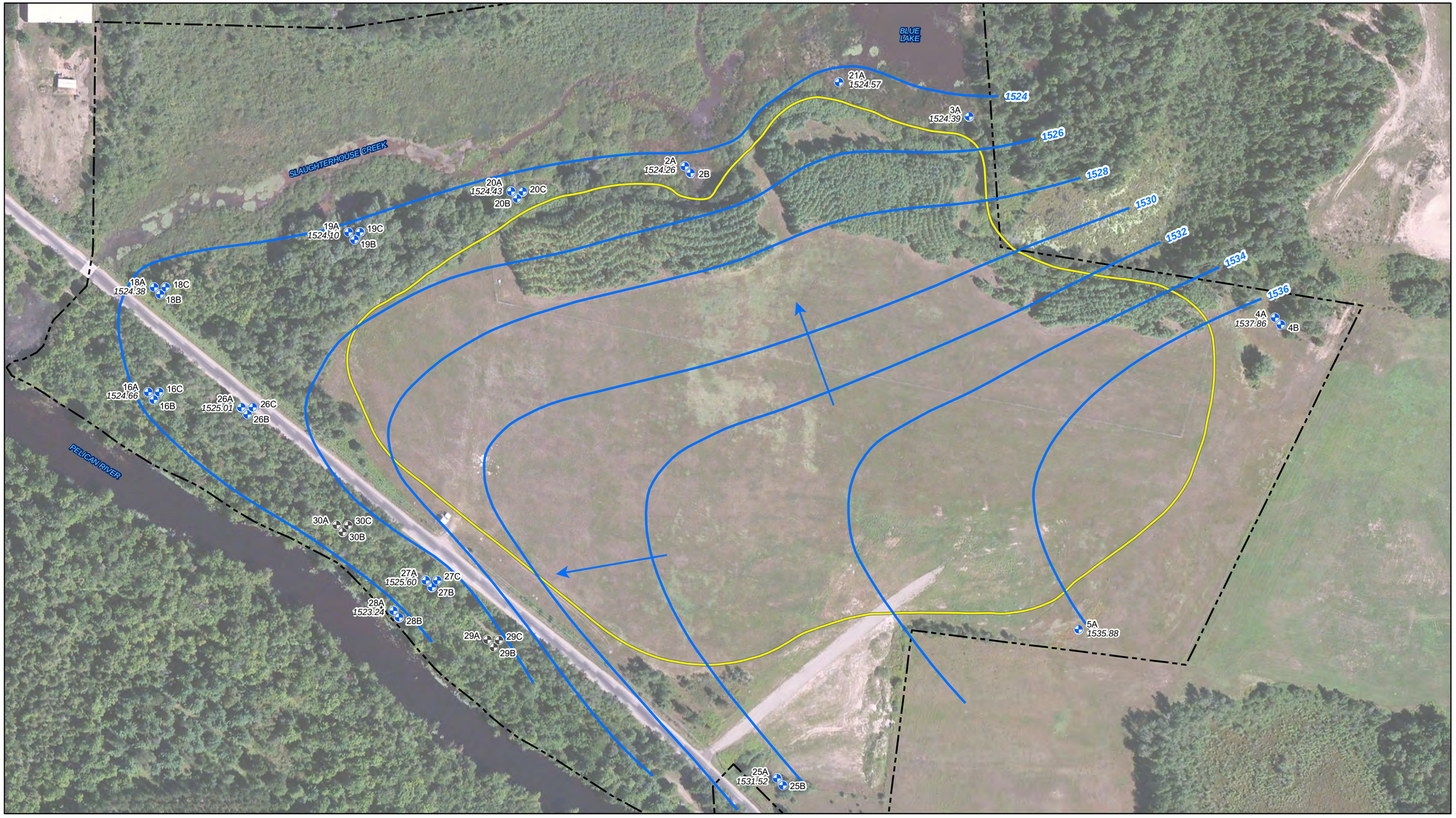
11115796-50

Jan 5, 2021

MONITORING WELL LOCATIONS

FIGURE 3

GIS File: I:\GIS\Projects\8-chars\11-----\1111----\111157--\11115796\11115796-REPORTS\11115796-50(007)\11115796-50(007)GIS-SP003.mxd



Source: Sand Creek Consultants, Inc.; Oneida County GIS

0 100 200 ft

LEGEND

- MONITORING WELL LOCATION
- MONITORING WELL (NOT PART OF MONITORING NETWORK)
- APPROXIMATE EDGE OF WASTE
- GROUNDWATER CONTOUR (FT AMSL)
- GROUNDWATER FLOW DIRECTION
- 1531.98 GROUNDWATER ELEVATION (FT AMSL)

GHD

FORMER CITY OF RHINELANDER LANDFILL
RHINELANDER, WISCONSIN
2020 SITE MONITORING REPORT

SHALLOW GROUNDWATER CONTOURS "A" MONITORING WELLS

11115796-50

Jan 5, 2021

FIGURE 4

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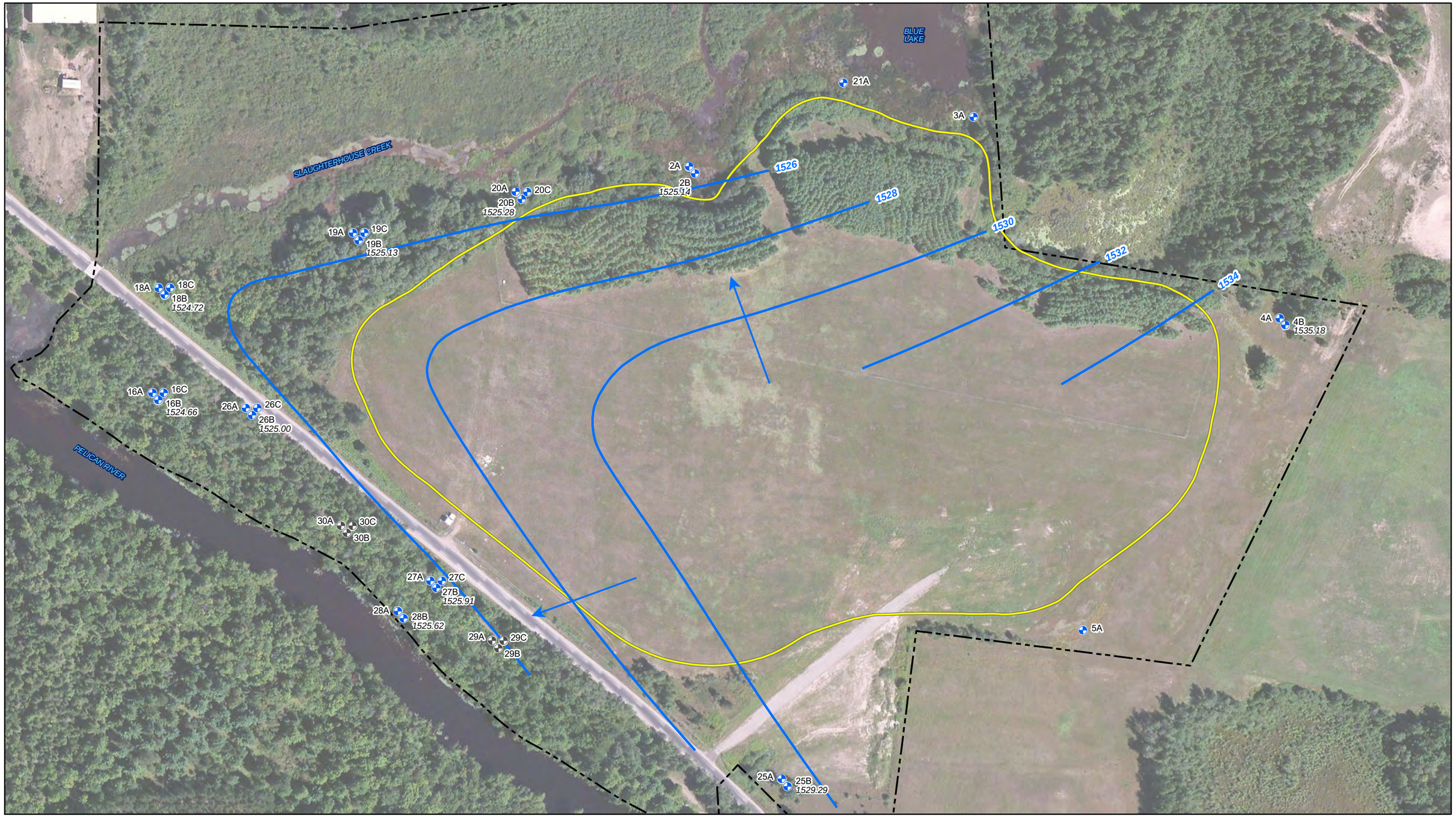

Source: Sand Creek Consultants, Inc.; Oneida County GIS

0 100 200 ft

LEGEND

- MONITORING WELL LOCATION
- MONITORING WELL (NOT PART OF MONITORING NETWORK)
- APPROXIMATE EDGE OF WASTE
- GROUNDWATER CONTOUR (FT AMSL)
- GROUNDWATER FLOW DIRECTION
- *1531.98* GROUNDWATER ELEVATION (FT AMSL)

FORMER CITY OF RHINELANDER LANDFILL
RHINELANDER, WISCONSIN
2020 SITE MONITORING REPORT

INTERMEDIATE GROUNDWATER CONTOURS "B" MONITORING WELLS

11115796-50

Jan 5, 2021

FIGURE 5

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Source: Sand Creek Consultants, Inc.; Oneida County GIS

0 100 200 ft

N

LEGEND

- MONITORING WELL LOCATION
- MONITORING WELL (NOT PART OF MONITORING NETWORK)
- APPROXIMATE EDGE OF WASTE

1531.98 GROUNDWATER ELEVATION (FT AMSL)

GHD

FORMER CITY OF RHINELANDER LANDFILL
RHINELANDER, WISCONSIN
2020 SITE MONITORING REPORT

DEEP GROUNDWATER ELEVATIONS "C" MONITORING WELLS

11115796-50

Jan 5, 2021

FIGURE 6

GIS File: I:\GIS\Projects\8-chars\11-----\1111----\111157--\11115796\11115796-REPORTS\11115796-50(007)\11115796-50(007)GIS-SP006.mxd

NOTES

- *1.4* VINYL CHLORIDE CONCENTRATION (µg/L)
- *7.5* TRICHLOROETHENE CONCENTRATION (µg/L)
- *90.1* TETRAHYDROFURAN CONCENTRATION (µg/L)
- *17.7* BENZENE CONCENTRATION (µg/L)

Source: Sand Creek Consultants, Inc.; Oneida County GIS

0 100 200 ft

LEGEND

- MONITORING WELL LOCATION
- MONITORING WELL (NOT PART OF MONITORING NETWORK)
- APPROXIMATE EDGE OF WASTE
- SITE PROPERTY BOUNDARY

GHD

FORMER CITY OF RHINELANDER LANDFILL
RHINELANDER, WISCONSIN
2020 SITE MONITORING REPORT

11115796-50

Jan 5, 2021

OCTOBER 2020 WES VOC EXCEEDANCES

FIGURE 7

GIS File: I:\GIS\Projects\8-chars\11-----\1111----\111157--\11115796\11115796-REPORTS\11115796-50(007)\11115796-50(007)GIS-SP007.mxd

Table 1

2020 Surface Water Sample Results
Former City of Rhinelander Landfill - Slaughterhouse Creek
Rhinelander, Wisconsin

		Upstream		Downstream		Near Seep	
Sample Location:		**SW-10**	**SW-10**	**SW-20**	**SW-20**	**SW-28**	**SW-28**
Sample Date:		**04/14/20**	**10/19/20**	**04/14/20**	**10/19/20**	**04/14/20**	**10/19/20**
Parameters	**Unit**						
Metals							
Hardness	mg/L	42.9	62.9	59.0	108	56.3	149
Copper	µg/L	< 11.2	< 10.0	< 11.2	< 10.0	3.6 J	< 10.0
Iron	µg/L	2,930	4,700	1,980	6,560	2,930	6,500
Lead	µg/L	< 19.7	< 20.0	< 19.7	< 20.0	< 19.7	< 20.0
Sodium	µg/L	33,000	21,000	24,400	29,200	21,200	27,000
Zinc	µg/L	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	26.6 J
General Chemistry							
Fecal coliform bacteria	cfu/100mL	< 6.2	7.06	1.00 J	44.0 J	4.00 J	7.37 J
Ammonia	mg/L	< 0.87	< 0.87	0.39 J	1.3	1.1	23.7
Chemical oxygen demand (COD)	mg/L	16.1 J	30.5 J	< 50.0	30.5 J	< 50.0	46.2 J
Chloride	mg/L	58.4	42.5	50.1	67.2	42.1	42.4
Nitrite/Nitrate	mg/L	0.13 J	0.11 J	0.095 J	0.11 J	0.10 J	2.2
Total kjeldahl nitrogen (TKN)	mg/L	0.34 J	0.51 J	0.93 J	1.8	1.9	24.1
Turbidity	NTU	17.1	21.9	6.7	21.8	10.0	16.6
Field Data							
Temperature	º C	2.72	5.11	3.44	NA	3.21	NA
pH	SU	8.59	7.96	8.62	NA	7.54	NA
Conductivity	µS	290	261	320	NA	278	NA
Dissolved Oxygen	mg/L	0.00	0.00	0.00	NA	0.00	NA
Oxidation Reduction Potential	mV	-57	-36	-80	NA	-110	NA
Turbidity	NTU	20.3	79.7	11.3	NA	18.0	NA

Table 2

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	4/14/2020	Chloride	mg/L	58.4	757	395
SW-10	10/19/2020	Chloride	mg/L	42.5	757	395
SW-20	4/14/2020	Chloride	mg/L	50.1	757	395
SW-20	10/19/2020	Chloride	mg/L	67.2	757	395
SW-28	4/14/2020	Chloride	mg/L	42.1	757	395
SW-28	10/19/2020	Chloride	mg/L	42.4	757	395

Notes:

mg/L - Milligram per liter
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	4/14/2020	Copper	µg/L	< 11.2	6.98	5.02
SW-10	10/19/2020	Copper	µg/L	< 10.0	10.62	7.34
SW-20	4/14/2020	Copper	µg/L	< 11.2	7.36	5.27
SW-20	10/19/2020	Copper	µg/L	< 10.0	15.66	10.44
SW-28	4/14/2020	Copper	µg/L	3.6 J	7.98	5.66
SW-28	10/19/2020	Copper	µg/L	< 10.0	40.72	24.83
SW-10	4/14/2020	Lead	µg/L	< 19.7	47.20	12.36
SW-10	10/19/2020	Lead	µg/L	< 20.0	72.51	18.99
SW-20	4/14/2020	Lead	µg/L	< 19.7	49.86	13.06
SW-20	10/19/2020	Lead	µg/L	< 20.0	107.96	28.28
SW-28	4/14/2020	Lead	µg/L	< 19.7	54.09	14.17
SW-28	10/19/2020	Lead	µg/L	< 20.0	287.15	75.21
SW-10	4/14/2020	Zinc	µg/L	< 40.0	57.43	57.43
SW-10	10/19/2020	Zinc	µg/L	< 40.0	84.70	84.70
SW-20	4/14/2020	Zinc	µg/L	< 40.0	60.34	60.34
SW-20	10/19/2020	Zinc	µg/L	< 40.0	121.43	121.43
SW-28	4/14/2020	Zinc	µg/L	< 40.0	64.97	64.97
SW-28	10/19/2020	Zinc	µg/L	26.6 J	294.35	294.35

Notes:

µg/L - Milligram per liter
WWSF - Warm water sportfish

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

Sample Location	Sample Date	Parameter	Units	Result	Temperature (ºC)	pH	WWSF Table 2C Acute Calculated Standard	WWSF Table 4B 30-Day Calculated Standard	WWSF Table 4B Ammonia 4-Day Calculated Standard
SW-10	4/14/2020	Ammonia	mg/L	< 0.87	2.72	8.59	2.70	1.52	3.80
SW-10	10/19/2020	Ammonia	mg/L	< 0.87	5.11	7.96	9.06	4.18	10.46
SW-20	4/14/2020	Ammonia	mg/L	0.39 J	3.44	8.62	2.55	1.44	3.61
SW-20	10/19/2020	Ammonia	mg/L	1.3	5.11	7.96	9.06	4.18	10.46
SW-28	4/14/2020	Ammonia	mg/L	1.1	3.21	7.54	18.72	6.84	17.09
SW-28	10/19/2020	Ammonia	mg/L	23.7	5.11	7.96	9.06	4.18	10.46

Notes:

- mg/L - Milligram per liter
- WWSF - Warm water sportfish
- pH and temperature not collected for SW-20 and SW-28 on 10/19/2020 due to a meter malfunction. pH and temperature values from SW-10 were used

Table 5

Current Monitoring Plan
Rhinelander Landfill
Rhinelander, Wisconsin

Sample Matrix	Field Parameters	Laboratory Parameters	Investigative Samples	QA Samples [1] Field Blanks	QA Samples [1] Field Duplicates	QA Samples [1] MS [2]	QA Samples [1] MSD [2]	Total Per Round	Current Sampling Frequency
Groundwater									
Semi-Annual Wells [3]	pH, Temperature, Conductivity, DO, Turbidity, ORP	VOCs+tetrahydrofuran, 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, 28B
6 Dissolved Metals will be field filtered and inlcude 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

2020 Groundwater Elevation Summary
Rhinelander Landfill
Rhinelander, Wisconsin

Monitoring Well	Top of Casing Elevation	Groundwater Elevation October 2020
MW2A	1527.01	1524.26
MW2B	1528.04	1525.14
MW3A	1527.02	1524.39
MW4A	1551.28	1537.86
MW4B	1549.99	1535.18
MW5A	1549.13	1535.88
MW16A	1533.07	1524.66
MW16B	1532.85	1524.66
MW16C	1533.09	1524.69
MW18A	1529.83	1524.38
MW18B	1529.83	1524.72
MW18C	1529.76	1524.70
MW19A	1531.91	1524.10
MW19B	1532.16	1525.13
MW19C	1532.04	1525.27
MW20A	1529.35	1524.43
MW20B	1530.56	1525.28
MW20C	1530.34	1525.39
MW21A	1528.42	1524.57
MW25A	1544.85	1531.52
MW25B	1545.18	1529.29
MW26A	1529.95	1525.01
MW26B	1529.21	1525.00
MW26C	1530.06	1524.81
MW27A	1537.44	1525.60
MW27B	1536.52	1525.91
MW27C	1536.79	1527.15
MW28A	1529.04	1523.24
MW28B	1528.33	1525.62

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	QA/QC	Boron (dissolved) ug/L	Hardness, calculation mg/L	Iron (dissolved) ug/L	Manganese (dissolved) ug/L	Alkalinity, total (as CaCO3) mg/L	Ammonia mg/L	Chloride mg/L	Total kjeldahl nitrogen (TKN) mg/L	1,1-Dichloroethane ug/L	1,2,4-Trimethylbenzene ug/L	1,3,5-Trimethylbenzene ug/L	1,2-Dichlorobenzene ug/L	1,2-Dichloropropane ug/L	1,4-Dichlorobenzene ug/L	Benzene ug/L	Chlorobenzene ug/L	Chloromethane (Methyl chloride) ug/L	cis-1,2-Dichloroethene ug/L	Cymene (p-Isopropyltoluene) ug/L	Dichlorodifluoromethane (CFC-12) ug/L	Isopropyl benzene ug/L	m&p-Xylenes ug/L	o-Xylene ug/L
		WES	1000	- -	300	50	- -	9.7	250	- -	850	480		600	5	75	5	100	30	70	- -	1000	- -	2000	
		PAL	200	- -	150	25	- -	0.97	- -	- -	85	96		60	0.5	15	0.5	- -	3	7	- -	200	- -	400	
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	< 5.0	< 5.0	8.5 J	< 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	< 5.0	0.75 J	8.5 J	< 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	< 1.0	0.55 J	6.1	0.72 J
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	< 1.0	0.58 J	6.3	0.77 J
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	< 1.0	0.29 J	3.2	< 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	< 1.0	0.35 J	2.3	< 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	< 2.0	0.55 J	5.7	< 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	< 5.0	0.48 J	6.1	0.58 J
MW-2A	4/30/2019		677	499	58300	760	734	96.9	44.1	96.0	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	13.8	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	1.5 J	< 1.0
MW-2A	9/25/2019		1320	890	36800	1060	1660	198	57.0	192	< 1.0 J	1.4 J-	1.0 J-	< 2.4 J	< 1.0 J	< 3.1 J	17.7	0.76 J-	< 7.3 J	< 1.0 J	< 2.7 J	< 5.0 J	< 5.0 J	2.1	0.51 J-
MW-2A	04/14/2020		--	--	--	--	--	251	--	256	< 1.0	2.7 J	2.0 J	< 2.4	< 1.0	1.4 J	28.9	1.3 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	4.9	0.63 J
MW-2A	10/19/2020		1180	793	34100	1150	1830	259	57.8	216	< 1.0	2.0 J	1.4 J	< 2.4	< 1.0	< 3.1	15.4	0.75 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	2.6	0.51 J
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-2B	4/30/2019		--	182	22200	1220	214	--	28.3	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.86 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-2B	9/25/2019		--	208	24600	1200	209	--	37.8	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.36 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-2B	04/14/2020		--	--	--	--	--	--	--	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.88 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
MW-2B	10/19/2020		--	194	23100	1280	238	--	38.1	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.73 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	1.6 J	< 1.0
MW-3A	10/19/2020		41.1	323	47800	4050	627	67.0	28.2	63.0	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.3	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	0.88 J	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
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	< 5.0	< 5.0	< 2.0	< 1.0
MW-4A	9/24/2019		16.3 J	144	< 100	< 5.0	111	--	22.4	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	2.6 J	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-4A	10/20/2020		13.8 J	118	< 100	1.6 J	96.2 J	--	23.4	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0

Table 7

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

Location	Date	QA/QC	Boron (dissolved) ug/L	Hardness, calculation mg/L	Iron (dissolved) ug/L	Manganese (dissolved) ug/L	Alkalinity, total (as CaCO3) mg/L	Ammonia mg/L	Chloride mg/L	Total kjeldahl nitrogen (TKN) mg/L	1,1-Dichloroethane ug/L	1,2,4-Trimethylbenzene ug/L	1,3,5-Trimethylbenzene ug/L	1,2-Dichlorobenzene ug/L	1,2-Dichloropropane ug/L	1,4-Dichlorobenzene ug/L	Benzene ug/L	Chlorobenzene ug/L	Chloromethane (Methyl chloride) ug/L	cis-1,2-Dichloroethene ug/L	Cymene (p-Isopropyltoluene) ug/L	Dichlorodifluoromethane (CFC-12) ug/L	Isopropyl benzene ug/L	m&p-Xylenes ug/L	o-Xylene ug/L
		WES	1000	- -	300	50	- -	9.7	250	- -	850	480		600	5	75	5	100	30	70	- -	1000	- -	2000	
		PAL	200	- -	150	25	- -	0.97	- -	- -	85	96		60	0.5	15	0.5	- -	3	7	- -	200	- -	400	
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-5A	9/24/2019		18.7 J	958	56.4 J	2490	21.1 J	--	1200	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-5A	10/20/2020		11.1 J	186	< 100	1910	81.5 J	--	440	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-16A	4/29/2019		--	201	3690	4100	211	--	25.8	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.76 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-16A	9/25/2019		--	249	5310	4430	225	--	28.7	--	0.41 J	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.1	< 2.4	3.7 J	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-16A	9/25/2019	D	--	245	5540	4430	230	--	28.7	--	0.43 J	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.1	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-16A	04/14/2020		--	--	--	--	--	--	--	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.64 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
MW-16A	10/19/2020		--	185	5330	3490	199	--	25.6	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.49 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-16B	4/29/2019		--	221	34400	3690	224	--	36.4	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.0 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-16B	4/29/2019	D	--	220	34100	3700	232	--	36.7	--	0.28 J	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-16B	9/25/2019		--	241	35600	3640	228	--	34.2	--	0.41 J	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.2	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-16B	04/14/2020		--	--	--	--	--	--	--	--	0.28 J	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.87 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
MW-16B	10/19/2020		--	225	31100	3730	232	--	36.7	--	0.30 J	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.85 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	1.1 J	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	1.4 J	< 1.0

Table 7

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

Location	Date	QA/QC	Boron (dissolved) ug/L	Hardness, calculation mg/L	Iron (dissolved) ug/L	Manganese (dissolved) ug/L	Alkalinity, total (as CaCO3) mg/L	Ammonia mg/L	Chloride mg/L	Total kjeldahl nitrogen (TKN) mg/L	1,1-Dichloroethane ug/L	1,2,4-Trimethylbenzene ug/L	1,3,5-Trimethylbenzene ug/L	1,2-Dichlorobenzene ug/L	1,2-Dichloropropane ug/L	1,4-Dichlorobenzene ug/L	Benzene ug/L	Chlorobenzene ug/L	Chloromethane (Methyl chloride) ug/L	cis-1,2-Dichloroethene ug/L	Cymene (p-Isopropyltoluene) ug/L	Dichlorodifluoromethane (CFC-12) ug/L	Isopropyl benzene ug/L	m&p-Xylenes ug/L	o-Xylene ug/L
		WES	1000	- -	300	50	- -	9.7	250	- -	850	480		600	5	75	5	100	30	70	- -	1000	- -	2000	
		PAL	200	- -	150	25	- -	0.97	- -	- -	85	96		60	0.5	15	0.5	- -	3	7	- -	200	- -	400	
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	< 5.0	< 5.0	1.6 J	< 1.0
MW-16C	4/29/2019		--	232	27200	2180	232	--	43.9	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.2	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	0.89 J	< 1.0
MW-16C	9/25/2019		--	252	28400	2160	239	--	40.2	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.1	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	0.75 J	< 1.0
MW-16C	04/14/2020		--	--	--	--	--	--	--	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
MW-16C	10/19/2020		--	228	26200	2160	237	--	44.5	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.91 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	0.48 J	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-18A	9/25/2019		--	271	2880	1180	177	--	71.6	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	4.1	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-18A	10/19/2020		--	255	2410	1530	187	--	78.1	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	5.6	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-18B	9/25/2019		--	395	30.7 J	2330	216	--	147	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	0.83 J	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-18B	10/19/2020		--	240	< 100	1530	127	--	96.0	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	1.9	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-18C	9/25/2019		60.8	356	< 100	1460	158	--	157	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-18C	10/19/2020		43.0	243	45.3 J	1180	131	--	97.1	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	2.4	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	4.7	82.5	3.3
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	< 1.0	4.4	72.0	2.2
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	< 1.0	2.7	40.8	1.3
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	< 1.0	3.3	46.5	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	< 1.0	3.5	50.6	1.1
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	< 5.0	4.0 J	56.4	1.6
MW-20A	4/30/2019		505	175	75300	848	255	--	10.8	--	< 1.0	16.7	3.1	< 2.4	< 1.0	1.6 J	1.2	4.3	< 7.3	< 1.0	< 2.7	< 5.0	3.2 J	39.4	1.0
MW-20A	9/24/2019		813	264	115000	953	446	--	11.8	--	< 1.0	23.7	4.4	0.85 J	< 1.0	2.0 J	2.2	7.2	3.4 J	< 1.0	< 2.7	< 5.0	4.3 J	53.0	1.6
MW-20A	04/14/2020		--	--	--	--	--	--	--	--	< 1.0	27.2	5.8	0.75 J	< 1.0	2.4 J	1.4	4.8	< 7.3	< 1.0	< 2.7	< 5.0	4.1 J	54.9	1.4
MW-20A	10/20/2020		732	255	101000	959	479 J	--	11.9	--	< 1.0	25.3	4.5	0.92 J	< 1.0	2.1 J	1.9	7.5	< 7.3	< 1.0	< 2.7	< 5.0	4.0 J	55.6	1.2
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 1.0

Table 7

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

Location	Date	QA/QC	Boron (dissolved) ug/L	Hardness, calculation mg/L	Iron (dissolved) ug/L	Manganese (dissolved) ug/L	Alkalinity, total (as CaCO3) mg/L	Ammonia mg/L	Chloride mg/L	Total kjeldahl nitrogen (TKN) mg/L	1,1-Dichloroethane ug/L	1,2,4-Trimethylbenzene ug/L	1,3,5-Trimethylbenzene ug/L	1,2-Dichlorobenzene ug/L	1,2-Dichloropropane ug/L	1,4-Dichlorobenzene ug/L	Benzene ug/L	Chlorobenzene ug/L	Chloromethane (Methyl chloride) ug/L	cis-1,2-Dichloroethene ug/L	Cymene (p-Isopropyltoluene) ug/L	Dichlorodifluoromethane (CFC-12) ug/L	Isopropyl benzene ug/L	m&p-Xylenes ug/L	o-Xylene ug/L
		WES	1000	- -	300	50	- -	9.7	250	- -	850	480		600	5	75	5	100	30	70	- -	1000	- -	2000	
		PAL	200	- -	150	25	- -	0.97	- -	- -	85	96		60	0.5	15	0.5	- -	3	7	- -	200	- -	400	
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-20B	4/30/2019		--	158	16800	1040	142	--	49.5	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.70 J	0.90 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-20B	9/24/2019		--	169	17900	1030	140	--	43.9	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.67 J	0.97 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-20B	04/14/2020		--	--	--	--	--	--	--	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.50 J	0.98 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
MW-20B	10/20/2020		--	150	16200	1020	139 J	--	42.7	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.51 J	0.92 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-20C	4/30/2019		--	188	22200	1460	176	--	49.1	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.94 J	0.72 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-20C	9/24/2019		--	205	23400	1390	186	--	44.9	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.90 J	0.83 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-20C	04/14/2020		--	--	--	--	--	--	--	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.95 J	0.90 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
MW-20C	04/14/2020	D	--	--	--	--	--	--	--	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.96 J	0.94 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
MW-20C	10/20/2020		--	191	21900	1390	204 J	--	47.4	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.77 J	0.79 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
MW-20C	10/20/2020	D	--	194	21900	1400	209	--	47.1	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.84 J	0.77 J	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	0.44 J	10.3	3.0
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	< 10.0	< 10.0	< 20.0	< 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	< 5.0	0.68 J	10.6	2.1
MW-21A	9/25/2019		1180	805	53600	1050	1710	224	46.3	212	< 1.0	3.5	1.8 J	< 2.4	< 1.0	1.9 J	4.2	6.7	< 7.3	< 1.0	< 2.7	< 5.0	0.60 J	6.8	1.7
MW-21A	10/19/2020		--	748	42600	1070	1700	201	40.1	186	< 1.0	3.8	1.9 J	< 2.4	< 1.0	1.8 J	3.8	6.0	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	7.6	2.0
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	0.53 J	< 1.0	< 2.0	< 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	0.47 J	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-25B	9/24/2019		11.4 J	187	73.6 J	41.4	148	--	16.8	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0

Table 7

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

Location	Date	QA/QC	Boron (dissolved) ug/L	Hardness, calculation mg/L	Iron (dissolved) ug/L	Manganese (dissolved) ug/L	Alkalinity, total (as CaCO3) mg/L	Ammonia mg/L	Chloride mg/L	Total kjeldahl nitrogen (TKN) mg/L	1,1-Dichloroethane ug/L	1,2,4-Trimethylbenzene ug/L	1,3,5-Trimethylbenzene ug/L	1,2-Dichlorobenzene ug/L	1,2-Dichloropropane ug/L	1,4-Dichlorobenzene ug/L	Benzene ug/L	Chlorobenzene ug/L	Chloromethane (Methyl chloride) ug/L	cis-1,2-Dichloroethene ug/L	Cymene (p-Isopropyltoluene) ug/L	Dichlorodifluoromethane (CFC-12) ug/L	Isopropyl benzene ug/L	m&p-Xylenes ug/L	o-Xylene ug/L
		WES	1000	- -	300	50	- -	9.7	250	- -	850	480		600	5	75	5	100	30	70	- -	1000	- -	2000	
		PAL	200	- -	150	25	- -	0.97	- -	- -	85	96		60	0.5	15	0.5	- -	3	7	- -	200	- -	400	
MW-25B	10/20/2020		10.2 J	216	< 100	122	221 J	--	18.0	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-26B	9/25/2019		--	216	1410	633	182	--	12.2	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-26B	10/19/2020		--	203	1040	650	201	--	11.9	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	0.36 J	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-26C	9/25/2019		--	256	1440	2500	216	--	22.5	--	0.80 J	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.92 J	< 2.4	< 7.3	0.47 J	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-26C	10/19/2020		--	226	946	2370	230	--	20.2	--	1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.64 J	< 2.4	< 7.3	0.67 J	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-27B	9/25/2019		--	99.6	52.5 J	170	77.1	--	5.5	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-27B	10/20/2020		--	96.6	130	221	86.8 J	--	5.9	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	< 1.0	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	< 2.0	< 1.0
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	< 1.0	0.15 J	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 1.0	< 1.0	< 2.0	< 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	< 5.0	< 5.0	< 2.0	< 1.0
MW-28A	9/25/2019		154	204	6730	1580	213	--	33.3	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.55 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.0	< 2.0	< 1.0
MW-28A	10/20/2020		102	197	11400	3600	227 J	--	34.6	--	< 1.0	< 2.8	< 2.9	< 2.4	< 1.0	< 3.1	0.45 J	< 2.4	< 7.3	< 1.0	< 2.7	< 5.0	< 5.6	0.80 J	< 1.0

Table 7

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

Location	Date	QA/QC	Methylene chloride ug/L	Naphthalene ug/L	N-Butylbenzene ug/L	N-Propylbenzene ug/L	Tetrachloroethene ug/L	Tetrahydrofuran ug/L	Toluene ug/L	Trichloroethene ug/L	Vinyl chloride ug/L
		WES	5	100	- -	- -	5	50	800	5	0.2
		PAL	0.5	10	- -	- -	0.5	10	160	0.5	0.02
MW-2A	6/30/2016		< 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	< 25.0	< 5.0	< 5.0	< 5.0	202	< 5.0	< 5.0	< 5.0
MW-2A	10/4/2016		< 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	4.7 J	< 1.0	0.68 J	< 1.0	217	< 1.0	< 1.0	< 1.0
MW-2A	4/25/2017		< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	184	< 1.0	< 1.0	< 1.0
MW-2A	10/11/2017		< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	133	< 1.0	< 1.0	< 1.0
MW-2A	4/24/2018		< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	185	< 2.0	< 2.0	< 2.0
MW-2A	10/22/2018		< 5.0	4.2 J	< 2.4	< 5.0	< 1.1	216	0.32 J	< 1.0	< 1.0
MW-2A	4/30/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	85.9	0.19 J	< 1.0	< 1.0
MW-2A	9/25/2019		< 5.0 J	3.9 J-	< 2.4 J	< 5.0 J	< 1.1 J	157	0.35 J-	< 1.0 J	< 1.0 J
MW-2A	04/14/2020		< 5.0	5.6	< 2.4	< 5.0	< 1.1	204	0.37 J	< 1.0	< 1.0
MW-2A	10/19/2020		< 5.0	4.7 J	< 2.4	< 5.0	< 1.1	118	0.30 J	< 1.0	< 1.0
MW-2B	6/30/2016		< 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	< 5.0	< 1.0	< 1.0	< 1.0	14.5	< 1.0	< 1.0	< 1.0
MW-2B	4/25/2017		< 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	< 5.0	< 1.0	< 1.0	< 1.0	10.6	< 1.0	< 1.0	< 1.0
MW-2B	4/24/2018		< 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	< 2.4	< 5.0	< 1.1	8.9 J	< 5.0	< 1.0	< 1.0
MW-2B	4/30/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	16.0 J	< 5.0	< 1.0	0.42 J
MW-2B	9/25/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	9.3 J	< 5.0	< 1.0	< 1.0
MW-2B	04/14/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	17.4 J	< 0.90	< 1.0	0.64 J
MW-2B	10/19/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	13.2 J	< 1.0	< 1.0	< 1.0
MW-3A	10/4/2016		< 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	< 5.0	< 1.0	< 1.0	< 1.0	82.7	< 1.0	< 1.0	< 1.0
MW-3A	10/22/2018		< 5.0	1.2 J	< 2.4	< 5.0	< 1.1	90.1	0.19 J	< 1.0	< 1.0
MW-3A	10/19/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	72.7	< 1.0	< 1.0	< 1.0
MW-4A	10/3/2016		< 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	< 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	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-4A	10/23/2018	D	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-4A	9/24/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-4A	10/20/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	< 1.0	< 1.0

Table 7

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

Location	Date	QA/QC	Methylene chloride ug/L	Naphthalene ug/L	N-Butylbenzene ug/L	N-Propylbenzene ug/L	Tetrachloroethene ug/L	Tetrahydrofuran ug/L	Toluene ug/L	Trichloroethene ug/L	Vinyl chloride ug/L
		WES	5	100	- -	- -	5	50	800	5	0.2
		PAL	0.5	10	- -	- -	0.5	10	160	0.5	0.02
MW-5A	10/3/2016		< 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	< 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	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-5A	9/24/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-5A	10/20/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	< 1.0	< 1.0
MW-16A	6/29/2016		< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1.2
MW-16A	10/3/2016		< 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	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	0.71 J
MW-16A	10/10/2017		< 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	< 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	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	0.27 J
MW-16A	4/29/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-16A	9/25/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	1.1
MW-16A	9/25/2019	D	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	1.1
MW-16A	04/14/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 0.90	< 1.0	0.19 J
MW-16A	10/19/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	< 1.0	1.1
MW-16B	6/29/2016		< 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	< 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	< 5.0	< 1.0	< 1.0	< 1.0	6.9	< 1.0	< 1.0	0.56 J
MW-16B	4/24/2017		< 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	< 5.0	< 1.0	< 1.0	< 1.0	7.6	< 1.0	< 1.0	0.24 J
MW-16B	4/24/2018		< 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	< 2.4	< 5.0	< 1.1	8.3 J	< 5.0	< 1.0	< 1.0
MW-16B	4/29/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	0.24 J
MW-16B	4/29/2019	D	< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	0.22 J
MW-16B	9/25/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	2.8 J	< 5.0	< 1.0	0.27 J
MW-16B	04/14/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 0.90	< 1.0	0.64 J
MW-16B	10/19/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	< 1.0	0.28 J
MW-16C	6/29/2016		< 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	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	< 5.0	< 1.0	< 1.0	< 1.0	15.9	< 1.0	< 1.0	0.24 J
MW-16C	10/10/2017		< 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	3.3 J	< 1.0	< 1.0	< 1.0	15.6	< 1.0	< 1.0	0.29 J

Table 7

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

Location	Date	QA/QC	Methylene chloride ug/L	Naphthalene ug/L	N-Butylbenzene ug/L	N-Propylbenzene ug/L	Tetrachloroethene ug/L	Tetrahydrofuran ug/L	Toluene ug/L	Trichloroethene ug/L	Vinyl chloride ug/L
		WES	5	100	- -	- -	5	50	800	5	0.2
		PAL	0.5	10	- -	- -	0.5	10	160	0.5	0.02
MW-16C	10/23/2018		< 5.0	4.5 J	< 2.4	< 5.0	< 1.1	16.6 J	< 5.0	< 1.0	0.35 J
MW-16C	4/29/2019		< 5.0	1.8 J	< 2.4	< 5.0	< 1.1	9.0 J	< 5.0	< 1.0	0.26 J
MW-16C	9/25/2019		< 5.0	3.6 J	< 2.4	< 5.0	< 1.1	8.2 J	< 5.0	< 1.0	0.29 J
MW-16C	04/14/2020		< 5.0	1.5 J	< 2.4	< 5.0	< 1.1	< 20.0	< 0.90	< 1.0	0.37 J
MW-16C	10/19/2020		< 5.0	2.1 J	< 2.4	< 5.0	< 1.1	3.1 J	< 1.0	< 1.0	0.36 J
MW-18A	10/3/2016		< 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	< 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	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	3.9	0.22 J
MW-18A	9/25/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	3.7	0.31 J
MW-18A	10/19/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	6.2	0.19 J
MW-18B	10/3/2016		< 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	< 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	< 2.4	< 5.0	< 1.1	4.0 J	< 5.0	2.2	< 1.0
MW-18B	9/25/2019		< 5.0	< 5.0	< 2.4	< 5.0	0.72 J	< 20.0	< 5.0	7.5	< 1.0
MW-18B	10/19/2020		< 5.0	< 5.0	< 2.4	< 5.0	1.1 J	< 20.0	< 1.0	27.8	< 1.0
MW-18C	10/3/2016		< 1.0	< 5.0	< 1.0	< 1.0	0.61 J	< 5.0	< 1.0	5.2	0.23 J
MW-18C	10/9/2017		< 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	< 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	< 2.4	< 5.0	0.35 J	3.1 J	< 5.0	6.1	< 1.0
MW-18C	9/25/2019		< 5.0	< 5.0	< 2.4	< 5.0	0.84 J	< 20.0	< 5.0	16.7	< 1.0
MW-18C	10/19/2020		< 5.0	< 5.0	< 2.4	< 5.0	0.79 J	< 20.0	< 1.0	23.3	< 1.0
MW-20A	6/29/2016		< 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	21.0	1.6	3.6	< 1.0	18.7	< 1.0	< 1.0	< 1.0
MW-20A	4/24/2017		< 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	12.9	< 1.0	2.3	< 1.0	9.6	< 1.0	< 1.0	< 1.0
MW-20A	4/24/2018		< 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	18.0	< 2.4	3.0 J	< 1.1	8.7 J	0.38 J	< 1.0	< 1.0
MW-20A	4/30/2019		< 5.0	10.7	1.0 J	2.2 J	< 1.1	6.8 J	0.18 J	< 1.0	< 1.0
MW-20A	9/24/2019		< 5.0	18.3	< 2.4	2.9 J	< 1.1	12.4 J	0.35 J	< 1.0	< 1.0
MW-20A	04/14/2020		< 5.0	16.0	1.9 J	3.6 J	< 1.1	6.9 J	< 0.90	< 1.0	< 1.0
MW-20A	10/20/2020		< 5.0	18.0	< 2.4	2.9 J	< 1.1	7.0 J	0.32 J	< 1.0	< 1.0
MW-20B	6/29/2016		< 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	11.9	< 1.0	< 1.0	< 1.0	14.5	< 1.0	< 1.0	0.69 J

