



2023 Site Monitoring Report

Former City of Rhineland Landfill

City of Rhineland

January 29, 2024

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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 has retained GHD since 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 2023 Activities

The following activities associated with the Site were conducted in 2023:

- April 19: Semi-Annual surface water sampling at three locations in Slaughterhouse Creek
- July: City of Rhinelander mows the landfill cover
- October 16-17: Annual groundwater sampling/monitoring of 20 monitoring wells
- October 16: Semi-Annual surface water sampling at three locations in Slaughterhouse Creek

2. Landfill Inspections

A landfill inspection was completed during each of the two surface water 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 2023.

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 in 2017 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. Currently, the new trees are approximately ten to fifteen feet tall. 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 2023: 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

A surface water sample collection and analysis summary is included in Table 1. Surface water results from this period are shown in Table 2. 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). Three of the 2023 results showed exceedances of applicable standards as expressed in NR 105. 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 2023, ranging from 10.6 J+ (estimated concentration, may be biased high) milligrams per liter (mg/L) to 104 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 3 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 2023. Copper was detected in two of the six surface water samples collected in 2023. The upstream surface water SW-10 location, April sample, had a copper result of 27.7 micrograms per liter ($\mu\text{g/L}$), which exceeded the NR 105 Table 2 calculated standard of 6.43 $\mu\text{g/L}$ and the NR 105 Table 6 calculated standard of 4.65 $\mu\text{g/L}$. The downstream surface water location SW-20, April sample, had an estimated (J) copper result of 7.6 J $\mu\text{g/L}$, which exceeded the Table 2 calculated

standard of 4.42 µg/L and the Table 6 calculated standard of 3.31 µg/L. Zinc was detected in three of the six surface water samples. Zinc was detected at SW-10, SW-20, and SW-28 in April at concentrations ranging from 18.1 J µg/L to 29.2 J µg/L. No zinc results exceeded their respective standards relative to their applicable standard. Analysis for zinc, copper, and lead are listed in Table 2 and Table 6 of NR 105. Table 4 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. The Area 2 Restoration project surface water location (SW-28), October 26th sample, had an ammonia result of 153 mg/L, which exceeded the Table 2C calculated standard of 41.17 mg/L, the Table 4B calculated standard of 7.64 mg/L, and the Table 4B 4-day calculated standard of 19.09 mg/L. No other samples had concentrations above the acute or chronic standards. Table 5 shows the ammonia data relative to the applicable NR 105 standards. Total Kjeldahl Nitrogen (TKN) was inadvertently not analyzed during the spring sampling round. The surface water locations will be sampled again in April and October of 2024.

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 29 are part of the monitoring program. These wells are screened in the upper, middle, and lower portions of the shallow regional aquifer.

Table 6 summarizes the sampling locations in the monitoring plan and illustrates any changes to the monitoring plan that have occurred during the monitoring period. A sample collection and analysis summary for the groundwater monitoring wells is included in Table 6.

During this reporting period, groundwater monitoring was conducted in October. The October 2023 round consisted of collecting samples from 20 monitoring wells.

Monitoring well locations were sampled for analysis of volatile organic compounds (VOCs) + tetrahydrofuran. Select wells were sampled for TKN and ammonia. 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 2023 groundwater contours for the upper "A" and middle "B" wells are presented on Figures 4 and 5, respectively. Groundwater elevations for the deep "C" wells are presented on Figure 6. Not enough data points were present to contour the "C" elevations. Table 7 presents the groundwater elevations for the October 2023 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 the 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.

5.3 Groundwater Sampling Program

Groundwater sampling was conducted in accordance with the April 29, 2016 letter from the WDNR to the RLG. In the 2022 Site Monitoring Report, GHD recommended changing the site from semi-annual sampling to annual sampling. In an email dated 3/31/23, the WDNR approved the switch to annual monitoring well sampling. Sampling methods are in accordance with the WDNR Groundwater Sampling Field Manual. Table 8 summarizes the monitoring well sampling event.

Samples were collected immediately after low flow purging and stabilization. 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 2023 groundwater sampling events. A copy of the data quality assessments and validation memos are also provided in Appendix A.

Table 9 provides a summary of detected compounds in monitoring wells sampled during the October 2023 sampling event.

5.4 Groundwater Sampling Results

The analytical results from the 2023 sampling event, along with the previous six years, are presented on Table 9. The groundwater sampling results from 2023 are consistent with historical results. Groundwater laboratory reports for this period are in Appendix B.

5.4.1 VOCs

Five VOCs exceeded their respective Wisconsin Enforcement Standard (WES) in monitoring well samples collected during this reporting period: benzene, tetrahydrofuran, vinyl chloride, trichloroethene, and 1,2-dichloropropane. 1,2-Dichloropropane exceeded the WES in MW-20A. 1,2-Dichloropropane has not been detected in the well nest previously and is considered anomalous.

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). Vinyl chloride results exceeded the WES at six locations (MW-16A, MW-20B, MW-25B, MW-26B, MW-26C, and MW-28A). Trichloroethene results exceeded the WES at one location (MW-18A).

The VOC exceedances, along with the concentrations for the October 2023 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 Other Analytes

Ammonia exceeded the WES in the monitoring well samples collected during this reporting period at three locations (MW-2A, MW-3A, and MW-21A).

6. Conclusions and Recommendations

Based on the 2023 surface water and groundwater sampling activities, the following conclusions are made:

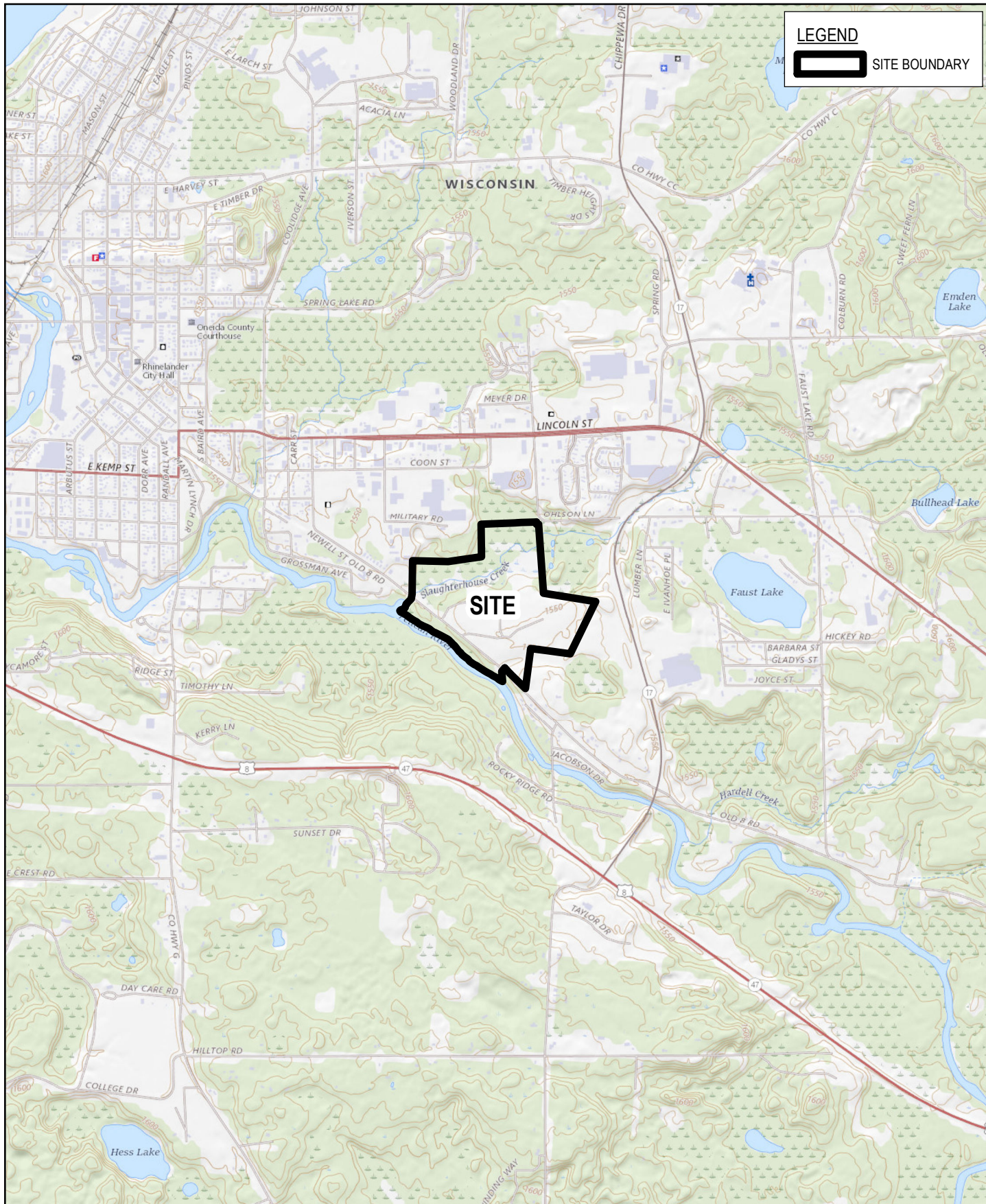
- Three sample results from the 2023 surface water sampling events exceeded applicable standards.
- Other typical landfill parameters (ammonia) are present in groundwater, but are not impacting the downstream surface water.
- Groundwater exhibits a radial flow direction from the landfill towards Slaughterhouse Creek to the north and towards the Pelican River to the southwest.