Table 7

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

Location	Date	QA/QC	Methylene chloride ug/L	Naphthalene ug/L	N-Butylbenzene ug/L	N-Propylbenzene ug/L	Tetrachloroethene ug/L	Tetrahydrofuran ug/L	Toluene ug/L	Trichloroethene ug/L	Vinyl chloride ug/L
		WES	5	100	- -	- -	5	50	800	5	0.2
		PAL	0.5	10	- -	- -	0.5	10	160	0.5	0.02
MW-20B	4/24/2017		< 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	6.9	< 1.0	< 1.0	< 1.0	5.9	< 1.0	< 1.0	< 1.0
MW-20B	4/24/2018		< 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	12.3	< 2.4	< 5.0	< 1.1	11.0 J	< 5.0	< 1.0	0.43 J
MW-20B	4/30/2019		< 5.0	6.7	< 2.4	< 5.0	< 1.1	8.0 J	< 5.0	< 1.0	0.25 J
MW-20B	9/24/2019		< 5.0	6.4	< 2.4	< 5.0	< 1.1	5.4 J	< 5.0	< 1.0	0.19 J
MW-20B	04/14/2020		< 5.0	4.8 J	< 2.4	< 5.0	< 1.1	4.5 J	< 0.90	< 1.0	0.30 J
MW-20B	10/20/2020		< 5.0	3.6 J	< 2.4	< 5.0	< 1.1	3.6 J	< 1.0	< 1.0	0.21 J
MW-20C	6/29/2016		< 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	6.2	< 1.0	< 1.0	< 1.0	12.2	< 1.0	< 1.0	1.2
MW-20C	4/24/2017		< 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	6.7	< 1.0	< 1.0	< 1.0	7.5	< 1.0	< 1.0	0.81 J
MW-20C	10/10/2017		< 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	8.9	< 1.0	< 1.0	< 1.0	14.1	< 1.0	< 1.0	0.78 J
MW-20C	10/23/2018		< 5.0	7.7	< 2.4	< 5.0	< 1.1	10.6 J	< 5.0	< 1.0	0.84 J
MW-20C	4/30/2019		< 5.0	5.1	< 2.4	< 5.0	< 1.1	12.3 J	< 5.0	< 1.0	0.80 J
MW-20C	9/24/2019		< 5.0	5.5	< 2.4	< 5.0	< 1.1	11.5 J	< 5.0	< 1.0	0.64 J
MW-20C	04/14/2020		< 5.0	5.1	< 2.4	< 5.0	< 1.1	8.4 J	< 0.90	< 1.0	0.53 J
MW-20C	04/14/2020	D	< 5.0	5.6	< 2.4	< 5.0	< 1.1	7.2 J	< 0.90	< 1.0	0.49 J
MW-20C	10/20/2020		< 5.0	4.6 J	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	< 1.0	0.41 J
MW-20C	10/20/2020	D	< 5.0	4.2 J	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	< 1.0	0.41 J
MW-21A	10/4/2016		< 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	< 50.0	< 10.0	< 10.0	< 10.0	189	< 10.0	5.4 J	< 10.0
MW-21A	10/22/2018		< 5.0	14.0	< 2.4	0.86 J	< 1.1	130	0.71 J	< 1.0	< 1.0
MW-21A	9/25/2019		< 5.0	8.2	< 2.4	0.93 J	< 1.1	208	0.65 J	< 1.0	< 1.0
MW-21A	10/19/2020		< 5.0	8.7	< 2.4	0.95 J	< 1.1	194	0.42 J	< 1.0	< 1.0
MW-25B	10/4/2016		< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	0.83 J
MW-25B	10/10/2017		< 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	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	1.6
MW-25B	9/24/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	1.4

Table 7

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

Location	Date	QA/QC	Methylene chloride ug/L	Naphthalene ug/L	N-Butylbenzene ug/L	N-Propylbenzene ug/L	Tetrachloroethene ug/L	Tetrahydrofuran ug/L	Toluene ug/L	Trichloroethene ug/L	Vinyl chloride ug/L
		WES	5	100	- -	- -	5	50	800	5	0.2
		PAL	0.5	10	- -	- -	0.5	10	160	0.5	0.02
MW-25B	10/20/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	< 1.0	1.7
MW-26B	10/3/2016		< 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	< 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	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-26B	9/25/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	2.9 J	< 5.0	< 1.0	0.52 J
MW-26B	10/19/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	2.8 J	< 1.0	< 1.0	0.41 J
MW-26C	10/3/2016		< 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	< 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	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	5.1
MW-26C	9/25/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	16.3 J	< 5.0	< 1.0	3.7
MW-26C	10/19/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	< 1.0	3.4
MW-27B	10/4/2016		< 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	< 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	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-27B	9/25/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 5.0	< 1.0	< 1.0
MW-27B	10/20/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	< 1.0	< 1.0
MW-28A	6/30/2016		< 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	< 5.0	< 1.0	< 1.0	< 1.0	11.3	< 1.0	< 1.0	< 1.0
MW-28A	10/10/2017		< 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	< 2.4	< 5.0	< 1.1	29.4	< 5.0	< 1.0	1.0
MW-28A	9/25/2019		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	10.1 J	< 5.0	< 1.0	0.84 J
MW-28A	10/20/2020		< 5.0	< 5.0	< 2.4	< 5.0	< 1.1	< 20.0	< 1.0	< 1.0	0.51 J

Notes:

WES	- Wisconsin Enforcement Standard
PAL	- Preventative Action Limit
	- Outlined cells exceed WES
ug/L	- Micograms per Liter
mg/L	- Milligrams per Liter
D	- Duplicate Sample
J-	- Estimated Concentration, may be biased low
J	- Estimated Concentration

Appendix A
Surface Water Sampling Laboratory Reports and Data Validation

Memorandum

June 4, 2020

To:	Ryan Aamot, GHD	Ref. No.:	11115796-20
From:	Grant Anderson/lg/4	Tel:	(651) 639-0913

Subject: **Analytical Results and Reduced Data Validation**
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site – Rhinelander, Wisconsin
April 2020

1. Introduction

The following document details a reduced validation of analytical results for groundwater and surface water samples collected in support of the monitoring event at the Rhinelander Landfill Site in Rhinelander, Wisconsin during April 2020. 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 Tables 2A and 2B. 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.

All 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 relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

The laboratory performed site-specific MS/MSD analyses internally.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the 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 one trip blank sample and one field duplicate sample set.

Trip Blank Sample Analysis

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

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 Tables 2A and 2B unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Tables 2A and 2B.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Tables 2A and 2B are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
April 2020

					Analysis/Parameters									
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOC**	**Select Metals (total)**	**Hardness**	**Fecal Coliforms**	**Chloride**	**Ammonia**	**Total Kjeldahl Nitrogen**	**Chemical Oxygen Demand**	**Nitrate/Nitrite**	**Comments**
W-200414-RA-10	SW-28	water	04/14/2020	13:00		x	x	x	x	x	x	x	x	
W-200414-RA-11	SW-20	water	04/14/2020	14:30		x	x	x	x	x	x	x	x	
W-200414-RA-12	SW-10	water	04/14/2020	14:40		x	x	x	x	x	x	x	x	
MW-16C	MW-16C	water	04/14/2020	12:00	x									
MW-16B	MW-16B	water	04/14/2020	12:02	x									
MW-16A	MW-16A	water	04/14/2020	12:22	x									
MW-20C	MW-20C	water	04/14/2020	12:45	x									
MW-20C DUP	MW-20C	water	04/14/2020	12:45	x									Duplicate (MW-20C)
MW-20B	MW-20B	water	04/14/2020	12:55	x									
MW-20A	MW-20A	water	04/14/2020	13:14	x									
MW-2A	MW-2A	water	04/14/2020	13:48	x					x	x			
MW-2B	MW-2B	water	04/14/2020	13:50	x									
TRIP BLANK	TRIP BLANK	water	04/14/2020	00:00	x									Trip Blank

Notes:

VOC - Volatile Organic Compounds

Table 2A

Validated Analytical Results Summary - Groundwater
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
April 2020

Location ID:		MW-2A	MW-2B	MW-16A	MW-16B	MW-16C	MW-20A	MW-20B	MW-20C	MW-20C
Sample Name:		MW-2A	MW-2B	MW-16A	MW-16B	MW-16C	MW-20A	MW-20B	MW-20C	MW-20C DUP
Sample Date:		04/14/2020	04/14/2020	04/14/2020	04/14/2020	04/14/2020	04/14/2020	04/14/2020	04/14/2020	04/14/2020 Duplicate
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	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
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.28 J	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	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
1,2,3-Trichlorobenzene	µg/L	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U
1,2,3-Trichloropropane	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-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	2.7 J	2.8 U	2.8 U	2.8 U	2.8 U	27.2	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	5.9 U	5.9 U	5.9 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	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
1,2-Dichlorobenzene	µg/L	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	0.75 J	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	2.0 J	2.9 U	2.9 U	2.9 U	2.9 U	5.8	2.9 U	2.9 U	2.9 U
1,3-Dichlorobenzene	µg/L	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
1,3-Dichloropropane	µg/L	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
1,4-Dichlorobenzene	µg/L	1.4 J	3.1 U	3.1 U	3.1 U	3.1 U	2.4 J	3.1 U	3.1 U	3.1 U
2,2-Dichloropropane	µg/L	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U
2-Chlorotoluene	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
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	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	µg/L	28.9	0.88 J	0.64 J	0.87 J	1.0	1.4	0.50 J	0.95 J	0.96 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	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromoform	µg/L	13.2 U	13.2 U	13.2 U	13.2 U	13.2 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	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
Chlorobenzene	µg/L	1.3 J	2.4 U	2.4 U	2.4 U	2.4 U	4.8	0.98 J	0.90 J	0.94 J
Chlorobromomethane	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
Chloroethane	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
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	7.3 U	7.3 U	7.3 U	7.3 U	7.3 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

Table 2A

Validated Analytical Results Summary - Groundwater
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
April 2020

Location ID:		MW-2A	MW-2B	MW-16A	MW-16B	MW-16C	MW-20A	MW-20B	MW-20C	MW-20C
Sample Name:		MW-2A	MW-2B	MW-16A	MW-16B	MW-16C	MW-20A	MW-20B	MW-20C	MW-20C DUP
Sample Date:		04/14/2020	04/14/2020	04/14/2020	04/14/2020	04/14/2020	04/14/2020	04/14/2020	04/14/2020	04/14/2020 Duplicate
Parameters	**Unit**									
cis-1,3-Dichloropropene	µg/L	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U
Cymene (p-Isopropyltoluene)	µg/L	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Dibromochloromethane	µg/L	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
Dibromomethane	µg/L	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
Dichlorodifluoromethane (CFC-12)	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
Diisopropyl ether	µg/L	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U
Ethylbenzene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Hexachlorobutadiene	µg/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Isopropyl benzene	µg/L	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	4.1 J	5.6 U	5.6 U	5.6 U
m&p-Xylenes	µg/L	4.9	2.0 U	2.0 U	2.0 U	2.0 U	54.9	2.0 U	2.0 U	2.0 U
Methyl tert butyl ether (MTBE)	µg/L	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Methylene chloride	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
N-Butylbenzene	µg/L	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	1.9 J	2.4 U	2.4 U	2.4 U
N-Propylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	3.6 J	5.0 U	5.0 U	5.0 U
Naphthalene	µg/L	5.6	5.0 U	5.0 U	5.0 U	1.5 J	16.0	4.8 J	5.1	5.6
o-Xylene	µg/L	0.63 J	1.0 U	1.0 U	1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U
Styrene	µg/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 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	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Tetrahydrofuran	µg/L	204	17.4 J	20.0 U	20.0 U	20.0 U	6.9 J	4.5 J	8.4 J	7.2 J
Toluene	µg/L	0.37 J	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U
trans-1,2-Dichloroethene	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
trans-1,3-Dichloropropene	µg/L	14.6 U	14.6 U	14.6 U	14.6 U	14.6 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
Vinyl chloride	µg/L	1.0 U	0.64 J	0.19 J	0.64 J	0.37 J	1.0 U	0.30 J	0.53 J	0.49 J
General Chemistry										
Ammonia-N	mg/L	251	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	256	--	--	--	--	--	--	--	--

Notes:
U - Not detected at the associated reporting limit
J - Estimated concentration

Table 2B

Validated Analytical Results Summary - Surface Water
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
April 2020

Location ID:		**SW-10**	**SW-20**	**SW-28**
Sample Name:		**W-200414-RA-12**	**W-200414-RA-11**	**W-200414-RA-10**
Sample Date:		**04/14/2020**	**04/14/2020**	**04/14/2020**
Parameters	**Unit**			
Metals				
Hardness, calculation	mg/L	42.9	59.0	56.3
Copper	µg/L	11.2 U	11.2 U	3.6 J
Iron	µg/L	2930	1980	2930
Lead	µg/L	19.7 U	19.7 U	19.7 U
Sodium	µg/L	33000	24400	21200
Zinc	µg/L	40.0 U	40.0 U	40.0 U
General Chemistry				
Fecal coliform bacteria	cfu/100mL	6.2 UJ	1.00 J	4.00 J
Ammonia-N	mg/L	0.87 U	0.39 J	1.1
Chemical oxygen demand (COD)	mg/L	16.1 J	50.0 U	50.0 U
Chloride	mg/L	58.4	50.1	42.1
Nitrite/Nitrate	mg/L	0.13 J	0.095 J	0.10 J
Total kjeldahl nitrogen (TKN)	mg/L	0.34 J	0.93 J	1.9
Turbidity	NTU	17.1	6.7	10

Notes:
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 Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
April 2020

Parameter	Method	Matrix	Holding Time: Collection to Extraction (days)	Holding Time: 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

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 Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
April 2020

Parameter	Sample ID	Holding Time (hours)	Holding Time Criteria (hours)	Analyte	Qualified Sample Results	Units
Fecal coliform bacteria	W-200414-RA-10	22	6	Fecal coliform bacteria	4.00 J	cfu/100mL
	W-200414-RA-11	20	6	Fecal coliform bacteria	1.00 J	cfu/100mL
	W-200414-RA-12	20	6	Fecal coliform bacteria	6.2 UJ	cfu/100mL

Notes:

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

Memorandum

December 2, 2020

To:	Ryan Aamot, GHD	Ref. No.:	11115796-30
From:	Grant Anderson/md/5	Tel:	612-524-6836

Subject: **Analytical Results and Reduced Data Validation**
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site – Rhinelander, Wisconsin
October 2020

1. Introduction

The following document details a reduced validation of analytical results for groundwater and surface water samples collected in support of the monitoring event at the Rhinelander Landfill Site in Rhinelander, Wisconsin during October 2020. 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 Tables 2A and 2B. 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, 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.

All 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 relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

The laboratory performed site-specific MS/MSD analyses internally.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the 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". With the exception of alkalinity, the percent recoveries and RPD values were within acceptance criteria or yielded recoveries outside of the control limits that did not result in qualification. Table 5 lists the outlying MS/MSD recoveries. Associated sample data are qualified as noted in the table.

7. Field QA/QC Samples

The field QA/QC samples consisted of one trip blank sample, 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, one trip blank sample was 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. Hardness was detected in the field blank. However, associated sample results were sufficiently high enough; therefore, no qualification of data was necessary. The remaining field blank results were non-detect for the compounds of interest.

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 Tables 2A and 2B unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Tables 2A and 2B.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Tables 2A and 2B are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary

Groundwater and Surface Water Sampling Event

Rhinelander Landfill Site

Rhinelander, Wisconsin

October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: VOC plus THF	Select Metals	Hardness	Alkalinity	Chloride	Fecal Coliforms	Ammonia	Total Kjeldahl Nitrogen	Chemical Oxygen Demand	Nitrate/Nitrite	Comments
W-201019-RA-100	SW-20	water	10/19/2020	14:50		x	x		x	x	x	x	x	x	
W-201019-RA-101	SW-28	water	10/19/2020	15:00		x	x		x	x	x	x	x	x	
W-201019-RA-102	SW-10	water	10/19/2020	15:15		x	x		x	x	x	x	x	x	
MW-21A	MW-21A	water	10/19/2020	13:35	x	x	x	x	x		x	x			
MW-3A	MW-3A	water	10/19/2020	13:10	x	x	x	x	x		x	x			
MW-2A	MW-2A	water	10/19/2020	13:48	x	x	x	x	x		x	x			
MW-2B	MW-2B	water	10/19/2020	14:10	x	x	x	x	x						
MW-16C	MW-16C	water	10/19/2020	15:17	x	x	x	x	x						
MW-16B	MW-16B	water	10/19/2020	15:46	x	x	x	x	x						

Table 1

Sample Collection and Analysis Summary

Groundwater and Surface Water Sampling Event

Rhinelander Landfill Site

Rhinelander, Wisconsin

October 2020

					Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOC plus THF**	**Select Metals**	**Hardness**	**Alkalinity**	**Chloride**	**Fecal Coliforms**	**Ammonia**	**Total Kjeldahl Nitrogen**	**Chemical Oxygen Demand**	**Nitrate/Nitrite**	**Comments**
MW-16A	MW-16A	water	10/19/2020	15:48	x	x	x	x	x						
MW-18B	MW-18B	water	10/19/2020	16:14	x	x	x	x	x						
MW-18C	MW-18C	water	10/19/2020	16:20	x	x	x	x	x						
MW-18A	MW-18A	water	10/19/2020	16:45	x	x	x	x	x						
MW-26C	MW-26C	water	10/19/2020	16:55	x	x	x	x	x						
MW-26B	MW-26B	water	10/19/2020	17:15	x	x	x	x	x						
TRIP BLANK	TRIP BLANK	water	10/19/2020	00:00	x										Trip Blank
MW-20B	MW-20B	water	10/20/2020	08:25	x	x	x	x	x						
MW-20C	MW-20C	water	10/20/2020	08:30	x	x	x	x	x						

Table 1

Sample Collection and Analysis Summary

Groundwater and Surface Water Sampling Event

Rhinelander Landfill Site

Rhinelander, Wisconsin

October 2020

					Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOC plus THF**	**Select Metals**	**Hardness**	**Alkalinity**	**Chloride**	**Fecal Coliforms**	**Ammonia**	**Total Kjeldahl Nitrogen**	**Chemical Oxygen Demand**	**Nitrate/Nitrite**	**Comments**
MW-20A	MW-20A	water	10/20/2020	08:50	x	x	x	x	x						
MW-28A	MW-28A	water	10/20/2020	10:05	x	x	x	x	x						
MW-27B	MW-27B	water	10/20/2020	10:10	x	x	x	x	x						
MW-4A	MW-4A	water	10/20/2020	09:30	x	x	x	x	x						
MW-5A	MW-5A	water	10/20/2020	09:30	x	x	x	x	x						
MW-25B	MW-25B	water	10/20/2020	11:00	x	x	x	x	x						
MW-20C DUP	MW-20C	water	10/20/2020	08:30	x	x	x	x	x						Duplicate (MW-20C)
FIELD BLANK	FIELD BLANK	water	10/20/2020	09:30	x	x	x	x	x						Field Blank

Table 1

Sample Collection and Analysis Summary

Groundwater and Surface Water Sampling Event

Rhinelander Landfill Site

Rhinelander, Wisconsin

October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: VOC plus THF	Select Metals	Hardness	Alkalinity	Chloride	Fecal Coliforms	Ammonia	Total Kjeldahl Nitrogen	Chemical Oxygen Demand	Nitrate/Nitrite	Comments

Notes:

VOC - Volatile Organic Compounds

THF - Tetrahydrofuran

Table 2A

Validated Analytical Results Summary - Groundwater
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
October 2020

Location ID:		MW-2A	MW-2B	MW-3A	MW-4A	MW-5A	MW-16A	MW-16B	MW-16C	MW-18A	MW-18B	MW-18C	MW-20A	MW-20B	MW-20C	MW-20C	MW-21A	MW-25B	MW-26B	MW-26C	MW-27B	MW-28A
Sample Name:		MW-2A	MW-2B	MW-3A	MW-4A	MW-5A	MW-16A	MW-16B	MW-16C	MW-18A	MW-18B	MW-18C	MW-20A	MW-20B	MW-20C	MW-20C DUP	MW-21A	MW-25B	MW-26B	MW-26C	MW-27B	MW-28A
Sample Date:		10/19/2020	10/19/2020	10/19/2020	10/20/2020	10/20/2020	10/19/2020	10/19/2020	10/19/2020	10/19/2020	10/19/2020	10/19/2020	10/20/2020	10/20/2020	10/20/2020	10/20/2020 Duplicate	10/19/2020	10/20/2020	10/19/2020	10/19/2020	10/20/2020	10/20/2020
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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	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	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	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	0.30 J	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	1.0 U	1.0 U	1.0	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	1.0 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	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
1,2,3-Trichlorobenzene	µg/L	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U
1,2,3-Trichloropropane	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	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	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	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	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	µg/L	2.0 J	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	25.3	2.8 U	2.8 U	2.8 U	3.8	2.8 U	2.8 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	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 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	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
1,2-Dichlorobenzene	µg/L	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	0.92 J	2.4 U	2.4 U	2.4 U	2.4 U	2.4 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	1.0 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	1.0 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	1.0 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	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	µg/L	1.4 J	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	4.5	2.9 U	2.9 U	2.9 U	1.9 J	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
1,3-Dichlorobenzene	µg/L	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
1,3-Dichloropropane	µg/L	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
1,4-Dichlorobenzene	µg/L	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	2.1 J	3.1 U	3.1 U	3.1 U	1.8 J	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
2,2-Dichloropropane	µg/L	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U
2-Chlorotoluene	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	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	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	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	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Benzene	µg/L	15.4	0.73 J	1.3	1.0 U	1.0 U	0.49 J	0.85 J	0.91 J	1.0 U	1.0 U	1.0 U	1.9	0.51 J	0.77 J	0.84 J	3.8	1.0 U	1.0 U	0.64 J	1.0 U	0.45 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	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	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromoform	µg/L	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 U	13.2 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	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	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U
Chlorobenzene	µg/L	0.75 J	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	7.5	0.92 J	0.79 J	0.77 J	6.0	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Chlorobromomethane	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	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	5.0 U	5.0 U	5.0 U
Chloroethane	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	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	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	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	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 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	5.6	1.9	2.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.67 J	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U	12.1 U
Cymene (p-Isopropyltoluene)	µg/L	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Dibromochloromethane	µg/L	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
Dibromomethane	µg/L	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
Dichlorodifluoromethane (CFC-12)	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	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	5.0 U	5.0 U	5.0 U
Diisopropyl ether	µg/L	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U
Ethylbenzene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Hexachlorobutadiene	µg/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Isopropyl benzene	µg/L	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	4.0 J	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U
m&p-Xylenes	µg/L	2.6	2.0 U	0.88 J	2.0 U	2.0 U	2.0 U	2.0 U	0.48 J	2.0 U	2.0 U	2.0 U	55.6	2.0 U	2.0 U	2.0 U	7.6	2.0 U	2.0 U	2.0 U	2.0 U	0.80 J
Methyl tert butyl ether (MTBE)	µg/L	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Methylene chloride	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	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	5.0 U	5.0 U	5.0 U
N-Butylbenzene	µg/L	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
N-Propylbenzene	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	5.0 U	5.0 U	2.9 J	5.0 U	5.0 U	5.0 U	0.95 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	µg/L	4.7 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.1 J	5.0 U	5.0 U	5.0 U	18.0	3.6 J	4.6 J	4.2 J	8.7	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	µg/L	0.51 J	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	1.0 U	1.2	1.0 U	1.0 U	1.0 U	2.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 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	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	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 J	0.79 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Tetrahydrofuran	µg/L	118	13.2 J	72.7	20.0 U	20.0 U	20.0 U	20.0 U	3.1 J	20.0 U	20.0 U	20.0 U	7.0 J	3.6 J	20.0 U	20.0 U	194	20.0 U	2.8 J	20.0 U	20.0 U	20.0 U
Toluene	µg/L	0.30 J	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	1.0 U	0.32 J	1.0 U	1.0 U	1.0 U	0.42 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U

Table 2A

Validated Analytical Results Summary - Groundwater
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
October 2020

Location ID:		MW-2A	MW-2B	MW-3A	MW-4A	MW-5A	MW-16A	MW-16B	MW-16C	MW-18A	MW-18B	MW-18C	MW-20A	MW-20B	MW-20C	MW-20C	MW-21A	MW-25B	MW-26B	MW-26C	MW-27B	MW-28A
Sample Name:		MW-2A	MW-2B	MW-3A	MW-4A	MW-5A	MW-16A	MW-16B	MW-16C	MW-18A	MW-18B	MW-18C	MW-20A	MW-20B	MW-20C	MW-20C DUP	MW-21A	MW-25B	MW-26B	MW-26C	MW-27B	MW-28A
Sample Date:		10/19/2020	10/19/2020	10/19/2020	10/20/2020	10/20/2020	10/19/2020	10/19/2020	10/19/2020	10/19/2020	10/19/2020	10/19/2020	10/20/2020	10/20/2020	10/20/2020	10/20/2020 Duplicate	10/19/2020	10/20/2020	10/19/2020	10/19/2020	10/20/2020	10/20/2020
Parameters	**Unit**																					
trans-1,3-Dichloropropene	µg/L	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 U	14.6 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	6.2	27.8	23.3	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	1.0 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	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	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	0.28 J	0.36 J	0.19 J	1.0 U	1.0 U	1.0 U	0.21 J	0.41 J	0.41 J	1.0 U	1.7	0.41 J	3.4	1.0 U	0.51 J
Metals																						
Hardness, calculation	mg/L	793	194	323	118	186	185	225	228	255	240	243	255	150	191	194	748	216	203	226	96.6	197
Boron (dissolved)	µg/L	1180	--	41.1	13.8 J	11.1 J	--	--	--	--	--	43.0	732	--	--	--	--	10.2 J	--	--	--	102
Iron (dissolved)	µg/L	34100	23100	47800	100 U	100 U	5330	31100	26200	2410	100 U	45.3 J	101000	16200	21900	21900	42600	100 U	1040	946	130	11400
Manganese (dissolved)	µg/L	1150	1280	4050	1.6 J	1910	3490	3730	2160	1530	1530	1180	959	1020	1390	1400	1070	122	650	2370	221	3600
General Chemistry																						
Alkalinity, total (as CaCO3)	mg/L	1830	238	627	96.2 J	81.5 J	199	232	237	187	127	131	479 J	139 J	204 J	209	1700	221 J	201	230	86.8 J	227 J
Ammonia-N	mg/L	259	--	67.0	--	--	--	--	--	--	--	--	--	--	--	--	201	--	--	--	--	--
Chloride	mg/L	57.8	38.1	28.2	23.4	440	25.6	36.7	44.5	78.1	96.0	97.1	11.9	42.7	47.4	47.1	40.1	18.0	11.9	20.2	5.9	34.6
Total kjeldahl nitrogen (TKN)	mg/L	216	--	63.0	--	--	--	--	--	--	--	--	--	--	--	--	186	--	--	--	--	--

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

Validated Analytical Results Summary - Surface Water
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
October 2020

Location ID:		**SW20**	**SW28**	**SW10**
Sample Name:		**W-201019-RA-100**	**W-201019-RA-101**	**W-201019-RA-102**
Sample Date:		**10/19/2020**	**10/19/2020**	**10/19/2020**
Parameters	**Unit**			
Metals				
Hardness, calculation	mg/L	108	149	62.9
Copper	µg/L	10.0 U	10.0 U	10.0 U
Iron	µg/L	6560	6500	4700
Lead	µg/L	20.0 U	20.0 U	20.0 U
Sodium	µg/L	29200	27000	21000
Zinc	µg/L	40.0 U	26.6 J	40.0 U
General Chemistry				
Fecal coliform bacteria	cfu/100mL	44.0 J	7.37 J	7.06 J
Ammonia-N	mg/L	1.3	23.7	0.87 U
Chemical oxygen demand (COD)	mg/L	30.5 J	46.2 J	30.5 J
Chloride	mg/L	67.2	42.4	42.5
Nitrite/Nitrate	mg/L	0.11 J	2.2	0.11 J
Total kjeldahl nitrogen (TKN)	mg/L	1.8	24.1	0.51 J
Turbidity	NTU	21.8	16.6	21.9

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

Table 3

Analytical Methods
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
October 2020

Parameter	Method	Matrix	Holding Time: Collection to Extraction (days)	Holding Time: Collection or Extraction to Analysis (days)
VOC plus THF	SW-846 8260	Water	-	14
Select Metals	SW-846 6010	Water	-	180
Hardness	SM 2340B	Water	-	180
Fecal Coliform Bacteria	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

Notes:

VOC - Volatile Organic Compounds
THF - Tetrahydrofuran

Method References:
SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

Qualified Sample Results Due to Holding Time Exceedance
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
October 2020

Parameter	Sample ID	Holding Time (hours)	Holding Time Criteria (hours)	Analyte	Qualified Sample Results	Units
Fecal coliform bacteria	W-201019-RA-100	21	6	Fecal coliform bacteria	44.0 J	cfu/100mL
	W-201019-RA-101	21	6	Fecal coliform bacteria	7.37 J	cfu/100mL
	W-201019-RA-102	21	6	Fecal coliform bacteria	7.06 J	cfu/100mL

Notes:

J - Estimated concentration

Table 5

Qualified Sample Results Due to Outlying MS/MSD Results
Groundwater and Surface Water Sampling Event
Rhinelander Landfill Site
Rhinelander, Wisconsin
October 2020

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
General Chemistry	MW-20B	Alkalinity, total (as CaCO3)	115	112	1	90-110	20	139 J	mg/L
	MW-20C							204 J	mg/L
	MW-20A							479 J	mg/L
	MW-28A							227 J	mg/L
	MW-27B							86.8 J	mg/L
	MW-4A							96.2 J	mg/L
	MW-5A							81.5 J	mg/L
	MW-25B							221 J	mg/L

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
J - Estimated concentration

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

April 28, 2020

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.: 40206243

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

Pace Analytical Services Green Bay
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.: 40206243

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40206243001	**W-200414-RA-10**	Water	04/14/20 13:00	04/15/20 09:00
40206243002	**W-200414-RA-11**	Water	04/14/20 14:30	04/15/20 09:00
40206243003	**W-200414-RA-12**	Water	04/14/20 14:40	04/15/20 09:00

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40206243001	**W-200414-RA-10**	EPA 6010	TXW	6
		SM 9222D	JXM	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
40206243002	**W-200414-RA-11**	EPA 6010	TXW	6
		SM 9222D	JXM	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
40206243003	**W-200414-RA-12**	EPA 6010	TXW	6
		SM 9222D	JXM	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

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

Sample: W-200414-RA-10 **Lab ID: 40206243001** Collected: 04/14/20 13:00 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Copper	**3.6J**	ug/L	11.2	3.4	1	04/16/20 23:10	04/24/20 10:46	7440-50-8	
Iron	**2930**	ug/L	117	35.2	1	04/16/20 23:10	04/24/20 10:46	7439-89-6	
Lead	**<5.9**	ug/L	19.7	5.9	1	04/16/20 23:10	04/24/20 10:46	7439-92-1	
Sodium	**21200**	ug/L	1170	350	1	04/16/20 23:10	04/24/20 10:46	7440-23-5	
Total Hardness by 2340B	**56.3**	mg/L	2.0	0.15	1	04/16/20 23:10	04/24/20 10:46		
Zinc	**<11.6**	ug/L	40.0	11.6	1	04/16/20 23:10	04/24/20 10:46	7440-66-6	
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Green Bay								
Fecal Coliforms	**4.00**	CFU/100 mL	2.0	2.0	2	04/15/20 10:45	04/15/20 10:45		H3
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Green Bay								
Turbidity	**10**	NTU	1.0	1.0	1		04/15/20 15:22		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**42.1**	mg/L	10.0	2.2	5		04/21/20 16:30	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**1.1**	mg/L	0.87	0.26	1		04/21/20 16:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**1.9**	mg/L	1.0	0.21	1	04/16/20 13:40	04/16/20 18:49	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.10J**	mg/L	0.25	0.059	1		04/20/20 11:07		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay								
Chemical Oxygen Demand	**<14.7**	mg/L	50.0	14.7	1	04/22/20 21:02	04/22/20 23:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

Sample: W-200414-RA-11 **Lab ID: 40206243002** Collected: 04/14/20 14:30 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Copper	**<3.4**	ug/L	11.2	3.4	1	04/16/20 23:10	04/24/20 10:53	7440-50-8	
Iron	**1980**	ug/L	117	35.2	1	04/16/20 23:10	04/24/20 10:53	7439-89-6	
Lead	**<5.9**	ug/L	19.7	5.9	1	04/16/20 23:10	04/24/20 10:53	7439-92-1	
Sodium	**24400**	ug/L	1170	350	1	04/16/20 23:10	04/24/20 10:53	7440-23-5	
Total Hardness by 2340B	**59.0**	mg/L	2.0	0.15	1	04/16/20 23:10	04/24/20 10:53		
Zinc	**<11.6**	ug/L	40.0	11.6	1	04/16/20 23:10	04/24/20 10:53	7440-66-6	
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Green Bay								
Fecal Coliforms	**1.00**	CFU/100 mL	1.0	1.0	1	04/15/20 10:45	04/15/20 10:45		H3
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Green Bay								
Turbidity	**6.7**	NTU	1.0	1.0	1		04/15/20 15:24		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**50.1**	mg/L	10.0	2.2	5		04/21/20 16:45	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**0.39J**	mg/L	0.87	0.26	1		04/21/20 16:02	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**0.93J**	mg/L	1.0	0.21	1	04/16/20 13:40	04/16/20 18:52	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.095J**	mg/L	0.25	0.059	1		04/20/20 11:08		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay								
Chemical Oxygen Demand	**<14.7**	mg/L	50.0	14.7	1	04/22/20 21:02	04/22/20 23:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

Sample: W-200414-RA-12 **Lab ID: 40206243003** Collected: 04/14/20 14:40 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Copper	**<3.4**	ug/L	11.2	3.4	1	04/16/20 23:10	04/24/20 10:56	7440-50-8	
Iron	**2930**	ug/L	117	35.2	1	04/16/20 23:10	04/24/20 10:56	7439-89-6	
Lead	**<5.9**	ug/L	19.7	5.9	1	04/16/20 23:10	04/24/20 10:56	7439-92-1	
Sodium	**33000**	ug/L	1170	350	1	04/16/20 23:10	04/24/20 10:56	7440-23-5	
Total Hardness by 2340B	**42.9**	mg/L	2.0	0.15	1	04/16/20 23:10	04/24/20 10:56		
Zinc	**<11.6**	ug/L	40.0	11.6	1	04/16/20 23:10	04/24/20 10:56	7440-66-6	
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Green Bay								
Fecal Coliforms	**<6.25**	CFU/100 mL	6.2	6.2	6.25	04/15/20 10:45	04/15/20 10:45		H3,T3
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Green Bay								
Turbidity	**17.1**	NTU	1.0	1.0	1		04/15/20 15:26		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**58.4**	mg/L	10.0	2.2	5		04/21/20 16:59	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**<0.26**	mg/L	0.87	0.26	1		04/21/20 16:03	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**0.34J**	mg/L	1.0	0.21	1	04/16/20 13:40	04/16/20 18:53	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.13J**	mg/L	0.25	0.059	1		04/20/20 11:10		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay								
Chemical Oxygen Demand	**16.1J**	mg/L	50.0	14.7	1	04/22/20 21:02	04/22/20 23:33		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

QC Batch: 352781
QC Batch Method: SM 9222D
Analysis Method: SM 9222D
Analysis Description: 9222D MICRO Fecal Coliform by MF
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206243001, 40206243002, 40206243003

METHOD BLANK: 2041238 Matrix: Water
Associated Lab Samples: 40206243001, 40206243002, 40206243003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	04/15/20 10:45	

METHOD BLANK: 2041240 Matrix: Water
Associated Lab Samples: 40206243001, 40206243002, 40206243003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	04/15/20 10:45	

SAMPLE DUPLICATE: 2041239

Parameter	Units	40206243001 Result	Dup Result	RPD	Max RPD	Qualifiers
Fecal Coliforms	CFU/100 mL	4.00	2.00			

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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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

QC Batch: 352768
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206243001, 40206243002, 40206243003

METHOD BLANK: 2042152 Matrix: Water
Associated Lab Samples: 40206243001, 40206243002, 40206243003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<3.4	11.2	04/24/20 10:37	
Iron	ug/L	<35.2	117	04/24/20 10:37	
Lead	ug/L	<5.9	19.7	04/24/20 10:37	
Sodium	ug/L	<350	1170	04/24/20 10:37	
Total Hardness by 2340B	mg/L	<0.15	2.0	04/24/20 10:37	
Zinc	ug/L	<11.6	40.0	04/24/20 10:37	

LABORATORY CONTROL SAMPLE: 2042153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	500	501	100	80-120	
Iron	ug/L	5000	5000	100	80-120	
Lead	ug/L	500	506	101	80-120	
Sodium	ug/L	5000	4950	99	80-120	
Total Hardness by 2340B	mg/L		32.4			
Zinc	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2042154 2042155

Parameter	Units	40206243001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	3.6J	500	500	519	507	103	101	75-125	2	20	
Iron	ug/L	2930	5000	5000	8040	8120	102	104	75-125	1	20	
Lead	ug/L	<5.9	500	500	529	536	106	107	75-125	1	20	
Sodium	ug/L	21200	5000	5000	26400	26900	103	114	75-125	2	20	
Total Hardness by 2340B	mg/L	56.3			90.6	92.3				2	20	
Zinc	ug/L	<11.6	500	500	515	522	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 RHINELANDER LF
Pace Project No.: 40206243

QC Batch: 352650
QC Batch Method: EPA 180.1
Analysis Method: EPA 180.1
Analysis Description: 180.1 Turbidity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206243001, 40206243002, 40206243003

METHOD BLANK: 2041460 Matrix: Water
Associated Lab Samples: 40206243001, 40206243002, 40206243003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	04/15/20 15:21	

LABORATORY CONTROL SAMPLE: 2041461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	519	518	100	90-110	

SAMPLE DUPLICATE: 2041462

Parameter	Units	40206243001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	10	10.0	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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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

QC Batch: 352843
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206243001, 40206243002, 40206243003

METHOD BLANK: 2042700 Matrix: Water
Associated Lab Samples: 40206243001, 40206243002, 40206243003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	04/21/20 09:17	

LABORATORY CONTROL SAMPLE: 2042701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2042702 2042703

Parameter	Units	40206360004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	31.7	100	100	138	143	106	111	90-110	4	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2042704 2042705

Parameter	Units	40206309005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	30.9	200	200	235	233	102	101	90-110	1	15	

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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

QC Batch: 353049
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206243001, 40206243002, 40206243003

METHOD BLANK: 2043919 Matrix: Water
Associated Lab Samples: 40206243001, 40206243002, 40206243003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.26	0.87	04/21/20 15:58	

LABORATORY CONTROL SAMPLE: 2043920

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: 2043921 2043922

Parameter	Units	40206243001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.1	10	10	11.1	11.1	100	100	90-110	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 RHINELANDER LF
Pace Project No.: 40206243

QC Batch: 352737
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206243001, 40206243002, 40206243003

METHOD BLANK: 2041893 Matrix: Water
Associated Lab Samples: 40206243001, 40206243002, 40206243003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	04/16/20 18:31	

LABORATORY CONTROL SAMPLE: 2041894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2041895 2041896

Parameter	Units	40206240001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	49.6	20	20	69.4	67.1	99	87	90-110	3	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2041898 2041899

Parameter	Units	40206292001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.30J	5	5	5.4	5.6	102	106	90-110	4	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

QC Batch: 352929
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206243001, 40206243002, 40206243003

METHOD BLANK: 2043349 Matrix: Water
Associated Lab Samples: 40206243001, 40206243002, 40206243003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	04/20/20 10:59	

LABORATORY CONTROL SAMPLE: 2043350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2043351 2043352

Parameter	Units	40206243002 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	0.095J	2.5	2.5	2.8	2.7	106	106	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2043353 2043354

Parameter	Units	40206347018 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	6.6	2.5	2.5	9.1	9.1	102	100	90-110	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

QC Batch: 353200
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206243001, 40206243002, 40206243003

METHOD BLANK: 2044609 Matrix: Water
Associated Lab Samples: 40206243001, 40206243002, 40206243003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<14.7	50.0	04/22/20 23:31	

LABORATORY CONTROL SAMPLE: 2044610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	505	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2044611 2044612

Parameter	Units	40206347017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	<15.5	526	526	524	522	100	99	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2044613 2044614

Parameter	Units	40206347018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	<15.5	526	526	520	513	99	97	90-110	1	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.
T3	Insufficient sample received from client to perform the analysis per EPA method requirements.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206243

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40206243001	**W-200414-RA-10**	EPA 3010	352768	EPA 6010	353148
40206243002	**W-200414-RA-11**	EPA 3010	352768	EPA 6010	353148
40206243003	**W-200414-RA-12**	EPA 3010	352768	EPA 6010	353148
40206243001	**W-200414-RA-10**	SM 9222D	352613	SM 9222D	352781
40206243002	**W-200414-RA-11**	SM 9222D	352613	SM 9222D	352781
40206243003	**W-200414-RA-12**	SM 9222D	352613	SM 9222D	352781
40206243001	**W-200414-RA-10**	EPA 180.1	352650		
40206243002	**W-200414-RA-11**	EPA 180.1	352650		
40206243003	**W-200414-RA-12**	EPA 180.1	352650		
40206243001	**W-200414-RA-10**	EPA 300.0	352843		
40206243002	**W-200414-RA-11**	EPA 300.0	352843		
40206243003	**W-200414-RA-12**	EPA 300.0	352843		
40206243001	**W-200414-RA-10**	EPA 350.1	353049		
40206243002	**W-200414-RA-11**	EPA 350.1	353049		
40206243003	**W-200414-RA-12**	EPA 350.1	353049		
40206243001	**W-200414-RA-10**	EPA 351.2	352737	EPA 351.2	352758
40206243002	**W-200414-RA-11**	EPA 351.2	352737	EPA 351.2	352758
40206243003	**W-200414-RA-12**	EPA 351.2	352737	EPA 351.2	352758
40206243001	**W-200414-RA-10**	EPA 353.2	352929		
40206243002	**W-200414-RA-11**	EPA 353.2	352929		
40206243003	**W-200414-RA-12**	EPA 353.2	352929		
40206243001	**W-200414-RA-10**	EPA 410.4	353200	EPA 410.4	353211
40206243002	**W-200414-RA-11**	EPA 410.4	353200	EPA 410.4	353211
40206243003	**W-200414-RA-12**	EPA 410.4	353200	EPA 410.4	353211

(Please Print Clearly)

Company Name:	GHD
Branch/Location:	St. Paul
Project Contact:	Grant Anderson
Phone:	651-639-0913
Project Number:	11115796
Project Name:	Rhinelander LF
Project State:	WI
Sampled By (Print):	RAamot
Sampled By (Sign):	
PO #:	
Regulatory Program:	

Pace Analytical®
www.pacelabs.com

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

40206243

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

Quote #:	see SSOW
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

					Analyses Requested	Fecal Coliform	Ammonia/TKN/NNN	COD	Chloride, turbidity	Metals & Hardness				CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					FILTERED? (YES/NO) Y/N	N	N	N	N	N						
					PRESERVATION (CODE)* Pick Letter	A	C	C	A	D						
PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX												
001	W-200414-RA-10	4/14/20	1300	SW		Y		Y	Y	Y				No sample		
002	W-200414-RA-11	↓	1430	↓		Y	Y	Y	Y	Y				times on		
003	W-200414-RA-12	↓	1440	↓		Y	Y	Y	Y	Y				bottles		

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	4/14/20	[signature]	4/15/20
Fed Ex	4/15/20 0900	[signature] Pace	4/15/20 0900

PACE Project No. 40206243

Receipt Temp = ROI °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

Pace Container Order #632174

4502023

Addresses

Order By :

Company GHD SERVICES
Contact Anderson, Grant
Email grant.anderson@ghd.com
Address 1801 Old Highway 8 Northwest
Address 2 Suite 114
City Saint Paul
State MN Zip 55112
Phone (651) 639-0913

Ship To :

Company GHD SERVICES (Pace Analytical Green
Contact Ryan Aamot
Email ryan.aamot@ghd.com
Address 1801 Old Highway 8 Northwest
Address 2 Suite 114
City Saint Paul
State MN Zip 55112
Phone (651) 639-0913

Return To:

Company Pace Analytical Green Bay
Contact Milewsky, Dan
Email dan.milewsky@pacelabs.com
Address 1241 Bellevue Street
Address 2 Suite 9
City Green Bay
State WI Zip 54302
Phone (920)469-2436

Info

Project Name Rhinelander LF Surface Water
Due Date 03/27/2020
Profile x
Quote
Project Manager Milewsky, Dan
Return Date
Carrier FedEx Standard Overnight
Location

Trip Blanks

[ ] Include Trip Blanks

Bottle Labels

[X] Blank
[ ] Pre-Printed No Sample IDs
[ ] Pre-Printed With Sample IDs

Bottles

[ ] Boxed Cases
[ ] Individually Wrapped
[ ] Grouped By Sample ID/Matrix

Return Shipping Labels

[ ] No Shipper
[X] With Shipper

COC Options

[X] Number of Blanks 1
[ ] Pre-Printed

Misc

[ ] Sampling Instructions
[ ] Custody Seal
[ ] Temp. Blanks
[X] Coolers
[ ] Syringes
[ ] Extra Bubble Wrap
[ ] Short Hold/Rush Stickers
[ ] DI Water Liter(s)
[ ] USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
5	WT	Fecal Coliform MF	120 ml sterile	5	0	11119004	
5	WT	Ammonia, TKN, N+N, COD	250mL plastic H2SO4	5	0	M-9-295-07BB	
5	WT	Chloride and Turbidity	1L Plastic unpreserved	5	0	C-9-361-02BB	
5	WT	Metals and Hardness	250mL plastic w/HNO3	5	0	M-9-276-02BB	

Hazard Shipping Placard In Place : NA

*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace 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/disposal.
*Payment term are net 30 days.
*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date : 03/26/2020
Prepared By: Mai Yer Her
Verified By:

Sample

CLIENT USE (Optional):

Date Rec'd:
Received By:
Verified By:

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: GHD
Project # 40204243

All containers needing preservation have been checked and noted below: ☒Yes ☐No ~~☐N/A~~ 4/15/20 [initials]

Lab Lot# of pH paper: 10052791 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: [initials] Date/ Time:

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001									1			1	1											1				X			X		2.5 / 5 / 10
002									1			1	1											1				X			X		2.5 / 5 / 10
003									1			1	1											1				X			X		2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

4/15/20 [initials]

Exceptions to preservation check: VOA, (Coliform), TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:________ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☒N/A ***If yes look in headspace column**

Code	Description
AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres
BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4
VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI
JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40206243

40206243

Client Name: GHD

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other:

Tracking #: 8152 5165 3825

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 - NA **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 10.1 /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 4/15/20 Initials: MP

Labeled By Initials: VC

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time: 4/15/20 MP	☒Yes ☒No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☒Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: 4/15/20 MP		8. Sample 003 Received Broken. Volume has 10mL. 4/15/20 MP
For Analysis: ☒Yes ☒No MS/MSD:	☐Yes ☒No ☐N/A	
Correct Containers Used:	☒Yes ☐No	9. -Tupac it closed.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☐Yes ☒No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒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:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 02, 2020

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.: 40216814

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

Pace Analytical Services Green Bay
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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40216814001	**W-201019-RA-100**	Water	10/19/20 14:50	10/20/20 09:15
40216814002	**W-201019-RA-101**	Water	10/19/20 15:00	10/20/20 09:15
40216814003	**W-201019-RA-102**	Water	10/19/20 15:15	10/20/20 09:15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40216814001	**W-201019-RA-100**	EPA 6010	TXW	6
		SM 9222D	JXM	1
		EPA 180.1	HNT	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
40216814002	**W-201019-RA-101**	EPA 6010	TXW	6
		SM 9222D	JXM	1
		EPA 180.1	HNT	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
40216814003	**W-201019-RA-102**	EPA 6010	TXW	6
		SM 9222D	JXM	1
		EPA 180.1	HNT	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

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

Sample: W-201019-RA-100 **Lab ID: 40216814001** Collected: 10/19/20 14:50 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Copper	**<3.4**	ug/L	10.0	3.4	1	10/22/20 06:38	10/22/20 21:34	7440-50-8	
Iron	**6560**	ug/L	100	56.7	1	10/22/20 06:38	10/22/20 21:34	7439-89-6	
Lead	**<5.9**	ug/L	20.0	5.9	1	10/22/20 06:38	10/22/20 21:34	7439-92-1	
Sodium	**29200**	ug/L	500	350	1	10/22/20 06:38	10/22/20 21:34	7440-23-5	
Total Hardness by 2340B	**108**	mg/L	2.0	0.15	1	10/22/20 06:38	10/22/20 21:34		
Zinc	**<11.6**	ug/L	40.0	11.6	1	10/22/20 06:38	10/22/20 21:34	7440-66-6	
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Green Bay								
Fecal Coliforms	**44.0**	CFU/100 mL	2.0	2.0	2	10/20/20 11:50	10/20/20 11:50		H3
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Green Bay								
Turbidity	**21.8**	NTU	1.0	1.0	1		10/20/20 14:21		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**67.2**	mg/L	10.0	2.2	5		10/31/20 15:08	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**1.3**	mg/L	0.87	0.26	1		10/22/20 18:57	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**1.8**	mg/L	1.0	0.21	1	10/23/20 13:37	10/23/20 18:24	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.11J**	mg/L	0.25	0.059	1		10/22/20 13:50		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay								
Chemical Oxygen Demand	**30.5J**	mg/L	50.0	14.7	1	10/29/20 17:19	10/29/20 19:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

Sample: W-201019-RA-101 **Lab ID: 40216814002** Collected: 10/19/20 15:00 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Copper	**<3.4**	ug/L	10.0	3.4	1	10/22/20 06:38	10/22/20 21:36	7440-50-8	
Iron	**6500**	ug/L	100	56.7	1	10/22/20 06:38	10/22/20 21:36	7439-89-6	
Lead	**<5.9**	ug/L	20.0	5.9	1	10/22/20 06:38	10/22/20 21:36	7439-92-1	
Sodium	**27000**	ug/L	500	350	1	10/22/20 06:38	10/22/20 21:36	7440-23-5	
Total Hardness by 2340B	**149**	mg/L	2.0	0.15	1	10/22/20 06:38	10/22/20 21:36		
Zinc	**26.6J**	ug/L	40.0	11.6	1	10/22/20 06:38	10/22/20 21:36	7440-66-6	
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Green Bay								
Fecal Coliforms	**7.37**	CFU/100 mL	1.0	1.0	1.05	10/20/20 11:50	10/20/20 11:50		H3
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Green Bay								
Turbidity	**16.6**	NTU	1.0	1.0	1		10/20/20 14:22		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**42.4**	mg/L	10.0	2.2	5		10/31/20 15:23	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**23.7**	mg/L	1.7	0.52	2		10/22/20 19:24	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**24.1**	mg/L	2.0	0.42	2	10/23/20 13:37	10/23/20 18:39	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**2.2**	mg/L	0.25	0.059	1		10/22/20 13:51		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay								
Chemical Oxygen Demand	**46.2J**	mg/L	50.0	14.7	1	10/29/20 17:19	10/29/20 19:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

Sample: W-201019-RA-102 **Lab ID: 40216814003** Collected: 10/19/20 15:15 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay								
Copper	**<3.4**	ug/L	10.0	3.4	1	10/22/20 06:38	10/22/20 21:38	7440-50-8	
Iron	**4700**	ug/L	100	56.7	1	10/22/20 06:38	10/22/20 21:38	7439-89-6	
Lead	**<5.9**	ug/L	20.0	5.9	1	10/22/20 06:38	10/22/20 21:38	7439-92-1	
Sodium	**21000**	ug/L	500	350	1	10/22/20 06:38	10/22/20 21:38	7440-23-5	
Total Hardness by 2340B	**62.9**	mg/L	2.0	0.15	1	10/22/20 06:38	10/22/20 21:38		
Zinc	**<11.6**	ug/L	40.0	11.6	1	10/22/20 06:38	10/22/20 21:38	7440-66-6	
9222D MICRO Fecal Coli by MF	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Green Bay								
Fecal Coliforms	**7.06**	CFU/100 mL	1.2	1.2	1.18	10/20/20 11:50	10/20/20 11:50		H3
180.1 Turbidity	Analytical Method: EPA 180.1 Pace Analytical Services - Green Bay								
Turbidity	**21.9**	NTU	1.0	1.0	1		10/20/20 14:23		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**42.5**	mg/L	10.0	2.2	5		10/31/20 15:38	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**<0.26**	mg/L	0.87	0.26	1		10/22/20 18:59	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**0.51J**	mg/L	1.0	0.21	1	10/23/20 13:37	10/23/20 18:27	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.11J**	mg/L	0.25	0.059	1		10/22/20 13:51		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay								
Chemical Oxygen Demand	**30.5J**	mg/L	50.0	14.7	1	10/29/20 17:19	10/29/20 19:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

QC Batch: 369630
QC Batch Method: SM 9222D
Analysis Method: SM 9222D
Analysis Description: 9222D MICRO Fecal Coliform by MF
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216814001, 40216814002, 40216814003

METHOD BLANK: 2136566 Matrix: Water
Associated Lab Samples: 40216814001, 40216814002, 40216814003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	10/20/20 11:50	

METHOD BLANK: 2136568 Matrix: Water
Associated Lab Samples: 40216814001, 40216814002, 40216814003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	10/20/20 11:50	

SAMPLE DUPLICATE: 2136567

Parameter	Units	40216814001 Result	Dup Result	RPD	Max RPD	Qualifiers
Fecal Coliforms	CFU/100 mL	44.0	42.0			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

QC Batch: 369021
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216814001, 40216814002, 40216814003

METHOD BLANK: 2133303 Matrix: Water
Associated Lab Samples: 40216814001, 40216814002, 40216814003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<3.4	10.0	10/23/20 09:04	
Iron	ug/L	<56.7	100	10/23/20 09:04	
Lead	ug/L	<5.9	20.0	10/23/20 09:04	
Sodium	ug/L	<350	500	10/23/20 09:04	
Total Hardness by 2340B	mg/L	<0.15	2.0	10/23/20 09:04	
Zinc	ug/L	<11.6	40.0	10/23/20 09:04	

LABORATORY CONTROL SAMPLE: 2133304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	500	511	102	80-120	
Iron	ug/L	5000	5200	104	80-120	
Lead	ug/L	500	516	103	80-120	
Sodium	ug/L	5000	5210	104	80-120	
Total Hardness by 2340B	mg/L		34.0			
Zinc	ug/L	500	520	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2133305 2133306

Parameter	Units	40216807002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	34.7	500	500	542	546	102	102	75-125	1	20	
Iron	ug/L	92.7J	5000	5000	5220	5290	103	104	75-125	1	20	
Lead	ug/L	<5.9	500	500	509	515	101	103	75-125	1	20	
Sodium	ug/L	2530	5000	5000	7740	7830	104	106	75-125	1	20	
Total Hardness by 2340B	mg/L	7700 ug/L			41.7	41.9				1	20	
Zinc	ug/L	234	500	500	750	752	103	104	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

QC Batch: 368826
QC Batch Method: EPA 180.1
Analysis Method: EPA 180.1
Analysis Description: 180.1 Turbidity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216814001, 40216814002, 40216814003

METHOD BLANK: 2132293 Matrix: Water
Associated Lab Samples: 40216814001, 40216814002, 40216814003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	10/20/20 14:19	

LABORATORY CONTROL SAMPLE: 2132294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	524	519	99	90-110	

SAMPLE DUPLICATE: 2132295

Parameter	Units	40216814001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	21.8	22.2	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

QC Batch: 369649
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216814001, 40216814002, 40216814003

METHOD BLANK: 2136589 Matrix: Water
Associated Lab Samples: 40216814001, 40216814002, 40216814003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	10/31/20 11:38	

LABORATORY CONTROL SAMPLE: 2136590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.5	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2136591 2136592

Parameter	Units	40217085005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5950	10000	10000	16700	16700	108	108	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2136593 2136594

Parameter	Units	40216824004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	332	400	400	753	740	105	102	90-110	2	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

QC Batch: 369141
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216814001, 40216814002, 40216814003

METHOD BLANK: 2133862 Matrix: Water
Associated Lab Samples: 40216814001, 40216814002, 40216814003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.26	0.87	10/22/20 18:51	

LABORATORY CONTROL SAMPLE: 2133863

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: 2133864 2133865

Parameter	Units	40216382001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.26	10	10	9.5	9.5	95	95	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

QC Batch: 369252
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216814001, 40216814002, 40216814003

METHOD BLANK: 2134594 Matrix: Water
Associated Lab Samples: 40216814001, 40216814002, 40216814003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	10/23/20 18:07	

LABORATORY CONTROL SAMPLE: 2134595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.7	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2134596 2134597

Parameter	Units	40216978001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.96J	5	5	6.0	5.9	101	99	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2134598 2134599

Parameter	Units	40216814001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	1.8	5	5	6.9	6.9	100	101	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

QC Batch: 369098
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216814001, 40216814002, 40216814003

METHOD BLANK: 2133554 Matrix: Water
Associated Lab Samples: 40216814001, 40216814002, 40216814003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	10/22/20 13:48	

LABORATORY CONTROL SAMPLE: 2133555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2133556 2133557

Parameter	Units	40216824005 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	<0.059	2.5	2.5	2.4	2.4	95	95	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2133558 2133559

Parameter	Units	40216934009 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	<0.059	2.5	2.5	2.0	2.0	79	80	90-110	1	20	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

QC Batch: 369837
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216814001, 40216814002, 40216814003

METHOD BLANK: 2137844 Matrix: Water
Associated Lab Samples: 40216814001, 40216814002, 40216814003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<14.7	50.0	10/29/20 19:40	

LABORATORY CONTROL SAMPLE: 2137845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	527	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2137846 2137847

Parameter	Units	40216824001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	39.2J	526	526	578	578	102	102	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2137848 2137849

Parameter	Units	40216829001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	15.5J	526	526	568	561	105	104	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALIFIERS

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796-40 RHINELANDER LF
Pace Project No.: 40216814

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40216814001	**W-201019-RA-100**	EPA 3010	369021	EPA 6010	369136
40216814002	**W-201019-RA-101**	EPA 3010	369021	EPA 6010	369136
40216814003	**W-201019-RA-102**	EPA 3010	369021	EPA 6010	369136
40216814001	**W-201019-RA-100**	SM 9222D	369629	SM 9222D	369630
40216814002	**W-201019-RA-101**	SM 9222D	369629	SM 9222D	369630
40216814003	**W-201019-RA-102**	SM 9222D	369629	SM 9222D	369630
40216814001	**W-201019-RA-100**	EPA 180.1	368826		
40216814002	**W-201019-RA-101**	EPA 180.1	368826		
40216814003	**W-201019-RA-102**	EPA 180.1	368826		
40216814001	**W-201019-RA-100**	EPA 300.0	369649		
40216814002	**W-201019-RA-101**	EPA 300.0	369649		
40216814003	**W-201019-RA-102**	EPA 300.0	369649		
40216814001	**W-201019-RA-100**	EPA 350.1	369141		
40216814002	**W-201019-RA-101**	EPA 350.1	369141		
40216814003	**W-201019-RA-102**	EPA 350.1	369141		
40216814001	**W-201019-RA-100**	EPA 351.2	369252	EPA 351.2	369299
40216814002	**W-201019-RA-101**	EPA 351.2	369252	EPA 351.2	369299
40216814003	**W-201019-RA-102**	EPA 351.2	369252	EPA 351.2	369299
40216814001	**W-201019-RA-100**	EPA 353.2	369098		
40216814002	**W-201019-RA-101**	EPA 353.2	369098		
40216814003	**W-201019-RA-102**	EPA 353.2	369098		
40216814001	**W-201019-RA-100**	EPA 410.4	369837	EPA 410.4	369855
40216814002	**W-201019-RA-101**	EPA 410.4	369837	EPA 410.4	369855
40216814003	**W-201019-RA-102**	EPA 410.4	369837	EPA 410.4	369855

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

Pace Analytical
www.pacelabs.com

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

(Please Print Clearly)	
Company Name:	GAI
Branch/Location:	St. Paul
Project Contact:	Grant Anderson
Phone:	651 639 0913
Project Number:	11115796-40
Project Name:	Rhinelander LF
Project State:	WI
Sampled By (Print):	RAamot
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	40216814
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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
SI = Sludge	WP = Wipe

FILTERED? (YES/NO) — Y/N
PRESERVATION (CODE)* — Pick Letter

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Fecal Coliform	COD	Ammonia, TKN/NtN	Chloride	Metals: Hardness	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N: N	N	N	N				
					Pick Letter: A	C	A	D				
001	W-201019-RA-100	10/19/20	1450	SW	X	X	X	X		sample times		
002	W-201019-RA-101	10/19/20	1500	SW	X	X	X	X		not listed on		
003	W-201019-RA-102	10/19/20	1515	SW	X	X	X	X		bottles		

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	1600 10/19/20		
Ted Gk	10/20/20 0915	Susan Kelley Pace	10/20/20 0915

PACE Project No. 40216814
Receipt Temp = ROI °C
Sample Receipt pH (N/A) Adjusted
Cooler Custody Seal Present / (Not Present)
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

40246814

From: Dan Milewsky
Sent: Tuesday, October 20, 2020 9:18 AM
To: WI_Sample_Receiving; WI_Wetchem
Cc: Angela Lane
Subject: past hold fecals

Good morning receiving!

We will get Rhinelander Landfill samples from GHD today, probably on Fed Ex. Fecal coliforms (3) will be past hold, the client wants them analyzed.

Dan Milewsky
Project Manager | Pace Environmental Sciences
1241 Bellevue St, STE 9
Green Bay, WI 54302
Direct/Cell-920-412-8566 | Lab-920.469.2436 |
pacelabs.com

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: GHD Project # 40216814

All containers needing preservation have been checked and noted below: ☑Yes ☐No ☐N/A Initial when completed: SKV Date/ Time:

Lab Lot# of pH paper: 10D4194 Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General								
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001										1		1	1											1				X			X		2.5 / 5 / 10
002										1		1	1											1				X			X		2.5 / 5 / 10
003										1		1	1											1				X			X		2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																												10/30/20				SKV		2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GHD

Project #: WO# : 40216814

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 8160 7354 9273

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: 20.1 /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 10/20/20 /Initials: SKW

Labeled By Initials:

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. Mail + Invoice info 10/20/20 SKW
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time: 10/20/20	☑Yes ☐No	5. Per client run pass hold 10/20/20 SKW
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. No times 10/20/20 SKW
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑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:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Appendix B
Groundwater Sampling Laboratory Reports and Data Validation

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 23, 2020

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.: 40206244

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Pace Analytical Services Green Bay
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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40206244001	**MW-16C**	Water	04/14/20 12:00	04/15/20 09:00
40206244002	**MW-16B**	Water	04/14/20 12:02	04/15/20 09:00
40206244003	**MW-16A**	Water	04/14/20 12:22	04/15/20 09:00
40206244004	**MW-20C**	Water	04/14/20 12:45	04/15/20 09:00
40206244005	**MW-20C DUP**	Water	04/14/20 12:45	04/15/20 09:00
40206244006	**MW-20B**	Water	04/14/20 12:55	04/15/20 09:00
40206244007	**MW-20A**	Water	04/14/20 13:14	04/15/20 09:00
40206244008	**MW-2A**	Water	04/14/20 13:48	04/15/20 09:00
40206244009	**MW-2B**	Water	04/14/20 13:50	04/15/20 09:00
40206244010	**TRIP BLANK**	Water	04/14/20 00:00	04/15/20 09:00

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40206244001	**MW-16C**	EPA 8260	LAP	65
			HMG	6
40206244002	**MW-16B**	EPA 8260	LAP	65
			HMG	6
40206244003	**MW-16A**	EPA 8260	LAP	65
			HMG	6
40206244004	**MW-20C**	EPA 8260	LAP	65
			HMG	6
40206244005	**MW-20C DUP**	EPA 8260	LAP	65
			HMG	6
40206244006	**MW-20B**	EPA 8260	LAP	65
			HMG	6
40206244007	**MW-20A**	EPA 8260	LAP	65
			HMG	6
40206244008	**MW-2A**	EPA 8260	LAP	65
			HMG	6
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
40206244009	**MW-2B**	EPA 8260	LAP	65
			HMG	6
40206244010	**TRIP BLANK**	EPA 8260	LAP	65

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-16C **Lab ID: 40206244001** Collected: 04/14/20 12:00 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**1.0**	ug/L	1.0	0.25	1		04/16/20 19:03	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 19:03	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/20 19:03	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/20 19:03	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/20 19:03	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/20 19:03	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 19:03	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/20 19:03	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/20 19:03	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/16/20 19:03	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 19:03	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/20 19:03	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/20 19:03	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/20 19:03	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/20 19:03	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/20 19:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/20 19:03	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/20 19:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/20 19:03	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/20 19:03	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 19:03	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/20 19:03	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/20 19:03	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/20 19:03	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 19:03	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 19:03	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 19:03	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/20 19:03	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/16/20 19:03	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 19:03	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/20 19:03	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/20 19:03	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/20 19:03	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/20 19:03	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/20 19:03	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/20 19:03	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/16/20 19:03	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		04/16/20 19:03	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		04/16/20 19:03	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/20 19:03	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/20 19:03	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/20 19:03	1634-04-4	
Naphthalene	**1.5J**	ug/L	5.0	1.2	1		04/16/20 19:03	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/20 19:03	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/16/20 19:03	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-16C **Lab ID: 40206244001** Collected: 04/14/20 12:00 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 19:03	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 19:03	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/20 19:03	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/16/20 19:03	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/16/20 19:03	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		04/16/20 19:03	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/20 19:03	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/20 19:03	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/20 19:03	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 19:03	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/20 19:03	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/20 19:03	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/20 19:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/20 19:03	108-67-8	
Vinyl chloride	**0.37J**	ug/L	1.0	0.17	1		04/16/20 19:03	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/20 19:03	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 19:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		04/16/20 19:03	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		04/16/20 19:03	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		04/16/20 19:03	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.95**	Std. Units			1		04/14/20 12:00		
Field Specific Conductance	**710**	umhos/cm			1		04/14/20 12:00		
Oxygen, Dissolved	**0**	mg/L			1		04/14/20 12:00	7782-44-7	
REDOX	**-115**	mV			1		04/14/20 12:00		
Turbidity	**0**	NTU			1		04/14/20 12:00		
Temperature, Water (C)	**7.27**	deg C			1		04/14/20 12:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-16B **Lab ID: 40206244002** Collected: 04/14/20 12:02 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.87J**	ug/L	1.0	0.25	1		04/16/20 18:06	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 18:06	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/20 18:06	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/20 18:06	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/20 18:06	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/20 18:06	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 18:06	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/20 18:06	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/20 18:06	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/16/20 18:06	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 18:06	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/20 18:06	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/20 18:06	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/20 18:06	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/20 18:06	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/20 18:06	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/20 18:06	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/20 18:06	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/20 18:06	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/20 18:06	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 18:06	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/20 18:06	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/20 18:06	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/20 18:06	75-71-8	
1,1-Dichloroethane	**0.28J**	ug/L	1.0	0.27	1		04/16/20 18:06	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 18:06	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 18:06	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/20 18:06	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/16/20 18:06	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 18:06	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/20 18:06	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/20 18:06	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/20 18:06	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/20 18:06	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/20 18:06	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/20 18:06	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/16/20 18:06	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		04/16/20 18:06	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		04/16/20 18:06	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/20 18:06	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/20 18:06	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/20 18:06	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/16/20 18:06	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/20 18:06	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/16/20 18:06	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-16B **Lab ID: 40206244002** Collected: 04/14/20 12:02 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 18:06	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 18:06	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/20 18:06	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/16/20 18:06	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/16/20 18:06	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		04/16/20 18:06	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/20 18:06	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/20 18:06	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/20 18:06	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 18:06	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/20 18:06	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/20 18:06	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/20 18:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/20 18:06	108-67-8	
Vinyl chloride	**0.64J**	ug/L	1.0	0.17	1		04/16/20 18:06	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/20 18:06	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 18:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	81	%	70-130		1		04/16/20 18:06	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		04/16/20 18:06	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		04/16/20 18:06	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.03**	Std. Units			1		04/14/20 12:02		
Field Specific Conductance	**626**	umhos/cm			1		04/14/20 12:02		
Oxygen, Dissolved	**0**	mg/L			1		04/14/20 12:02	7782-44-7	
REDOX	**-169**	mV			1		04/14/20 12:02		
Turbidity	**80.6**	NTU			1		04/14/20 12:02		
Temperature, Water (C)	**6.19**	deg C			1		04/14/20 12:02		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-16A **Lab ID: 40206244003** Collected: 04/14/20 12:22 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.64J**	ug/L	1.0	0.25	1		04/16/20 19:22	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 19:22	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/20 19:22	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/20 19:22	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/20 19:22	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/20 19:22	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 19:22	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/20 19:22	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/20 19:22	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/16/20 19:22	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 19:22	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/20 19:22	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/20 19:22	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/20 19:22	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/20 19:22	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/20 19:22	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/20 19:22	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/20 19:22	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/20 19:22	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/20 19:22	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 19:22	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/20 19:22	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/20 19:22	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/20 19:22	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 19:22	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 19:22	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 19:22	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/20 19:22	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/16/20 19:22	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 19:22	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/20 19:22	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/20 19:22	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/20 19:22	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/20 19:22	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/20 19:22	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/20 19:22	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/16/20 19:22	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		04/16/20 19:22	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		04/16/20 19:22	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/20 19:22	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/20 19:22	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/20 19:22	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/16/20 19:22	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/20 19:22	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/16/20 19:22	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-16A **Lab ID: 40206244003** Collected: 04/14/20 12:22 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 19:22	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 19:22	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/20 19:22	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/16/20 19:22	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/16/20 19:22	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		04/16/20 19:22	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/20 19:22	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/20 19:22	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/20 19:22	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 19:22	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/20 19:22	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/20 19:22	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/20 19:22	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/20 19:22	108-67-8	
Vinyl chloride	**0.19J**	ug/L	1.0	0.17	1		04/16/20 19:22	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/20 19:22	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 19:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	81	%	70-130		1		04/16/20 19:22	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		04/16/20 19:22	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		04/16/20 19:22	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.85**	Std. Units			1		04/14/20 12:22		
Field Specific Conductance	**357**	umhos/cm			1		04/14/20 12:22		
Oxygen, Dissolved	**0**	mg/L			1		04/14/20 12:22	7782-44-7	
REDOX	**-51**	mV			1		04/14/20 12:22		
Turbidity	**11.7**	NTU			1		04/14/20 12:22		
Temperature, Water (C)	**5.29**	deg C			1		04/14/20 12:22		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-20C **Lab ID: 40206244004** Collected: 04/14/20 12:45 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.95J**	ug/L	1.0	0.25	1		04/16/20 19:41	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 19:41	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/20 19:41	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/20 19:41	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/20 19:41	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/20 19:41	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 19:41	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/20 19:41	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/20 19:41	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/16/20 19:41	56-23-5	
Chlorobenzene	**0.90J**	ug/L	2.4	0.71	1		04/16/20 19:41	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/20 19:41	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/20 19:41	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/20 19:41	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/20 19:41	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/20 19:41	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/20 19:41	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/20 19:41	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/20 19:41	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/20 19:41	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 19:41	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/20 19:41	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/20 19:41	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/20 19:41	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 19:41	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 19:41	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 19:41	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/20 19:41	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/16/20 19:41	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 19:41	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/20 19:41	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/20 19:41	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/20 19:41	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/20 19:41	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/20 19:41	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/20 19:41	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/16/20 19:41	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		04/16/20 19:41	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		04/16/20 19:41	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/20 19:41	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/20 19:41	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/20 19:41	1634-04-4	
Naphthalene	**5.1**	ug/L	5.0	1.2	1		04/16/20 19:41	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/20 19:41	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/16/20 19:41	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-20C **Lab ID: 40206244004** Collected: 04/14/20 12:45 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 19:41	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 19:41	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/20 19:41	127-18-4	
Tetrahydrofuran	**8.4J**	ug/L	20.0	2.3	1		04/16/20 19:41	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/16/20 19:41	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		04/16/20 19:41	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/20 19:41	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/20 19:41	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/20 19:41	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 19:41	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/20 19:41	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/20 19:41	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/20 19:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/20 19:41	108-67-8	
Vinyl chloride	**0.53J**	ug/L	1.0	0.17	1		04/16/20 19:41	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/20 19:41	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 19:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	70-130		1		04/16/20 19:41	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		04/16/20 19:41	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/16/20 19:41	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.22**	Std. Units			1		04/14/20 12:45		
Field Specific Conductance	**593**	umhos/cm			1		04/14/20 12:45		
Oxygen, Dissolved	**0**	mg/L			1		04/14/20 12:45	7782-44-7	
REDOX	**-114**	mV			1		04/14/20 12:45		
Turbidity	**2.8**	NTU			1		04/14/20 12:45		
Temperature, Water (C)	**6.3**	deg C			1		04/14/20 12:45		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-20C DUP **Lab ID: 40206244005** Collected: 04/14/20 12:45 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.96J**	ug/L	1.0	0.25	1		04/16/20 18:25	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 18:25	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/20 18:25	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/20 18:25	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/20 18:25	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/20 18:25	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 18:25	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/20 18:25	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/20 18:25	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/16/20 18:25	56-23-5	
Chlorobenzene	**0.94J**	ug/L	2.4	0.71	1		04/16/20 18:25	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/20 18:25	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/20 18:25	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/20 18:25	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/20 18:25	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/20 18:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/20 18:25	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/20 18:25	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/20 18:25	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/20 18:25	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 18:25	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/20 18:25	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/20 18:25	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/20 18:25	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 18:25	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 18:25	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 18:25	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/20 18:25	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/16/20 18:25	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 18:25	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/20 18:25	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/20 18:25	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/20 18:25	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/20 18:25	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/20 18:25	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/20 18:25	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/16/20 18:25	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		04/16/20 18:25	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		04/16/20 18:25	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/20 18:25	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/20 18:25	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/20 18:25	1634-04-4	
Naphthalene	**5.6**	ug/L	5.0	1.2	1		04/16/20 18:25	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/20 18:25	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/16/20 18:25	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-20C DUP **Lab ID: 40206244005** Collected: 04/14/20 12:45 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 18:25	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 18:25	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/20 18:25	127-18-4	
Tetrahydrofuran	**7.2J**	ug/L	20.0	2.3	1		04/16/20 18:25	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/16/20 18:25	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		04/16/20 18:25	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/20 18:25	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/20 18:25	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/20 18:25	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 18:25	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/20 18:25	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/20 18:25	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/20 18:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/20 18:25	108-67-8	
Vinyl chloride	**0.49J**	ug/L	1.0	0.17	1		04/16/20 18:25	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/20 18:25	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 18:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		04/16/20 18:25	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		04/16/20 18:25	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		04/16/20 18:25	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.22**	Std. Units			1		04/14/20 12:45		
Field Specific Conductance	**593**	umhos/cm			1		04/14/20 12:45		
Oxygen, Dissolved	**0**	mg/L			1		04/14/20 12:45	7782-44-7	
REDOX	**-114**	mV			1		04/14/20 12:45		
Turbidity	**2.8**	NTU			1		04/14/20 12:45		
Temperature, Water (C)	**6.3**	deg C			1		04/14/20 12:45		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-20B **Lab ID: 40206244006** Collected: 04/14/20 12:55 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.50J**	ug/L	1.0	0.25	1		04/16/20 14:54	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 14:54	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/20 14:54	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/20 14:54	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/20 14:54	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/20 14:54	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 14:54	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/20 14:54	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/20 14:54	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/16/20 14:54	56-23-5	
Chlorobenzene	**0.98J**	ug/L	2.4	0.71	1		04/16/20 14:54	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/20 14:54	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/20 14:54	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/20 14:54	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/20 14:54	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/20 14:54	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/20 14:54	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/20 14:54	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/20 14:54	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/20 14:54	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 14:54	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/20 14:54	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/20 14:54	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/20 14:54	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 14:54	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 14:54	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 14:54	75-35-4	M1
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/20 14:54	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/16/20 14:54	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 14:54	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/20 14:54	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/20 14:54	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/20 14:54	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/20 14:54	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/20 14:54	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/20 14:54	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/16/20 14:54	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		04/16/20 14:54	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		04/16/20 14:54	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/20 14:54	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/20 14:54	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/20 14:54	1634-04-4	
Naphthalene	**4.8J**	ug/L	5.0	1.2	1		04/16/20 14:54	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/20 14:54	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/16/20 14:54	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-20B **Lab ID: 40206244006** Collected: 04/14/20 12:55 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 14:54	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 14:54	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/20 14:54	127-18-4	
Tetrahydrofuran	**4.5J**	ug/L	20.0	2.3	1		04/16/20 14:54	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/16/20 14:54	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		04/16/20 14:54	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/20 14:54	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/20 14:54	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/20 14:54	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 14:54	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/20 14:54	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/20 14:54	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/20 14:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/20 14:54	108-67-8	
Vinyl chloride	**0.30J**	ug/L	1.0	0.17	1		04/16/20 14:54	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/20 14:54	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 14:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	70-130		1		04/16/20 14:54	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/16/20 14:54	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/16/20 14:54	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.17**	Std. Units			1		04/14/20 12:55		
Field Specific Conductance	**485**	umhos/cm			1		04/14/20 12:55		
Oxygen, Dissolved	**0**	mg/L			1		04/14/20 12:55	7782-44-7	
REDOX	**-144**	mV			1		04/14/20 12:55		
Turbidity	**3.4**	NTU			1		04/14/20 12:55		
Temperature, Water (C)	**6.93**	deg C			1		04/14/20 12:55		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-20A **Lab ID: 40206244007** Collected: 04/14/20 13:14 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**1.4**	ug/L	1.0	0.25	1		04/16/20 15:13	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 15:13	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/20 15:13	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/20 15:13	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/20 15:13	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/20 15:13	74-83-9	
n-Butylbenzene	**1.9J**	ug/L	2.4	0.71	1		04/16/20 15:13	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/20 15:13	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/20 15:13	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/16/20 15:13	56-23-5	
Chlorobenzene	**4.8**	ug/L	2.4	0.71	1		04/16/20 15:13	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/20 15:13	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/20 15:13	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/20 15:13	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/20 15:13	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/20 15:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/20 15:13	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/20 15:13	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/20 15:13	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/20 15:13	74-95-3	
1,2-Dichlorobenzene	**0.75J**	ug/L	2.4	0.71	1		04/16/20 15:13	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/20 15:13	541-73-1	
1,4-Dichlorobenzene	**2.4J**	ug/L	3.1	0.94	1		04/16/20 15:13	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/20 15:13	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 15:13	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 15:13	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 15:13	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/20 15:13	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/16/20 15:13	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 15:13	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/20 15:13	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/20 15:13	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/20 15:13	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/20 15:13	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/20 15:13	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/20 15:13	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/16/20 15:13	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		04/16/20 15:13	87-68-3	
Isopropylbenzene (Cumene)	**4.1J**	ug/L	5.6	1.7	1		04/16/20 15:13	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/20 15:13	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/20 15:13	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/20 15:13	1634-04-4	
Naphthalene	**16.0**	ug/L	5.0	1.2	1		04/16/20 15:13	91-20-3	
n-Propylbenzene	**3.6J**	ug/L	5.0	0.81	1		04/16/20 15:13	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/16/20 15:13	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-20A **Lab ID: 40206244007** Collected: 04/14/20 13:14 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 15:13	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 15:13	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/20 15:13	127-18-4	
Tetrahydrofuran	**6.9J**	ug/L	20.0	2.3	1		04/16/20 15:13	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/16/20 15:13	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		04/16/20 15:13	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/20 15:13	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/20 15:13	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/20 15:13	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 15:13	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/20 15:13	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/20 15:13	96-18-4	
1,2,4-Trimethylbenzene	**27.2**	ug/L	2.8	0.84	1		04/16/20 15:13	95-63-6	
1,3,5-Trimethylbenzene	**5.8**	ug/L	2.9	0.87	1		04/16/20 15:13	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/16/20 15:13	75-01-4	
m&p-Xylene	**54.9**	ug/L	2.0	0.47	1		04/16/20 15:13	179601-23-1	
o-Xylene	**1.4**	ug/L	1.0	0.26	1		04/16/20 15:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/16/20 15:13	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		04/16/20 15:13	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		04/16/20 15:13	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.26**	Std. Units			1		04/14/20 13:14		
Field Specific Conductance	**709**	umhos/cm			1		04/14/20 13:14		
Oxygen, Dissolved	**0**	mg/L			1		04/14/20 13:14	7782-44-7	
REDOX	**-102**	mV			1		04/14/20 13:14		
Turbidity	**4.3**	NTU			1		04/14/20 13:14		
Temperature, Water (C)	**5.88**	deg C			1		04/14/20 13:14		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-2A **Lab ID: 40206244008** Collected: 04/14/20 13:48 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**28.9**	ug/L	1.0	0.25	1		04/16/20 15:32	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 15:32	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/20 15:32	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/20 15:32	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/20 15:32	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/20 15:32	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 15:32	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/20 15:32	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/20 15:32	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/16/20 15:32	56-23-5	
Chlorobenzene	**1.3J**	ug/L	2.4	0.71	1		04/16/20 15:32	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/20 15:32	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/20 15:32	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/20 15:32	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/20 15:32	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/20 15:32	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/20 15:32	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/20 15:32	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/20 15:32	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/20 15:32	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 15:32	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/20 15:32	541-73-1	
1,4-Dichlorobenzene	**1.4J**	ug/L	3.1	0.94	1		04/16/20 15:32	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/20 15:32	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 15:32	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 15:32	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 15:32	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/20 15:32	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/16/20 15:32	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 15:32	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/20 15:32	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/20 15:32	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/20 15:32	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/20 15:32	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/20 15:32	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/20 15:32	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/16/20 15:32	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		04/16/20 15:32	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		04/16/20 15:32	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/20 15:32	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/20 15:32	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/20 15:32	1634-04-4	
Naphthalene	**5.6**	ug/L	5.0	1.2	1		04/16/20 15:32	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/20 15:32	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/16/20 15:32	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-2A **Lab ID: 40206244008** Collected: 04/14/20 13:48 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 15:32	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 15:32	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/20 15:32	127-18-4	
Tetrahydrofuran	**204**	ug/L	20.0	2.3	1		04/16/20 15:32	109-99-9	
Toluene	**0.37J**	ug/L	0.90	0.27	1		04/16/20 15:32	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		04/16/20 15:32	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/20 15:32	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/20 15:32	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/20 15:32	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 15:32	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/20 15:32	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/20 15:32	96-18-4	
1,2,4-Trimethylbenzene	**2.7J**	ug/L	2.8	0.84	1		04/16/20 15:32	95-63-6	
1,3,5-Trimethylbenzene	**2.0J**	ug/L	2.9	0.87	1		04/16/20 15:32	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/16/20 15:32	75-01-4	
m&p-Xylene	**4.9**	ug/L	2.0	0.47	1		04/16/20 15:32	179601-23-1	
o-Xylene	**0.63J**	ug/L	1.0	0.26	1		04/16/20 15:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/16/20 15:32	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		04/16/20 15:32	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		04/16/20 15:32	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.41**	Std. Units			1		04/14/20 13:48		
Field Specific Conductance	**3750**	umhos/cm			1		04/14/20 13:48		
Oxygen, Dissolved	**0**	mg/L			1		04/14/20 13:48	7782-44-7	
REDOX	**-84**	mV			1		04/14/20 13:48		
Turbidity	**17**	NTU			1		04/14/20 13:48		
Temperature, Water (C)	**3.78**	deg C			1		04/14/20 13:48		
350.1 Ammonia	Analytical Method: EPA 350.1								
	Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**251**	mg/L	17.4	5.2	20		04/21/20 16:04	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
	Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**256**	mg/L	20.0	4.2	20	04/16/20 13:40	04/16/20 19:42	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-2B **Lab ID: 40206244009** Collected: 04/14/20 13:50 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.88J**	ug/L	1.0	0.25	1		04/16/20 18:44	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 18:44	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/20 18:44	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/20 18:44	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/20 18:44	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/20 18:44	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 18:44	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/20 18:44	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/20 18:44	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/16/20 18:44	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 18:44	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/20 18:44	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/20 18:44	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/20 18:44	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/20 18:44	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/20 18:44	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/20 18:44	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/20 18:44	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/20 18:44	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/20 18:44	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 18:44	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/20 18:44	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/20 18:44	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/20 18:44	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 18:44	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 18:44	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 18:44	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/20 18:44	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/16/20 18:44	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 18:44	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/20 18:44	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/20 18:44	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/20 18:44	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/20 18:44	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/20 18:44	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/20 18:44	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/16/20 18:44	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		04/16/20 18:44	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		04/16/20 18:44	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/20 18:44	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/20 18:44	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/20 18:44	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/16/20 18:44	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/20 18:44	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/16/20 18:44	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: MW-2B **Lab ID: 40206244009** Collected: 04/14/20 13:50 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 18:44	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 18:44	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/20 18:44	127-18-4	
Tetrahydrofuran	**17.4J**	ug/L	20.0	2.3	1		04/16/20 18:44	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/16/20 18:44	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		04/16/20 18:44	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/20 18:44	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/20 18:44	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/20 18:44	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 18:44	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/20 18:44	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/20 18:44	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/20 18:44	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/20 18:44	108-67-8	
Vinyl chloride	**0.64J**	ug/L	1.0	0.17	1		04/16/20 18:44	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/20 18:44	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 18:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	81	%	70-130		1		04/16/20 18:44	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		04/16/20 18:44	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		04/16/20 18:44	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.82**	Std. Units			1		04/14/20 13:50		
Field Specific Conductance	**647**	umhos/cm			1		04/14/20 13:50		
Oxygen, Dissolved	**0**	mg/L			1		04/14/20 13:50	7782-44-7	
REDOX	**-52**	mV			1		04/14/20 13:50		
Turbidity	**1.3**	NTU			1		04/14/20 13:50		
Temperature, Water (C)	**6.41**	deg C			1		04/14/20 13:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: TRIP BLANK **Lab ID: 40206244010** Collected: 04/14/20 00:00 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/16/20 13:57	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 13:57	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/20 13:57	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/20 13:57	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/20 13:57	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/20 13:57	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 13:57	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/20 13:57	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/20 13:57	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		04/16/20 13:57	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 13:57	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/20 13:57	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/20 13:57	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/20 13:57	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/20 13:57	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/20 13:57	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/20 13:57	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/20 13:57	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/20 13:57	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/20 13:57	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/20 13:57	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/20 13:57	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/20 13:57	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/20 13:57	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 13:57	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 13:57	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/20 13:57	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/20 13:57	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		04/16/20 13:57	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 13:57	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/20 13:57	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/20 13:57	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/20 13:57	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/20 13:57	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/20 13:57	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/20 13:57	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		04/16/20 13:57	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		04/16/20 13:57	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		04/16/20 13:57	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/20 13:57	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/20 13:57	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/20 13:57	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/16/20 13:57	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/20 13:57	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		04/16/20 13:57	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Sample: TRIP BLANK **Lab ID: 40206244010** Collected: 04/14/20 00:00 Received: 04/15/20 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/20 13:57	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/20 13:57	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/20 13:57	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/16/20 13:57	109-99-9	
Toluene	**<0.27**	ug/L	0.90	0.27	1		04/16/20 13:57	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		04/16/20 13:57	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/20 13:57	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/20 13:57	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/20 13:57	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 13:57	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/20 13:57	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/20 13:57	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/20 13:57	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/20 13:57	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/16/20 13:57	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/20 13:57	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/20 13:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		04/16/20 13:57	460-00-4	HS
Dibromofluoromethane (S)	107	%	70-130		1		04/16/20 13:57	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		04/16/20 13:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