- Five VOCs exceeded their respective WES in monitoring well samples collected during this reporting period: benzene, tetrahydrofuran, vinyl chloride, trichloroethene, and 1,2-dichloropropane. The 1,2-dichloropropane result is considered anomalous.
- Ammonia exceeded the WES in three of the monitoring well samples collected during this reporting period.
- The groundwater sampling results from 2023 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.

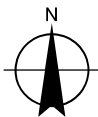
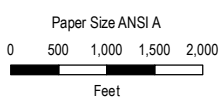
Based on the conclusions stated above, GHD, on behalf of the RLG, recommends the following:

- Continue groundwater sampling of the same 20 wells annually.
- GHD recommends continuing the semi-annual sampling of the three surface water locations.

Figures



LEGEND
 SITE BOUNDARY



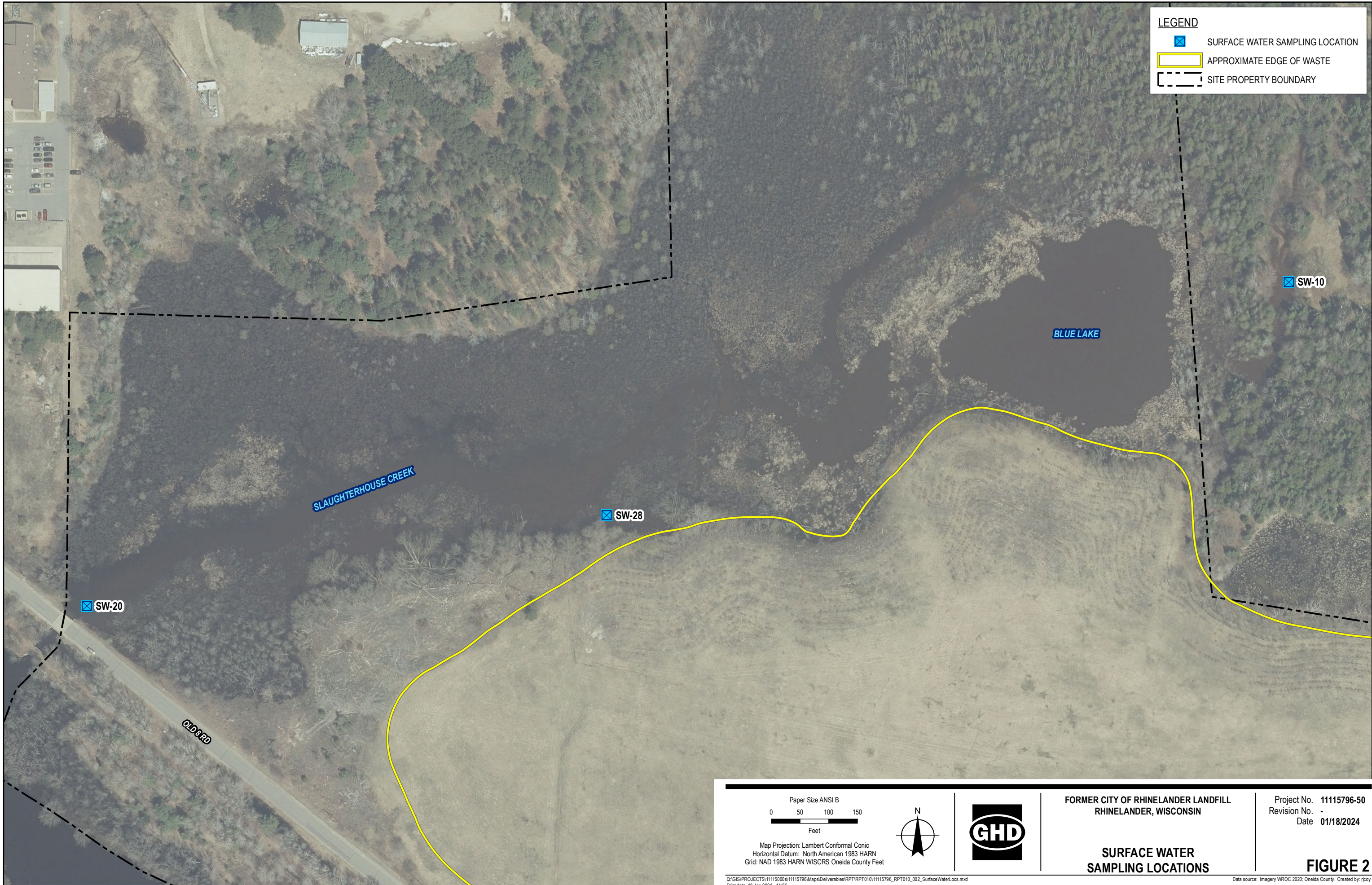
**FORMER CITY OF RHINELANDER LANDFILL
 RHINELANDER, WISCONSIN**

Project No. 11115796-50
 Revision No. -
 Date 01/18/2024

Map Projection: Lambert Conformal Conic
 Horizontal Datum: North American 1983 HARN
 Grid: NAD 1983 HARN WISCRS Oneida County Sert

SITE LOCATION

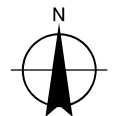
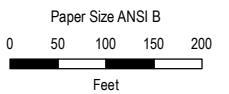
FIGURE 1





LEGEND

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



Map Projection: Lambert Conformal Conic
 Horizontal Datum: North American 1983 HARN
 Grid: NAD 1983 HARN WISCRS Oneida County Feet