QC Batch: 352641
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206244001, 40206244002, 40206244003, 40206244004, 40206244005, 40206244006, 40206244007, 40206244008, 40206244009, 40206244010

METHOD BLANK: 2041443
Matrix: Water
Associated Lab Samples: 40206244001, 40206244002, 40206244003, 40206244004, 40206244005, 40206244006, 40206244007, 40206244008, 40206244009, 40206244010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	04/16/20 12:02	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/16/20 12:02	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	04/16/20 12:02	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/16/20 12:02	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/16/20 12:02	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/16/20 12:02	
1,1-Dichloropropene	ug/L	<0.54	1.8	04/16/20 12:02	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	04/16/20 12:02	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	04/16/20 12:02	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	04/16/20 12:02	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/16/20 12:02	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/16/20 12:02	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/16/20 12:02	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/16/20 12:02	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/16/20 12:02	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/16/20 12:02	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/16/20 12:02	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/16/20 12:02	
1,3-Dichloropropane	ug/L	<0.83	2.8	04/16/20 12:02	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/16/20 12:02	
2,2-Dichloropropane	ug/L	<2.3	7.6	04/16/20 12:02	
2-Chlorotoluene	ug/L	<0.93	5.0	04/16/20 12:02	
4-Chlorotoluene	ug/L	<0.76	2.5	04/16/20 12:02	
Benzene	ug/L	<0.25	1.0	04/16/20 12:02	
Bromobenzene	ug/L	<0.24	1.0	04/16/20 12:02	
Bromochloromethane	ug/L	<0.36	5.0	04/16/20 12:02	
Bromodichloromethane	ug/L	<0.36	1.2	04/16/20 12:02	
Bromoform	ug/L	<4.0	13.2	04/16/20 12:02	
Bromomethane	ug/L	<0.97	5.0	04/16/20 12:02	
Carbon tetrachloride	ug/L	<1.1	3.6	04/16/20 12:02	
Chlorobenzene	ug/L	<0.71	2.4	04/16/20 12:02	
Chloroethane	ug/L	<1.3	5.0	04/16/20 12:02	
Chloroform	ug/L	<1.3	5.0	04/16/20 12:02	
Chloromethane	ug/L	<2.2	7.3	04/16/20 12:02	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/16/20 12:02	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/16/20 12:02	
Dibromochloromethane	ug/L	<2.6	8.7	04/16/20 12:02	
Dibromomethane	ug/L	<0.94	3.1	04/16/20 12:02	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/16/20 12:02	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

METHOD BLANK: 2041443 Matrix: Water

Associated Lab Samples: 40206244001, 40206244002, 40206244003, 40206244004, 40206244005, 40206244006, 40206244007, 40206244008, 40206244009, 40206244010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.9	6.3	04/16/20 12:02	
Ethylbenzene	ug/L	<0.32	1.1	04/16/20 12:02	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	04/16/20 12:02	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	04/16/20 12:02	
m&p-Xylene	ug/L	<0.47	2.0	04/16/20 12:02	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/16/20 12:02	
Methylene Chloride	ug/L	<0.58	5.0	04/16/20 12:02	
n-Butylbenzene	ug/L	<0.71	2.4	04/16/20 12:02	
n-Propylbenzene	ug/L	<0.81	5.0	04/16/20 12:02	
Naphthalene	ug/L	<1.2	5.0	04/16/20 12:02	
o-Xylene	ug/L	<0.26	1.0	04/16/20 12:02	
p-Isopropyltoluene	ug/L	<0.80	2.7	04/16/20 12:02	
sec-Butylbenzene	ug/L	<0.85	5.0	04/16/20 12:02	
Styrene	ug/L	<3.0	10.0	04/16/20 12:02	
tert-Butylbenzene	ug/L	<0.30	1.0	04/16/20 12:02	
Tetrachloroethene	ug/L	<0.33	1.1	04/16/20 12:02	
Tetrahydrofuran	ug/L	<2.3	20.0	04/16/20 12:02	
Toluene	ug/L	<0.27	0.90	04/16/20 12:02	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	04/16/20 12:02	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/16/20 12:02	
Trichloroethene	ug/L	<0.26	1.0	04/16/20 12:02	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/16/20 12:02	
Vinyl chloride	ug/L	<0.17	1.0	04/16/20 12:02	
4-Bromofluorobenzene (S)	%	84	70-130	04/16/20 12:02	
Dibromofluoromethane (S)	%	99	70-130	04/16/20 12:02	
Toluene-d8 (S)	%	100	70-130	04/16/20 12:02	

LABORATORY CONTROL SAMPLE: 2041444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.3	107	64-131	
1,1,2-Trichloroethane	ug/L	50	49.5	99	70-130	
1,1-Dichloroethane	ug/L	50	51.1	102	69-163	
1,1-Dichloroethene	ug/L	50	39.0	78	77-123	
1,2,4-Trichlorobenzene	ug/L	50	45.4	91	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.3	97	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	44.3	89	70-130	
1,2-Dichlorobenzene	ug/L	50	52.3	105	70-130	
1,2-Dichloroethane	ug/L	50	44.3	89	78-142	
1,2-Dichloropropane	ug/L	50	49.3	99	86-134	
1,3-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,4-Dichlorobenzene	ug/L	50	52.6	105	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

LABORATORY CONTROL SAMPLE: 2041444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.5	103	70-130	
Bromodichloromethane	ug/L	50	48.1	96	70-130	
Bromoform	ug/L	50	40.3	81	70-130	
Bromomethane	ug/L	50	29.5	59	39-129	
Carbon tetrachloride	ug/L	50	47.1	94	70-132	
Chlorobenzene	ug/L	50	50.1	100	70-130	
Chloroethane	ug/L	50	37.7	75	66-140	
Chloroform	ug/L	50	50.1	100	75-132	
Chloromethane	ug/L	50	33.0	66	32-143	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.7	89	70-130	
Dibromochloromethane	ug/L	50	43.8	88	70-130	
Dichlorodifluoromethane	ug/L	50	26.1	52	10-141	
Ethylbenzene	ug/L	50	49.9	100	80-120	
Isopropylbenzene (Cumene)	ug/L	50	48.6	97	70-130	
m&p-Xylene	ug/L	100	97.7	98	70-130	
Methyl-tert-butyl ether	ug/L	50	41.4	83	61-129	
Methylene Chloride	ug/L	50	48.1	96	70-130	
o-Xylene	ug/L	50	47.8	96	70-130	
Styrene	ug/L	50	48.3	97	70-130	
Tetrachloroethene	ug/L	50	44.2	88	70-130	
Toluene	ug/L	50	51.6	103	80-120	
trans-1,2-Dichloroethene	ug/L	50	49.6	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.2	86	69-130	
Trichloroethene	ug/L	50	48.8	98	70-130	
Trichlorofluoromethane	ug/L	50	42.4	85	75-145	
Vinyl chloride	ug/L	50	31.8	64	51-140	
4-Bromofluorobenzene (S)	%			88	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2042374 2042375

Parameter	Units	40206244006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	48.2	44.9	96	90	70-130	7	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	55.2	55.4	110	111	64-137	0	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	48.7	45.7	97	91	70-137	6	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	51.4	48.6	103	97	69-163	6	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	43.0	38.2	86	76	77-129	12	20	M1
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	47.3	47.8	95	96	68-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	47.6	43.6	95	87	60-130	9	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	44.1	41.4	88	83	70-130	6	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	53.3	51.0	106	101	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2042374 2042375

Parameter	Units	40206244006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	<0.28	50	50	46.5	42.9	93	86	78-145	8	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	49.8	50.0	100	100	86-135	0	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.0	51.2	104	102	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.0	50.9	106	101	70-130	4	20	
Benzene	ug/L	0.50J	50	50	53.8	49.1	107	97	70-136	9	20	
Bromodichloromethane	ug/L	<0.36	50	50	48.9	47.7	98	95	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	40.6	37.9	81	76	69-130	7	20	
Bromomethane	ug/L	<0.97	50	50	33.6	30.3	67	61	39-138	10	20	
Carbon tetrachloride	ug/L	<1.1	50	50	49.4	46.5	99	93	70-142	6	20	
Chlorobenzene	ug/L	0.98J	50	50	51.8	50.8	102	100	70-130	2	20	
Chloroethane	ug/L	<1.3	50	50	37.9	35.0	76	70	61-149	8	20	
Chloroform	ug/L	<1.3	50	50	50.8	47.7	102	95	75-133	6	20	
Chloromethane	ug/L	<2.2	50	50	33.8	32.6	68	65	32-143	4	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.2	47.6	102	95	70-130	7	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	45.2	44.9	90	90	70-130	1	20	
Dibromochloromethane	ug/L	<2.6	50	50	43.9	40.1	88	80	70-130	9	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	27.0	27.0	54	54	10-141	0	20	
Ethylbenzene	ug/L	<0.32	50	50	52.1	50.6	104	101	80-120	3	20	
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	50.2	47.9	100	96	70-130	5	20	
m&p-Xylene	ug/L	<0.47	100	100	99.0	94.9	99	95	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	41.3	39.1	83	78	61-136	5	20	
Methylene Chloride	ug/L	<0.58	50	50	48.5	46.9	97	94	68-137	3	20	
o-Xylene	ug/L	<0.26	50	50	48.5	46.3	97	93	70-130	5	20	
Styrene	ug/L	<3.0	50	50	49.1	46.9	98	94	70-130	5	20	
Tetrachloroethene	ug/L	<0.33	50	50	42.7	42.4	85	85	70-130	1	20	
Toluene	ug/L	<0.27	50	50	51.3	50.8	103	102	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	50.6	47.2	101	94	70-130	7	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	42.7	39.7	85	79	69-130	7	20	
Trichloroethene	ug/L	<0.26	50	50	49.3	49.5	99	99	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	43.6	41.2	87	82	74-157	6	20	
Vinyl chloride	ug/L	0.30J	50	50	31.6	30.5	63	60	51-140	4	20	
4-Bromofluorobenzene (S)	%						91	88	70-130			
Dibromofluoromethane (S)	%						107	102	70-130			
Toluene-d8 (S)	%						101	103	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

QC Batch: 353049
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206244008

METHOD BLANK: 2043919 Matrix: Water
Associated Lab Samples: 40206244008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.26	0.87	04/21/20 15:58	

LABORATORY CONTROL SAMPLE: 2043920

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: 2043921 2043922

Parameter	Units	40206243001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.1	10	10	11.1	11.1	100	100	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

QC Batch: 352737
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206244008

METHOD BLANK: 2041893 Matrix: Water
Associated Lab Samples: 40206244008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	04/16/20 18:31	

LABORATORY CONTROL SAMPLE: 2041894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2041895 2041896

Parameter	Units	40206240001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	49.6	20	20	69.4	67.1	99	87	90-110	3	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2041898 2041899

Parameter	Units	40206292001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.30J	5	5	5.4	5.6	102	106	90-110	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF
Pace Project No.: 40206244

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40206244001	**MW-16C**	EPA 8260	352641		
40206244002	**MW-16B**	EPA 8260	352641		
40206244003	**MW-16A**	EPA 8260	352641		
40206244004	**MW-20C**	EPA 8260	352641		
40206244005	**MW-20C DUP**	EPA 8260	352641		
40206244006	**MW-20B**	EPA 8260	352641		
40206244007	**MW-20A**	EPA 8260	352641		
40206244008	**MW-2A**	EPA 8260	352641		
40206244009	**MW-2B**	EPA 8260	352641		
40206244010	**TRIP BLANK**	EPA 8260	352641		
40206244001	**MW-16C**				
40206244002	**MW-16B**				
40206244003	**MW-16A**				
40206244004	**MW-20C**				
40206244005	**MW-20C DUP**				
40206244006	**MW-20B**				
40206244007	**MW-20A**				
40206244008	**MW-2A**				
40206244009	**MW-2B**				
40206244008	**MW-2A**	EPA 350.1	353049		
40206244008	**MW-2A**	EPA 351.2	352737	EPA 351.2	352758

UPPER MIDWEST REGION

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

Page 1 of

Pace Analytical®
www.pacelabs.com

CHAIN OF COUNTY

4062644

(Please Print Clearly)	
Company Name:	GHD
Branch/Location:	St. Paul
Project Contact:	Grant Anderson
Phone:	6516390913
Project Number:	11115796
Project Name:	Rhinelander LF
Project State:	WI
Sampled By (Print):	RAamot
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Quote #:	see 550W
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

*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

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

FILTERED? (YES/NO)	Y/N	N	N			
PRESERVATION (CODE)*	Pick Letter	B	C			
	Analyses Requested	VOC + tetrahydrofuran	Ammonia, TKN			

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOC + tetrahydrofuran	Ammonia, TKN	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	W-200414-RA-01	4/14/20	1200	WG	X		sample times		
002	RA-02	↓	1202	↓	X		not listed		
003	RA-03	↓	1222	↓	X		on bottles		
004	RA-04	↓	1245	↓	X				
005	RA-05	↓	1245	↓	X				
006	RA-06	↓	1255	↓	X				
007	RA-07	↓	1314	↓	X				
008	RA-08	↓	1348	↓	X	X			
009	W-200414-RA-09	↓	1350	↓	X				
010	trip blank				X				

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	4/14/20 1500		
FedEx	4/15/20 0900	[signature] Pace	4/15/20 0900

PACE Project No. 4062644

Receipt Temp = ROI °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

Pace Container Order #632176

4600244

Addresses

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

Info

Project Name	Rhinelander LF Groundwater	**Due Date**	03/27/2020	**Profile**	x	**Quote**	
Project Manager	Milewsky, Dan	**Return Date**		**Carrier**	FedEx Standard Overnight	**Location**	

Trip Blanks

- [X] Include Trip Blanks

Bottle Labels

- [X] Blank
- [ ] Pre-Printed No Sample IDs
- [ ] Pre-Printed With Sample IDs

Bottles

- [ ] Boxed Cases
- [ ] Individually Wrapped
- [ ] Grouped By Sample ID/Matrix

Return Shipping Labels

- [ ] No Shipper
- [X] With Shipper

COC Options

- [X] Number of Blanks: 2
- [ ] Pre-Printed

Misc

- [ ] Sampling Instructions
- [ ] Custody Seal
- [ ] Temp. Blanks
- [X] Coolers
- [ ] Syringes
- [ ] Extra Bubble Wrap
- [ ] Short Hold/Rush Stickers
- [ ] DI Water Liter(s)
- [ ] USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
2	WT	Trip BLANK	2-40mL HCL w/custody seal	4	0	B-9-222-01VB	
12	WT	VOC WI List	3-40ml clear vial HCl-hydrochloric acid	36	0	B-0-039-01VB	
2	WT	Ammonia and TKN	250mL plastic H2SO4	2	0	M-9-295-07BB	

Hazard Shipping Placard In Place : NA

*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace 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/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	03/26/2020
Prepared By:	Mai Yer Her
Verified By:	

Sample

CLIENT USE (Optional):

Date Rec'd:	
Received By:	
Verified By:	

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: GHD Project # 40240244

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A Initial when completed: MP Date/ Time:

Lab Lot# of pH paper: 10052791 Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																	3															2.5 / 5 / 10
002																	3															2.5 / 5 / 10
003																	3															2.5 / 5 / 10
004																	3															2.5 / 5 / 10
005																	3															2.5 / 5 / 10
006																	3															2.5 / 5 / 10
007																	3															2.5 / 5 / 10
008													1				3										1	X				2.5 / 5 / 10
009																	3															2.5 / 5 / 10
010																	4										4					2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																												4/15 no MP				2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: (VOA), Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40206244

40206244

Client Name: GHD

Courier: ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 8152 5165 3825

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 - NA **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1.0 /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 4/15/20 /Initials: NO
Labeled By Initials: VC

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8. ~~Received~~ Received 6 extra empty HCL vials. 4/15/20 NO
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☒No ☐N/A	12. NO Times listed on All samples. 4/15/20 NO
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 441		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 10, 2020

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.: 40216937

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory between October 21, 2020 and October 26, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Pace Analytical Services Green Bay
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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40216937001	MW-16C	Water	10/19/20 15:17	10/21/20 09:20
40216937002	MW-16B	Water	10/19/20 15:46	10/21/20 09:20
40216937003	MW-16A	Water	10/19/20 15:48	10/21/20 09:20
40216937004	MW-18B	Water	10/19/20 16:14	10/21/20 09:20
40216937005	MW-18C	Water	10/19/20 16:20	10/21/20 09:20
40216937006	MW-18A	Water	10/19/20 16:45	10/21/20 09:20
40216937007	MW-26C	Water	10/19/20 16:55	10/21/20 09:20
40216937008	MW-26B	Water	10/19/20 17:15	10/21/20 09:20
40216937009	TRIP BLANK	Water	10/19/20 00:00	10/21/20 09:20
40216937010	MW-20B	Water	10/20/20 08:25	10/21/20 09:20
40216937011	MW-20C	Water	10/20/20 08:30	10/21/20 09:20
40216937012	MW-20C DUP	Water	10/20/20 08:30	10/21/20 09:20
40216937013	MW-20A	Water	10/20/20 08:50	10/21/20 09:20
40216937014	MW-28A	Water	10/20/20 10:05	10/21/20 09:20
40216937015	FIELD BLANK	Water	10/20/20 09:30	10/21/20 09:20
40216937016	MW-27B	Water	10/20/20 10:10	10/21/20 09:20
40216937017	MW-4A	Water	10/20/20 09:30	10/21/20 09:20
40216937018	MW-5A	Water	10/20/20 09:30	10/21/20 09:20
40216937019	MW-25B	Water	10/20/20 11:00	10/21/20 09:20
40216937020	MW-28B	Water	10/20/20 00:00	10/26/20 16:35
40216937021	MW-19B	Water	10/20/20 00:00	10/26/20 16:35
40216937022	MW-19C	Water	10/20/20 00:00	10/26/20 16:35

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Green Bay, WI 54302
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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40216937001	**MW-16C**	EPA 6010	TXW	3
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937002	**MW-16B**	EPA 6010	TXW	3
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937003	**MW-16A**	EPA 6010	TXW	3
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937004	**MW-18B**	EPA 6010	TXW	3
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937005	**MW-18C**	EPA 6010	TXW	4
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937006	**MW-18A**	EPA 6010	TXW	3
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937007	**MW-26C**	EPA 6010	TXW	3
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937008	**MW-26B**	EPA 6010	TXW	3
		EPA 8260	HNW	65

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Lab ID	Sample ID	Method	Analysts	Analytes Reported
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937009	**TRIP BLANK**	EPA 8260	HNW	65
40216937010	**MW-20B**	EPA 6010	TXW	3
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937011	**MW-20C**	EPA 6010	TXW	3
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937012	**MW-20C DUP**	EPA 6010	TXW	3
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937013	**MW-20A**	EPA 6010	TXW	4
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937014	**MW-28A**	EPA 6010	TXW	4
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937015	**FIELD BLANK**	EPA 6010	TXW	4
		EPA 8260	HNW	65
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937016	**MW-27B**	EPA 6010	TXW	3
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 310.2	TMK	1
40216937017	**MW-4A**	EPA 6010	TXW	4
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937018	**MW-5A**	EPA 6010	TXW	4
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937019	**MW-25B**	EPA 6010	TXW	4
		EPA 8260	HNW	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	TMK	1
40216937020	**MW-28B**		VGC	6
40216937021	**MW-19B**		VGC	6
40216937022	**MW-19C**		VGC	6