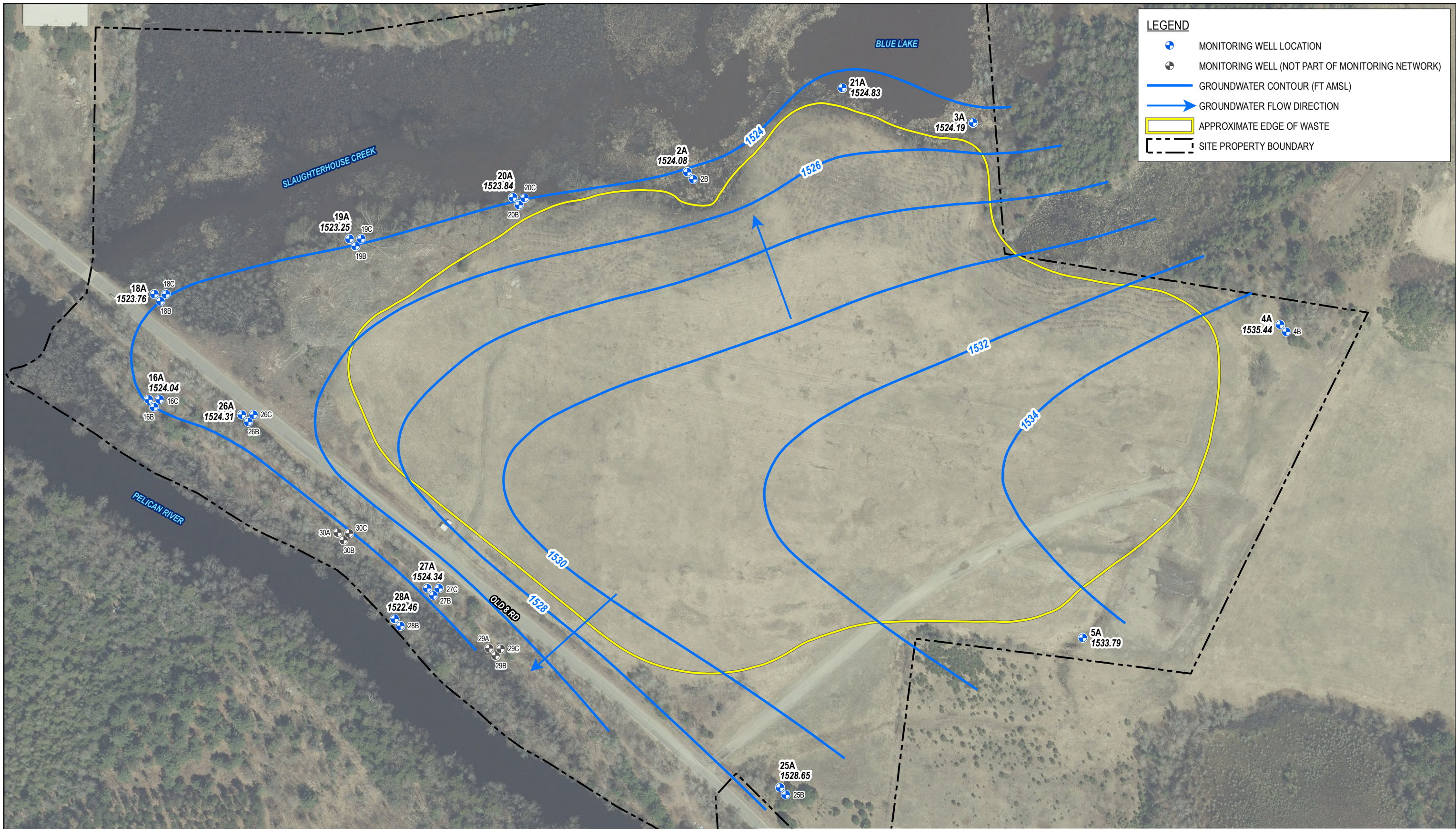


FORMER CITY OF RHINELANDER LANDFILL
 RHINELANDER, WISCONSIN

MONITORING WELL LOCATIONS

Project No. 11115796-50
 Revision No. -
 Date 01/18/2024

FIGURE 3



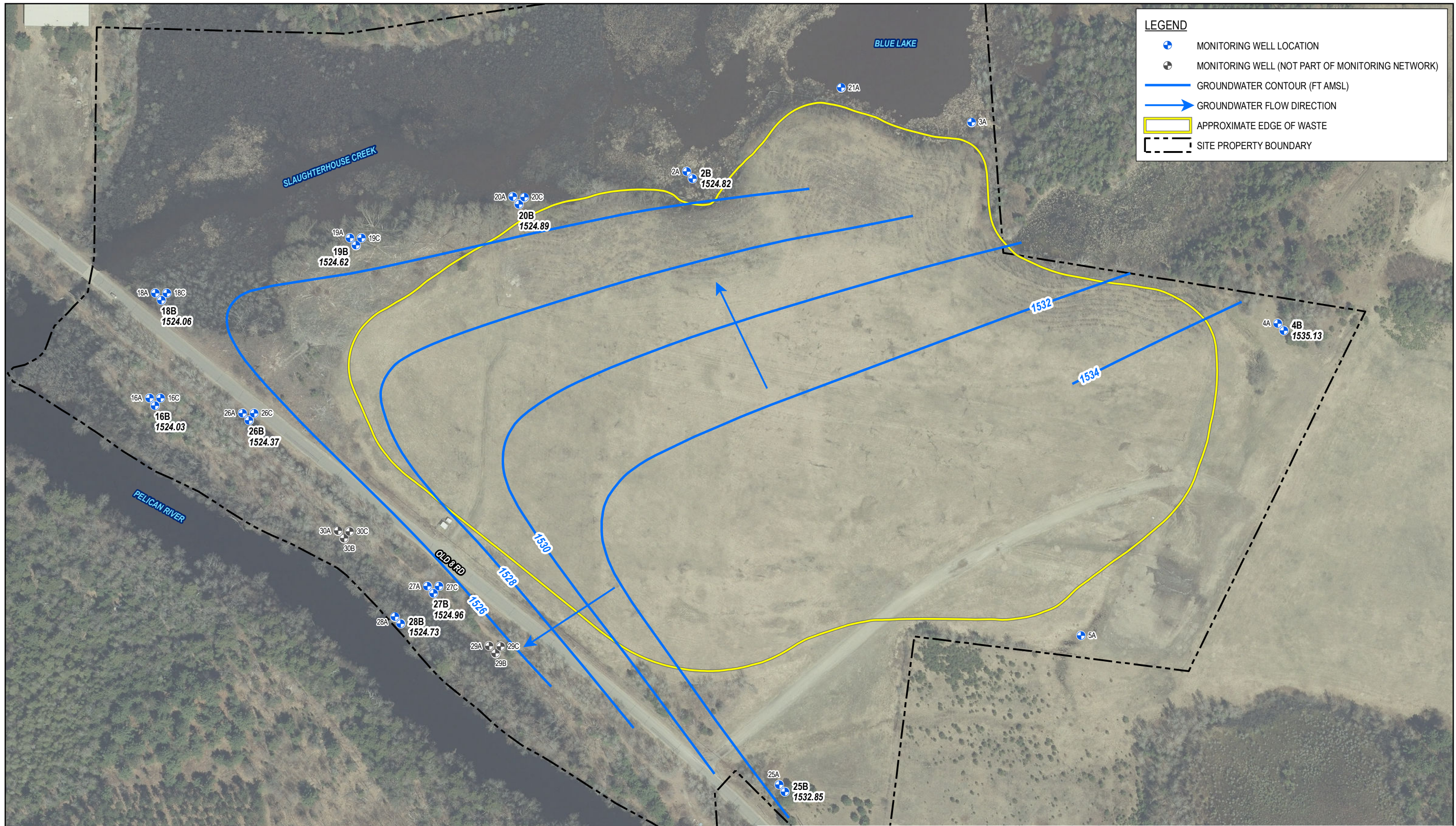
LEGEND

- ⊕ MONITORING WELL LOCATION
- ⊕ MONITORING WELL (NOT PART OF MONITORING NETWORK)
- GROUNDWATER CONTOUR (FT AMSL)
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE EDGE OF WASTE
- SITE PROPERTY BOUNDARY

NOTES
 1524.38 GROUNDWATER ELEVATION (FT AMSL)

Paper Size ANSI B 0 50 100 150 200 Feet			FORMER CITY OF RHINELANDER LANDFILL RHINELANDER, WISCONSIN SHALLOW GROUNDWATER CONTOURS "A" MONITORING WELLS	Project No. 11115796-50 Revision No. - Date 01/18/2024
Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 HARN Grid: NAD 1983 HARN WISCRS Oneida County Feet			FIGURE 4	

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 Print date: 18 Jan 2024 - 15:41
 Data source: Imagery WROC 2020; Oneida County. Created by: rjpo



LEGEND

- ⊕ MONITORING WELL LOCATION
- ⊕ MONITORING WELL (NOT PART OF MONITORING NETWORK)
- GROUNDWATER CONTOUR (FT AMSL)
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE EDGE OF WASTE
- SITE PROPERTY BOUNDARY

NOTES
 1524.38 GROUNDWATER ELEVATION (FT AMSL)

Paper Size ANSI B
 0 50 100 150 200
 Feet

Map Projection: Lambert Conformal Conic
 Horizontal Datum: North American 1983 HARN
 Grid: NAD 1983 HARN WISCRS Oneida County Feet



FORMER CITY OF RHINELANDER LANDFILL
 RHINELANDER, WISCONSIN

**INTERMEDIATE
 GROUNDWATER CONTOURS
 "B" MONITORING WELLS**

Project No. 11115796-50
 Revision No. -
 Date 01/18/2024

FIGURE 5



LEGEND

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

NOTES
 1524.38 GROUNDWATER ELEVATION (FT AMSL)

Paper Size ANSI B 0 50 100 150 200 Feet			FORMER CITY OF RHINELANDER LANDFILL RHINELANDER, WISCONSIN DEEP GROUNDWATER ELEVATIONS "C" MONITORING WELLS	Project No. 11115796-50 Revision No. - Date 01/18/2024
Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 HARN Grid: NAD 1983 HARN WISCRS Oneida County Feet			FIGURE 6	



LEGEND

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

NOTES

VC: 1.4 VINYL CHLORIDE CONCENTRATION (µg/L)

TCE: 7.5 TRICHLOROETHENE CONCENTRATION (µg/L)

THF: 90.1 TETRAHYDROFURAN CONCENTRATION (µg/L)

BEN: 17.7 BENZENE CONCENTRATION (µg/L)

Paper Size ANSI B

Feet

**FORMER CITY OF RHINELANDER LANDFILL
RHINELANDER, WISCONSIN**

**OCTOBER 2023 ENFORCEMENT
STANDARD VOC EXCEEDANCES**

Project No. 11115796-50
Revision No. -
Date 01/18/2024

FIGURE 7

Map Projection: Lambert Conformal Conic
Horizontal Datum: North American 1983 HARN
Grid: NAD 1983 HARN WISCRS Oneida County Feet

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Print date: 18 Jan 2024 - 14:56

Data source: Imagery WROC 2020; Oneida County. Created by: rjpo

Tables

**Sample Collection and Analysis Summary
Surface Water Sampling Event
Former City of Rhinelander Landfill - Slaughterhouse Creek
Rhinelander, Wisconsin**

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Select Metals	Hardness	Chloride	Fecal Coliforms	Ammonia	Total Kjeldahl Nitrogen	Chemical Oxygen Demand	Nitrate/Nitrite	Turbidity	Comments
W-230419-RA-SW20	SW-20	water	4/19/2023	13:00	x	x	x	x	x	-	x	x	x	
W-230419-RA-SW28	SW-28	water	4/19/2023	14:00	x	x	x	x	x	-	x	x	x	
W-230419-RA-SW10	SW-10	water	4/19/2023	14:20	x	x	x	x	x	-	x	x	x	
W-231016-RA-100	SW-20	water	10/16/2023	14:00	x	x	x	x	x	x	x	x	x	
W-231016-RA-101	SW-28	water	10/16/2023	14:18	x	x	x	x	x	x	x	x	x	
W-231016-RA-102	SW-10	water	10/16/2023	14:40	x	x	x	x	x	x	x	x	x	

Notes:

VOC - Volatile Organic Compounds

Select Metals - Copper, Iron, Lead, Sodium, Zinc

Table 2

2023 Surface Water Sample Results
Former City of Rhinelander Landfill - Slaughterhouse Creek
Rhinelander, Wisconsin

Sample Location: Sample Date:	Upstream		Downstream		Near Seep		
	SW-10 04/19/23	SW-10 10/16/23	SW-20 04/19/23	SW-20 10/16/23	SW-28 04/19/23	SW-28 10/16/23	
Parameters	Unit						
Metals							
Hardness	mg/L	39.3	87.2	26.4	133	25.9	393
Copper	µg/L	27.7	< 10.0	7.6 J	< 10.0	< 10.0	< 10.0
Iron	µg/L	5060	4420	3500	4030	1150	11900
Lead	µg/L	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Sodium	µg/L	28800	33300	5190	41000	6260	53400
Zinc	µg/L	29.2 J	< 40.0	25.3 J	< 40.0	18.1 J	< 40.0
General Chemistry							
Fecal coliform bacteria	cfu/100mL	< 16.7 J	24.0 J	< 16.7 J	28.6 J	< 16.7 J	28.0 J
Ammonia	mg/L	< 0.50	< 0.50	0.16 J	1.5	0.24 J	153
Chemical oxygen demand (COD)	mg/L	51.7	< 50.0	51.7	< 50.0	39.0 J	60.2
Chloride	mg/L	61.3	68.1	10.6 J+	104	14.2 J+	35.1
Nitrite/Nitrate	mg/L	0.51	0.12 J	0.68	0.28	0.77	1.4
Total kjeldahl nitrogen (TKN)	mg/L	NA	0.87 J	NA	1.8	NA	113
Field Data							
Temperature	° C	1.90	10.9	5.88	10.9	8.05	10.9
pH	SU	8.26	8.81	9.08	8.81	9.89	8.81
Conductivity	µS	247	432	72	432	103	432
Dissolved Oxygen	mg/L	10.39	8.13	7.00	8.13	8.65	8.13
Oxidation Reduction Potential	mV	23	-29	102	-29	92	-29
Turbidity	NTU	113.0	16.5	47.6	16.5	80.8	16.5

Notes:

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

J+ - Estimated Concentration, may be biased high

< 16.7 J - Not detected; associated reporting limit is estimated

U - Not detected at the associated reporting limit.

NA - Not Analyzed

**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	4/19/2023	Chloride	mg/L	61.30	757	395
SW-10	10/16/2023	Chloride	mg/L	68.1	757	395
SW-20	4/19/2023	Chloride	mg/L	10.6 J+	757	395
SW-20	10/16/2023	Chloride	mg/L	104	757	395
SW-28	4/19/2023	Chloride	mg/L	14.2 J+	757	395
SW-28	10/16/2023	Chloride	mg/L	35.1	757	395

Notes:

mg/L- Milligram per liter

J+ - Estimated Concentration, may be biased high

WWSF - Warm water sportfish

Table 4

**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	4/19/2023	Copper	µg/L	27.7	6.43	4.65
SW-10	10/16/2023	Copper	µg/L	< 10.0	13.63	9.21
SW-20	4/19/2023	Copper	µg/L	7.6 J	4.42	3.31
SW-20	10/16/2023	Copper	µg/L	< 10.0	20.31	13.21
SW-28	4/19/2023	Copper	µg/L	< 10.0	4.34	3.26
SW-28	10/16/2023	Copper	µg/L	< 10.0	56.45	33.39
SW-10	4/19/2023	Lead	µg/L	< 20.0	43.37	11.36
SW-10	10/16/2023	Lead	µg/L	< 20.0	93.67	24.53
SW-20	4/19/2023	Lead	µg/L	< 20.0	29.53	7.73
SW-20	10/16/2023	Lead	µg/L	< 20.0	140.84	36.89
SW-28	4/19/2023	Lead	µg/L	< 20.0	28.99	7.59
SW-28	10/16/2023	Lead	µg/L	< 20.0	401.21	105.09
SW-10	4/19/2023	Zinc	µg/L	29.2 J	53.19	53.19
SW-10	10/16/2023	Zinc	µg/L	< 40.0	106.79	106.79
SW-20	4/19/2023	Zinc	µg/L	25.3 J	37.56	37.56
SW-20	10/16/2023	Zinc	µg/L	< 40.0	154.47	154.47
SW-28	4/19/2023	Zinc	µg/L	18.1 J	36.94	36.94
SW-28	10/16/2023	Zinc	µg/L	< 40.0	398.42	398.42

Notes:

µg/L - Microgram per liter

WWSF - Warm water sportfish

J - Estimated concentration at or above the LOD and below the LOQ. I23

< - Not detected at the associated reporting limit.

- Outlined cells exceed WWSF Standard

Table 5

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

Sample Location	Sample Date	Parameter	Units	Result	Temperature (°C)	pH	WWSF Table 2C	WWSF Table 4B	WWSF Table 4B
							Acute Calculated	30-Day Calculated	Ammonia 4-Day
							Standard	Standard	Standard
SW-10	4/19/2023	Ammonia	mg/L	< 0.50	1.90	8.26	5.10	2.64	6.61
SW-10	10/16/2023	Ammonia	mg/L	< 0.50	10.9	8.81	1.81	0.82	2.05
SW-20	4/19/2023	Ammonia	mg/L	0.16 J	5.88	9.08	1.17	0.71	1.76
SW-20	10/16/2023	Ammonia	mg/L	1.5	10.7	7.56	18.15	5.29	13.22
SW-28	4/19/2023	Ammonia	mg/L	0.24 J	8.05	9.69	0.60	0.35	0.88
SW-28	10/16/2023	Ammonia	mg/L	153	11.4	6.83	41.17	7.64	19.09

Notes:

mg/L - Milligram per liter

WWSF - Warm water sportfish

< - Not detected at the associated reporting limit.

 - Outlined cells exceed WWSF Standard

Table 6
Current Monitoring Plan
Former City of Rhinelander Landfill
Rhinelander, Wisconsin

Sample Matrix	Field Parameters	Laboratory Parameters	Investigative Samples	QA Samples ⁽¹⁾				Total Per Round	Current Sampling Frequency
				Field Blanks	Field Duplicates	MS ⁽²⁾	MSD ⁽²⁾		
Groundwater									
Annual Wells ⁽³⁾	pH, Temperature, Conductivity, DO, Turbidity, ORP	VOCs+tetrahydrofuran, Ammonia-N ⁽⁴⁾ , Kjeldahl-N ⁽⁴⁾	20	1	1	1	1	24	Annually
Surface Water									
Surface Water ⁽⁵⁾	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).
- Water levels only will be collected from 4B, 19A, 19B, 19C, 25A, 26A, 27A, 27C, and 28B

- 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 Annual Wells currently include: 2A, 2B, 3A, 4A, 5A, 16A, 16B, 16C, 18A, 18B, 18C, 20A, 20B, 20C, 21A, 25B, 26B, 26C, 27B, 28A
- 4 Only the following wells are sampled for Ammonia-N and Kjeldahl-N - 2A, 3A, 21A
- 5 Upstream (Sample Point 10), Area 2 Restoration (Sample Point 28), Downstream at Newell St. Bridge (Sample Point 20)

Table 7

**2023 Groundwater Elevation Summary
Former City of Rhinelander Landfill
Rhinelander, Wisconsin**

Monitoring Well	Top of Casing Elevation	October 2023
MW2A	1527.01	1524.08
MW2B	1528.04	1524.82
MW3A	1527.02	1524.19
MW4A	1551.28	1535.44
MW4B	1549.99	1535.13
MW5A	1549.13	1533.79
MW16A	1533.07	1524.04
MW16B	1532.85	1524.03
MW16C	1533.09	1524.07
MW18A	1529.83	1523.76
MW18B	1529.83	1524.06
MW18C	1529.76	1523.99
MW19A	1531.91	1523.25
MW19B	1532.16	1524.62
MW19C	1532.04	1524.69
MW20A	1529.35	1523.84
MW20B	1530.56	1524.89
MW20C	1530.34	1524.98
MW21A	1528.42	1524.83
MW25A	1544.85	1528.65
MW25B	1545.18	1532.85
MW26A	1529.95	1524.31
MW26B	1529.21	1524.37
MW26C	1530.06	1524.17
MW27A	1537.44	1524.34
MW27B	1536.52	1524.96
MW27C	1536.79	1526.37
MW28A	1529.04	1522.46
MW28B	1528.33	1524.73