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-16C **Lab ID: 40216937001** Collected: 10/19/20 15:17 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**26200**	ug/L	100	29.6	1		10/23/20 04:27	7439-89-6	
Manganese, Dissolved	**2160**	ug/L	5.0	1.1	1		10/23/20 04:27	7439-96-5	
Total Hardness by 2340B, Dissolved	**228**	mg/L	2.0	0.15	1		10/23/20 04:27		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.91J**	ug/L	1.0	0.25	1		10/29/20 13:16	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 13:16	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/29/20 13:16	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/29/20 13:16	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/29/20 13:16	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/29/20 13:16	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 13:16	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/29/20 13:16	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/29/20 13:16	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/29/20 13:16	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 13:16	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/29/20 13:16	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/29/20 13:16	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/29/20 13:16	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/29/20 13:16	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/29/20 13:16	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/29/20 13:16	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/29/20 13:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/29/20 13:16	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/29/20 13:16	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 13:16	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/29/20 13:16	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/29/20 13:16	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/29/20 13:16	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:16	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 13:16	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 13:16	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:16	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/29/20 13:16	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 13:16	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/29/20 13:16	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/29/20 13:16	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/29/20 13:16	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/29/20 13:16	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/29/20 13:16	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/29/20 13:16	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/29/20 13:16	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/29/20 13:16	87-68-3	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-16C **Lab ID: 40216937001** Collected: 10/19/20 15:17 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/29/20 13:16	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/29/20 13:16	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/29/20 13:16	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/29/20 13:16	1634-04-4	
Naphthalene	**2.1J**	ug/L	5.0	1.2	1		10/29/20 13:16	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/29/20 13:16	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/29/20 13:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:16	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 13:16	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/29/20 13:16	127-18-4	
Tetrahydrofuran	**3.1J**	ug/L	20.0	2.3	1		10/29/20 13:16	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:16	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/29/20 13:16	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/29/20 13:16	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/29/20 13:16	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/29/20 13:16	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 13:16	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/29/20 13:16	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/29/20 13:16	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/29/20 13:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/29/20 13:16	108-67-8	
Vinyl chloride	**0.36J**	ug/L	1.0	0.17	1		10/29/20 13:16	75-01-4	
m&p-Xylene	**0.48J**	ug/L	2.0	0.47	1		10/29/20 13:16	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 13:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/29/20 13:16	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		10/29/20 13:16	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/29/20 13:16	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.9**	Std. Units			1		10/19/20 15:17		
Field Specific Conductance	**666**	umhos/cm			1		10/19/20 15:17		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 15:17	7782-44-7	
REDOX	**-143**	mV			1		10/19/20 15:17		
Turbidity	**5.5**	NTU			1		10/19/20 15:17		
Temperature, Water (C)	**7.86**	deg C			1		10/19/20 15:17		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**44.5**	mg/L	10.0	2.2	5		11/03/20 16:22	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**237**	mg/L	24.8	7.4	1		11/02/20 14:13		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-16B **Lab ID: 40216937002** Collected: 10/19/20 15:46 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**31100**	ug/L	100	29.6	1		10/23/20 04:31	7439-89-6	
Manganese, Dissolved	**3730**	ug/L	5.0	1.1	1		10/23/20 04:31	7439-96-5	
Total Hardness by 2340B, Dissolved	**225**	mg/L	2.0	0.15	1		10/23/20 04:31		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.85J**	ug/L	1.0	0.25	1		10/29/20 13:38	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 13:38	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/29/20 13:38	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/29/20 13:38	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/29/20 13:38	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/29/20 13:38	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 13:38	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/29/20 13:38	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/29/20 13:38	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/29/20 13:38	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 13:38	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/29/20 13:38	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/29/20 13:38	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/29/20 13:38	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/29/20 13:38	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/29/20 13:38	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/29/20 13:38	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/29/20 13:38	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/29/20 13:38	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/29/20 13:38	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 13:38	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/29/20 13:38	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/29/20 13:38	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/29/20 13:38	75-71-8	
1,1-Dichloroethane	**0.30J**	ug/L	1.0	0.27	1		10/29/20 13:38	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 13:38	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 13:38	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:38	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/29/20 13:38	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 13:38	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/29/20 13:38	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/29/20 13:38	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/29/20 13:38	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/29/20 13:38	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/29/20 13:38	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/29/20 13:38	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/29/20 13:38	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/29/20 13:38	87-68-3	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-16B **Lab ID: 40216937002** Collected: 10/19/20 15:46 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/29/20 13:38	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/29/20 13:38	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/29/20 13:38	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/29/20 13:38	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/29/20 13:38	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/29/20 13:38	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/29/20 13:38	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:38	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 13:38	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/29/20 13:38	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/29/20 13:38	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:38	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/29/20 13:38	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/29/20 13:38	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/29/20 13:38	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/29/20 13:38	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 13:38	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/29/20 13:38	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/29/20 13:38	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/29/20 13:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/29/20 13:38	108-67-8	
Vinyl chloride	**0.28J**	ug/L	1.0	0.17	1		10/29/20 13:38	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/29/20 13:38	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 13:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/29/20 13:38	460-00-4	
Dibromofluoromethane (S)	86	%	70-130		1		10/29/20 13:38	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/29/20 13:38	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.02**	Std. Units			1		10/19/20 15:46		
Field Specific Conductance	**648**	umhos/cm			1		10/19/20 15:46		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 15:46	7782-44-7	
REDOX	**-179**	mV			1		10/19/20 15:46		
Turbidity	**13.9**	NTU			1		10/19/20 15:46		
Temperature, Water (C)	**7.23**	deg C			1		10/19/20 15:46		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**36.7**	mg/L	10.0	2.2	5		11/03/20 16:52	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**232**	mg/L	24.8	7.4	1		11/02/20 15:03		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-16A **Lab ID: 40216937003** Collected: 10/19/20 15:48 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**5330**	ug/L	100	29.6	1		10/23/20 04:34	7439-89-6	
Manganese, Dissolved	**3490**	ug/L	5.0	1.1	1		10/23/20 04:34	7439-96-5	
Total Hardness by 2340B, Dissolved	**185**	mg/L	2.0	0.15	1		10/23/20 04:34		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.49J**	ug/L	1.0	0.25	1		10/29/20 13:59	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 13:59	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/29/20 13:59	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/29/20 13:59	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/29/20 13:59	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/29/20 13:59	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 13:59	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/29/20 13:59	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/29/20 13:59	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/29/20 13:59	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 13:59	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/29/20 13:59	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/29/20 13:59	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/29/20 13:59	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/29/20 13:59	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/29/20 13:59	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/29/20 13:59	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/29/20 13:59	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/29/20 13:59	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/29/20 13:59	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 13:59	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/29/20 13:59	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/29/20 13:59	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/29/20 13:59	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:59	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 13:59	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 13:59	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:59	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/29/20 13:59	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 13:59	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/29/20 13:59	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/29/20 13:59	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/29/20 13:59	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/29/20 13:59	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/29/20 13:59	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/29/20 13:59	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/29/20 13:59	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/29/20 13:59	87-68-3	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-16A **Lab ID: 40216937003** Collected: 10/19/20 15:48 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/29/20 13:59	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/29/20 13:59	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/29/20 13:59	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/29/20 13:59	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/29/20 13:59	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/29/20 13:59	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/29/20 13:59	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:59	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 13:59	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/29/20 13:59	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/29/20 13:59	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 13:59	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/29/20 13:59	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/29/20 13:59	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/29/20 13:59	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/29/20 13:59	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 13:59	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/29/20 13:59	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/29/20 13:59	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/29/20 13:59	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/29/20 13:59	108-67-8	
Vinyl chloride	**1.1**	ug/L	1.0	0.17	1		10/29/20 13:59	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/29/20 13:59	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 13:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		10/29/20 13:59	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		10/29/20 13:59	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/29/20 13:59	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.07**	Std. Units			1		10/19/20 15:48		
Field Specific Conductance	**479**	umhos/cm			1		10/19/20 15:48		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 15:48	7782-44-7	
REDOX	**-151**	mV			1		10/19/20 15:48		
Turbidity	**11**	NTU			1		10/19/20 15:48		
Temperature, Water (C)	**7.07**	deg C			1		10/19/20 15:48		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**25.6**	mg/L	10.0	2.2	5		11/03/20 17:07	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**199**	mg/L	24.8	7.4	1		11/02/20 15:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-18B **Lab ID: 40216937004** Collected: 10/19/20 16:14 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		10/23/20 04:36	7439-89-6	
Manganese, Dissolved	**1530**	ug/L	5.0	1.1	1		10/23/20 04:36	7439-96-5	
Total Hardness by 2340B, Dissolved	**240**	mg/L	2.0	0.15	1		10/23/20 04:36		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/29/20 14:21	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 14:21	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/29/20 14:21	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/29/20 14:21	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/29/20 14:21	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/29/20 14:21	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 14:21	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/29/20 14:21	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/29/20 14:21	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/29/20 14:21	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 14:21	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/29/20 14:21	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/29/20 14:21	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/29/20 14:21	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/29/20 14:21	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/29/20 14:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/29/20 14:21	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/29/20 14:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/29/20 14:21	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/29/20 14:21	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 14:21	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/29/20 14:21	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/29/20 14:21	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/29/20 14:21	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 14:21	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 14:21	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 14:21	75-35-4	
cis-1,2-Dichloroethene	**1.9**	ug/L	1.0	0.27	1		10/29/20 14:21	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/29/20 14:21	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 14:21	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/29/20 14:21	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/29/20 14:21	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/29/20 14:21	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/29/20 14:21	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/29/20 14:21	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/29/20 14:21	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/29/20 14:21	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/29/20 14:21	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-18B **Lab ID: 40216937004** Collected: 10/19/20 16:14 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/29/20 14:21	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/29/20 14:21	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/29/20 14:21	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/29/20 14:21	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/29/20 14:21	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/29/20 14:21	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/29/20 14:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 14:21	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 14:21	79-34-5	
Tetrachloroethene	**1.1J**	ug/L	1.1	0.33	1		10/29/20 14:21	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/29/20 14:21	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 14:21	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/29/20 14:21	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/29/20 14:21	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/29/20 14:21	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/29/20 14:21	79-00-5	
Trichloroethene	**27.8**	ug/L	1.0	0.26	1		10/29/20 14:21	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/29/20 14:21	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/29/20 14:21	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/29/20 14:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/29/20 14:21	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/29/20 14:21	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/29/20 14:21	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 14:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/29/20 14:21	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		10/29/20 14:21	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/29/20 14:21	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.21**	Std. Units			1		10/19/20 16:14		
Field Specific Conductance	**644**	umhos/cm			1		10/19/20 16:14		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 16:14	7782-44-7	
REDOX	**35**	mV			1		10/19/20 16:14		
Turbidity	**10.6**	NTU			1		10/19/20 16:14		
Temperature, Water (C)	**8.45**	deg C			1		10/19/20 16:14		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**96.0**	mg/L	20.0	4.3	10		11/03/20 17:22	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**127**	mg/L	24.8	7.4	1		11/02/20 15:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-18C **Lab ID: 40216937005** Collected: 10/19/20 16:20 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Boron, Dissolved	**43.0**	ug/L	40.0	9.7	1		10/23/20 04:39	7440-42-8	
Iron, Dissolved	**45.3J**	ug/L	100	29.6	1		10/23/20 04:39	7439-89-6	
Manganese, Dissolved	**1180**	ug/L	5.0	1.1	1		10/23/20 04:39	7439-96-5	
Total Hardness by 2340B, Dissolved	**243**	mg/L	2.0	0.15	1		10/23/20 04:39		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/29/20 14:42	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 14:42	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/29/20 14:42	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/29/20 14:42	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/29/20 14:42	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/29/20 14:42	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 14:42	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/29/20 14:42	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/29/20 14:42	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/29/20 14:42	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 14:42	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/29/20 14:42	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/29/20 14:42	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/29/20 14:42	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/29/20 14:42	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/29/20 14:42	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/29/20 14:42	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/29/20 14:42	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/29/20 14:42	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/29/20 14:42	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 14:42	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/29/20 14:42	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/29/20 14:42	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/29/20 14:42	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 14:42	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 14:42	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 14:42	75-35-4	
cis-1,2-Dichloroethene	**2.4**	ug/L	1.0	0.27	1		10/29/20 14:42	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/29/20 14:42	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 14:42	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/29/20 14:42	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/29/20 14:42	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/29/20 14:42	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/29/20 14:42	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/29/20 14:42	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/29/20 14:42	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/29/20 14:42	100-41-4	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-18C **Lab ID: 40216937005** Collected: 10/19/20 16:20 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/29/20 14:42	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/29/20 14:42	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/29/20 14:42	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/29/20 14:42	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/29/20 14:42	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/29/20 14:42	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/29/20 14:42	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/29/20 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 14:42	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 14:42	79-34-5	
Tetrachloroethene	**0.79J**	ug/L	1.1	0.33	1		10/29/20 14:42	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/29/20 14:42	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 14:42	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/29/20 14:42	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/29/20 14:42	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/29/20 14:42	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/29/20 14:42	79-00-5	
Trichloroethene	**23.3**	ug/L	1.0	0.26	1		10/29/20 14:42	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/29/20 14:42	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/29/20 14:42	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/29/20 14:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/29/20 14:42	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/29/20 14:42	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/29/20 14:42	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 14:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/29/20 14:42	460-00-4	
Dibromofluoromethane (S)	88	%	70-130		1		10/29/20 14:42	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/29/20 14:42	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.18**	Std. Units			1		10/19/20 16:20		
Field Specific Conductance	**612**	umhos/cm			1		10/19/20 16:20		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 16:20	7782-44-7	
REDOX	**-37**	mV			1		10/19/20 16:20		
Turbidity	**1.7**	NTU			1		10/19/20 16:20		
Temperature, Water (C)	**7.68**	deg C			1		10/19/20 16:20		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**97.1**	mg/L	20.0	4.3	10		11/03/20 17:37	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-18C **Lab ID: 40216937005** Collected: 10/19/20 16:20 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**131**	mg/L	24.8	7.4	1		11/02/20 15:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-18A **Lab ID: 40216937006** Collected: 10/19/20 16:45 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**2410**	ug/L	100	29.6	1		10/23/20 04:46	7439-89-6	
Manganese, Dissolved	**1530**	ug/L	5.0	1.1	1		10/23/20 04:46	7439-96-5	
Total Hardness by 2340B, Dissolved	**255**	mg/L	2.0	0.15	1		10/23/20 04:46		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/29/20 15:04	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 15:04	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/29/20 15:04	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/29/20 15:04	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/29/20 15:04	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/29/20 15:04	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 15:04	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/29/20 15:04	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/29/20 15:04	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/29/20 15:04	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 15:04	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/29/20 15:04	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/29/20 15:04	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/29/20 15:04	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/29/20 15:04	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/29/20 15:04	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/29/20 15:04	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/29/20 15:04	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/29/20 15:04	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/29/20 15:04	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 15:04	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/29/20 15:04	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/29/20 15:04	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/29/20 15:04	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 15:04	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 15:04	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 15:04	75-35-4	
cis-1,2-Dichloroethene	**5.6**	ug/L	1.0	0.27	1		10/29/20 15:04	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/29/20 15:04	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 15:04	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/29/20 15:04	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/29/20 15:04	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/29/20 15:04	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/29/20 15:04	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/29/20 15:04	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/29/20 15:04	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/29/20 15:04	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/29/20 15:04	87-68-3	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-18A **Lab ID: 40216937006** Collected: 10/19/20 16:45 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/29/20 15:04	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/29/20 15:04	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/29/20 15:04	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/29/20 15:04	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/29/20 15:04	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/29/20 15:04	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/29/20 15:04	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 15:04	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 15:04	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/29/20 15:04	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/29/20 15:04	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 15:04	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/29/20 15:04	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/29/20 15:04	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/29/20 15:04	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/29/20 15:04	79-00-5	
Trichloroethene	**6.2**	ug/L	1.0	0.26	1		10/29/20 15:04	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/29/20 15:04	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/29/20 15:04	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/29/20 15:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/29/20 15:04	108-67-8	
Vinyl chloride	**0.19J**	ug/L	1.0	0.17	1		10/29/20 15:04	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/29/20 15:04	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 15:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/29/20 15:04	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		10/29/20 15:04	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/29/20 15:04	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.31**	Std. Units			1		10/19/20 16:45		
Field Specific Conductance	**701**	umhos/cm			1		10/19/20 16:45		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 16:45	7782-44-7	
REDOX	**-165**	mV			1		10/19/20 16:45		
Turbidity	**43.2**	NTU			1		10/19/20 16:45		
Temperature, Water (C)	**7.97**	deg C			1		10/19/20 16:45		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**78.1**	mg/L	10.0	2.2	5		11/03/20 17:52	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**187**	mg/L	24.8	7.4	1		11/02/20 15:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-26C **Lab ID: 40216937007** Collected: 10/19/20 16:55 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**946**	ug/L	100	29.6	1		10/23/20 04:48	7439-89-6	
Manganese, Dissolved	**2370**	ug/L	5.0	1.1	1		10/23/20 04:48	7439-96-5	
Total Hardness by 2340B, Dissolved	**226**	mg/L	2.0	0.15	1		10/23/20 04:48		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.64J**	ug/L	1.0	0.25	1		10/29/20 15:25	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 15:25	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/29/20 15:25	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/29/20 15:25	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/29/20 15:25	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/29/20 15:25	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 15:25	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/29/20 15:25	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/29/20 15:25	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/29/20 15:25	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 15:25	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/29/20 15:25	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/29/20 15:25	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/29/20 15:25	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/29/20 15:25	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/29/20 15:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/29/20 15:25	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/29/20 15:25	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/29/20 15:25	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/29/20 15:25	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 15:25	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/29/20 15:25	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/29/20 15:25	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/29/20 15:25	75-71-8	
1,1-Dichloroethane	**1.0**	ug/L	1.0	0.27	1		10/29/20 15:25	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 15:25	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 15:25	75-35-4	
cis-1,2-Dichloroethene	**0.67J**	ug/L	1.0	0.27	1		10/29/20 15:25	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/29/20 15:25	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 15:25	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/29/20 15:25	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/29/20 15:25	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/29/20 15:25	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/29/20 15:25	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/29/20 15:25	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/29/20 15:25	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/29/20 15:25	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/29/20 15:25	87-68-3	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-26C **Lab ID: 40216937007** Collected: 10/19/20 16:55 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/29/20 15:25	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/29/20 15:25	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/29/20 15:25	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/29/20 15:25	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/29/20 15:25	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/29/20 15:25	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/29/20 15:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 15:25	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 15:25	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/29/20 15:25	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/29/20 15:25	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 15:25	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/29/20 15:25	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/29/20 15:25	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/29/20 15:25	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/29/20 15:25	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 15:25	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/29/20 15:25	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/29/20 15:25	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/29/20 15:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/29/20 15:25	108-67-8	
Vinyl chloride	**3.4**	ug/L	1.0	0.17	1		10/29/20 15:25	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/29/20 15:25	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 15:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/29/20 15:25	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		10/29/20 15:25	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/29/20 15:25	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.45**	Std. Units			1		10/19/20 16:55		
Field Specific Conductance	**460**	umhos/cm			1		10/19/20 16:55		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 16:55	7782-44-7	
REDOX	**-150**	mV			1		10/19/20 16:55		
Turbidity	**0.9**	NTU			1		10/19/20 16:55		
Temperature, Water (C)	**8.63**	deg C			1		10/19/20 16:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**20.2**	mg/L	2.0	0.43	1		11/03/20 19:37	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**230**	mg/L	24.8	7.4	1		11/02/20 15:09		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-26B **Lab ID: 40216937008** Collected: 10/19/20 17:15 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**1040**	ug/L	100	29.6	1		10/23/20 04:51	7439-89-6	
Manganese, Dissolved	**650**	ug/L	5.0	1.1	1		10/23/20 04:51	7439-96-5	
Total Hardness by 2340B, Dissolved	**203**	mg/L	2.0	0.15	1		10/23/20 04:51		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/29/20 15:47	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 15:47	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/29/20 15:47	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/29/20 15:47	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/29/20 15:47	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/29/20 15:47	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 15:47	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/29/20 15:47	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/29/20 15:47	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/29/20 15:47	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 15:47	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/29/20 15:47	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/29/20 15:47	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/29/20 15:47	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/29/20 15:47	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/29/20 15:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/29/20 15:47	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/29/20 15:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/29/20 15:47	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/29/20 15:47	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 15:47	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/29/20 15:47	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/29/20 15:47	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/29/20 15:47	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 15:47	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 15:47	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 15:47	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 15:47	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/29/20 15:47	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 15:47	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/29/20 15:47	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/29/20 15:47	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/29/20 15:47	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/29/20 15:47	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/29/20 15:47	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/29/20 15:47	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/29/20 15:47	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/29/20 15:47	87-68-3	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-26B **Lab ID: 40216937008** Collected: 10/19/20 17:15 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/29/20 15:47	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/29/20 15:47	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/29/20 15:47	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/29/20 15:47	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/29/20 15:47	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/29/20 15:47	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/29/20 15:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 15:47	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 15:47	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/29/20 15:47	127-18-4	
Tetrahydrofuran	**2.8J**	ug/L	20.0	2.3	1		10/29/20 15:47	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 15:47	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/29/20 15:47	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/29/20 15:47	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/29/20 15:47	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/29/20 15:47	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 15:47	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/29/20 15:47	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/29/20 15:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/29/20 15:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/29/20 15:47	108-67-8	
Vinyl chloride	**0.41J**	ug/L	1.0	0.17	1		10/29/20 15:47	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/29/20 15:47	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 15:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/29/20 15:47	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		10/29/20 15:47	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/29/20 15:47	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.7**	Std. Units			1		10/19/20 17:15		
Field Specific Conductance	**427**	umhos/cm			1		10/19/20 17:15		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 17:15	7782-44-7	
REDOX	**-228**	mV			1		10/19/20 17:15		
Turbidity	**8.7**	NTU			1		10/19/20 17:15		
Temperature, Water (C)	**8.81**	deg C			1		10/19/20 17:15		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**11.9**	mg/L	2.0	0.43	1		11/03/20 19:52	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**201**	mg/L	24.8	7.4	1		11/02/20 15:10		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: TRIP BLANK **Lab ID: 40216937009** Collected: 10/19/20 00:00 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/28/20 11:56	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/28/20 11:56	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/28/20 11:56	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/28/20 11:56	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/28/20 11:56	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/28/20 11:56	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/28/20 11:56	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/28/20 11:56	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/28/20 11:56	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/28/20 11:56	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/28/20 11:56	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/28/20 11:56	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/28/20 11:56	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/28/20 11:56	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/28/20 11:56	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/28/20 11:56	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/28/20 11:56	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/28/20 11:56	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/28/20 11:56	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/28/20 11:56	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/28/20 11:56	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/28/20 11:56	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/28/20 11:56	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/28/20 11:56	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/28/20 11:56	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/28/20 11:56	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/28/20 11:56	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/28/20 11:56	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/28/20 11:56	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/28/20 11:56	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/28/20 11:56	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/28/20 11:56	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/28/20 11:56	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/28/20 11:56	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/28/20 11:56	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/28/20 11:56	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/28/20 11:56	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/28/20 11:56	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/28/20 11:56	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/28/20 11:56	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/28/20 11:56	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/28/20 11:56	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/28/20 11:56	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/28/20 11:56	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/28/20 11:56	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: TRIP BLANK **Lab ID: 40216937009** Collected: 10/19/20 00:00 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/28/20 11:56	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/28/20 11:56	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/28/20 11:56	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/28/20 11:56	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/28/20 11:56	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/28/20 11:56	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/28/20 11:56	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/28/20 11:56	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/28/20 11:56	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/28/20 11:56	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/28/20 11:56	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/28/20 11:56	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/28/20 11:56	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/28/20 11:56	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/28/20 11:56	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/28/20 11:56	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/28/20 11:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/28/20 11:56	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		10/28/20 11:56	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/28/20 11:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-20B **Lab ID: 40216937010** Collected: 10/20/20 08:25 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**16200**	ug/L	100	29.6	1		10/23/20 04:17	7439-89-6	
Manganese, Dissolved	**1020**	ug/L	5.0	1.1	1		10/23/20 04:17	7439-96-5	
Total Hardness by 2340B, Dissolved	**150**	mg/L	2.0	0.15	1		10/23/20 04:17		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.51J**	ug/L	1.0	0.25	1		10/29/20 12:33	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 12:33	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/29/20 12:33	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/29/20 12:33	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/29/20 12:33	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/29/20 12:33	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 12:33	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/29/20 12:33	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/29/20 12:33	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/29/20 12:33	56-23-5	
Chlorobenzene	**0.92J**	ug/L	2.4	0.71	1		10/29/20 12:33	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/29/20 12:33	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/29/20 12:33	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/29/20 12:33	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/29/20 12:33	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/29/20 12:33	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/29/20 12:33	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/29/20 12:33	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/29/20 12:33	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/29/20 12:33	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 12:33	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/29/20 12:33	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/29/20 12:33	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/29/20 12:33	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 12:33	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 12:33	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 12:33	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 12:33	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/29/20 12:33	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 12:33	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/29/20 12:33	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/29/20 12:33	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/29/20 12:33	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/29/20 12:33	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/29/20 12:33	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/29/20 12:33	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/29/20 12:33	100-41-4	M1
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/29/20 12:33	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-20B **Lab ID: 40216937010** Collected: 10/20/20 08:25 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/29/20 12:33	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/29/20 12:33	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/29/20 12:33	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/29/20 12:33	1634-04-4	
Naphthalene	**3.6J**	ug/L	5.0	1.2	1		10/29/20 12:33	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/29/20 12:33	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/29/20 12:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 12:33	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 12:33	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/29/20 12:33	127-18-4	M1
Tetrahydrofuran	**3.6J**	ug/L	20.0	2.3	1		10/29/20 12:33	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 12:33	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/29/20 12:33	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/29/20 12:33	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/29/20 12:33	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/29/20 12:33	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 12:33	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/29/20 12:33	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/29/20 12:33	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/29/20 12:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/29/20 12:33	108-67-8	
Vinyl chloride	**0.21J**	ug/L	1.0	0.17	1		10/29/20 12:33	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/29/20 12:33	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 12:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/29/20 12:33	460-00-4	
Dibromofluoromethane (S)	88	%	70-130		1		10/29/20 12:33	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/29/20 12:33	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.96**	Std. Units			1		10/20/20 08:25		
Field Specific Conductance	**467**	umhos/cm			1		10/20/20 08:25		
Oxygen, Dissolved	**0**	mg/L			1		10/20/20 08:25	7782-44-7	
REDOX	**-153**	mV			1		10/20/20 08:25		
Turbidity	**19.1**	NTU			1		10/20/20 08:25		
Temperature, Water (C)	**7.98**	deg C			1		10/20/20 08:25		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**42.7**	mg/L	10.0	2.2	5		11/03/20 20:36	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**139**	mg/L	24.8	7.4	1		11/02/20 15:33		M0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-20C **Lab ID: 40216937011** Collected: 10/20/20 08:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**21900**	ug/L	100	29.6	1		10/23/20 04:53	7439-89-6	
Manganese, Dissolved	**1390**	ug/L	5.0	1.1	1		10/23/20 04:53	7439-96-5	
Total Hardness by 2340B, Dissolved	**191**	mg/L	2.0	0.15	1		10/23/20 04:53		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.77J**	ug/L	1.0	0.25	1		10/29/20 16:08	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 16:08	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/29/20 16:08	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/29/20 16:08	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/29/20 16:08	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/29/20 16:08	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 16:08	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/29/20 16:08	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/29/20 16:08	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/29/20 16:08	56-23-5	
Chlorobenzene	**0.79J**	ug/L	2.4	0.71	1		10/29/20 16:08	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/29/20 16:08	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/29/20 16:08	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/29/20 16:08	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/29/20 16:08	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/29/20 16:08	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/29/20 16:08	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/29/20 16:08	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/29/20 16:08	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/29/20 16:08	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/29/20 16:08	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/29/20 16:08	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/29/20 16:08	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/29/20 16:08	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 16:08	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 16:08	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/29/20 16:08	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 16:08	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/29/20 16:08	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 16:08	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/29/20 16:08	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/29/20 16:08	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/29/20 16:08	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/29/20 16:08	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/29/20 16:08	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/29/20 16:08	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/29/20 16:08	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/29/20 16:08	87-68-3	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-20C **Lab ID: 40216937011** Collected: 10/20/20 08:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/29/20 16:08	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/29/20 16:08	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/29/20 16:08	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/29/20 16:08	1634-04-4	
Naphthalene	**4.6J**	ug/L	5.0	1.2	1		10/29/20 16:08	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/29/20 16:08	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/29/20 16:08	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/29/20 16:08	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/29/20 16:08	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/29/20 16:08	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		10/29/20 16:08	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/29/20 16:08	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/29/20 16:08	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/29/20 16:08	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/29/20 16:08	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/29/20 16:08	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 16:08	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/29/20 16:08	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/29/20 16:08	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/29/20 16:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/29/20 16:08	108-67-8	
Vinyl chloride	**0.41J**	ug/L	1.0	0.17	1		10/29/20 16:08	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/29/20 16:08	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/29/20 16:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/29/20 16:08	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		10/29/20 16:08	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/29/20 16:08	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7**	Std. Units			1		10/20/20 08:30		
Field Specific Conductance	**637**	umhos/cm			1		10/20/20 08:30		
Oxygen, Dissolved	**0**	mg/L			1		10/20/20 08:30	7782-44-7	
REDOX	**-169**	mV			1		10/20/20 08:30		
Turbidity	**23.7**	NTU			1		10/20/20 08:30		
Temperature, Water (C)	**7.37**	deg C			1		10/20/20 08:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**47.4**	mg/L	10.0	2.2	5		11/03/20 21:21	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**204**	mg/L	24.8	7.4	1		11/02/20 15:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-20C DUP **Lab ID: 40216937012** Collected: 10/20/20 08:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**21900**	ug/L	100	29.6	1		10/23/20 04:56	7439-89-6	
Manganese, Dissolved	**1400**	ug/L	5.0	1.1	1		10/23/20 04:56	7439-96-5	
Total Hardness by 2340B, Dissolved	**194**	mg/L	2.0	0.15	1		10/23/20 04:56		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.84J**	ug/L	1.0	0.25	1		11/02/20 13:51	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 13:51	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/02/20 13:51	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/02/20 13:51	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/02/20 13:51	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/02/20 13:51	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 13:51	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/02/20 13:51	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/02/20 13:51	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		11/02/20 13:51	56-23-5	
Chlorobenzene	**0.77J**	ug/L	2.4	0.71	1		11/02/20 13:51	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/02/20 13:51	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/02/20 13:51	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/02/20 13:51	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/02/20 13:51	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/02/20 13:51	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/02/20 13:51	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/02/20 13:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/02/20 13:51	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/02/20 13:51	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 13:51	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/02/20 13:51	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/02/20 13:51	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/02/20 13:51	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 13:51	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 13:51	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 13:51	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 13:51	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		11/02/20 13:51	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 13:51	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/02/20 13:51	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/02/20 13:51	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/02/20 13:51	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/02/20 13:51	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/02/20 13:51	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/02/20 13:51	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		11/02/20 13:51	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		11/02/20 13:51	87-68-3	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-20C DUP **Lab ID: 40216937012** Collected: 10/20/20 08:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		11/02/20 13:51	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/02/20 13:51	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/02/20 13:51	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/02/20 13:51	1634-04-4	
Naphthalene	**4.2J**	ug/L	5.0	1.2	1		11/02/20 13:51	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/02/20 13:51	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		11/02/20 13:51	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 13:51	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 13:51	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/02/20 13:51	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/02/20 13:51	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 13:51	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		11/02/20 13:51	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/02/20 13:51	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/02/20 13:51	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/02/20 13:51	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 13:51	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/02/20 13:51	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/02/20 13:51	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/02/20 13:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/02/20 13:51	108-67-8	
Vinyl chloride	**0.41J**	ug/L	1.0	0.17	1		11/02/20 13:51	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/02/20 13:51	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 13:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/02/20 13:51	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/02/20 13:51	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		11/02/20 13:51	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7**	Std. Units			1		10/20/20 08:30		
Field Specific Conductance	**637**	umhos/cm			1		10/20/20 08:30		
Oxygen, Dissolved	**0**	mg/L			1		10/20/20 08:30	7782-44-7	
REDOX	**-169**	mV			1		10/20/20 08:30		
Turbidity	**23.7**	NTU			1		10/20/20 08:30		
Temperature, Water (C)	**7.37**	deg C			1		10/20/20 08:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**47.1**	mg/L	10.0	2.2	5		11/03/20 22:20	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**209**	mg/L	24.8	7.4	1		11/02/20 15:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-20A **Lab ID: 40216937013** Collected: 10/20/20 08:50 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Boron, Dissolved	**732**	ug/L	40.0	9.7	1		10/23/20 04:58	7440-42-8	
Iron, Dissolved	**101000**	ug/L	100	29.6	1		10/23/20 04:58	7439-89-6	
Manganese, Dissolved	**959**	ug/L	5.0	1.1	1		10/23/20 04:58	7439-96-5	
Total Hardness by 2340B, Dissolved	**255**	mg/L	2.0	0.15	1		10/23/20 04:58		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**1.9**	ug/L	1.0	0.25	1		11/02/20 14:36	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 14:36	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/02/20 14:36	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/02/20 14:36	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/02/20 14:36	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/02/20 14:36	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 14:36	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/02/20 14:36	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/02/20 14:36	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		11/02/20 14:36	56-23-5	
Chlorobenzene	**7.5**	ug/L	2.4	0.71	1		11/02/20 14:36	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/02/20 14:36	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/02/20 14:36	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/02/20 14:36	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/02/20 14:36	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/02/20 14:36	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/02/20 14:36	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/02/20 14:36	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/02/20 14:36	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/02/20 14:36	74-95-3	
1,2-Dichlorobenzene	**0.92J**	ug/L	2.4	0.71	1		11/02/20 14:36	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/02/20 14:36	541-73-1	
1,4-Dichlorobenzene	**2.1J**	ug/L	3.1	0.94	1		11/02/20 14:36	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/02/20 14:36	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 14:36	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 14:36	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 14:36	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 14:36	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		11/02/20 14:36	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 14:36	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/02/20 14:36	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/02/20 14:36	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/02/20 14:36	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/02/20 14:36	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/02/20 14:36	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/02/20 14:36	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		11/02/20 14:36	100-41-4	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-20A **Lab ID: 40216937013** Collected: 10/20/20 08:50 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		11/02/20 14:36	87-68-3	
Isopropylbenzene (Cumene)	**4.0J**	ug/L	5.6	1.7	1		11/02/20 14:36	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/02/20 14:36	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/02/20 14:36	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/02/20 14:36	1634-04-4	
Naphthalene	**18.0**	ug/L	5.0	1.2	1		11/02/20 14:36	91-20-3	
n-Propylbenzene	**2.9J**	ug/L	5.0	0.81	1		11/02/20 14:36	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		11/02/20 14:36	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 14:36	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 14:36	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/02/20 14:36	127-18-4	
Tetrahydrofuran	**7.0J**	ug/L	20.0	2.3	1		11/02/20 14:36	109-99-9	
Toluene	**0.32J**	ug/L	1.0	0.27	1		11/02/20 14:36	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		11/02/20 14:36	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/02/20 14:36	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/02/20 14:36	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/02/20 14:36	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 14:36	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/02/20 14:36	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/02/20 14:36	96-18-4	
1,2,4-Trimethylbenzene	**25.3**	ug/L	2.8	0.84	1		11/02/20 14:36	95-63-6	
1,3,5-Trimethylbenzene	**4.5**	ug/L	2.9	0.87	1		11/02/20 14:36	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/02/20 14:36	75-01-4	
m&p-Xylene	**55.6**	ug/L	2.0	0.47	1		11/02/20 14:36	179601-23-1	
o-Xylene	**1.2**	ug/L	1.0	0.26	1		11/02/20 14:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/02/20 14:36	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/02/20 14:36	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/02/20 14:36	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.31**	Std. Units			1		10/20/20 08:50		
Field Specific Conductance	**1280**	umhos/cm			1		10/20/20 08:50		
Oxygen, Dissolved	**0**	mg/L			1		10/20/20 08:50	7782-44-7	
REDOX	**-126**	mV			1		10/20/20 08:50		
Turbidity	**51.1**	NTU			1		10/20/20 08:50		
Temperature, Water (C)	**9.88**	deg C			1		10/20/20 08:50		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**11.9**	mg/L	10.0	2.2	5		11/03/20 22:35	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-20A **Lab ID: 40216937013** Collected: 10/20/20 08:50 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**479**	mg/L	24.8	7.4	1		11/02/20 15:39		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-28A **Lab ID: 40216937014** Collected: 10/20/20 10:05 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Boron, Dissolved	**102**	ug/L	40.0	9.7	1		10/23/20 05:00	7440-42-8	
Iron, Dissolved	**11400**	ug/L	100	29.6	1		10/23/20 05:00	7439-89-6	
Manganese, Dissolved	**3600**	ug/L	5.0	1.1	1		10/23/20 05:00	7439-96-5	
Total Hardness by 2340B, Dissolved	**197**	mg/L	2.0	0.15	1		10/23/20 05:00		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.45J**	ug/L	1.0	0.25	1		11/02/20 15:13	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 15:13	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/02/20 15:13	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/02/20 15:13	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/02/20 15:13	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/02/20 15:13	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 15:13	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/02/20 15:13	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/02/20 15:13	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		11/02/20 15:13	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 15:13	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/02/20 15:13	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/02/20 15:13	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/02/20 15:13	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/02/20 15:13	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/02/20 15:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/02/20 15:13	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/02/20 15:13	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/02/20 15:13	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/02/20 15:13	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 15:13	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/02/20 15:13	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/02/20 15:13	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/02/20 15:13	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 15:13	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 15:13	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 15:13	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 15:13	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		11/02/20 15:13	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 15:13	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/02/20 15:13	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/02/20 15:13	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/02/20 15:13	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/02/20 15:13	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/02/20 15:13	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/02/20 15:13	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		11/02/20 15:13	100-41-4	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-28A **Lab ID: 40216937014** Collected: 10/20/20 10:05 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		11/02/20 15:13	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		11/02/20 15:13	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/02/20 15:13	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/02/20 15:13	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/02/20 15:13	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/02/20 15:13	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/02/20 15:13	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		11/02/20 15:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 15:13	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 15:13	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/02/20 15:13	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/02/20 15:13	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 15:13	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		11/02/20 15:13	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/02/20 15:13	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/02/20 15:13	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/02/20 15:13	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 15:13	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/02/20 15:13	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/02/20 15:13	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/02/20 15:13	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/02/20 15:13	108-67-8	
Vinyl chloride	**0.51J**	ug/L	1.0	0.17	1		11/02/20 15:13	75-01-4	
m&p-Xylene	**0.80J**	ug/L	2.0	0.47	1		11/02/20 15:13	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 15:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/02/20 15:13	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/02/20 15:13	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		11/02/20 15:13	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.52**	Std. Units			1		10/20/20 10:05		
Field Specific Conductance	**604**	umhos/cm			1		10/20/20 10:05		
Oxygen, Dissolved	**0**	mg/L			1		10/20/20 10:05	7782-44-7	
REDOX	**-82**	mV			1		10/20/20 10:05		
Turbidity	**5.4**	NTU			1		10/20/20 10:05		
Temperature, Water (C)	**6.78**	deg C			1		10/20/20 10:05		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**34.6**	mg/L	10.0	2.2	5		11/03/20 22:50	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-28A **Lab ID: 40216937014** Collected: 10/20/20 10:05 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**227**	mg/L	24.8	7.4	1		11/02/20 15:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: FIELD BLANK **Lab ID: 40216937015** Collected: 10/20/20 09:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Boron, Dissolved	**<9.7**	ug/L	40.0	9.7	1		10/23/20 05:03	7440-42-8	
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		10/23/20 05:03	7439-89-6	
Manganese, Dissolved	**<1.1**	ug/L	5.0	1.1	1		10/23/20 05:03	7439-96-5	
Total Hardness by 2340B, Dissolved	**0.31J**	mg/L	2.0	0.15	1		10/23/20 05:03		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/02/20 17:00	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 17:00	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/02/20 17:00	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/02/20 17:00	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/02/20 17:00	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/02/20 17:00	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 17:00	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/02/20 17:00	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/02/20 17:00	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		11/02/20 17:00	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 17:00	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/02/20 17:00	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/02/20 17:00	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/02/20 17:00	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/02/20 17:00	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/02/20 17:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/02/20 17:00	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/02/20 17:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/02/20 17:00	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/02/20 17:00	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 17:00	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/02/20 17:00	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/02/20 17:00	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/02/20 17:00	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:00	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 17:00	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 17:00	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:00	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		11/02/20 17:00	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 17:00	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/02/20 17:00	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/02/20 17:00	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/02/20 17:00	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/02/20 17:00	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/02/20 17:00	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/02/20 17:00	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		11/02/20 17:00	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: FIELD BLANK **Lab ID: 40216937015** Collected: 10/20/20 09:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		11/02/20 17:00	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		11/02/20 17:00	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/02/20 17:00	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/02/20 17:00	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/02/20 17:00	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/02/20 17:00	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/02/20 17:00	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		11/02/20 17:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:00	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 17:00	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/02/20 17:00	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/02/20 17:00	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:00	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		11/02/20 17:00	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/02/20 17:00	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/02/20 17:00	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/02/20 17:00	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 17:00	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/02/20 17:00	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/02/20 17:00	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/02/20 17:00	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/02/20 17:00	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/02/20 17:00	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/02/20 17:00	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 17:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/02/20 17:00	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/02/20 17:00	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/02/20 17:00	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**<0.43**	mg/L	2.0	0.43	1		11/03/20 23:05	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**<7.4**	mg/L	24.8	7.4	1		11/02/20 15:44		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-27B **Lab ID: 40216937016** Collected: 10/20/20 10:10 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**130**	ug/L	100	29.6	1		10/23/20 05:05	7439-89-6	
Manganese, Dissolved	**221**	ug/L	5.0	1.1	1		10/23/20 05:05	7439-96-5	
Total Hardness by 2340B, Dissolved	**96.6**	mg/L	2.0	0.15	1		10/23/20 05:05		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/02/20 17:23	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 17:23	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/02/20 17:23	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/02/20 17:23	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/02/20 17:23	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/02/20 17:23	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 17:23	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/02/20 17:23	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/02/20 17:23	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		11/02/20 17:23	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 17:23	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/02/20 17:23	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/02/20 17:23	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/02/20 17:23	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/02/20 17:23	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/02/20 17:23	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/02/20 17:23	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/02/20 17:23	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/02/20 17:23	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/02/20 17:23	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 17:23	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/02/20 17:23	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/02/20 17:23	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/02/20 17:23	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:23	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 17:23	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 17:23	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:23	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		11/02/20 17:23	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 17:23	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/02/20 17:23	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/02/20 17:23	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/02/20 17:23	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/02/20 17:23	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/02/20 17:23	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/02/20 17:23	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		11/02/20 17:23	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		11/02/20 17:23	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-27B **Lab ID: 40216937016** Collected: 10/20/20 10:10 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		11/02/20 17:23	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/02/20 17:23	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/02/20 17:23	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/02/20 17:23	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/02/20 17:23	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/02/20 17:23	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		11/02/20 17:23	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:23	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 17:23	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/02/20 17:23	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/02/20 17:23	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:23	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		11/02/20 17:23	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/02/20 17:23	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/02/20 17:23	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/02/20 17:23	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 17:23	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/02/20 17:23	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/02/20 17:23	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/02/20 17:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/02/20 17:23	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/02/20 17:23	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/02/20 17:23	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 17:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/02/20 17:23	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/02/20 17:23	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/02/20 17:23	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.51**	Std. Units			1		10/20/20 10:10		
Field Specific Conductance	**226**	umhos/cm			1		10/20/20 10:10		
Oxygen, Dissolved	**0**	mg/L			1		10/20/20 10:10	7782-44-7	
REDOX	**-217**	mV			1		10/20/20 10:10		
Turbidity	**9.9**	NTU			1		10/20/20 10:10		
Temperature, Water (C)	**8.14**	deg C			1		10/20/20 10:10		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**5.9**	mg/L	2.0	0.43	1		11/03/20 23:20	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**86.8**	mg/L	24.8	7.4	1		11/02/20 15:45		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-4A **Lab ID: 40216937017** Collected: 10/20/20 09:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Boron, Dissolved	**13.8J**	ug/L	40.0	9.7	1		10/23/20 05:08	7440-42-8	
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		10/23/20 05:08	7439-89-6	
Manganese, Dissolved	**1.6J**	ug/L	5.0	1.1	1		10/23/20 05:08	7439-96-5	
Total Hardness by 2340B, Dissolved	**118**	mg/L	2.0	0.15	1		10/23/20 05:08		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/02/20 17:45	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 17:45	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/02/20 17:45	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/02/20 17:45	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/02/20 17:45	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/02/20 17:45	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 17:45	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/02/20 17:45	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/02/20 17:45	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		11/02/20 17:45	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 17:45	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/02/20 17:45	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/02/20 17:45	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/02/20 17:45	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/02/20 17:45	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/02/20 17:45	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/02/20 17:45	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/02/20 17:45	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/02/20 17:45	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/02/20 17:45	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 17:45	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/02/20 17:45	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/02/20 17:45	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/02/20 17:45	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:45	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 17:45	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 17:45	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:45	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		11/02/20 17:45	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 17:45	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/02/20 17:45	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/02/20 17:45	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/02/20 17:45	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/02/20 17:45	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/02/20 17:45	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/02/20 17:45	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		11/02/20 17:45	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-4A **Lab ID: 40216937017** Collected: 10/20/20 09:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		11/02/20 17:45	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		11/02/20 17:45	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/02/20 17:45	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/02/20 17:45	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/02/20 17:45	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/02/20 17:45	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/02/20 17:45	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		11/02/20 17:45	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:45	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 17:45	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/02/20 17:45	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/02/20 17:45	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 17:45	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		11/02/20 17:45	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/02/20 17:45	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/02/20 17:45	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/02/20 17:45	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 17:45	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/02/20 17:45	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/02/20 17:45	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/02/20 17:45	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/02/20 17:45	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/02/20 17:45	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/02/20 17:45	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 17:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/02/20 17:45	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/02/20 17:45	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/02/20 17:45	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.69**	Std. Units			1		10/20/20 09:30		
Field Specific Conductance	**286**	umhos/cm			1		10/20/20 09:30		
Oxygen, Dissolved	**0**	mg/L			1		10/20/20 09:30	7782-44-7	
REDOX	**77**	mV			1		10/20/20 09:30		
Turbidity	**9.8**	NTU			1		10/20/20 09:30		
Temperature, Water (C)	**8.12**	deg C			1		10/20/20 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**23.4**	mg/L	2.0	0.43	1		11/03/20 23:34	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-4A **Lab ID: 40216937017** Collected: 10/20/20 09:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**96.2**	mg/L	24.8	7.4	1		11/02/20 15:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-5A **Lab ID: 40216937018** Collected: 10/20/20 09:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Boron, Dissolved	**11.1J**	ug/L	40.0	9.7	1		10/23/20 05:15	7440-42-8	
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		10/23/20 05:15	7439-89-6	
Manganese, Dissolved	**1910**	ug/L	5.0	1.1	1		10/23/20 05:15	7439-96-5	
Total Hardness by 2340B, Dissolved	**186**	mg/L	2.0	0.15	1		10/23/20 05:15		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/02/20 18:08	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 18:08	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/02/20 18:08	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/02/20 18:08	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/02/20 18:08	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/02/20 18:08	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 18:08	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/02/20 18:08	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/02/20 18:08	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		11/02/20 18:08	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 18:08	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/02/20 18:08	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/02/20 18:08	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/02/20 18:08	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/02/20 18:08	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/02/20 18:08	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/02/20 18:08	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/02/20 18:08	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/02/20 18:08	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/02/20 18:08	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 18:08	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/02/20 18:08	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/02/20 18:08	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/02/20 18:08	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 18:08	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 18:08	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 18:08	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 18:08	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		11/02/20 18:08	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 18:08	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/02/20 18:08	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/02/20 18:08	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/02/20 18:08	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/02/20 18:08	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/02/20 18:08	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/02/20 18:08	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		11/02/20 18:08	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-5A **Lab ID: 40216937018** Collected: 10/20/20 09:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		11/02/20 18:08	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		11/02/20 18:08	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/02/20 18:08	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/02/20 18:08	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/02/20 18:08	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/02/20 18:08	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/02/20 18:08	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		11/02/20 18:08	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 18:08	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 18:08	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/02/20 18:08	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/02/20 18:08	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 18:08	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		11/02/20 18:08	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/02/20 18:08	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/02/20 18:08	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/02/20 18:08	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 18:08	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/02/20 18:08	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/02/20 18:08	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/02/20 18:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/02/20 18:08	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/02/20 18:08	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/02/20 18:08	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 18:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/02/20 18:08	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/02/20 18:08	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		11/02/20 18:08	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**5.8**	Std. Units			1		10/20/20 09:30		
Field Specific Conductance	**1590**	umhos/cm			1		10/20/20 09:30		
Oxygen, Dissolved	**0.58**	mg/L			1		10/20/20 09:30	7782-44-7	
REDOX	**114**	mV			1		10/20/20 09:30		
Turbidity	**19.9**	NTU			1		10/20/20 09:30		
Temperature, Water (C)	**9.83**	deg C			1		10/20/20 09:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**440**	mg/L	200	43.1	100		11/03/20 23:49	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-5A **Lab ID: 40216937018** Collected: 10/20/20 09:30 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**81.5**	mg/L	24.8	7.4	1		11/02/20 15:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-25B **Lab ID: 40216937019** Collected: 10/20/20 11:00 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Boron, Dissolved	**10.2J**	ug/L	40.0	9.7	1		10/23/20 05:18	7440-42-8	
Iron, Dissolved	**<29.6**	ug/L	100	29.6	1		10/23/20 05:18	7439-89-6	
Manganese, Dissolved	**122**	ug/L	5.0	1.1	1		10/23/20 05:18	7439-96-5	
Total Hardness by 2340B, Dissolved	**216**	mg/L	2.0	0.15	1		10/23/20 05:18		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/02/20 18:30	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 18:30	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/02/20 18:30	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/02/20 18:30	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/02/20 18:30	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/02/20 18:30	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 18:30	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/02/20 18:30	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/02/20 18:30	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		11/02/20 18:30	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 18:30	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/02/20 18:30	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/02/20 18:30	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/02/20 18:30	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/02/20 18:30	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/02/20 18:30	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/02/20 18:30	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/02/20 18:30	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/02/20 18:30	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/02/20 18:30	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/02/20 18:30	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/02/20 18:30	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/02/20 18:30	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/02/20 18:30	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 18:30	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 18:30	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/02/20 18:30	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 18:30	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		11/02/20 18:30	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 18:30	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/02/20 18:30	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/02/20 18:30	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/02/20 18:30	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/02/20 18:30	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/02/20 18:30	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/02/20 18:30	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		11/02/20 18:30	100-41-4	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-25B **Lab ID: 40216937019** Collected: 10/20/20 11:00 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		11/02/20 18:30	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		11/02/20 18:30	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/02/20 18:30	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/02/20 18:30	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/02/20 18:30	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/02/20 18:30	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/02/20 18:30	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		11/02/20 18:30	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/02/20 18:30	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/02/20 18:30	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/02/20 18:30	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		11/02/20 18:30	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		11/02/20 18:30	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		11/02/20 18:30	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/02/20 18:30	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/02/20 18:30	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/02/20 18:30	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 18:30	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/02/20 18:30	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/02/20 18:30	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/02/20 18:30	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/02/20 18:30	108-67-8	
Vinyl chloride	**1.7**	ug/L	1.0	0.17	1		11/02/20 18:30	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/02/20 18:30	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/02/20 18:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/02/20 18:30	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/02/20 18:30	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/02/20 18:30	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.91**	Std. Units			1		10/20/20 11:00		
Field Specific Conductance	**478**	umhos/cm			1		10/20/20 11:00		
Oxygen, Dissolved	**0**	mg/L			1		10/20/20 11:00	7782-44-7	
REDOX	**-88**	mV			1		10/20/20 11:00		
Turbidity	**85.8**	NTU			1		10/20/20 11:00		
Temperature, Water (C)	**7.87**	deg C			1		10/20/20 11:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**18.0**	mg/L	2.0	0.43	1		11/04/20 00:04	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-25B **Lab ID: 40216937019** Collected: 10/20/20 11:00 Received: 10/21/20 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**221**	mg/L	24.8	7.4	1		11/02/20 15:48		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-28B **Lab ID: 40216937020** Collected: 10/20/20 00:00 Received: 10/26/20 16:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.56**	Std. Units			1		10/20/20 00:00		
Field Specific Conductance	**196**	umhos/cm			1		10/20/20 00:00		
Oxygen, Dissolved	**3.82**	mg/L			1		10/20/20 00:00	7782-44-7	
REDOX	**-134**	mV			1		10/20/20 00:00		
Turbidity	**7.8**	NTU			1		10/20/20 00:00		
Temperature, Water (C)	**10.1**	deg C			1		10/20/20 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-19B **Lab ID: 40216937021** Collected: 10/20/20 00:00 Received: 10/26/20 16:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**6.93**	Std. Units			1		10/20/20 00:00		
Field Specific Conductance	**829**	umhos/cm			1		10/20/20 00:00		
Oxygen, Dissolved	**1.42**	mg/L			1		10/20/20 00:00	7782-44-7	
REDOX	**-124**	mV			1		10/20/20 00:00		
Turbidity	**22.7**	NTU			1		10/20/20 00:00		
Temperature, Water (C)	**3.23**	deg C			1		10/20/20 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Sample: MW-19C **Lab ID: 40216937022** Collected: 10/20/20 00:00 Received: 10/26/20 16:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.06**	Std. Units			1		10/20/20 00:00		
Field Specific Conductance	**712**	umhos/cm			1		10/20/20 00:00		
Oxygen, Dissolved	**2.52**	mg/L			1		10/20/20 00:00	7782-44-7	
REDOX	**-133**	mV			1		10/20/20 00:00		
Turbidity	**26**	NTU			1		10/20/20 00:00		
Temperature, Water (C)	**7.37**	deg C			1		10/20/20 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