Note:

All elevations in feet above mean sea level (AMSL)

Table 8

**2023 Monitoring Well Sampling Summary
Former City of Rhinelander Landfill
Rhinelander, Wisconsin**

Location	Date	Time	pH	Temp. (C)	Specific Conductance (uS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Water Clarity	Water Level (ft)	Purge Rate (mL/min)	Sample Number
MW-16A	10/16/2023	13:37	6.95	10.06	664	-131	0.00	0.0	Clear	9.03	300	W-231016-RA-01
MW-16B	10/16/2023	13:47	7.45	8.80	872	-198	0.00	0.9	Clear	8.88	300	W-231016-RA-02 W-231016-RA-03 (Duplicate)
MW-16C	10/16/2023	14:27	6.82	9.64	808	-141	0.58	0.00	Clear	9.06	300	W-231016-RA-04
MW-2A	10/17/2023	9:02	6.51	8.76	2690	-74	0.00	26.1	Clear	NA	NA	W-231017-RA-19
MW-2B	10/17/2023	9:10	7.22	8.28	771	-110	0.00	7.7	Clear	NA	NA	W-231017-RA-20
MW-21A	10/17/2023	9:33	6.61	7.89	4190	-102	0.00	81.4	Clear	NA	NA	W-231017-RA-21
MW-3A	10/17/2023	9:57	7.08	9.35	1550	-67	0.51	240.0	Clear	NA	NA	W-231017-RA-22
MW-5A	10/16/2023	17:20	6.80	10.15	831	90	4.62	0.7	Clear	16.91	150	W-231016-RA-12
MW-4A	10/16/2023	17:22	6.83	10.03	491	127	4.68	0.0	Clear	15.86	300	W-231016-RA-13 W-231016-RA-14 (Duplicate)
MW-25B	10/16/2023	16:55	8.07	9.45	402	-84	0.00	3.6	Clear	17.58	NA	W-231016-RA-11
MW-18B	10/16/2023	16:04	6.89	9.41	772	62	0.00	0.0	Clear	5.85	300	W-231016-RA-07
MW-18C	10/16/2023	16:22	7.12	9.40	862	-53	0.00	3.4	Clear	5.77	300	W-231016-RA-08
MW-18A	10/16/2023	16:37	7.28	11.63	633	-140	0.00	23.9	Clear	6.50	300	W-231016-RA-08 W-231016-RA-10 (Field Blank)
MW-20C	10/17/2023	8:26	6.86	8.84	673	-137	0.00	0.0	Clear	5.39	300	W-231017-RA-18
MW-26B	10/16/2023	15:23	7.83	9.71	431	-218	0.40	0.0	Clear	9.67	300	W-231016-RA-05
MW-26C	10/16/2023	15:42	7.65	9.28	535	-148	0.00	0.7	Clear	5.89	300	W-231016-RA-06
MW-20B	10/17/2023	8:11	7.10	8.80	682	-128	0.00	0.0	Clear	5.67	300	W-231017-RA-17 MS/MSD
MW-20A	10/17/2023	8:07	6.44	11.30	1500	-122	0.00	9.9	Clear	5.51	300	W-231017-RA-16
MW-28A	10/17/2023	10:40	7.15	10.96	661	-83	0	14.1	Clear	6.6	400	W-231017-RA-24
MW-27B	10/17/2023	10:50	6.03	10.69	645	180	4.35	0.8	Clear	13.1	300	W-231017-RA-23

Table 9
Summary of Detected Compounds
Former City of Rhinelander Landfill
Rhinelander, Wisconsin

Table with columns for Location, Date, WES PAL QA/QC, Boron (dissolved), Hardness, Iron (dissolved), Manganese (dissolved), Alkalinity, total (as CaCO3), Ammonia, Chloride, Total kjeldahl nitrogen (TKN), 1,1-Dichloroethane, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 1,2-Dichlorobenzene, 1,2-Dichloropropane, 1,4-Dichlorobenzene, Benzene, Chlorobenzene, Chloromethane (Methyl chloride), cis-1,2-Dichloroethene, Cymene (p-isopropyltoluene), Dichlorodifluoromethane (CFC-12), Isopropyl benzene, m&p-Xylenes, o-Xylene, Methylene chloride, Naphthalene, N-Butylbenzene, N-Propylbenzene, Tetrachloroethene, Tetrahydrofuran, Toluene, Trichloroethene, Vinyl chloride.

Table 9

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

Table with columns for Location, Date, WES PAL QA/QC, and various chemical compounds (Boron, Hardness, Iron, Manganese, Alkalinity, etc.) with values in ug/L, mg/L, and ug/L. Includes rows for MW-18A, MW-18B, MW-18C, and MW-20A/B.

Table 9
 Summary of Detected Compounds
 Former City of Rhinelander Landfill
 Rhinelander, Wisconsin

Location	Date	WES PAL QA/QC	Boron (dissolved)	Hardness, calculation	Iron (dissolved)	Manganese (dissolved)	Alkalinity, total (as CaCO3)	Ammonia	Chloride	Total kjeldahl nitrogen (TKN)	1,1-Dichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichlorobenzene	1,2-Dichloropropane	1,4-Dichlorobenzene	Benzene	Chlorobenzene	Chloromethane (Methyl chloride)	cis-1,2-Dichloroethene	Cymene (p-isopropyltoluene)	Dichlorodifluoromethane (CFC-12)	Isopropyl benzene	m&p-Xylenes	o-Xylene	Methylene chloride	Naphthalene	N-Butylbenzene	N-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Vinyl chloride
			ug/L	mg/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
			1000	--	300	50	--	9.7	250	--	850	480		600	5	75	5	100	30	70	--	1000	--	2000	5	100	--	--	5	50	800	5	0.2	
			200	--	150	25	--	0.97	125	--	85	96		60	0.5	15	0.5	20	3	7	--	200	--	400	0.5	10	--	--	0.5	10	160	0.5	0.02	
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	<1.0	<5.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0
MW-27B	10/23/2018		--	89.6	41.2 J	175	79.7	--	5	--	<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	<5.0	<5.0	<2.4	<5.0	<1.1	<20.0	<5.0	<1.0	<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	<5.0	<5.0	<2.4	<5.0	<1.1	<20.0	<5.0	<1.0	<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	<5.0	<5.0	<2.4	<5.0	<1.1	<20.0	<1.0	<1.0	<1.0
MW-27B	10/05/2021		--	--	--	--	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-27B	10/05/2022		--	--	--	--	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	4.9 J	<1.0	<1.0	<1.0
MW-27B	10/17/2023		--	--	--	--	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<25.0	<1.0	<1.0	<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	<1.0	<5.0	<1.0	<1.0	<1.0	59.3	<1.0	<1.0	2.4
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	<1.0	<5.0	<1.0	<1.0	<1.0	11.3	<1.0	<1.0	<1.0
MW-28A	10/10/2017		210	245	7200	1640	298	--	22.1	--	<1.25	<1.0	<1.0	<1.0	<1.0	0.85 J	0.64 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	19	<1.0	<1.0	1.5
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	<5.0	<5.0	<2.4	<5.0	<1.1	29.4	<5.0	<1.0	1
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	<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		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	<5.0	<5.0	<2.4	<5.0	<1.1	<20.0	<1.0	<1.0	0.51 J
*MW-28A	10/05/2021		--	--	--	--	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.88 J	<1.0	<5.0	<1.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	14.0 J	<1.0	<1.0	1.1
MW-28A	10/05/2022		--	--	--	--	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	1.0	<1.0	<5.0	<1.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	12.2 J	<1.0	<1.0	1.2
MW-28A	10/17/2023		--	--	--	--	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	0.94 J	0.55 J	<1.0	<5.0	<1.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	5.4 J	<1.0	<1.0	1.8

Notes:
 WES - Wisconsin Enforcement Standard
 PAL - Preventative Action Limit
 [Outlined cells] - Outlined cells exceed WES
 ug/L - Micrograms per Liter
 mg/L - Milligrams per Liter
 D - Duplicate Sample
 J - Estimated Concentration, may be biased low
 J - Estimated Concentration
 < 1.0 J - Not detected; associated reporting limit is estimated
 < - Not detected at the associated reporting limit
 * - MW-28A listed as MW-8A on October 2021 Lab Report and Validation Memo (Memo-3).

Appendices

Appendix A

**Surface Water Sampling Laboratory
Reports and Data Validation**

Data Verification Report

16 January 2024

To	Ryan Aamot, GHD	Project No.	11115796
		Email	grant.anderson@ghd.com
From	Grant Anderson/lg/6	Contact No.	612-524-6836
Project Name	Rhinelanders Landfill Site		
Subject	Analytical Results and Data Verification Groundwater and Surface Water Sampling Events Rhinelanders Landfill Site Rhinelanders, Wisconsin April and October 2023		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a data verification of analytical results for groundwater and surface water samples collected in support of the Monitoring Program at the Rhinelanders Landfill Site during April and October 2023. Pace Analytical Services, Inc. (Pace), located in Green Bay, Wisconsin. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS)/matrix spikes (MS) and field 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:

1. "National Functional Guidelines for Organic Superfund Methods Data Review", EPA 540-R-20-005, November 2020
2. "National Functional Guidelines for Inorganic Superfund Methods Data Review", EPA 542-R-20-006, November 2020

Items 1. and 2. will subsequently be referred to as the "Guidelines" in this report.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. With the exception of pH and fecal coliform bacteria

analyses, all samples were analyzed within the required holding times. Table 4 lists outlying holding times. 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). The laboratory reported that headspace (bubble greater than 6mm) was present in the VOC vial associated with MW-2A. As a result, associated sample results are qualified as estimated (see Table 5).

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 1 per 20 investigative samples and/or 1 per analytical batch.

With the exception of chloride, all method blank results were non-detect. Table 6 lists the method blank detection. Associated sample results are qualified as noted in the table.

4. Surrogate Spike Recoveries - Organic Analyses

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

All samples submitted for volatile organic 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 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 and precision.

Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines" using the laboratory control limits. 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 known concentrations of the analytes of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional MS/MSD analyses internally.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits or yielded high recoveries that did not affect non-detect data, 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" using the laboratory control limits. All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7. Field QA/QC Samples

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

Trip Blank Sample Analysis

To evaluate potential 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, one field blank was submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, two field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value.

All field duplicate results met the above criteria demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

Non-detect data were reported down to the laboratory's sample-specific MDL for each analyte. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2.

Non-detect results were presented as non-detect at the RL in Table 2.

9. Conclusion

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

Regards,

A handwritten signature in black ink, appearing to read "Grant Anderson". The signature is fluid and cursive, with a prominent initial "G" and "A".

Grant Anderson
Digital Intelligence - Data Management - Data Validator

Table 1

Sample Collection and Analysis Summary
Groundwater and Surface Water Sampling Events
Rhineland Landfill Site
Rhineland, Wisconsin
April and October 2023

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters										Comments									
					VOC plus THF	Select Metals	Hardness	Chloride	Fecal Coliforms	Ammonia	Total Kjeldahl Nitrogen	Chemical Oxygen Demand	Nitrate/Nitrite	Turbidity		pH								
W-230419-RA-SW-20	SW-20	water	04/19/2023	13:40																				
W-230419-RA-SW-28	SW-28	water	04/19/2023	14:00																				
W-230419-RA-SW-10	SW-10	water	04/19/2023	14:20																				
W-231016-RA-100	SW-20	water	10/16/2023	14:00																				
W-231016-RA-101	SW-28	water	10/16/2023	14:10																				
W-231016-RA-102	SW-10	water	10/16/2023	14:40																				
MW-16A	MW-16A	water	10/16/2023	13:37	x																			
MW-16B	MW-16B	water	10/16/2023	13:47	x																			
MW-16B DUP	MW-16B	water	10/16/2023	00:00	x																			Duplicate (MW-16B)
MW-16C	MW-16C	water	10/16/2023	14:27	x																			
MW-26B	MW-26B	water	10/16/2023	15:23	x																			
MW-26C	MW-26C	water	10/16/2023	15:42	x																			
MW-18B	MW-18B	water	10/16/2023	16:04	x																			
MW-18C	MW-18C	water	10/16/2023	16:22	x																			
MW-18A	MW-18A	water	10/16/2023	16:37	x																			
FIELD BLANK	FIELD BLANK	water	10/16/2023	16:00	x																			Field Blank
MW-25B	MW-25B	water	10/16/2023	16:55	x																			
MW-5A	MW-5A	water	10/16/2023	17:20	x																			

Table 1

Sample Collection and Analysis Summary
Groundwater and Surface Water Sampling Events
Rhineland Landfill Site
Rhineland, Wisconsin
April and October 2023

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters										Comments		
					VOC plus THF	Select Metals	Hardness	Chloride	Fecal Coliforms	Ammonia	Total Kjeldahl Nitrogen	Chemical Oxygen Demand	Nitrate/Nitrite	Turbidity		pH	
MW-4A	MW-4A	water	10/16/2023	17:22	x												
MW-4A DUP	MW-4A	water	10/16/2023	00:00	x												Duplicate (MW-4A)
MW-20A	MW-20A	water	10/17/2023	08:07	x												
MW-20B	MW-20B	water	10/17/2023	08:11	x												MS/MSD
MW-20C	MW-20C	water	10/17/2023	08:26	x												
MW-2A	MW-2A	water	10/17/2023	09:02	x					x	x						
MW-2B	MW-2B	water	10/17/2023	09:10	x												
MW-21A	MW-21A	water	10/17/2023	09:33	x					x	x						
MW-3A	MW-3A	water	10/17/2023	09:57	x					x	x						
MW-27B	MW-27B	water	10/17/2023	10:52	x												
MW-28A	MW-28A	water	10/17/2023	10:40	x												
TRIP BLANK	TRIPBLANK	water	10/17/2023	00:00	x												Trip Blank

Notes:

VOC - Volatile Organic Compounds
Select Metals - Copper, Iron, Lead, Sodium, Zinc
THF - Tetrahydrofuran

Table 2A

**Validated Analytical Results Summary – Groundwater
Groundwater and Surface Water Sampling Events
Rhineland Landfill Site
Rhineland, Wisconsin
April and October 2023**

Location ID:	MW-2A	MW-2B	MW-3A	MW-4A	MW-4A	MW-5A	MW-16A	MW-16B	MW-16B	MW-16C	MW-18A	MW-18B	MW-18C
Sample Name:	MW-2A	MW-2B	MW-3A	MW-4A	MW-4A DUP	MW-5A	MW-16A	MW-16B	MW-16B DUP	MW-16C	MW-18A	MW-18B	MW-18C
Sample Date:	10/17/2023	10/17/2023	10/17/2023	10/16/2023	10/16/2023 Duplicate	10/16/2023	10/16/2023	10/16/2023	10/16/2023 Duplicate	10/16/2023	10/16/2023	10/16/2023	10/16/2023

Parameters	Unit	MW-2A	MW-2B	MW-3A	MW-4A	MW-4A DUP	MW-5A	MW-16A	MW-16B	MW-16B DUP	MW-16C	MW-18A	MW-18B	MW-18C
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	µg/L	1.0 UJ	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 UJ	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 UJ	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	1.0 UJ	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-Dichloroethane	µg/L	1.0 UJ	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-Dichloroethene	µg/L	1.0 UJ	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	1.0 UJ	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
1,2,3-Trichlorobenzene	µg/L	5.0 UJ	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
1,2,3-Trichloropropane	µg/L	1.0 UJ	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
1,2,4-Trichlorobenzene	µg/L	5.0 UJ	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	0.72 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 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 UJ	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-Dibromoethane (Ethylene dibromide)	µg/L	1.0 UJ	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-Dichlorobenzene	µg/L	1.0 UJ	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-Dichloroethane	µg/L	1.0 UJ	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 UJ	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	0.52 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 U
1,3-Dichlorobenzene	µg/L	1.0 UJ	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-Dichloropropane	µg/L	1.0 UJ	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
1,4-Dichlorobenzene	µg/L	1.0 UJ	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
2,2-Dichloropropane	µg/L	1.0 UJ	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
2-Chlorotoluene	µg/L	5.0 UJ	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	1.0 UJ	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
4-Chlorotoluene	µg/L	5.0 UJ	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
Benzene	µg/L	10.4	0.56 J	0.88 J	1.0 U	1.0 U	1.0 U	0.98 J	1.0	0.99 J	0.89 J	1.0 U	1.0 U	1.0 U
Bromobenzene	µg/L	1.0 UJ	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	1.0 UJ	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
Bromoform	µg/L	1.0 UJ	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
Bromomethane (Methyl bromide)	µg/L	5.0 UJ	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	1.0 UJ	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
Chlorobenzene	µg/L	1.0 UJ	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
Chlorobromomethane	µg/L	1.0 UJ	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
Chloroethane	µg/L	5.0 UJ	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 UJ	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	5.0 UJ	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
cis-1,2-Dichloroethene	µg/L	1.0 UJ	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	7.5	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 UJ	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
Cymene (p-Isopropyltoluene)	µg/L	5.0 UJ	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
Dibromochloromethane	µg/L	5.0 UJ	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

Table 2A

**Validated Analytical Results Summary – Groundwater
Groundwater and Surface Water Sampling Events
Rhineland Landfill Site
Rhineland, Wisconsin
April and October 2023**