QC Batch: 369176
QC Batch Method: EPA 6010
Analysis Method: EPA 6010
Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216937001, 40216937002, 40216937003, 40216937004, 40216937005, 40216937006, 40216937007, 40216937008, 40216937010, 40216937011, 40216937012, 40216937013, 40216937014, 40216937015, 40216937016, 40216937017, 40216937018, 40216937019

METHOD BLANK: 2134116 Matrix: Water
Associated Lab Samples: 40216937001, 40216937002, 40216937003, 40216937004, 40216937005, 40216937006, 40216937007, 40216937008, 40216937010, 40216937011, 40216937012, 40216937013, 40216937014, 40216937015, 40216937016, 40216937017, 40216937018, 40216937019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<9.7	40.0	10/23/20 04:07	
Iron, Dissolved	ug/L	<29.6	100	10/23/20 04:07	
Manganese, Dissolved	ug/L	<1.1	5.0	10/23/20 04:07	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	2.0	10/23/20 04:07	

LABORATORY CONTROL SAMPLE: 2134117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	500	476	95	80-120	
Iron, Dissolved	ug/L	5000	4770	95	80-120	
Manganese, Dissolved	ug/L	500	474	95	80-120	
Total Hardness by 2340B, Dissolved	mg/L		31.3			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2134119 2134120

Parameter	Units	40216937010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	102	500	500	614	607	102	101	75-125	1	20	
Iron, Dissolved	ug/L	16200	5000	5000	20800	20600	90	88	75-125	1	20	
Manganese, Dissolved	ug/L	1020	500	500	1480	1470	91	89	75-125	1	20	
Total Hardness by 2340B, Dissolved	mg/L	150			178	178				0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

QC Batch: 369012
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216937001, 40216937002, 40216937003, 40216937004, 40216937005, 40216937006, 40216937007, 40216937008, 40216937010, 40216937011

METHOD BLANK: 2133284
Matrix: Water
Associated Lab Samples: 40216937001, 40216937002, 40216937003, 40216937004, 40216937005, 40216937006, 40216937007, 40216937008, 40216937010, 40216937011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/29/20 06:50	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/29/20 06:50	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/29/20 06:50	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/29/20 06:50	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/29/20 06:50	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/29/20 06:50	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/29/20 06:50	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	10/29/20 06:50	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/29/20 06:50	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/29/20 06:50	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/29/20 06:50	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/29/20 06:50	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/29/20 06:50	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/29/20 06:50	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/29/20 06:50	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/29/20 06:50	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/29/20 06:50	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/29/20 06:50	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/29/20 06:50	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/29/20 06:50	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/29/20 06:50	
2-Chlorotoluene	ug/L	<0.93	5.0	10/29/20 06:50	
4-Chlorotoluene	ug/L	<0.76	2.5	10/29/20 06:50	
Benzene	ug/L	<0.25	1.0	10/29/20 06:50	
Bromobenzene	ug/L	<0.24	1.0	10/29/20 06:50	
Bromochloromethane	ug/L	<0.36	5.0	10/29/20 06:50	
Bromodichloromethane	ug/L	<0.36	1.2	10/29/20 06:50	
Bromoform	ug/L	<4.0	13.2	10/29/20 06:50	
Bromomethane	ug/L	<0.97	5.0	10/29/20 06:50	
Carbon tetrachloride	ug/L	<1.1	3.6	10/29/20 06:50	
Chlorobenzene	ug/L	<0.71	2.4	10/29/20 06:50	
Chloroethane	ug/L	<1.3	5.0	10/29/20 06:50	
Chloroform	ug/L	<1.3	5.0	10/29/20 06:50	
Chloromethane	ug/L	<2.2	7.3	10/29/20 06:50	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/29/20 06:50	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/29/20 06:50	
Dibromochloromethane	ug/L	<2.6	8.7	10/29/20 06:50	
Dibromomethane	ug/L	<0.94	3.1	10/29/20 06:50	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/29/20 06:50	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

METHOD BLANK: 2133284 Matrix: Water

Associated Lab Samples: 40216937001, 40216937002, 40216937003, 40216937004, 40216937005, 40216937006, 40216937007, 40216937008, 40216937010, 40216937011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.9	6.3	10/29/20 06:50	
Ethylbenzene	ug/L	<0.32	1.1	10/29/20 06:50	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	10/29/20 06:50	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	10/29/20 06:50	
m&p-Xylene	ug/L	<0.47	2.0	10/29/20 06:50	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/29/20 06:50	
Methylene Chloride	ug/L	<0.58	5.0	10/29/20 06:50	
n-Butylbenzene	ug/L	<0.71	2.4	10/29/20 06:50	
n-Propylbenzene	ug/L	<0.81	5.0	10/29/20 06:50	
Naphthalene	ug/L	<1.2	5.0	10/29/20 06:50	
o-Xylene	ug/L	<0.26	1.0	10/29/20 06:50	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/29/20 06:50	
sec-Butylbenzene	ug/L	<0.85	5.0	10/29/20 06:50	
Styrene	ug/L	<3.0	10.0	10/29/20 06:50	
tert-Butylbenzene	ug/L	<0.30	1.0	10/29/20 06:50	
Tetrachloroethene	ug/L	<0.33	1.1	10/29/20 06:50	
Tetrahydrofuran	ug/L	<2.3	20.0	10/29/20 06:50	
Toluene	ug/L	<0.27	1.0	10/29/20 06:50	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	10/29/20 06:50	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/29/20 06:50	
Trichloroethene	ug/L	<0.26	1.0	10/29/20 06:50	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/29/20 06:50	
Vinyl chloride	ug/L	<0.17	1.0	10/29/20 06:50	
4-Bromofluorobenzene (S)	%	95	70-130	10/29/20 06:50	
Dibromofluoromethane (S)	%	85	70-130	10/29/20 06:50	
Toluene-d8 (S)	%	105	70-130	10/29/20 06:50	

LABORATORY CONTROL SAMPLE: 2133285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.8	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	64-131	
1,1,2-Trichloroethane	ug/L	50	53.7	107	70-130	
1,1-Dichloroethane	ug/L	50	41.1	82	69-163	
1,1-Dichloroethene	ug/L	50	40.6	81	77-123	
1,2,4-Trichlorobenzene	ug/L	50	56.3	113	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.2	94	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.6	111	70-130	
1,2-Dichlorobenzene	ug/L	50	56.0	112	70-130	
1,2-Dichloroethane	ug/L	50	43.8	88	78-142	
1,2-Dichloropropane	ug/L	50	45.9	92	86-134	
1,3-Dichlorobenzene	ug/L	50	56.5	113	70-130	
1,4-Dichlorobenzene	ug/L	50	54.8	110	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

LABORATORY CONTROL SAMPLE: 2133285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	44.0	88	70-130	
Bromodichloromethane	ug/L	50	49.5	99	70-130	
Bromoform	ug/L	50	57.8	116	70-130	
Bromomethane	ug/L	50	32.3	65	39-129	
Carbon tetrachloride	ug/L	50	44.2	88	70-132	
Chlorobenzene	ug/L	50	57.1	114	70-130	
Chloroethane	ug/L	50	40.4	81	66-140	
Chloroform	ug/L	50	44.4	89	75-132	
Chloromethane	ug/L	50	31.5	63	32-143	
cis-1,2-Dichloroethene	ug/L	50	41.9	84	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.1	98	70-130	
Dibromochloromethane	ug/L	50	59.4	119	70-130	
Dichlorodifluoromethane	ug/L	50	33.8	68	10-141	
Ethylbenzene	ug/L	50	58.0	116	80-120	
Isopropylbenzene (Cumene)	ug/L	50	58.8	118	70-130	
m&p-Xylene	ug/L	100	114	114	70-130	
Methyl-tert-butyl ether	ug/L	50	38.4	77	61-129	
Methylene Chloride	ug/L	50	39.9	80	70-130	
o-Xylene	ug/L	50	56.3	113	70-130	
Styrene	ug/L	50	57.3	115	70-130	
Tetrachloroethene	ug/L	50	63.8	128	70-130	
Toluene	ug/L	50	57.2	114	80-120	
trans-1,2-Dichloroethene	ug/L	50	40.3	81	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.9	106	69-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
Trichlorofluoromethane	ug/L	50	43.1	86	75-145	
Vinyl chloride	ug/L	50	37.5	75	51-140	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			86	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2133286 2133287

Parameter	Units	40216937010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	45.5	46.3	91	93	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	55.3	57.2	111	114	64-137	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	56.1	56.4	112	113	70-137	1	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	41.8	43.2	84	86	69-163	3	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	39.1	39.8	78	80	77-129	2	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	57.7	57.3	115	115	68-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	48.2	52.0	96	104	60-130	8	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	57.1	58.7	114	117	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	58.3	58.4	116	116	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2133286 2133287

Parameter	Units	40216937010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	<0.28	50	50	45.6	45.3	91	91	78-145	1	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	47.7	48.9	95	98	86-135	2	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	57.6	57.6	115	115	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	56.5	56.6	113	113	70-130	0	20	
Benzene	ug/L	0.51J	50	50	45.7	46.6	90	92	70-136	2	20	
Bromodichloromethane	ug/L	<0.36	50	50	51.8	52.6	104	105	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	58.8	61.0	118	122	69-130	4	20	
Bromomethane	ug/L	<0.97	50	50	29.6	28.6	59	57	39-138	3	20	
Carbon tetrachloride	ug/L	<1.1	50	50	44.6	45.1	89	90	70-142	1	20	
Chlorobenzene	ug/L	0.92J	50	50	60.0	60.1	118	118	70-130	0	20	
Chloroethane	ug/L	<1.3	50	50	39.6	38.8	79	78	61-149	2	20	
Chloroform	ug/L	<1.3	50	50	45.9	45.8	92	92	75-133	0	20	
Chloromethane	ug/L	<2.2	50	50	28.3	27.7	57	55	32-143	2	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	42.6	43.4	85	87	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	50.4	51.8	101	104	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	61.7	63.1	123	126	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	27.4	28.6	55	57	10-141	4	20	
Ethylbenzene	ug/L	<0.32	50	50	59.1	60.9	118	122	80-120	3	20	M1
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	60.2	61.1	120	122	70-130	1	20	
m&p-Xylene	ug/L	<0.47	100	100	117	118	117	118	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	39.5	40.9	79	82	61-136	3	20	
Methylene Chloride	ug/L	<0.58	50	50	40.9	42.5	82	85	68-137	4	20	
o-Xylene	ug/L	<0.26	50	50	58.2	59.5	116	119	70-130	2	20	
Styrene	ug/L	<3.0	50	50	58.7	59.2	117	118	70-130	1	20	
Tetrachloroethene	ug/L	<0.33	50	50	65.0	66.0	130	132	70-130	2	20	M1
Toluene	ug/L	<0.27	50	50	58.0	59.1	116	118	80-120	2	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	40.5	42.7	81	85	70-130	5	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	54.1	55.4	108	111	69-130	2	20	
Trichloroethene	ug/L	<0.26	50	50	54.7	55.7	109	111	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	41.9	38.1	84	76	74-157	9	20	
Vinyl chloride	ug/L	0.21J	50	50	33.8	34.2	67	68	51-140	1	20	
4-Bromofluorobenzene (S)	%						95	97	70-130			
Dibromofluoromethane (S)	%						87	88	70-130			
Toluene-d8 (S)	%						104	105	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

QC Batch: 369014
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40216937009

METHOD BLANK: 2133290 Matrix: Water
Associated Lab Samples: 40216937009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/27/20 18:07	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/27/20 18:07	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/27/20 18:07	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/27/20 18:07	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/27/20 18:07	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/27/20 18:07	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/27/20 18:07	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	10/27/20 18:07	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/27/20 18:07	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/27/20 18:07	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/27/20 18:07	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/27/20 18:07	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/27/20 18:07	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/27/20 18:07	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/27/20 18:07	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/27/20 18:07	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/27/20 18:07	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/27/20 18:07	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/27/20 18:07	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/27/20 18:07	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/27/20 18:07	
2-Chlorotoluene	ug/L	<0.93	5.0	10/27/20 18:07	
4-Chlorotoluene	ug/L	<0.76	2.5	10/27/20 18:07	
Benzene	ug/L	<0.25	1.0	10/27/20 18:07	
Bromobenzene	ug/L	<0.24	1.0	10/27/20 18:07	
Bromochloromethane	ug/L	<0.36	5.0	10/27/20 18:07	
Bromodichloromethane	ug/L	<0.36	1.2	10/27/20 18:07	
Bromoform	ug/L	<4.0	13.2	10/27/20 18:07	
Bromomethane	ug/L	<0.97	5.0	10/27/20 18:07	
Carbon tetrachloride	ug/L	<1.1	3.6	10/27/20 18:07	
Chlorobenzene	ug/L	<0.71	2.4	10/27/20 18:07	
Chloroethane	ug/L	<1.3	5.0	10/27/20 18:07	
Chloroform	ug/L	<1.3	5.0	10/27/20 18:07	
Chloromethane	ug/L	<2.2	7.3	10/27/20 18:07	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/27/20 18:07	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/27/20 18:07	
Dibromochloromethane	ug/L	<2.6	8.7	10/27/20 18:07	
Dibromomethane	ug/L	<0.94	3.1	10/27/20 18:07	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/27/20 18:07	
Diisopropyl ether	ug/L	<1.9	6.3	10/27/20 18:07	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

METHOD BLANK: 2133290 Matrix: Water
Associated Lab Samples: 40216937009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	10/27/20 18:07	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	10/27/20 18:07	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	10/27/20 18:07	
m&p-Xylene	ug/L	<0.47	2.0	10/27/20 18:07	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/27/20 18:07	
Methylene Chloride	ug/L	<0.58	5.0	10/27/20 18:07	
n-Butylbenzene	ug/L	<0.71	2.4	10/27/20 18:07	
n-Propylbenzene	ug/L	<0.81	5.0	10/27/20 18:07	
Naphthalene	ug/L	<1.2	5.0	10/27/20 18:07	
o-Xylene	ug/L	<0.26	1.0	10/27/20 18:07	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/27/20 18:07	
sec-Butylbenzene	ug/L	<0.85	5.0	10/27/20 18:07	
Styrene	ug/L	<3.0	10.0	10/27/20 18:07	
tert-Butylbenzene	ug/L	<0.30	1.0	10/27/20 18:07	
Tetrachloroethene	ug/L	<0.33	1.1	10/27/20 18:07	
Tetrahydrofuran	ug/L	<2.3	20.0	10/27/20 18:07	
Toluene	ug/L	<0.27	1.0	10/27/20 18:07	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	10/27/20 18:07	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/27/20 18:07	
Trichloroethene	ug/L	<0.26	1.0	10/27/20 18:07	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/27/20 18:07	
Vinyl chloride	ug/L	<0.17	1.0	10/27/20 18:07	
4-Bromofluorobenzene (S)	%	97	70-130	10/27/20 18:07	
Dibromofluoromethane (S)	%	103	70-130	10/27/20 18:07	
Toluene-d8 (S)	%	100	70-130	10/27/20 18:07	

LABORATORY CONTROL SAMPLE: 2133291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.3	97	64-131	
1,1,2-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1-Dichloroethane	ug/L	50	48.0	96	69-163	
1,1-Dichloroethene	ug/L	50	45.1	90	77-123	
1,2,4-Trichlorobenzene	ug/L	50	43.5	87	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.3	91	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	70-130	
1,2-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dichloroethane	ug/L	50	51.5	103	78-142	
1,2-Dichloropropane	ug/L	50	48.9	98	86-134	
1,3-Dichlorobenzene	ug/L	50	48.0	96	70-130	
1,4-Dichlorobenzene	ug/L	50	47.8	96	70-130	
Benzene	ug/L	50	46.9	94	70-130	
Bromodichloromethane	ug/L	50	52.9	106	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

LABORATORY CONTROL SAMPLE: 2133291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	53.3	107	70-130	
Bromomethane	ug/L	50	28.0	56	39-129	
Carbon tetrachloride	ug/L	50	55.0	110	70-132	
Chlorobenzene	ug/L	50	50.2	100	70-130	
Chloroethane	ug/L	50	37.5	75	66-140	
Chloroform	ug/L	50	50.4	101	75-132	
Chloromethane	ug/L	50	25.5	51	32-143	
cis-1,2-Dichloroethene	ug/L	50	45.9	92	70-130	
cis-1,3-Dichloropropene	ug/L	50	42.2	84	70-130	
Dibromochloromethane	ug/L	50	52.8	106	70-130	
Dichlorodifluoromethane	ug/L	50	25.7	51	10-141	
Ethylbenzene	ug/L	50	51.6	103	80-120	
Isopropylbenzene (Cumene)	ug/L	50	53.2	106	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	44.6	89	61-129	
Methylene Chloride	ug/L	50	45.6	91	70-130	
o-Xylene	ug/L	50	51.9	104	70-130	
Styrene	ug/L	50	52.4	105	70-130	
Tetrachloroethene	ug/L	50	50.3	101	70-130	
Toluene	ug/L	50	48.6	97	80-120	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	41.1	82	69-130	
Trichloroethene	ug/L	50	52.8	106	70-130	
Trichlorofluoromethane	ug/L	50	48.2	96	75-145	
Vinyl chloride	ug/L	50	32.3	65	51-140	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2135758 2135759

Parameter	Units	40216815009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	53.6	53.4	107	107	70-130	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	50.4	50.4	101	101	64-137	0	20	
1,1,2-Trichloroethane	ug/L	<5.0	50	50	51.7	51.2	103	102	70-137	1	20	
1,1-Dichloroethane	ug/L	<1.0	50	50	49.1	48.4	98	97	69-163	1	20	
1,1-Dichloroethene	ug/L	<1.0	50	50	45.7	46.2	91	92	77-129	1	20	
1,2,4-Trichlorobenzene	ug/L	<5.0	50	50	47.3	47.3	95	95	68-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<5.9	50	50	48.7	47.7	97	95	60-130	2	20	
1,2-Dibromoethane (EDB)	ug/L	<2.8	50	50	52.1	51.7	104	103	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<2.4	50	50	50.2	50.5	100	101	70-130	1	20	
1,2-Dichloroethane	ug/L	<1.0	50	50	52.7	52.5	105	105	78-145	0	20	
1,2-Dichloropropane	ug/L	<1.0	50	50	49.4	49.1	99	98	86-135	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2135758 2135759

Parameter	Units	40216815009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/L	<2.1	50	50	49.7	50.1	99	100	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<3.1	50	50	50.4	50.5	101	101	70-130	0	20	
Benzene	ug/L	<1.0	50	50	47.7	47.9	95	96	70-136	0	20	
Bromodichloromethane	ug/L	<1.2	50	50	54.1	54.7	108	109	70-130	1	20	
Bromoform	ug/L	<13.2	50	50	56.2	55.5	112	111	69-130	1	20	
Bromomethane	ug/L	<5.0	50	50	38.4	37.7	77	75	39-138	2	20	
Carbon tetrachloride	ug/L	<3.6	50	50	57.0	56.9	114	114	70-142	0	20	
Chlorobenzene	ug/L	<2.4	50	50	51.5	51.7	103	103	70-130	0	20	
Chloroethane	ug/L	<5.0	50	50	38.1	37.7	76	75	61-149	1	20	
Chloroform	ug/L	<5.0	50	50	51.1	51.1	102	102	75-133	0	20	
Chloromethane	ug/L	<7.3	50	50	25.0	25.2	50	50	32-143	1	20	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	47.1	47.3	94	95	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	<12.1	50	50	46.2	46.7	92	93	70-130	1	20	
Dibromochloromethane	ug/L	<8.7	50	50	55.1	55.4	110	111	70-130	1	20	
Dichlorodifluoromethane	ug/L	<5.0	50	50	22.9	22.9	46	46	10-141	0	20	
Ethylbenzene	ug/L	<1.1	50	50	53.0	53.3	106	107	80-120	0	20	
Isopropylbenzene (Cumene)	ug/L	<5.6	50	50	54.7	55.0	109	110	70-130	1	20	
m&p-Xylene	ug/L	<2.0	100	100	106	106	106	106	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<4.2	50	50	47.2	46.6	94	93	61-136	1	20	
Methylene Chloride	ug/L	<5.0	50	50	46.7	46.3	93	93	68-137	1	20	
o-Xylene	ug/L	<1.0	50	50	53.1	52.9	106	106	70-130	0	20	
Styrene	ug/L	<10.0	50	50	53.7	53.6	107	107	70-130	0	20	
Tetrachloroethene	ug/L	<1.1	50	50	52.8	53.8	106	108	70-130	2	20	
Toluene	ug/L	<1.0	50	50	50.4	51.0	101	102	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	<1.5	50	50	49.3	49.9	99	100	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	<14.6	50	50	46.3	46.4	93	93	69-130	0	20	
Trichloroethene	ug/L	<1.0	50	50	53.6	54.0	107	108	70-130	1	20	
Trichlorofluoromethane	ug/L	<1.0	50	50	48.6	49.1	97	98	74-157	1	20	
Vinyl chloride	ug/L	<1.0	50	50	32.5	32.3	65	65	51-140	1	20	
4-Bromofluorobenzene (S)	%						104	104	70-130			
Dibromofluoromethane (S)	%						102	102	70-130			
Toluene-d8 (S)	%						101	100	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

QC Batch: 369889
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216937012, 40216937013, 40216937014, 40216937015, 40216937016, 40216937017, 40216937018, 40216937019

METHOD BLANK: 2138062
Matrix: Water
Associated Lab Samples: 40216937012, 40216937013, 40216937014, 40216937015, 40216937016, 40216937017, 40216937018, 40216937019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/02/20 06:59	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/02/20 06:59	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/02/20 06:59	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/02/20 06:59	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/02/20 06:59	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/02/20 06:59	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/02/20 06:59	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	11/02/20 06:59	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/02/20 06:59	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/02/20 06:59	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/02/20 06:59	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/02/20 06:59	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/02/20 06:59	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/02/20 06:59	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/02/20 06:59	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/02/20 06:59	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/02/20 06:59	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/02/20 06:59	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/02/20 06:59	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/02/20 06:59	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/02/20 06:59	
2-Chlorotoluene	ug/L	<0.93	5.0	11/02/20 06:59	
4-Chlorotoluene	ug/L	<0.76	2.5	11/02/20 06:59	
Benzene	ug/L	<0.25	1.0	11/02/20 06:59	
Bromobenzene	ug/L	<0.24	1.0	11/02/20 06:59	
Bromochloromethane	ug/L	<0.36	5.0	11/02/20 06:59	
Bromodichloromethane	ug/L	<0.36	1.2	11/02/20 06:59	
Bromoform	ug/L	<4.0	13.2	11/02/20 06:59	
Bromomethane	ug/L	<0.97	5.0	11/02/20 06:59	
Carbon tetrachloride	ug/L	<1.1	3.6	11/02/20 06:59	
Chlorobenzene	ug/L	<0.71	2.4	11/02/20 06:59	
Chloroethane	ug/L	<1.3	5.0	11/02/20 06:59	
Chloroform	ug/L	<1.3	5.0	11/02/20 06:59	
Chloromethane	ug/L	<2.2	7.3	11/02/20 06:59	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/02/20 06:59	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/02/20 06:59	
Dibromochloromethane	ug/L	<2.6	8.7	11/02/20 06:59	
Dibromomethane	ug/L	<0.94	3.1	11/02/20 06:59	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/02/20 06:59	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

METHOD BLANK: 2138062 Matrix: Water
Associated Lab Samples: 40216937012, 40216937013, 40216937014, 40216937015, 40216937016, 40216937017, 40216937018, 40216937019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.9	6.3	11/02/20 06:59	
Ethylbenzene	ug/L	<0.32	1.1	11/02/20 06:59	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	11/02/20 06:59	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	11/02/20 06:59	
m&p-Xylene	ug/L	<0.47	2.0	11/02/20 06:59	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/02/20 06:59	
Methylene Chloride	ug/L	<0.58	5.0	11/02/20 06:59	
n-Butylbenzene	ug/L	<0.71	2.4	11/02/20 06:59	
n-Propylbenzene	ug/L	<0.81	5.0	11/02/20 06:59	
Naphthalene	ug/L	<1.2	5.0	11/02/20 06:59	
o-Xylene	ug/L	<0.26	1.0	11/02/20 06:59	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/02/20 06:59	
sec-Butylbenzene	ug/L	<0.85	5.0	11/02/20 06:59	
Styrene	ug/L	<3.0	10.0	11/02/20 06:59	
tert-Butylbenzene	ug/L	<0.30	1.0	11/02/20 06:59	
Tetrachloroethene	ug/L	<0.33	1.1	11/02/20 06:59	
Tetrahydrofuran	ug/L	<2.3	20.0	11/02/20 06:59	
Toluene	ug/L	<0.27	1.0	11/02/20 06:59	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	11/02/20 06:59	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/02/20 06:59	
Trichloroethene	ug/L	<0.26	1.0	11/02/20 06:59	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/02/20 06:59	
Vinyl chloride	ug/L	<0.17	1.0	11/02/20 06:59	
4-Bromofluorobenzene (S)	%	99	70-130	11/02/20 06:59	
Dibromofluoromethane (S)	%	98	70-130	11/02/20 06:59	
Toluene-d8 (S)	%	103	70-130	11/02/20 06:59	

LABORATORY CONTROL SAMPLE: 2138063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	64-131	
1,1,2-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1-Dichloroethane	ug/L	50	42.6	85	69-163	
1,1-Dichloroethene	ug/L	50	45.5	91	77-123	
1,2,4-Trichlorobenzene	ug/L	50	45.7	91	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.1	84	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	70-130	
1,2-Dichlorobenzene	ug/L	50	47.6	95	70-130	
1,2-Dichloroethane	ug/L	50	48.3	97	78-142	
1,2-Dichloropropane	ug/L	50	45.2	90	86-134	
1,3-Dichlorobenzene	ug/L	50	47.1	94	70-130	
1,4-Dichlorobenzene	ug/L	50	48.3	97	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

LABORATORY CONTROL SAMPLE: 2138063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	46.0	92	70-130	
Bromodichloromethane	ug/L	50	52.9	106	70-130	
Bromoform	ug/L	50	54.4	109	70-130	
Bromomethane	ug/L	50	26.3	53	39-129	
Carbon tetrachloride	ug/L	50	54.1	108	70-132	
Chlorobenzene	ug/L	50	49.6	99	70-130	
Chloroethane	ug/L	50	32.8	66	66-140	
Chloroform	ug/L	50	49.0	98	75-132	
Chloromethane	ug/L	50	17.5	35	32-143	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.1	88	70-130	
Dibromochloromethane	ug/L	50	53.3	107	70-130	
Dichlorodifluoromethane	ug/L	50	18.9	38	10-141	
Ethylbenzene	ug/L	50	52.8	106	80-120	
Isopropylbenzene (Cumene)	ug/L	50	52.4	105	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	42.7	85	61-129	
Methylene Chloride	ug/L	50	44.8	90	70-130	
o-Xylene	ug/L	50	51.0	102	70-130	
Styrene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	52.0	104	70-130	
Toluene	ug/L	50	50.3	101	80-120	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	70-130	
trans-1,3-Dichloropropene	ug/L	50	42.2	84	69-130	
Trichloroethene	ug/L	50	55.0	110	70-130	
Trichlorofluoromethane	ug/L	50	46.4	93	75-145	
Vinyl chloride	ug/L	50	27.7	55	51-140	
4-Bromofluorobenzene (S)	%			108	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2138157 2138158

Parameter	Units	40216937012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	49.4	54.1	99	108	70-130	9	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	44.2	47.5	88	95	64-137	7	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	46.4	51.0	93	102	70-137	9	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	41.4	44.9	83	90	69-163	8	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	44.2	48.2	88	96	77-129	9	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	44.9	49.8	89	99	68-130	10	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	38.7	44.0	77	88	60-130	13	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	45.8	50.5	92	101	70-130	10	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	46.0	50.6	92	101	70-130	9	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2138157 2138158

Parameter	Units	40216937012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	<0.28	50	50	45.6	49.5	91	99	78-145	8	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	43.5	46.4	87	93	86-135	7	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	46.0	50.4	92	101	70-130	9	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	46.7	51.1	93	102	70-130	9	20	
Benzene	ug/L	0.84J	50	50	44.6	48.6	87	95	70-136	9	20	
Bromodichloromethane	ug/L	<0.36	50	50	50.7	55.0	101	110	70-130	8	20	
Bromoform	ug/L	<4.0	50	50	50.9	55.9	102	112	69-130	9	20	
Bromomethane	ug/L	<0.97	50	50	29.8	35.2	60	70	39-138	17	20	
Carbon tetrachloride	ug/L	<1.1	50	50	52.0	56.7	104	113	70-142	9	20	
Chlorobenzene	ug/L	0.77J	50	50	48.2	52.7	95	104	70-130	9	20	
Chloroethane	ug/L	<1.3	50	50	32.8	35.5	66	71	61-149	8	20	
Chloroform	ug/L	<1.3	50	50	46.9	51.0	94	102	75-133	8	20	
Chloromethane	ug/L	<2.2	50	50	17.1	19.0	34	38	32-143	11	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	45.3	48.9	91	98	70-130	8	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	42.3	45.8	85	92	70-130	8	20	
Dibromochloromethane	ug/L	<2.6	50	50	49.8	54.6	100	109	70-130	9	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	18.3	19.8	37	40	10-141	8	20	
Ethylbenzene	ug/L	<0.32	50	50	50.1	55.4	100	111	80-120	10	20	
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	49.9	55.2	100	110	70-130	10	20	
m&p-Xylene	ug/L	<0.47	100	100	97.7	108	97	108	70-130	10	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	39.7	43.2	79	86	61-136	8	20	
Methylene Chloride	ug/L	<0.58	50	50	43.3	46.8	87	94	68-137	8	20	
o-Xylene	ug/L	<0.26	50	50	48.7	53.4	97	107	70-130	9	20	
Styrene	ug/L	<3.0	50	50	48.8	53.1	98	106	70-130	8	20	
Tetrachloroethene	ug/L	<0.33	50	50	50.3	55.4	101	111	70-130	10	20	
Toluene	ug/L	<0.27	50	50	47.9	53.3	96	107	80-120	11	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	47.4	51.6	95	103	70-130	9	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	40.6	43.8	81	88	69-130	8	20	
Trichloroethene	ug/L	<0.26	50	50	52.5	57.3	105	115	70-130	9	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	45.1	48.6	90	97	74-157	8	20	
Vinyl chloride	ug/L	0.41J	50	50	27.9	30.4	55	60	51-140	8	20	
4-Bromofluorobenzene (S)	%						107	109	70-130			
Dibromofluoromethane (S)	%						101	100	70-130			
Toluene-d8 (S)	%						101	103	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

QC Batch: 369793
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216937001, 40216937002, 40216937003, 40216937004, 40216937005, 40216937006, 40216937007, 40216937008

METHOD BLANK: 2137484 Matrix: Water
Associated Lab Samples: 40216937001, 40216937002, 40216937003, 40216937004, 40216937005, 40216937006, 40216937007, 40216937008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	11/03/20 09:26	

LABORATORY CONTROL SAMPLE: 2137485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2137486 2137487

Parameter	Units	40216904002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	298	400	400	734	705	109	102	90-110	4	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2137488 2137489

Parameter	Units	40216934009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	32.0	100	100	133	134	101	102	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

QC Batch: 369795
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216937010, 40216937011, 40216937012, 40216937013, 40216937014, 40216937015, 40216937016, 40216937017, 40216937018, 40216937019

METHOD BLANK: 2137494 Matrix: Water
Associated Lab Samples: 40216937010, 40216937011, 40216937012, 40216937013, 40216937014, 40216937015, 40216937016, 40216937017, 40216937018, 40216937019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	11/03/20 20:06	

LABORATORY CONTROL SAMPLE: 2137495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2137496 2137497

Parameter	Units	40216937010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	42.7	100	100	151	150	108	107	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2137498 2137499

Parameter	Units	40216942007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	96.2	100	100	202	201	105	105	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

QC Batch: 370005
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216937001, 40216937002, 40216937003, 40216937004, 40216937005, 40216937006, 40216937007, 40216937008

METHOD BLANK: 2139106 Matrix: Water
Associated Lab Samples: 40216937001, 40216937002, 40216937003, 40216937004, 40216937005, 40216937006, 40216937007, 40216937008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	24.8	11/02/20 14:03	

LABORATORY CONTROL SAMPLE: 2139107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	104	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2139108 2139109

Parameter	Units	40216849001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	244	100	100	306	307	61	62	90-110	0	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2139110 2139111

Parameter	Units	40216937001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	237	100	100	336	338	99	101	90-110	1	20	

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(920)469-2436

QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

QC Batch: 370006
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216937010, 40216937011, 40216937012, 40216937013, 40216937014, 40216937015, 40216937016, 40216937017, 40216937018, 40216937019

METHOD BLANK: 2139112 Matrix: Water
Associated Lab Samples: 40216937010, 40216937011, 40216937012, 40216937013, 40216937014, 40216937015, 40216937016, 40216937017, 40216937018, 40216937019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	24.8	11/02/20 15:22	

LABORATORY CONTROL SAMPLE: 2139113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	108	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2139114 2139115

Parameter	Units	40216934009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	156	100	100	285	293	130	138	90-110	3	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2139116 2139117

Parameter	Units	40216937010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	139	100	100	254	250	115	112	90-110	1	20	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALIFIERS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40216937001	MW-16C	EPA 6010	369176		
40216937002	MW-16B	EPA 6010	369176		
40216937003	MW-16A	EPA 6010	369176		
40216937004	MW-18B	EPA 6010	369176		
40216937005	MW-18C	EPA 6010	369176		
40216937006	MW-18A	EPA 6010	369176		
40216937007	MW-26C	EPA 6010	369176		
40216937008	MW-26B	EPA 6010	369176		
40216937010	MW-20B	EPA 6010	369176		
40216937011	MW-20C	EPA 6010	369176		
40216937012	MW-20C DUP	EPA 6010	369176		
40216937013	MW-20A	EPA 6010	369176		
40216937014	MW-28A	EPA 6010	369176		
40216937015	FIELD BLANK	EPA 6010	369176		
40216937016	MW-27B	EPA 6010	369176		
40216937017	MW-4A	EPA 6010	369176		
40216937018	MW-5A	EPA 6010	369176		
40216937019	MW-25B	EPA 6010	369176		
40216937001	MW-16C	EPA 8260	369012		
40216937002	MW-16B	EPA 8260	369012		
40216937003	MW-16A	EPA 8260	369012		
40216937004	MW-18B	EPA 8260	369012		
40216937005	MW-18C	EPA 8260	369012		
40216937006	MW-18A	EPA 8260	369012		
40216937007	MW-26C	EPA 8260	369012		
40216937008	MW-26B	EPA 8260	369012		
40216937009	TRIP BLANK	EPA 8260	369014		
40216937010	MW-20B	EPA 8260	369012		
40216937011	MW-20C	EPA 8260	369012		
40216937012	MW-20C DUP	EPA 8260	369889		
40216937013	MW-20A	EPA 8260	369889		
40216937014	MW-28A	EPA 8260	369889		
40216937015	FIELD BLANK	EPA 8260	369889		
40216937016	MW-27B	EPA 8260	369889		
40216937017	MW-4A	EPA 8260	369889		
40216937018	MW-5A	EPA 8260	369889		
40216937019	MW-25B	EPA 8260	369889		
40216937001	MW-16C				
40216937002	MW-16B				
40216937003	MW-16A				
40216937004	MW-18B				
40216937005	MW-18C				
40216937006	MW-18A				
40216937007	MW-26C				
40216937008	MW-26B				
40216937010	MW-20B				

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40216937011	**MW-20C**				
40216937012	**MW-20C DUP**				
40216937013	**MW-20A**				
40216937014	**MW-28A**				
40216937016	**MW-27B**				
40216937017	**MW-4A**				
40216937018	**MW-5A**				
40216937019	**MW-25B**				
40216937020	**MW-28B**				
40216937021	**MW-19B**				
40216937022	**MW-19C**				
40216937001	**MW-16C**	EPA 300.0	369793		
40216937002	**MW-16B**	EPA 300.0	369793		
40216937003	**MW-16A**	EPA 300.0	369793		
40216937004	**MW-18B**	EPA 300.0	369793		
40216937005	**MW-18C**	EPA 300.0	369793		
40216937006	**MW-18A**	EPA 300.0	369793		
40216937007	**MW-26C**	EPA 300.0	369793		
40216937008	**MW-26B**	EPA 300.0	369793		
40216937010	**MW-20B**	EPA 300.0	369795		
40216937011	**MW-20C**	EPA 300.0	369795		
40216937012	**MW-20C DUP**	EPA 300.0	369795		
40216937013	**MW-20A**	EPA 300.0	369795		
40216937014	**MW-28A**	EPA 300.0	369795		
40216937015	**FIELD BLANK**	EPA 300.0	369795		
40216937016	**MW-27B**	EPA 300.0	369795		
40216937017	**MW-4A**	EPA 300.0	369795		
40216937018	**MW-5A**	EPA 300.0	369795		
40216937019	**MW-25B**	EPA 300.0	369795		
40216937001	**MW-16C**	EPA 310.2	370005		
40216937002	**MW-16B**	EPA 310.2	370005		
40216937003	**MW-16A**	EPA 310.2	370005		
40216937004	**MW-18B**	EPA 310.2	370005		
40216937005	**MW-18C**	EPA 310.2	370005		
40216937006	**MW-18A**	EPA 310.2	370005		
40216937007	**MW-26C**	EPA 310.2	370005		
40216937008	**MW-26B**	EPA 310.2	370005		
40216937010	**MW-20B**	EPA 310.2	370006		
40216937011	**MW-20C**	EPA 310.2	370006		
40216937012	**MW-20C DUP**	EPA 310.2	370006		
40216937013	**MW-20A**	EPA 310.2	370006		
40216937014	**MW-28A**	EPA 310.2	370006		
40216937015	**FIELD BLANK**	EPA 310.2	370006		
40216937016	**MW-27B**	EPA 310.2	370006		
40216937017	**MW-4A**	EPA 310.2	370006		
40216937018	**MW-5A**	EPA 310.2	370006		
40216937019	**MW-25B**	EPA 310.2	370006		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF
Pace Project No.: 40216937

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch

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

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

(Please Print Clearly)

Company Name:	GHD
Branch/Location:	St. Paul
Project Contact:	Grant Anderson
Phone:	651 639 0913
Project Number:	1115796
Project Name:	Rhinelander LF
Project State:	WI
Sampled By (Print):	Ryan Aamot
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Quote #:	See SSOW
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

FILTERED? (YES/NO) — Y/N: N, N, Y, Y
PRESERVATION (CODE)* — Pick Letter: A, B, D, D

Analyses Requested: Alk: chloride | VOCs + Tetrahydrofuran | Hardness Fe, Mn | Boron