Location ID:	MW-2A	MW-2B	MW-3A	MW-4A	MW-4A	MW-5A	MW-16A	MW-16B	MW-16B	MW-16C	MW-18A	MW-18B	MW-18C
Sample Name:	MW-2A	MW-2B	MW-3A	MW-4A	MW-4A DUP	MW-5A	MW-16A	MW-16B	MW-16B DUP	MW-16C	MW-18A	MW-18B	MW-18C
Sample Date:	10/17/2023	10/17/2023	10/17/2023	10/16/2023	10/16/2023 Duplicate	10/16/2023	10/16/2023	10/16/2023	10/16/2023 Duplicate	10/16/2023	10/16/2023	10/16/2023	10/16/2023
Parameters	Unit												
Dibromomethane	µg/L	5.0 UJ	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
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 UJ	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	5.0 UJ	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
Ethylbenzene	µg/L	1.0 UJ	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
Hexachlorobutadiene	µg/L	5.0 UJ	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
Isopropyl benzene	µg/L	5.0 UJ	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
m&p-Xylenes	µg/L	1.4 J-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 UJ	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
Methylene chloride	µg/L	5.0 UJ	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	1.0 UJ	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
N-Propylbenzene	µg/L	1.0 UJ	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
Naphthalene	µg/L	3.0 J-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.7 J	5.0 U	5.0 U
o-Xylene	µg/L	1.0 UJ	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
Styrene	µg/L	1.0 UJ	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
tert-Butylbenzene	µg/L	1.0 UJ	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	1.0 UJ	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
Tetrahydrofuran	µg/L	83.9	6.4 J	50.3	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Toluene	µg/L	1.0 UJ	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
trans-1,2-Dichloroethene	µg/L	1.0 UJ	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
trans-1,3-Dichloropropene	µg/L	1.0 UJ	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
Trichloroethene	µg/L	1.0 UJ	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	5.5	0.76 J
Trichlorofluoromethane (CFC-11)	µg/L	1.0 UJ	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 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
General Chemistry													
Ammonia-N	mg/L	172	--	76.0	--	--	--	--	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	145	--	60.4	--	--	--	--	--	--	--	--	--

Table 2A

**Validated Analytical Results Summary – Groundwater
Groundwater and Surface Water Sampling Events
Rhineland Landfill Site
Rhineland, Wisconsin
April and October 2023**

Location ID:	MW-20A	MW-20B	MW-20C	MW-21A	MW-25B	MW-26B	MW-26C	MW-27B	MW-28A
Sample Name:	MW-20A	MW-20B	MW-20C	MW-21A	MW-25B	MW-26B	MW-26C	MW-27B	MW-28A
Sample Date:	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/16/2023	10/16/2023	10/16/2023	10/17/2023	10/17/2023

Parameters	Unit									
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	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-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.36 J	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-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	28.0	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	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-Dibromoethane (Ethylene dibromide)	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-Dichlorobenzene	µg/L	1.0	1.0 U	0.37 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	6.1	1.0 U	1.0 U	0.52 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-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
1,4-Dichlorobenzene	µg/L	2.7	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	0.94 J
2,2-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
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	0.70 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
4-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
Benzene	µg/L	2.1	0.66 J	1.0	1.7	1.0 U	1.0 U	0.75 J	1.0 U	0.55 J
Bromobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	11.0	1.0 U	1.5	2.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobromomethane	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
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	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
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cymene (p-Isopropyltoluene)	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
Dibromochloromethane	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

Table 2A

**Validated Analytical Results Summary – Groundwater
Groundwater and Surface Water Sampling Events
Rhineland Landfill Site
Rhineland, Wisconsin
April and October 2023**

Location ID:	MW-20A	MW-20B	MW-20C	MW-21A	MW-25B	MW-26B	MW-26C	MW-27B	MW-28A
Sample Name:	MW-20A	MW-20B	MW-20C	MW-21A	MW-25B	MW-26B	MW-26C	MW-27B	MW-28A
Sample Date:	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/16/2023	10/16/2023	10/16/2023	10/17/2023	10/17/2023

Parameters	Unit									
Dibromomethane	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
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	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
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropyl benzene	µg/L	5.0 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
m&p-Xylenes	µg/L	86.1	2.0 U	2.0 U	4.7	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-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
N-Propylbenzene	µg/L	3.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	µg/L	23.9	6.5	4.8 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	µg/L	1.4	1.0 U	1.0 U	0.86 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	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
tert-Butylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrahydrofuran	µg/L	17.5 J	25.0 U	25.0 U	152	25.0 U	25.0 U	25.0 U	25.0 U	5.4 J
Toluene	µg/L	0.40 J	1.0 U	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	0.32 J	1.0 U	1.0 U	0.66 J	1.4	4.7	1.0 U	1.8
General Chemistry										
Ammonia-N	mg/L	--	--	--	274	--	--	--	--	--
Total kjeldahl nitrogen (TKN)	mg/L	--	--	--	213	--	--	--	--	--

Notes:
 U - Not detected at the associated reporting limit
 UJ - Not detected; associated reporting limit is estimated
 J - Estimated concentration
 J+ - Estimated concentration; result may be biased high

Table 2B

Validated Analytical Results Summary – Surface Water
 Groundwater and Surface Water Sampling Events
 Rhinelander Landfill Site
 Rhinelander, Wisconsin
 April and October 2023

Location ID: Sample Name: Sample Date:		SW-10 W-230419-RA-SW-10 04/19/2023	SW-10 W-231016-RA-102 10/16/2023	SW-20 W-230419-RA-SW-20 04/19/2023	SW-20 W-231016-RA-100 10/16/2023	SW-28 W-230419-RA-SW-28 04/19/2023	SW-28 W-231016-RA-101 10/16/2023
Parameters	Unit						
Metals							
Hardness, calculation	mg/L	39.3	87.2	26.4	133	25.9	393
Copper	µg/L	27.7	10.0 U	7.6 J	10.0 U	10.0 U	10.0 U
Iron	µg/L	5060	4420	3500	4030	1150	11900
Lead	µg/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Sodium	µg/L	28800	33300	5190	41000	6260	53400
Zinc	µg/L	29.2 J	40.0 U	25.3 J	40.0 U	18.1 J	40.0 U
General Chemistry							
Fecal coliform bacteria	cfu/100mL	16.7 UJ	24.0 J	16.7 UJ	28.6 J	16.7 UJ	28.0 J
Ammonia-N	mg/L	0.50 U	0.50 U	0.16 J	1.5	0.24 J	153
Chemical oxygen demand (COD)	mg/L	51.7	50.0 U	51.7	50.0 U	39.0 J	60.2
Chloride	mg/L	61.3	68.1	10.6 J+	104	14.2 J+	35.1
Nitrite/Nitrate	mg/L	0.51	0.12 J	0.68	0.28	0.77	1.4
Total kjeldahl nitrogen (TKN)	mg/L	--	0.87 J	--	1.8	--	113
Turbidity	NTU	18.0	15.0	10.0	21.0	5.5	95.0
pH (@ 25C)	s.u.	6.6 J	--	6.3 J	--	6.5 J	--

Notes:

- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated
- J - Estimated concentration
- J- - Estimated concentration; result may be biased low

Table 3

Analytical Methods
Groundwater and Surface Water Sampling Events
Rhineland Landfill Site
Rhineland, Wisconsin
April and October 2023

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (days)	Collection or Extraction to Analysis (days)
VOC plus THF	SW-846 8260	Water	-	14
Select Metals	SW-846 6010D	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
Turbidity	EPA 180.1	Water	-	48 hours
pH	EPA 9040	Water	-	15 min.

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

SM - "Standard Methods For the Examination of Water and Wastewater"

EPA - "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions

Table 4

**Qualified Sample Results Due to Holding Time Exceedance
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill Site
Rhinelanders, Wisconsin
April and October 2023**

Parameter	Sample ID	Holding Time (hours)	Holding Time Criteria (hours)	Analyte	Qualified Sample Results	Units
Fecal coliform bacteria	W-230419-RA-SW-20	24	6	Fecal coliform bacteria	16.7 UJ	cfu/100mL
	W-230419-RA-SW-28	23	6	Fecal coliform bacteria	16.7 UJ	cfu/100mL
	W-230419-RA-SW-10	23	6	Fecal coliform bacteria	16.7 UJ	cfu/100mL
	W-231016-RA-100	24	6	Fecal coliform bacteria	28.6 J	cfu/100mL
	W-231016-RA-101	24	6	Fecal coliform bacteria	28.0 J	cfu/100mL
	W-231016-RA-102	24	6	Fecal coliform bacteria	24.0 J	cfu/100mL
General Chemistry	W-230419-RA-SW-20	5 days	15 min.	pH (@ 25C)	6.3 J	s.u.
	W-230419-RA-SW-28	5 days	15 min.	pH (@ 25C)	6.5 J	s.u.
	W-230419-RA-SW-10	5 days	15 min.	pH (@ 25C)	6.6 J	s.u.