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Alk: chloride	VOCs + Tetrahydrofuran	Hardness Fe, Mn	Boron	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	W-201019-RA-05	10/19/20	1517	GW	X	X	X		Sample times	↓	
002	W-201019-RA-06	↓	1546	↓	X	X	X		no listed on		
003	W-201019-RA-07	↓	1548	↓	X	X	X		bottles		
004	W-201019-RA-08	↓	1614	↓	X	X	X				
005	W-201019-RA-09	↓	1620	↓	X	X	X	X			
006	W-201019-RA-10	↓	1645	↓	X	X	X				
007	W-201019-RA-11	↓	1655	↓	X	X	X				
008	W-201019-RA-12	↓	1715	↓	X	X	X				
009	trip blank					X					

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	10/21/20 1130		
Fed Ex	10/21/20 0920	[signature] Pace	10/21/20 0920

PACE Project No. 40216937
Receipt Temp = ROT °C
Sample Receipt pH: (OK) / Adjusted
Cooler Custody Seal: (Present) / Not Present; (Intact) / Not Intact

C019a(27Jun2006)
Version 6.0 06/14/06
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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

(Please Print Clearly)	
Company Name:	GHD
Branch/Location:	St. Paul
Project Contact:	Grant Anderson
Phone:	651 639 0913
Project Number:	11115796-30
Project Name:	Rhinelander LF
Project State:	WI
Sampled By (Print):	Ryan Aamot
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	See 550L
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Alkalinity	VOCs + tetrahydrofuran	Hardness, Fe, Mn	Boron	Arsenic	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)				Y/N: N	N	Y	Y				
	PRESERVATION (CODE)*				Pick Letter: A	B	D	D				
010	W-201020-RA-13	10/20/20	825	GW	X	X	X	X	RA 10/21/20	MS/MSD		
011	W-201020-RA-14		830		X	X	X	X				
012	W-201020-RA-15		830		X	X	X	X				
013	W-201020-RA-16		850		X	X	X	X				
014	W-201020-RA-17		1005		X	X	X	X				
015	W-201020-RA-18		930		X	X	X	X				
016	W-201020-RA-19		1010		X	X	X					
017	W-201020-RA-20		930		X	X	X	X				
018	W-201020-RA-21		930		X	X	X	X				
019	W-201020-RA-22		1100		X	X	X	X				

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	10/20/20 1130		
Fed Ex	10/21/20 0930	Susan Kilfeather	10/21/20 0930

PACE Project No.: 40216937
Receipt Temp = 1.0T °C
Sample Receipt pH: OK / Adjusted
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

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1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: GHD Project # 40216937

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☐N/A Initial when completed: SW Date/ Time:

Lab Lot# of pH paper: 10D4194 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001										/		/					W													/		2.5 / 5 / 10
002										/		/					W													/		2.5 / 5 / 10
003										/		/					W													/		2.5 / 5 / 10
004										/		/					W													/		2.5 / 5 / 10
005										/		/					W													/		2.5 / 5 / 10
006										/		/					W													/		2.5 / 5 / 10
007										/		/					W													/		2.5 / 5 / 10
008										/		/					W													/		2.5 / 5 / 10
009										/		/					W													/		2.5 / 5 / 10
010										Y3		Y3		10/21/20 SW			W		10/21/20 SW											/		2.5 / 5 / 10
011										/		/					W													/		2.5 / 5 / 10
012										/		/					W													/		2.5 / 5 / 10
013										/		/					W													/		2.5 / 5 / 10
014										/		/					W													/		2.5 / 5 / 10
015										/		/					W													/		2.5 / 5 / 10
016										/		/					W													/		2.5 / 5 / 10
017										/		/					W													/		2.5 / 5 / 10
018										/		/					W													/		2.5 / 5 / 10
019										/		/					W													/		2.5 / 5 / 10
020														10/21/20 SW																		2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GHD

Project #: WO# : 40216937

40216937

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 8160 7354 9251

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: RDI /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 10/21/20 /Initials: SKW

Labeled By Initials: KO

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 449		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 18, 2020

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

RE: Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Pace Analytical Services Green Bay
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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40216816001	**MW-21A**	Water	10/19/20 13:35	10/20/20 09:15
40216816002	**MW-3A**	Water	10/19/20 13:10	10/20/20 09:15
40216816003	**MW-2A**	Water	10/19/20 13:48	10/20/20 09:15
40216816004	**MW-2B**	Water	10/19/20 14:10	10/20/20 09:15

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40216816001	**MW-21A**	EPA 6010	TXW	3
		EPA 8260	SMT	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
40216816002	**MW-3A**	EPA 6010	TXW	4
		EPA 8260	SMT	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
40216816003	**MW-2A**	EPA 6010	TXW	4
		EPA 8260	SMT	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
40216816004	**MW-2B**	EPA 6010	TXW	3
		EPA 8260	SMT	65
			VGC	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1

PASI-G = Pace Analytical Services - Green Bay

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-21A **Lab ID: 40216816001** Collected: 10/19/20 13:35 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**42600**	ug/L	100	29.6	1		10/23/20 03:58	7439-89-6	
Manganese, Dissolved	**1070**	ug/L	5.0	1.1	1		10/23/20 03:58	7439-96-5	
Total Hardness by 2340B, Dissolved	**748**	mg/L	2.0	0.15	1		10/23/20 03:58		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**3.8**	ug/L	1.0	0.25	1		10/21/20 15:46	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/21/20 15:46	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/21/20 15:46	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/21/20 15:46	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/21/20 15:46	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/21/20 15:46	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/21/20 15:46	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/21/20 15:46	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/21/20 15:46	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/21/20 15:46	56-23-5	
Chlorobenzene	**6.0**	ug/L	2.4	0.71	1		10/21/20 15:46	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/21/20 15:46	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/21/20 15:46	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/21/20 15:46	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/21/20 15:46	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/21/20 15:46	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/21/20 15:46	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/21/20 15:46	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/21/20 15:46	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/21/20 15:46	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/21/20 15:46	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/21/20 15:46	541-73-1	
1,4-Dichlorobenzene	**1.8J**	ug/L	3.1	0.94	1		10/21/20 15:46	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/21/20 15:46	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/21/20 15:46	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 15:46	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/21/20 15:46	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/21/20 15:46	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/21/20 15:46	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 15:46	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/21/20 15:46	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/21/20 15:46	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/21/20 15:46	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/21/20 15:46	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/21/20 15:46	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/21/20 15:46	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/21/20 15:46	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/21/20 15:46	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-21A **Lab ID: 40216816001** Collected: 10/19/20 13:35 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/21/20 15:46	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/21/20 15:46	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/21/20 15:46	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/21/20 15:46	1634-04-4	
Naphthalene	**8.7**	ug/L	5.0	1.2	1		10/21/20 15:46	91-20-3	
n-Propylbenzene	**0.95J**	ug/L	5.0	0.81	1		10/21/20 15:46	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/21/20 15:46	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/21/20 15:46	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 15:46	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/21/20 15:46	127-18-4	
Tetrahydrofuran	**194**	ug/L	20.0	2.3	1		10/21/20 15:46	109-99-9	
Toluene	**0.42J**	ug/L	1.0	0.27	1		10/21/20 15:46	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/21/20 15:46	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/21/20 15:46	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/21/20 15:46	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/21/20 15:46	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/21/20 15:46	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/21/20 15:46	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/21/20 15:46	96-18-4	
1,2,4-Trimethylbenzene	**3.8**	ug/L	2.8	0.84	1		10/21/20 15:46	95-63-6	
1,3,5-Trimethylbenzene	**1.9J**	ug/L	2.9	0.87	1		10/21/20 15:46	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/21/20 15:46	75-01-4	
m&p-Xylene	**7.6**	ug/L	2.0	0.47	1		10/21/20 15:46	179601-23-1	
o-Xylene	**2.0**	ug/L	1.0	0.26	1		10/21/20 15:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/21/20 15:46	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		10/21/20 15:46	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/21/20 15:46	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.43**	Std. Units			1		10/19/20 13:35		
Field Specific Conductance	**324**	umhos/cm			1		10/19/20 13:35		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 13:35	7782-44-7	
REDOX	**-92**	mV			1		10/19/20 13:35		
Turbidity	**138**	NTU			1		10/19/20 13:35		
Temperature, Water (C)	**10.27**	deg C			1		10/19/20 13:35		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**40.1**	mg/L	10.0	2.2	5		10/31/20 15:52	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**1700**	mg/L	248	74.4	10		10/27/20 14:44		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-21A **Lab ID: 40216816001** Collected: 10/19/20 13:35 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1 Preparation Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**201**	mg/L	10.0	2.9	20	11/16/20 15:00	11/16/20 15:10	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**186**	mg/L	20.0	4.2	1	11/10/20 13:55	11/10/20 19:52	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-3A **Lab ID: 40216816002** Collected: 10/19/20 13:10 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Boron, Dissolved	**41.1**	ug/L	40.0	9.7	1		10/23/20 04:00	7440-42-8	
Iron, Dissolved	**47800**	ug/L	100	29.6	1		10/23/20 04:00	7439-89-6	
Manganese, Dissolved	**4050**	ug/L	5.0	1.1	1		10/23/20 04:00	7439-96-5	
Total Hardness by 2340B, Dissolved	**323**	mg/L	2.0	0.15	1		10/23/20 04:00		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**1.3**	ug/L	1.0	0.25	1		10/21/20 15:27	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/21/20 15:27	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/21/20 15:27	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/21/20 15:27	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/21/20 15:27	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/21/20 15:27	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/21/20 15:27	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/21/20 15:27	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/21/20 15:27	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/21/20 15:27	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/21/20 15:27	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/21/20 15:27	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/21/20 15:27	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/21/20 15:27	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/21/20 15:27	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/21/20 15:27	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/21/20 15:27	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/21/20 15:27	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/21/20 15:27	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/21/20 15:27	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/21/20 15:27	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/21/20 15:27	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/21/20 15:27	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/21/20 15:27	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/21/20 15:27	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 15:27	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/21/20 15:27	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/21/20 15:27	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/21/20 15:27	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 15:27	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/21/20 15:27	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/21/20 15:27	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/21/20 15:27	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/21/20 15:27	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/21/20 15:27	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/21/20 15:27	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/21/20 15:27	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-3A **Lab ID: 40216816002** Collected: 10/19/20 13:10 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/21/20 15:27	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/21/20 15:27	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/21/20 15:27	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/21/20 15:27	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/21/20 15:27	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/21/20 15:27	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/21/20 15:27	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/21/20 15:27	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/21/20 15:27	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 15:27	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/21/20 15:27	127-18-4	
Tetrahydrofuran	**72.7**	ug/L	20.0	2.3	1		10/21/20 15:27	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/21/20 15:27	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/21/20 15:27	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/21/20 15:27	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/21/20 15:27	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/21/20 15:27	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/21/20 15:27	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/21/20 15:27	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/21/20 15:27	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/21/20 15:27	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/21/20 15:27	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/21/20 15:27	75-01-4	
m&p-Xylene	**0.88J**	ug/L	2.0	0.47	1		10/21/20 15:27	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/21/20 15:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/21/20 15:27	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/21/20 15:27	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/21/20 15:27	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.21**	Std. Units			1		10/19/20 13:10		
Field Specific Conductance	**1440**	umhos/cm			1		10/19/20 13:10		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 13:10	7782-44-7	
REDOX	**-128**	mV			1		10/19/20 13:10		
Turbidity	**244**	NTU			1		10/19/20 13:10		
Temperature, Water (C)	**8.66**	deg C			1		10/19/20 13:10		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**28.2**	mg/L	10.0	2.2	5		10/31/20 16:07	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-3A **Lab ID: 40216816002** Collected: 10/19/20 13:10 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**627**	mg/L	124	37.2	5		10/27/20 14:45		
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1 Preparation Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**67.0**	mg/L	5.0	1.4	10	11/16/20 15:00	11/16/20 18:01	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**63.0**	mg/L	4.0	0.85	1	11/10/20 13:55	11/10/20 19:55	7727-37-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-2A **Lab ID: 40216816003** Collected: 10/19/20 13:48 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Boron, Dissolved	**1180**	ug/L	40.0	9.7	1		10/23/20 04:03	7440-42-8	
Iron, Dissolved	**34100**	ug/L	100	29.6	1		10/23/20 04:03	7439-89-6	
Manganese, Dissolved	**1150**	ug/L	5.0	1.1	1		10/23/20 04:03	7439-96-5	
Total Hardness by 2340B, Dissolved	**793**	mg/L	2.0	0.15	1		10/23/20 04:03		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**15.4**	ug/L	1.0	0.25	1		10/21/20 16:06	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/21/20 16:06	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/21/20 16:06	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/21/20 16:06	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/21/20 16:06	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/21/20 16:06	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/21/20 16:06	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/21/20 16:06	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/21/20 16:06	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/21/20 16:06	56-23-5	
Chlorobenzene	**0.75J**	ug/L	2.4	0.71	1		10/21/20 16:06	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/21/20 16:06	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/21/20 16:06	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/21/20 16:06	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/21/20 16:06	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/21/20 16:06	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/21/20 16:06	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/21/20 16:06	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/21/20 16:06	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/21/20 16:06	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/21/20 16:06	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/21/20 16:06	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/21/20 16:06	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/21/20 16:06	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/21/20 16:06	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 16:06	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/21/20 16:06	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/21/20 16:06	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/21/20 16:06	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 16:06	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/21/20 16:06	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/21/20 16:06	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/21/20 16:06	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/21/20 16:06	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/21/20 16:06	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/21/20 16:06	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/21/20 16:06	100-41-4	

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ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-2A **Lab ID: 40216816003** Collected: 10/19/20 13:48 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/21/20 16:06	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/21/20 16:06	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/21/20 16:06	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/21/20 16:06	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/21/20 16:06	1634-04-4	
Naphthalene	**4.7J**	ug/L	5.0	1.2	1		10/21/20 16:06	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/21/20 16:06	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/21/20 16:06	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/21/20 16:06	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 16:06	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/21/20 16:06	127-18-4	
Tetrahydrofuran	**118**	ug/L	20.0	2.3	1		10/21/20 16:06	109-99-9	
Toluene	**0.30J**	ug/L	1.0	0.27	1		10/21/20 16:06	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/21/20 16:06	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/21/20 16:06	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/21/20 16:06	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/21/20 16:06	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/21/20 16:06	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/21/20 16:06	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/21/20 16:06	96-18-4	
1,2,4-Trimethylbenzene	**2.0J**	ug/L	2.8	0.84	1		10/21/20 16:06	95-63-6	
1,3,5-Trimethylbenzene	**1.4J**	ug/L	2.9	0.87	1		10/21/20 16:06	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/21/20 16:06	75-01-4	
m&p-Xylene	**2.6**	ug/L	2.0	0.47	1		10/21/20 16:06	179601-23-1	
o-Xylene	**0.51J**	ug/L	1.0	0.26	1		10/21/20 16:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/21/20 16:06	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		10/21/20 16:06	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/21/20 16:06	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.4**	Std. Units			1		10/19/20 13:48		
Field Specific Conductance	**316**	umhos/cm			1		10/19/20 13:48		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 13:48	7782-44-7	
REDOX	**-100**	mV			1		10/19/20 13:48		
Turbidity	**18.6**	NTU			1		10/19/20 13:48		
Temperature, Water (C)	**9.46**	deg C			1		10/19/20 13:48		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**57.8**	mg/L	10.0	2.2	5		10/31/20 16:22	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-2A **Lab ID: 40216816003** Collected: 10/19/20 13:48 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**1830**	mg/L	248	74.4	10		10/27/20 14:46		
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1 Preparation Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**259**	mg/L	10.0	2.9	20	11/16/20 15:00	11/16/20 15:13	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**216**	mg/L	20.0	4.2	1	11/10/20 13:55	11/10/20 19:55	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-2B **Lab ID: 40216816004** Collected: 10/19/20 14:10 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Iron, Dissolved	**23100**	ug/L	100	29.6	1		10/23/20 04:05	7439-89-6	
Manganese, Dissolved	**1280**	ug/L	5.0	1.1	1		10/23/20 04:05	7439-96-5	
Total Hardness by 2340B, Dissolved	**194**	mg/L	2.0	0.15	1		10/23/20 04:05		
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**0.73J**	ug/L	1.0	0.25	1		10/21/20 16:25	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/21/20 16:25	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/21/20 16:25	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/21/20 16:25	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/21/20 16:25	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/21/20 16:25	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/21/20 16:25	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/21/20 16:25	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/21/20 16:25	98-06-6	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		10/21/20 16:25	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/21/20 16:25	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/21/20 16:25	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/21/20 16:25	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/21/20 16:25	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/21/20 16:25	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/21/20 16:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/21/20 16:25	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/21/20 16:25	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/21/20 16:25	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/21/20 16:25	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/21/20 16:25	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/21/20 16:25	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/21/20 16:25	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/21/20 16:25	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/21/20 16:25	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 16:25	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/21/20 16:25	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/21/20 16:25	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		10/21/20 16:25	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 16:25	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/21/20 16:25	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/21/20 16:25	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/21/20 16:25	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/21/20 16:25	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/21/20 16:25	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/21/20 16:25	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		10/21/20 16:25	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		10/21/20 16:25	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Sample: MW-2B **Lab ID: 40216816004** Collected: 10/19/20 14:10 Received: 10/20/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		10/21/20 16:25	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/21/20 16:25	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/21/20 16:25	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/21/20 16:25	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/21/20 16:25	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/21/20 16:25	103-65-1	
Styrene	**<3.0**	ug/L	10.0	3.0	1		10/21/20 16:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/21/20 16:25	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/21/20 16:25	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/21/20 16:25	127-18-4	
Tetrahydrofuran	**13.2J**	ug/L	20.0	2.3	1		10/21/20 16:25	109-99-9	
Toluene	**<0.27**	ug/L	1.0	0.27	1		10/21/20 16:25	108-88-3	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		10/21/20 16:25	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/21/20 16:25	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/21/20 16:25	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/21/20 16:25	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/21/20 16:25	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/21/20 16:25	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/21/20 16:25	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/21/20 16:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/21/20 16:25	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/21/20 16:25	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/21/20 16:25	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/21/20 16:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/21/20 16:25	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		10/21/20 16:25	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/21/20 16:25	2037-26-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**6.9**	Std. Units			1		10/19/20 14:10		
Field Specific Conductance	**597**	umhos/cm			1		10/19/20 14:10		
Oxygen, Dissolved	**0**	mg/L			1		10/19/20 14:10	7782-44-7	
REDOX	**-138**	mV			1		10/19/20 14:10		
Turbidity	**3.2**	NTU			1		10/19/20 14:10		
Temperature, Water (C)	**8.16**	deg C			1		10/19/20 14:10		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**38.1**	mg/L	10.0	2.2	5		10/31/20 16:37	16887-00-6	
310.2 Alkalinity	Analytical Method: EPA 310.2								
	Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**238**	mg/L	24.8	7.4	1		10/27/20 14:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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QUALITY CONTROL DATA

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

QC Batch: 369175
QC Batch Method: EPA 6010
Analysis Method: EPA 6010
Analysis Description: ICP Metals, Trace, Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216816001, 40216816002, 40216816003, 40216816004

METHOD BLANK: 2134110 Matrix: Water
Associated Lab Samples: 40216816001, 40216816002, 40216816003, 40216816004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<9.7	40.0	10/23/20 02:57	
Iron, Dissolved	ug/L	<29.6	100	10/23/20 02:57	
Manganese, Dissolved	ug/L	<1.1	5.0	10/23/20 02:57	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	2.0	10/23/20 02:57	

LABORATORY CONTROL SAMPLE: 2134111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	500	485	97	80-120	
Iron, Dissolved	ug/L	5000	4860	97	80-120	
Manganese, Dissolved	ug/L	500	480	96	80-120	
Total Hardness by 2340B, Dissolved	mg/L		32.0			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2134112 2134113

Parameter	Units	40216714001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	26.4J	500	500	526	527	100	100	75-125	0	20	
Iron, Dissolved	ug/L	<29.6	5000	5000	4900	4890	98	98	75-125	0	20	
Manganese, Dissolved	ug/L	4.7J	500	500	489	490	97	97	75-125	0	20	
Total Hardness by 2340B, Dissolved	mg/L	67.8			99.2	98.5				1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

QC Batch: 368834
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216816001, 40216816002, 40216816003, 40216816004

METHOD BLANK: 2132354
Matrix: Water
Associated Lab Samples: 40216816001, 40216816002, 40216816003, 40216816004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/21/20 08:49	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/21/20 08:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/21/20 08:49	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/21/20 08:49	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/21/20 08:49	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/21/20 08:49	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/21/20 08:49	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	10/21/20 08:49	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/21/20 08:49	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/21/20 08:49	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/21/20 08:49	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/21/20 08:49	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/21/20 08:49	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/21/20 08:49	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/21/20 08:49	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/21/20 08:49	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/21/20 08:49	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/21/20 08:49	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/21/20 08:49	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/21/20 08:49	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/21/20 08:49	
2-Chlorotoluene	ug/L	<0.93	5.0	10/21/20 08:49	
4-Chlorotoluene	ug/L	<0.76	2.5	10/21/20 08:49	
Benzene	ug/L	<0.25	1.0	10/21/20 08:49	
Bromobenzene	ug/L	<0.24	1.0	10/21/20 08:49	
Bromochloromethane	ug/L	<0.36	5.0	10/21/20 08:49	
Bromodichloromethane	ug/L	<0.36	1.2	10/21/20 08:49	
Bromoform	ug/L	<4.0	13.2	10/21/20 08:49	
Bromomethane	ug/L	<0.97	5.0	10/21/20 08:49	
Carbon tetrachloride	ug/L	<1.1	3.6	10/21/20 08:49	
Chlorobenzene	ug/L	<0.71	2.4	10/21/20 08:49	
Chloroethane	ug/L	<1.3	5.0	10/21/20 08:49	
Chloroform	ug/L	<1.3	5.0	10/21/20 08:49	
Chloromethane	ug/L	<2.2	7.3	10/21/20 08:49	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/21/20 08:49	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/21/20 08:49	
Dibromochloromethane	ug/L	<2.6	8.7	10/21/20 08:49	
Dibromomethane	ug/L	<0.94	3.1	10/21/20 08:49	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/21/20 08:49	
Diisopropyl ether	ug/L	<1.9	6.3	10/21/20 08:49	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

METHOD BLANK: 2132354 Matrix: Water
Associated Lab Samples: 40216816001, 40216816002, 40216816003, 40216816004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	10/21/20 08:49	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	10/21/20 08:49	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	10/21/20 08:49	
m&p-Xylene	ug/L	<0.47	2.0	10/21/20 08:49	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/21/20 08:49	
Methylene Chloride	ug/L	<0.58	5.0	10/21/20 08:49	
n-Butylbenzene	ug/L	<0.71	2.4	10/21/20 08:49	
n-Propylbenzene	ug/L	<0.81	5.0	10/21/20 08:49	
Naphthalene	ug/L	<1.2	5.0	10/21/20 08:49	
o-Xylene	ug/L	<0.26	1.0	10/21/20 08:49	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/21/20 08:49	
sec-Butylbenzene	ug/L	<0.85	5.0	10/21/20 08:49	
Styrene	ug/L	<3.0	10.0	10/21/20 08:49	
tert-Butylbenzene	ug/L	<0.30	1.0	10/21/20 08:49	
Tetrachloroethene	ug/L	<0.33	1.1	10/21/20 08:49	
Tetrahydrofuran	ug/L	<2.3	20.0	10/21/20 08:49	
Toluene	ug/L	<0.27	1.0	10/21/20 08:49	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	10/21/20 08:49	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/21/20 08:49	
Trichloroethene	ug/L	<0.26	1.0	10/21/20 08:49	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/21/20 08:49	
Vinyl chloride	ug/L	<0.17	1.0	10/21/20 08:49	
4-Bromofluorobenzene (S)	%	94	70-130	10/21/20 08:49	
Dibromofluoromethane (S)	%	95	70-130	10/21/20 08:49	
Toluene-d8 (S)	%	98	70-130	10/21/20 08:49	

LABORATORY CONTROL SAMPLE: 2132355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.1	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.4	93	64-131	
1,1,2-Trichloroethane	ug/L	50	46.0	92	70-130	
1,1-Dichloroethane	ug/L	50	42.5	85	69-163	
1,1-Dichloroethene	ug/L	50	39.3	79	77-123	
1,2,4-Trichlorobenzene	ug/L	50	45.3	91	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.3	87	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	46.8	94	70-130	
1,2-Dichlorobenzene	ug/L	50	47.3	95	70-130	
1,2-Dichloroethane	ug/L	50	41.7	83	78-142	
1,2-Dichloropropane	ug/L	50	48.0	96	86-134	
1,3-Dichlorobenzene	ug/L	50	46.8	94	70-130	
1,4-Dichlorobenzene	ug/L	50	47.2	94	70-130	
Benzene	ug/L	50	43.6	87	70-130	
Bromodichloromethane	ug/L	50	46.8	94	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

LABORATORY CONTROL SAMPLE: 2132355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	43.0	86	70-130	
Bromomethane	ug/L	50	28.1	56	39-129	
Carbon tetrachloride	ug/L	50	44.1	88	70-132	
Chlorobenzene	ug/L	50	47.7	95	70-130	
Chloroethane	ug/L	50	34.9	70	66-140	
Chloroform	ug/L	50	44.1	88	75-132	
Chloromethane	ug/L	50	26.0	52	32-143	
cis-1,2-Dichloroethene	ug/L	50	42.8	86	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.0	94	70-130	
Dibromochloromethane	ug/L	50	47.4	95	70-130	
Dichlorodifluoromethane	ug/L	50	22.5	45	10-141	
Ethylbenzene	ug/L	50	48.9	98	80-120	
Isopropylbenzene (Cumene)	ug/L	50	50.6	101	70-130	
m&p-Xylene	ug/L	100	99.3	99	70-130	
Methyl-tert-butyl ether	ug/L	50	42.5	85	61-129	
Methylene Chloride	ug/L	50	42.5	85	70-130	
o-Xylene	ug/L	50	48.0	96	70-130	
Styrene	ug/L	50	49.6	99	70-130	
Tetrachloroethene	ug/L	50	50.6	101	70-130	
Toluene	ug/L	50	47.5	95	80-120	
trans-1,2-Dichloroethene	ug/L	50	43.5	87	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.0	86	69-130	
Trichloroethene	ug/L	50	50.8	102	70-130	
Trichlorofluoromethane	ug/L	50	39.6	79	75-145	
Vinyl chloride	ug/L	50	30.5	61	51-140	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2132756 2132757

Parameter	Units	40216807002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	43.2	43.8	86	88	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	47.4	45.5	95	91	64-137	4	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	47.2	44.7	94	89	70-137	5	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	42.3	42.8	85	86	69-163	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	38.2	40.1	76	80	77-129	5	20	M1
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	47.6	45.5	95	91	68-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	40.7	42.0	81	84	60-130	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	46.8	46.3	94	93	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	47.7	45.6	95	91	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	41.3	42.3	83	85	78-145	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	48.2	47.1	96	94	86-135	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2132756 2132757

Parameter	Units	40216807002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/L	<0.63	50	50	48.5	46.4	97	93	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	45.5	44.7	91	89	70-130	2	20	
Benzene	ug/L	<0.25	50	50	44.7	44.3	89	89	70-136	1	20	
Bromodichloromethane	ug/L	<0.36	50	50	46.0	45.4	92	91	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	43.8	41.9	88	84	69-130	5	20	
Bromomethane	ug/L	<0.97	50	50	31.7	32.7	63	65	39-138	3	20	
Carbon tetrachloride	ug/L	<1.1	50	50	44.2	44.6	88	89	70-142	1	20	
Chlorobenzene	ug/L	<0.71	50	50	47.9	46.1	96	92	70-130	4	20	
Chloroethane	ug/L	<1.3	50	50	34.9	34.8	70	70	61-149	0	20	
Chloroform	ug/L	<1.3	50	50	45.9	44.8	92	90	75-133	2	20	
Chloromethane	ug/L	<2.2	50	50	25.4	24.8	51	50	32-143	2	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	42.7	44.1	85	88	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	49.1	47.4	98	95	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	46.9	45.4	94	91	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	20.5	21.2	41	42	10-141	3	20	
Ethylbenzene	ug/L	<0.32	50	50	47.9	46.9	96	94	80-120	2	20	
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	49.5	48.4	99	97	70-130	2	20	
m&p-Xylene	ug/L	<0.47	100	100	100	96.1	100	96	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	43.6	44.1	87	88	61-136	1	20	
Methylene Chloride	ug/L	<0.58	50	50	43.1	41.9	86	84	68-137	3	20	
o-Xylene	ug/L	<0.26	50	50	49.3	47.4	99	95	70-130	4	20	
Styrene	ug/L	<3.0	50	50	50.8	48.4	102	97	70-130	5	20	
Tetrachloroethene	ug/L	<0.33	50	50	48.1	47.4	96	95	70-130	1	20	
Toluene	ug/L	<0.27	50	50	46.3	45.5	93	91	80-120	2	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	44.9	43.8	90	88	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	42.9	41.6	86	83	69-130	3	20	
Trichloroethene	ug/L	<0.26	50	50	49.0	47.5	98	95	70-130	3	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	37.8	38.1	76	76	74-157	1	20	
Vinyl chloride	ug/L	<0.17	50	50	29.1	29.4	58	59	51-140	1	20	
4-Bromofluorobenzene (S)	%						100	101	70-130			
Dibromofluoromethane (S)	%						95	100	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

QC Batch: 369649
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216816001, 40216816002, 40216816003, 40216816004

METHOD BLANK: 2136589 Matrix: Water
Associated Lab Samples: 40216816001, 40216816002, 40216816003, 40216816004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	10/31/20 11:38	

LABORATORY CONTROL SAMPLE: 2136590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.5	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2136591 2136592

Parameter	Units	40217085005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5950	10000	10000	16700	16700	108	108	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2136593 2136594

Parameter	Units	40216824004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	332	400	400	753	740	105	102	90-110	2	15	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

QC Batch: 369446
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216816001, 40216816002, 40216816003, 40216816004

METHOD BLANK: 2135839 Matrix: Water
Associated Lab Samples: 40216816001, 40216816002, 40216816003, 40216816004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	24.8	10/27/20 14:37	

LABORATORY CONTROL SAMPLE: 2135840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2135841 2135842

Parameter	Units	40216824002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	133	200	200	335	330	101	99	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2135843 2135844

Parameter	Units	40216826001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	11900	5000	5000	16900	17000	99	101	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

QC Batch: 371478
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Distilled
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216816001, 40216816002, 40216816003

METHOD BLANK: 2148256 Matrix: Water
Associated Lab Samples: 40216816001, 40216816002, 40216816003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.14	0.50	11/16/20 17:54	

LABORATORY CONTROL SAMPLE: 2148257

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: 2148258 2148259

Parameter	Units	40216816002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	67.0	100	100	159	162	92	95	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

QC Batch: 370790
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40216816001, 40216816002, 40216816003

METHOD BLANK: 2144096 Matrix: Water
Associated Lab Samples: 40216816001, 40216816002, 40216816003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	11/10/20 19:50	

LABORATORY CONTROL SAMPLE: 2144097

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: 2144098 2144099

Parameter	Units	40217370001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	11.4	5	5	17.2	16.8	116	108	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144100 2144101

Parameter	Units	40217647001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	78.8	50	50	132	132	106	106	90-110	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

WORKORDER QUALIFIERS

WO: 40216816

[1] Revised Report: Both TKN and ammonia were reanalyzed to confirm the irregular correlation.

ANALYTE QUALIFIERS

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

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796-30 RHINELANDER LF
Pace Project No.: 40216816

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40216816001	**MW-21A**	EPA 6010	369175		
40216816002	**MW-3A**	EPA 6010	369175		
40216816003	**MW-2A**	EPA 6010	369175		
40216816004	**MW-2B**	EPA 6010	369175		
40216816001	**MW-21A**	EPA 8260	368834		
40216816002	**MW-3A**	EPA 8260	368834		
40216816003	**MW-2A**	EPA 8260	368834		
40216816004	**MW-2B**	EPA 8260	368834		
40216816001	**MW-21A**				
40216816002	**MW-3A**				
40216816003	**MW-2A**				
40216816004	**MW-2B**				
40216816001	**MW-21A**	EPA 300.0	369649		
40216816002	**MW-3A**	EPA 300.0	369649		
40216816003	**MW-2A**	EPA 300.0	369649		
40216816004	**MW-2B**	EPA 300.0	369649		
40216816001	**MW-21A**	EPA 310.2	369446		
40216816002	**MW-3A**	EPA 310.2	369446		
40216816003	**MW-2A**	EPA 310.2	369446		
40216816004	**MW-2B**	EPA 310.2	369446		
40216816001	**MW-21A**	EPA 350.1	371478	EPA 350.1	371489
40216816002	**MW-3A**	EPA 350.1	371478	EPA 350.1	371489
40216816003	**MW-2A**	EPA 350.1	371478	EPA 350.1	371489
40216816001	**MW-21A**	EPA 351.2	370790	EPA 351.2	370861
40216816002	**MW-3A**	EPA 351.2	370790	EPA 351.2	370861
40216816003	**MW-2A**	EPA 351.2	370790	EPA 351.2	370861

Page 1 of 1

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

40216816

(Please Print Clearly)	
Company Name:	GHD
Branch/Location:	St. Paul MN
Project Contact:	Grant Anderson
Phone:	651 639 0913
Project Number:	11115796-30
Project Name:	Rhinelander LF
Project State:	WS
Sampled By (Print):	Ryan Aarnot
Sampled By (Sign):	
PO #:	Regulatory Program:

*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

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Alk; Chloride	VOCs + Tetrahydrofuran	Hardness, Ca, Mn	Boron	Ammonia + TKN	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)				N	N	Y	Y	N			
	PRESERVATION (CODE)*				A	B	D	D	C			
001	W-201019-RA-01	10/19/20	1335	GW	X	X	X		X	Sample times		
002	W-201019-RA-02	"	1310	"	X	X	X	X	X	not listed on		
003	W-201019-RA-03	"	1348	"	X	X	X	X	X	bottles		
004	W-201019-RA-04	"	1410	"	X	X	X					

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	1600 10/19/20		
Ted Gx	10/20/20 0915	Susan Kluge Pace	10/20/20 0915

PACE Project No.: 40216816
Receipt Temp = ROT °C
Sample Receipt pH: OK / Adjusted
Cooler Custody Seal: Present / ~~Not Present~~
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: GHD Project # 4021681b

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☐N/A Initial when completed: KY Date/ Time:

Lab Lot# of pH paper: 100494 Lab Std #ID of preservation (if pH adjusted):

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	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001										1		1	1				3											X			X		2.5 / 5 / 10
002							10/20/22			1		1	1				3											X			X		2.5 / 5 / 10
003							KY			1		1	1				3											X			X		2.5 / 5 / 10
004										1		1																				2.5 / 5 / 10
005																																2.5 / 5 / 10
006																																2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																																2.5 / 5 / 10
016																																2.5 / 5 / 10
017																																2.5 / 5 / 10
018																											10/20/22 KY						2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☐N/A *If yes look in headspace column

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GHD

Project #: WO# : 40216816

40216816

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 8160 7354 9273

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: 10/20/20 /Initials: SKW

Labeled By Initials: AB

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. Mail & Invoice info 10/20/20 SKW
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC: 10/20/20 SKW	☑Yes ☐No ☐N/A	12. No times 10/20/20 SKW
-Includes date/time/ID/Analysis Matrix:		
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

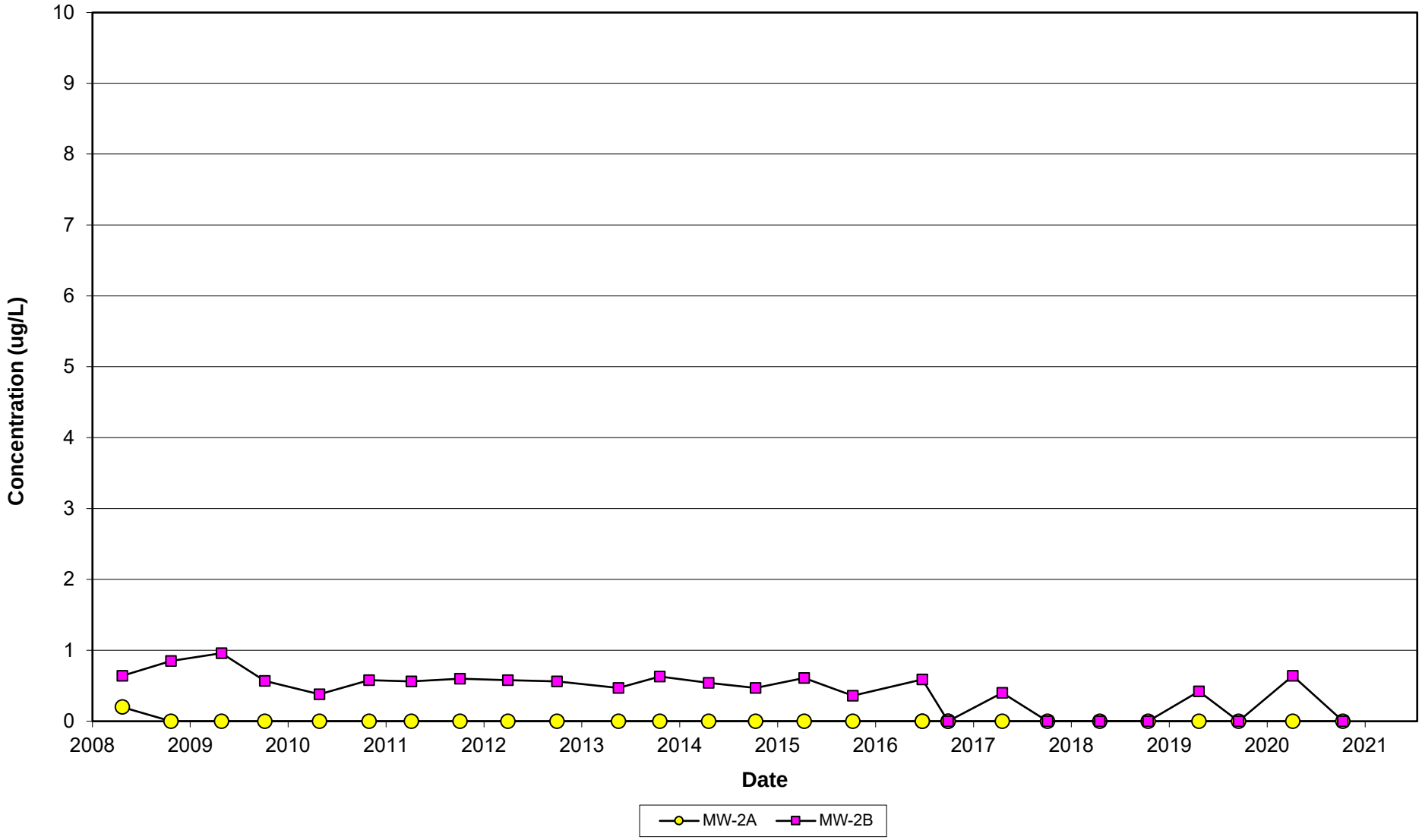
Person Contacted: Date/Time:

Comments/ Resolution:

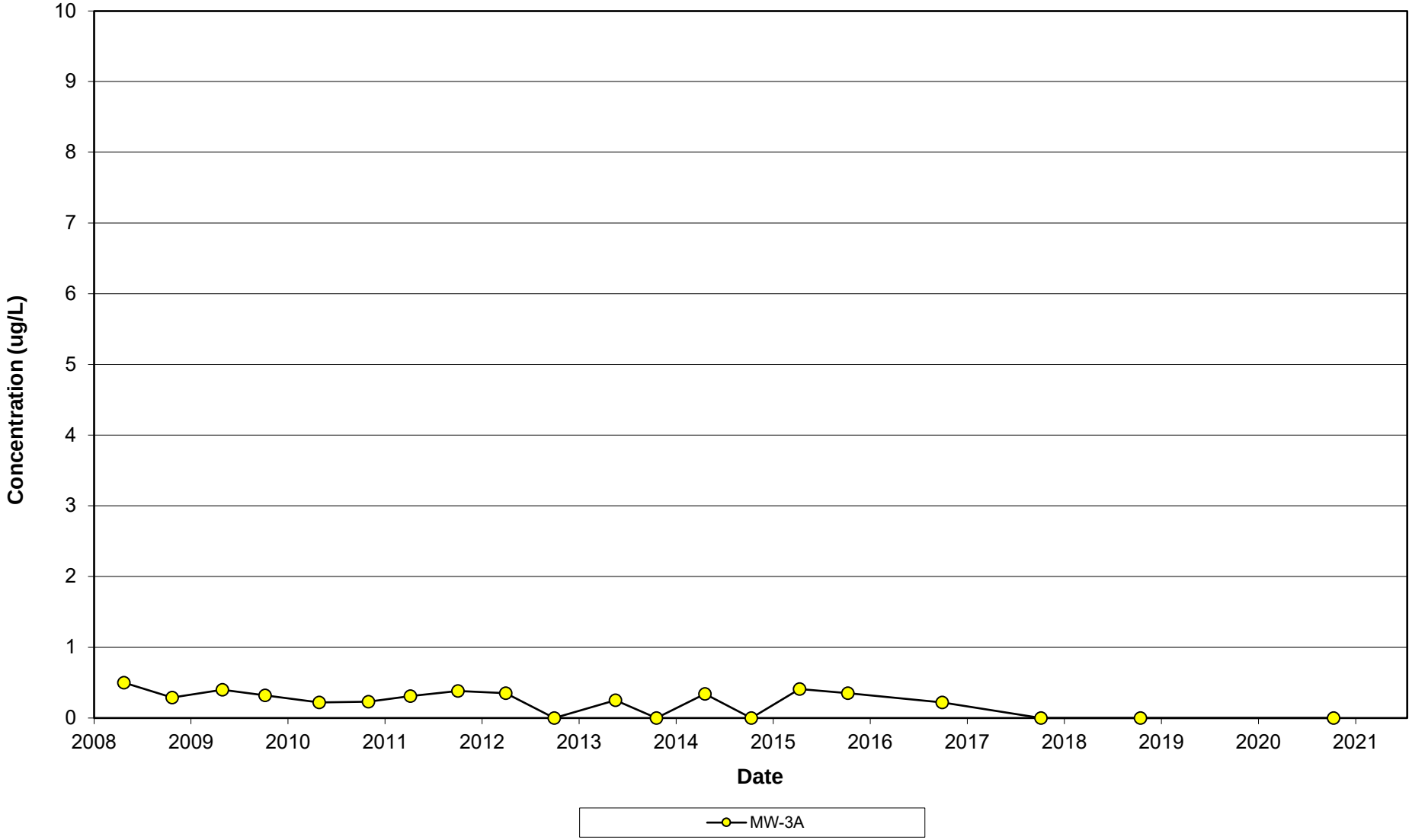
PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

Appendix C
Vinyl Chloride Graphs

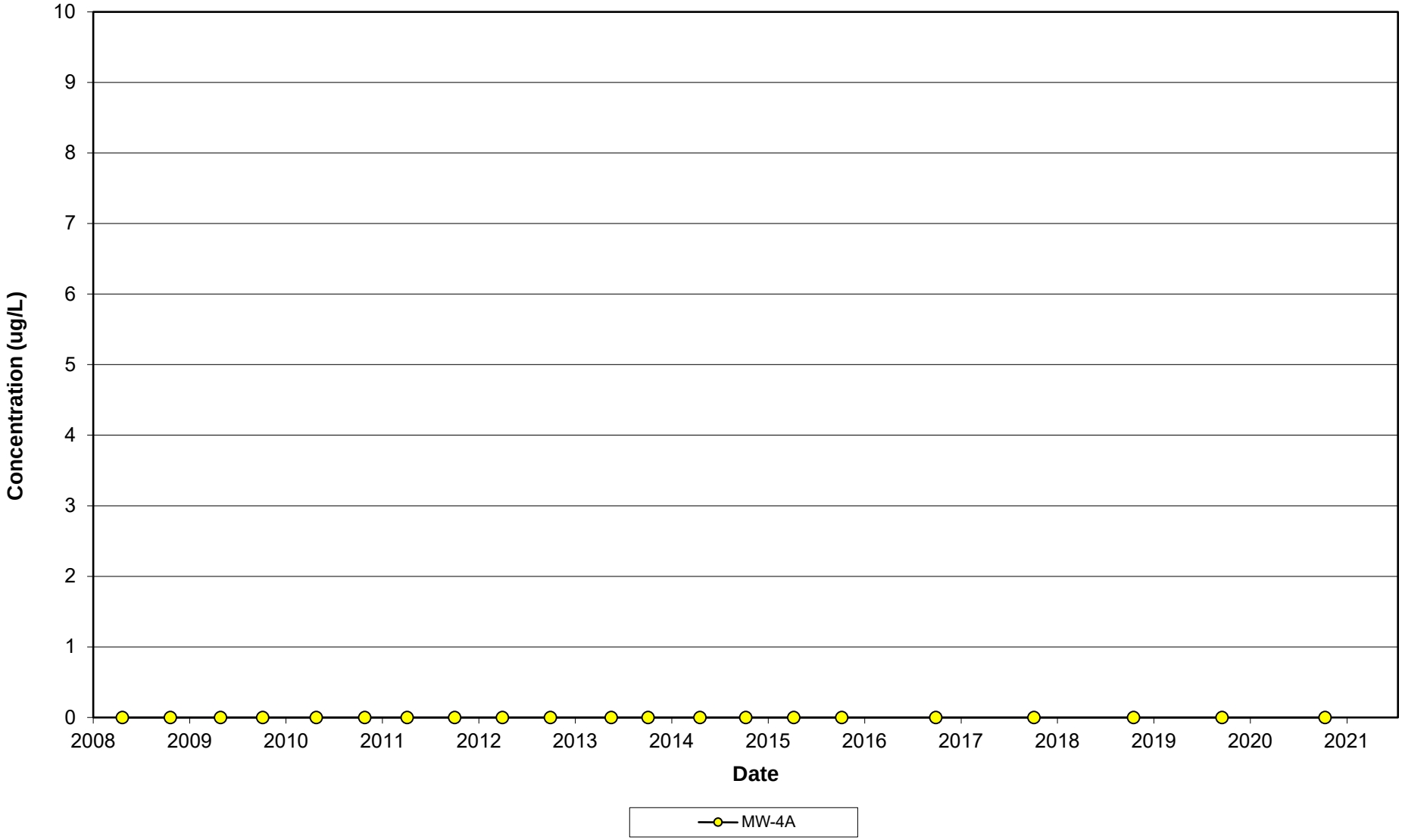
Vinyl Chloride Concentrations Over Time
(MW-2 NEST)
Rhinelander Landfill
Rhinelander, Wisconsin



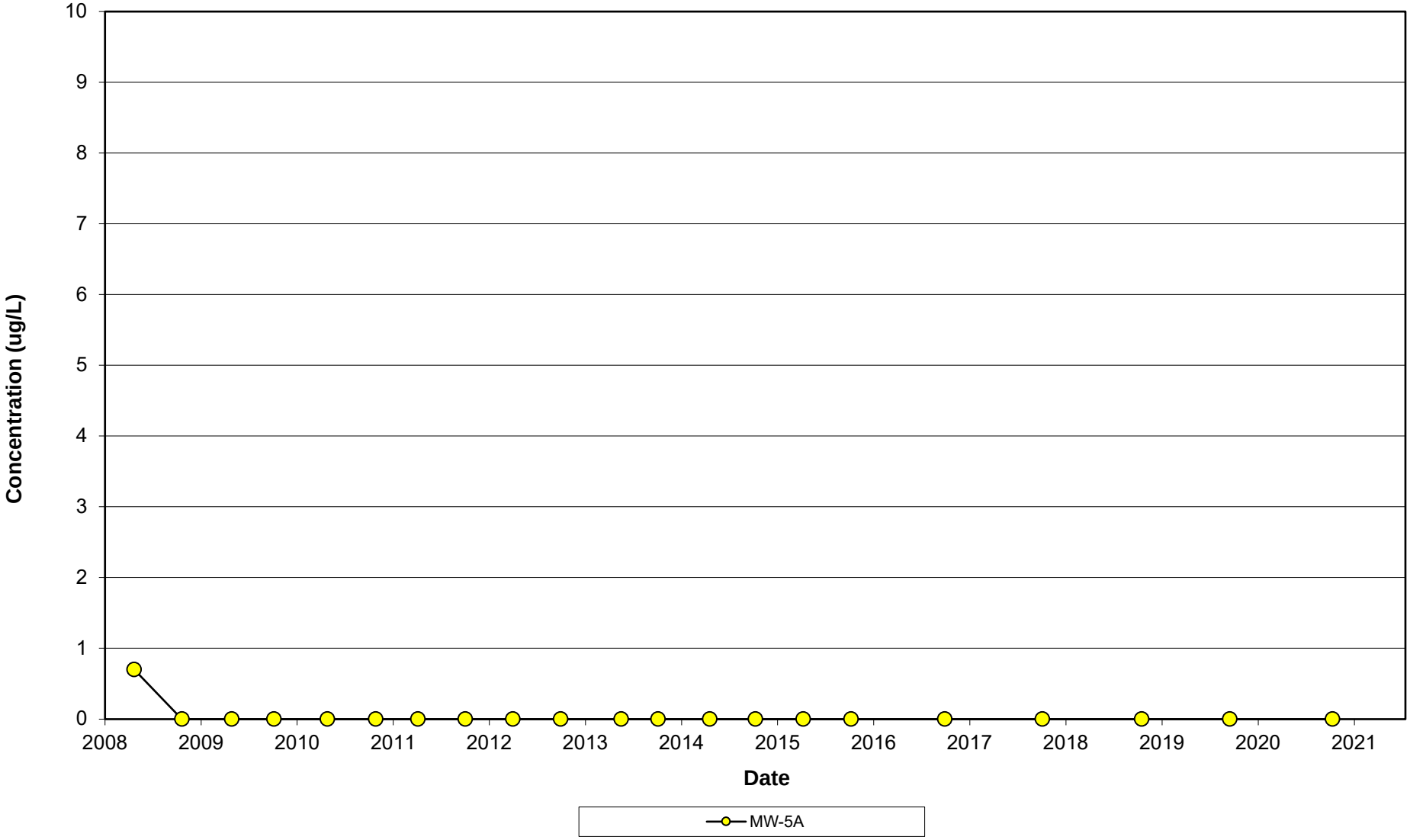
Vinyl Chloride Concentrations Over Time
(MW-3A)
Rhinelander Landfill
Rhinelander, Wisconsin



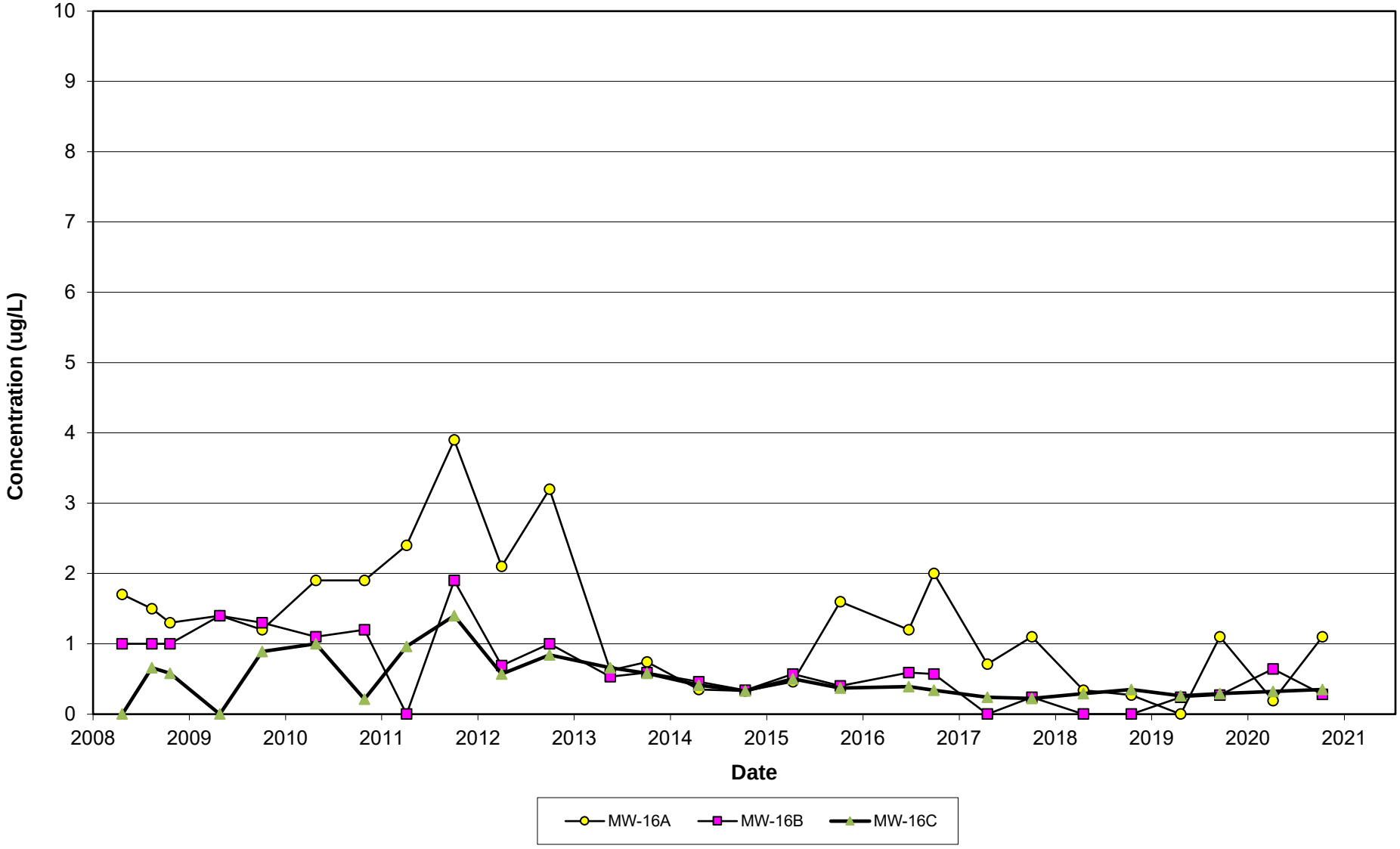
Vinyl Chloride Concentrations Over Time
(MW-4A)
Rhinelander Landfill
Rhinelander, Wisconsin



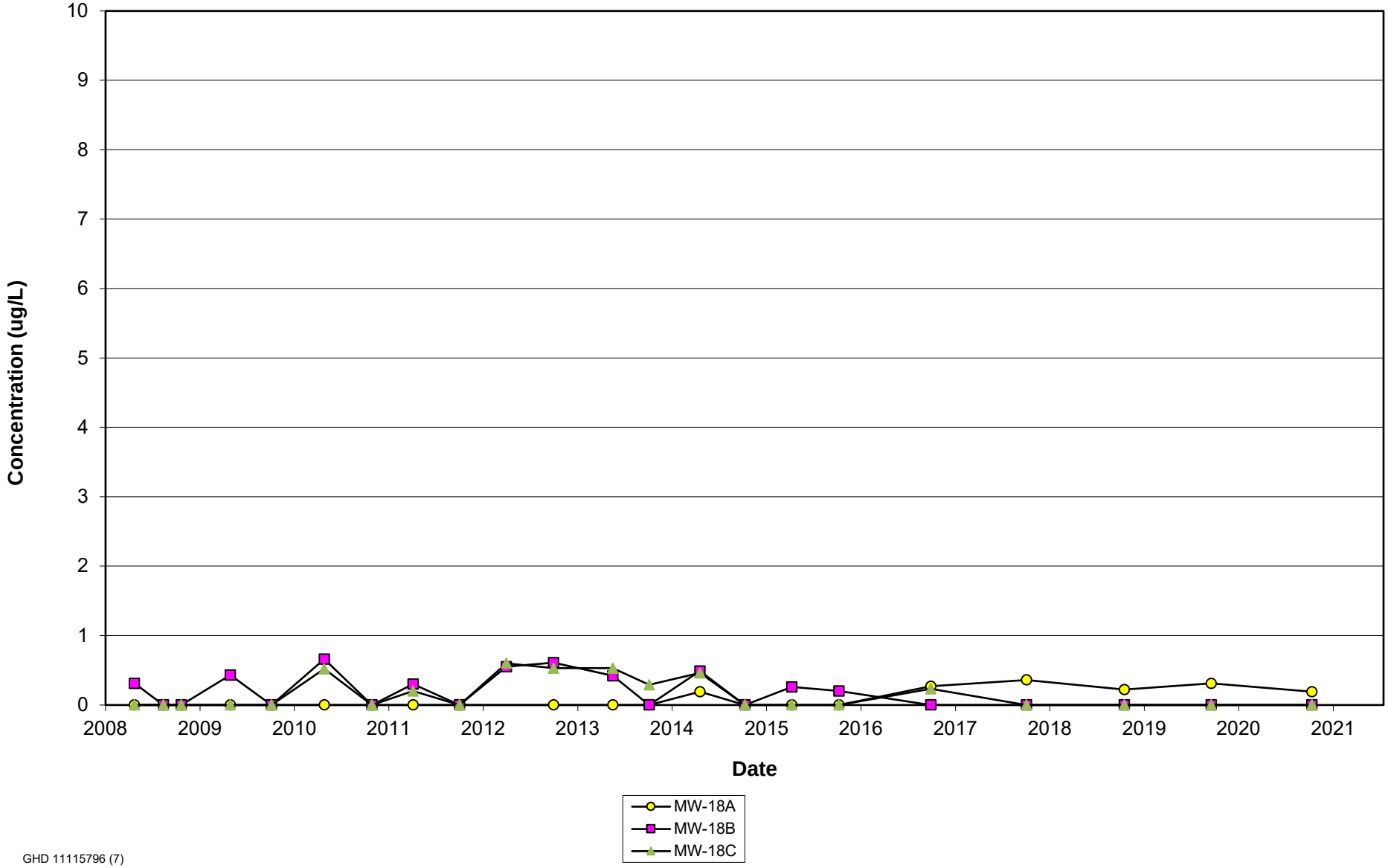
Vinyl Chloride Concentrations Over Time
(MW-5A)
Rhinelander Landfill
Rhinelander, Wisconsin



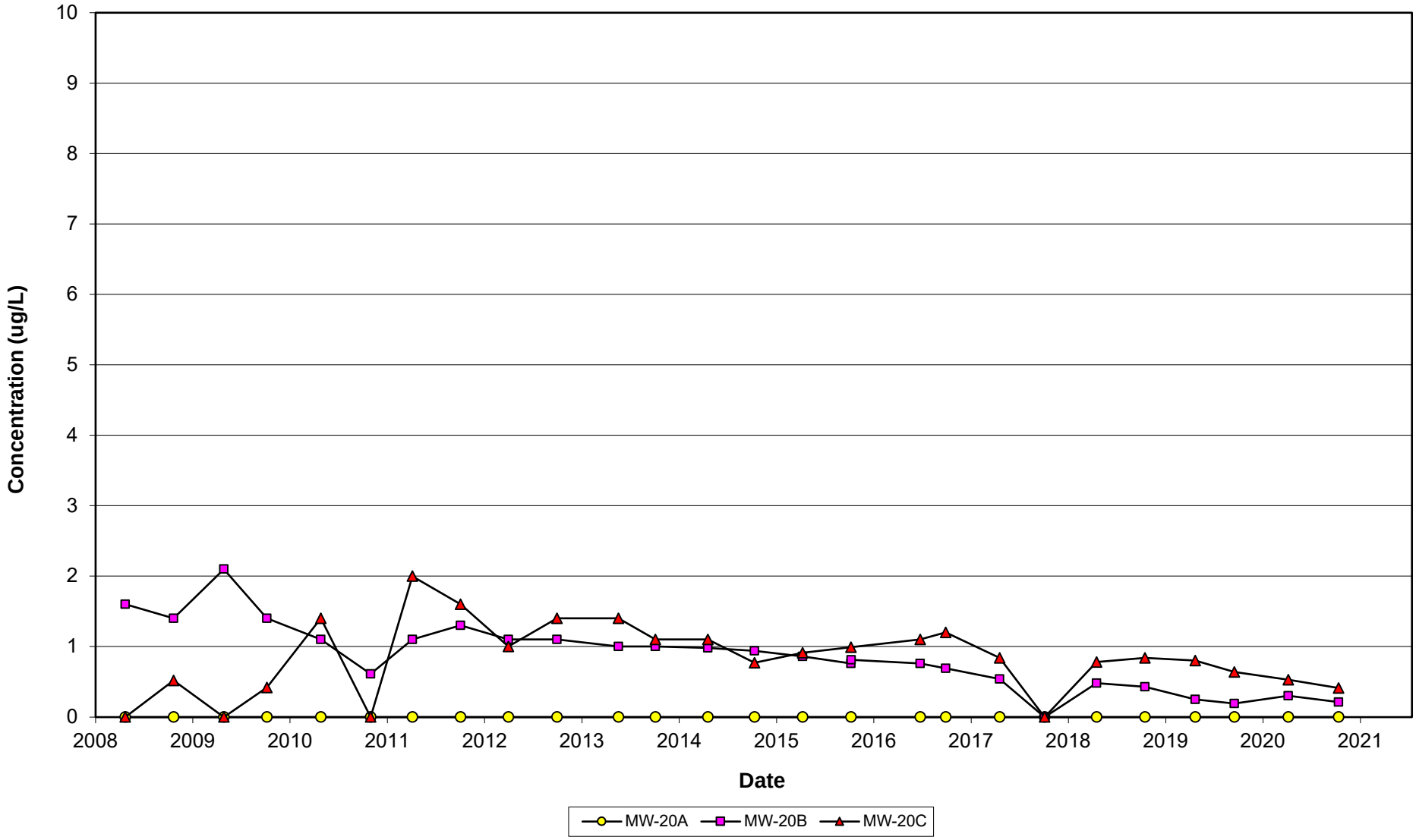
Vinyl Chloride Concentrations Over Time
(MW-16 NEST)
Rhinelander Landfill
Rhinelander, Wisconsin



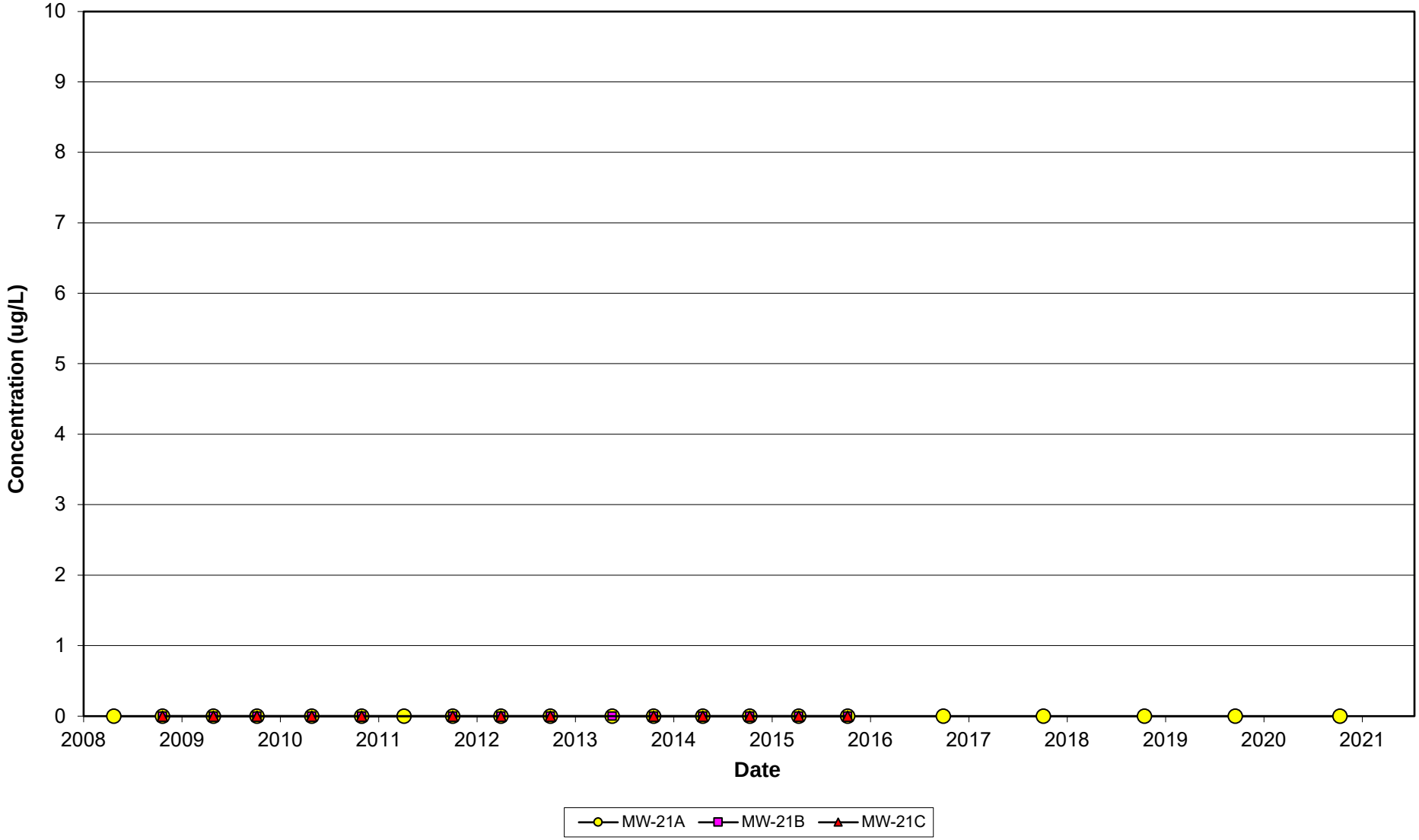
Vinyl Chloride Concentrations Over Time
(MW-18 NEST)
Rhinelander Landfill
Rhinelander, Wisconsin



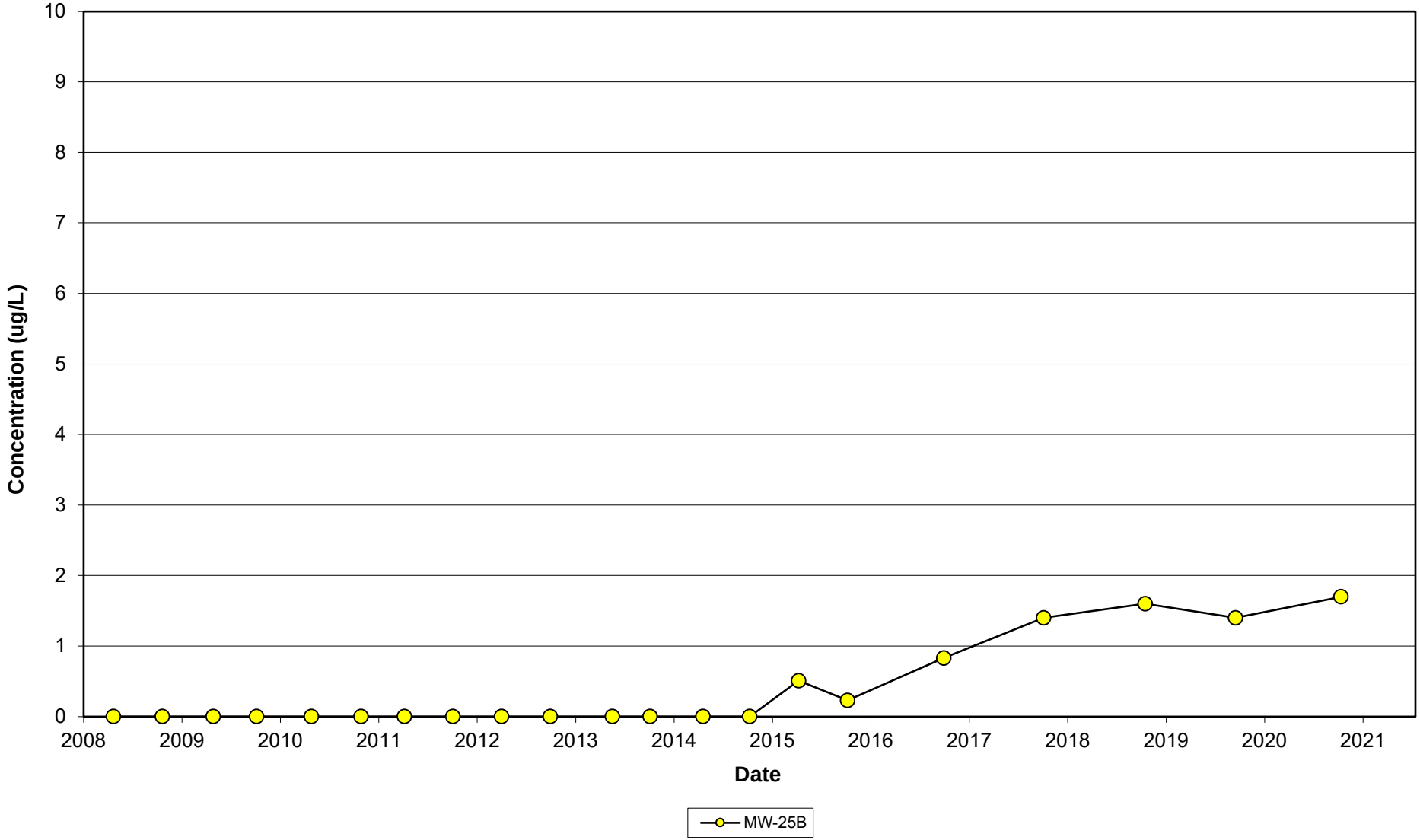
Vinyl Chloride Concentrations Over Time
(MW-20 NEST)
Rhinelander Landfill
Rhinelander, Wisconsin



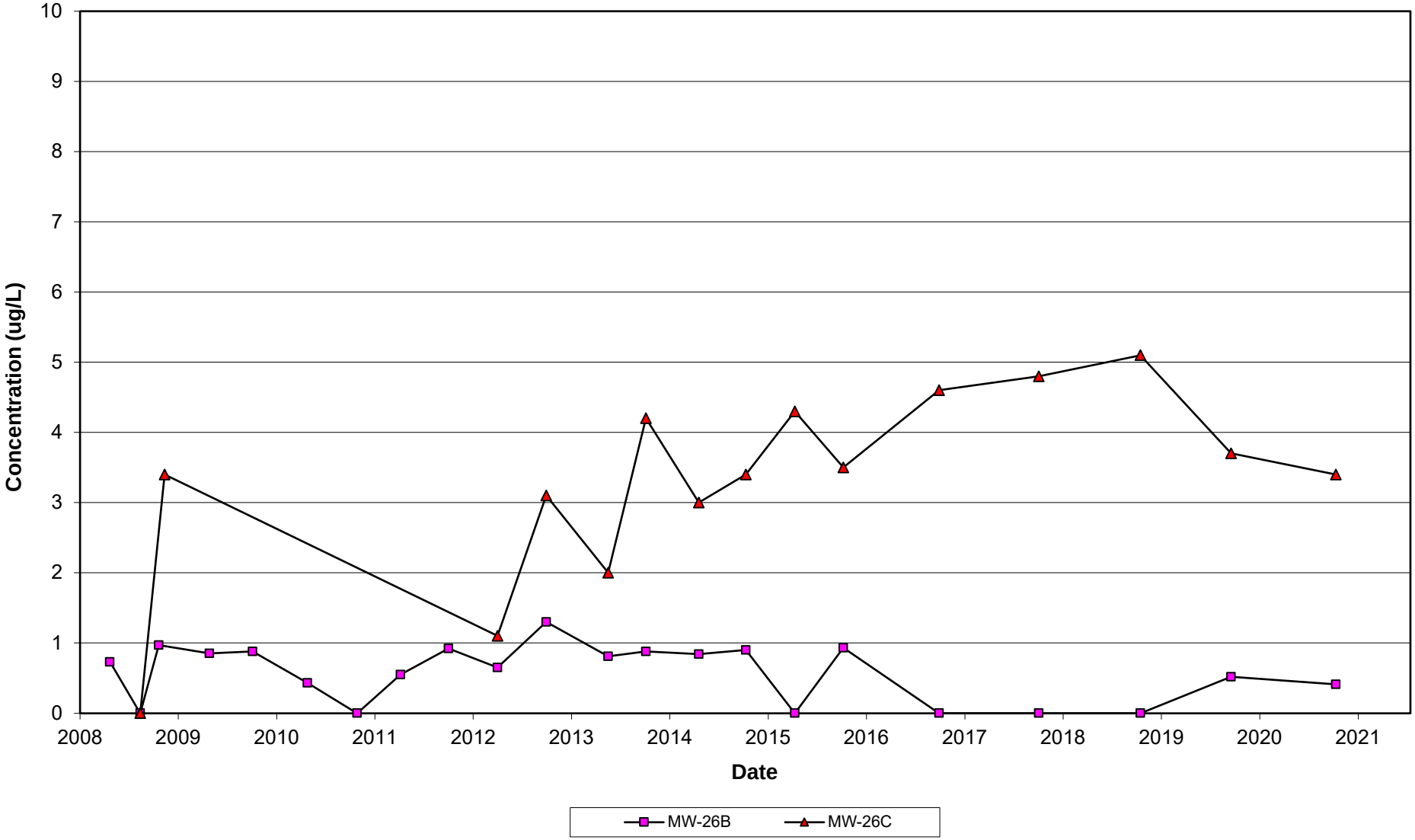
Vinyl Chloride Concentrations Over Time
(MW-21 NEST)
Rhinelander Landfill
Rhinelander, Wisconsin



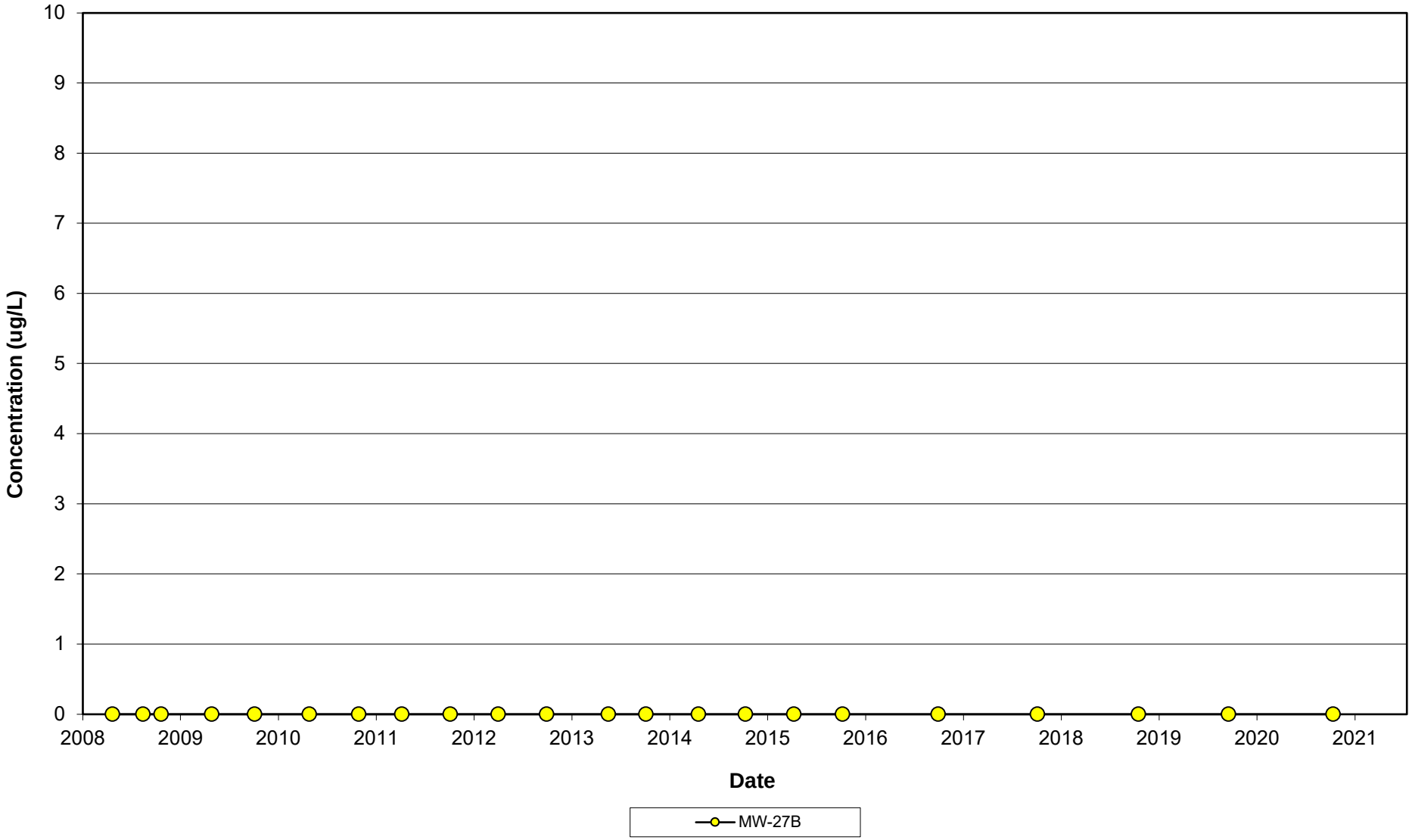
Vinyl Chloride Concentrations Over Time
(MW-25B)
Rhinelander Landfill
Rhinelander, Wisconsin



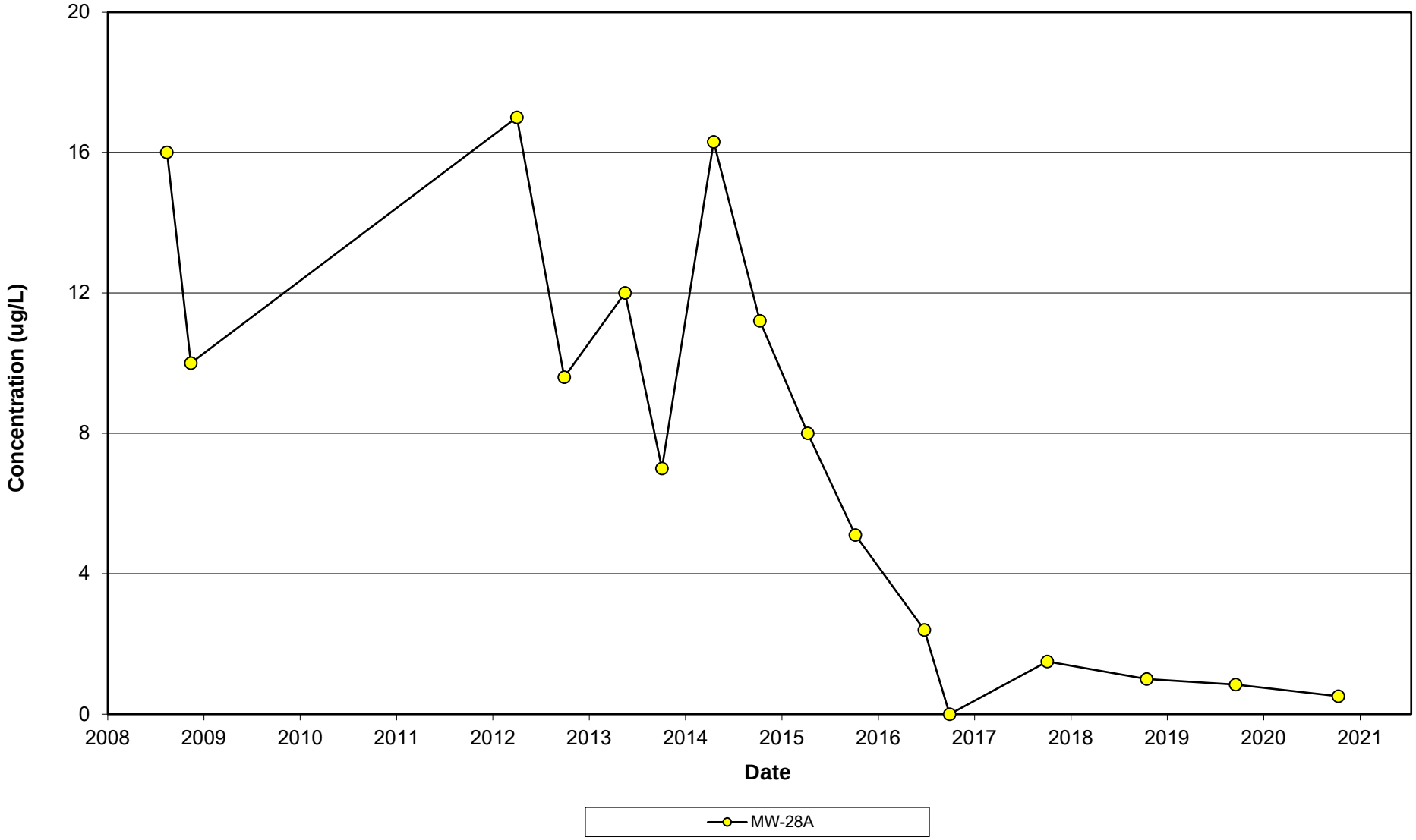
Vinyl Chloride Concentrations Over Time
(MW-26 NEST)
Rhinelander Landfill
Rhinelander, Wisconsin



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



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