Notes:

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

Table 5

**Qualified Sample Data Due to Headspace in VOC Vial
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill Site
Rhinelanders, Wisconsin
April and October 2023**

Parameter	Sample ID	Headspace	Required Headspace	Analyte	Qualified Result	Units
VOC	MW-2A	> 6mm	< 6 mm	1,1,1,2-Tetrachloroethane	1.0 UJ	ug/L
				1,1,1-Trichloroethane	1.0 UJ	ug/L
				1,1,2,2-Tetrachloroethane	1.0 UJ	ug/L
				1,1,2-Trichloroethane	1.0 UJ	ug/L
				1,1-Dichloroethane	1.0 UJ	ug/L
				1,1-Dichloroethene	1.0 UJ	ug/L
				1,1-Dichloropropene	1.0 UJ	ug/L
				1,2,3-Trichlorobenzene	5.0 UJ	ug/L
				1,2,3-Trichloropropane	1.0 UJ	ug/L
				1,2,4-Trichlorobenzene	5.0 UJ	ug/L
				1,2,4-Trimethylbenzene	0.72 J-	ug/L
				1,2-Dibromo-3-chloropropane (DBCP)	5.0 UJ	ug/L
				1,2-Dibromoethane (Ethylene dibromide)	1.0 UJ	ug/L
				1,2-Dichlorobenzene	1.0 UJ	ug/L
				1,2-Dichloroethane	1.0 UJ	ug/L
				1,2-Dichloropropane	1.0 UJ	ug/L
				1,3,5-Trimethylbenzene	0.52 J-	ug/L
				1,3-Dichlorobenzene	1.0 UJ	ug/L
				1,3-Dichloropropane	1.0 UJ	ug/L
				1,4-Dichlorobenzene	1.0 UJ	ug/L
				2,2-Dichloropropane	1.0 UJ	ug/L
				2-Chlorotoluene	5.0 UJ	ug/L
				2-Phenylbutane (sec-Butylbenzene)	1.0 UJ	ug/L
				4-Chlorotoluene	5.0 UJ	ug/L
				Bromobenzene	1.0 UJ	ug/L
				Bromodichloromethane	1.0 UJ	ug/L
				Bromoform	1.0 UJ	ug/L
Bromomethane (Methyl bromide)	5.0 UJ	ug/L				

Table 5

**Qualified Sample Data Due to Headspace in VOC Vial
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill Site
Rhinelanders, Wisconsin
April and October 2023**

Parameter	Sample ID	Headspace	Required Headspace	Analyte	Qualified Result	Units
				Carbon tetrachloride	1.0 UJ	ug/L
				Chlorobenzene	1.0 UJ	ug/L
				Chlorobromomethane	1.0 UJ	ug/L
				Chloroethane	5.0 UJ	ug/L
				Chloroform (Trichloromethane)	5.0 UJ	ug/L
				Chloromethane (Methyl chloride)	5.0 UJ	ug/L
				cis-1,2-Dichloroethene	1.0 UJ	ug/L
				cis-1,3-Dichloropropene	1.0 UJ	ug/L
				Cymene (p-Isopropyltoluene)	5.0 UJ	ug/L
				Dibromochloromethane	5.0 UJ	ug/L
				Dibromomethane	5.0 UJ	ug/L
				Dichlorodifluoromethane (CFC-12)	5.0 UJ	ug/L
				Diisopropyl ether	5.0 UJ	ug/L
				Ethylbenzene	1.0 UJ	ug/L
				Hexachlorobutadiene	5.0 UJ	ug/L
				Isopropyl benzene	5.0 UJ	ug/L
				m&p-Xylenes	1.4 J-	ug/L
				Methyl tert butyl ether (MTBE)	5.0 UJ	ug/L
				Methylene chloride	5.0 UJ	ug/L
				N-Butylbenzene	1.0 UJ	ug/L
				N-Propylbenzene	1.0 UJ	ug/L
				Naphthalene	3.0 J-	ug/L
				o-Xylene	1.0 UJ	ug/L
				Styrene	1.0 UJ	ug/L
				tert-Butylbenzene	1.0 UJ	ug/L
				Tetrachloroethene	1.0 UJ	ug/L
				Toluene	1.0 UJ	ug/L
				trans-1,2-Dichloroethene	1.0 UJ	ug/L

Table 5

**Qualified Sample Data Due to Headspace in VOC Vial
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill Site
Rhinelanders, Wisconsin
April and October 2023**

Parameter	Sample ID	Headspace	Required Headspace	Analyte	Qualified Result	Units
				trans-1,3-Dichloropropene	1.0 UJ	ug/L
				Trichloroethene	1.0 UJ	ug/L
				Trichlorofluoromethane (CFC-11)	1.0 UJ	ug/L
				Vinyl chloride	1.0 UJ	ug/L

Notes:

- J- - Estimated concentration; result may be biased low
- UJ - Not detected; associated reporting limit is estimated
- VOC - Volatile Organic Compounds

Table 6

**Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Groundwater and Surface Water Sampling Events
Rhinelanders Landfill Site
Rhinelanders, Wisconsin
April and October 2023**

Parameter	Analyte	Analysis Batch	Blank Result *	Sample ID	Original Result	Qualified Result	Units
General Chemistry	Chloride	443551	0.86J	W-230419-RA-SW-20	10.6	10.6 J+	mg/L
				W-230419-RA-SW-28	14.2	14.2 J+	mg/L

Notes:

- * - Blank result adjusted for sample factors where applicable
- J+ - Estimated concentration; result may be biased high

May 01, 2023

Grant Anderson
GHD Services
900 Long Lake Road
Suite 200
New Brighton, MN 55112

RE: Project: 11115796 RHINELANDER LF
Pace Project No.: 40260996

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2023. 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40260996

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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 11115796 RHINELANDER LF

Pace Project No.: 40260996

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40260996001	W-230419-RA-SW-20	Water	04/19/23 13:40	04/20/23 09:05
40260996002	W-230419-RA-SW-28	Water	04/19/23 14:00	04/20/23 09:05
40260996003	W-230419-RA-SW-10	Water	04/19/23 14:20	04/20/23 09:05

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40260996

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40260996001	W-230419-RA-SW-20	EPA 6010D	SIS	6
		SM 9222D	EXM	1
		EPA 180.1	HNT	1
		EPA 9040	YER	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 353.2	MT	1
		EPA 410.4	TJJ	1
40260996002	W-230419-RA-SW-28	EPA 6010D	SIS	6
		SM 9222D	EXM	1
		EPA 180.1	HNT	1
		EPA 9040	YER	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 353.2	MT	1
		EPA 410.4	TJJ	1
40260996003	W-230419-RA-SW-10	EPA 6010D	SIS	6
		SM 9222D	EXM	1
		EPA 180.1	HNT	1
		EPA 9040	YER	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 353.2	MT	1
		EPA 410.4	TJJ	1

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40260996

Sample: W-230419-RA-SW-20 **Lab ID: 40260996001** Collected: 04/19/23 13:40 Received: 04/20/23 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Copper	7.6J	ug/L	10.0	3.4	1	04/25/23 06:56	04/25/23 22:01	7440-50-8	
Iron	3500	ug/L	100	56.7	1	04/25/23 06:56	04/25/23 22:01	7439-89-6	
Lead	<5.9	ug/L	20.0	5.9	1	04/25/23 06:56	04/25/23 22:01	7439-92-1	
Sodium	5190	ug/L	500	350	1	04/25/23 06:56	04/25/23 22:01	7440-23-5	
Total Hardness by 2340B	26.4	mg/L	5.4	1.0	1	04/25/23 06:56	04/25/23 22:01		
Zinc	25.3J	ug/L	40.0	11.6	1	04/25/23 06:56	04/25/23 22:01	7440-66-6	
9222D MICRO Fecal Coli by MF									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Green Bay									
Fecal Coliforms	<16.7	CFU/100 mL	16.7	16.7	16.7	04/20/23 13:15	04/20/23 13:15		H3
180.1 Turbidity									
Analytical Method: EPA 180.1 Pace Analytical Services - Green Bay									
Turbidity	10.0	NTU	1.0	1.0	1		04/21/23 10:18		
9040 pH									
Analytical Method: EPA 9040 Pace Analytical Services - Green Bay									
pH at 25 Degrees C	6.3	Std. Units	0.10	0.010	1		04/24/23 07:48		H6
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	10.6	mg/L	10.0	2.2	5		04/29/23 18:54	16887-00-6	B
350.1 Ammonia, Distilled									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1 Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	0.16J	mg/L	0.50	0.14	1	04/26/23 22:41	04/27/23 00:18	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.68	mg/L	0.25	0.059	1		04/25/23 14:22		
410.4 COD									
Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay									
Chemical Oxygen Demand	51.7	mg/L	50.0	14.7	1	04/24/23 02:52	04/24/23 08:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40260996

Sample: W-230419-RA-SW-28 **Lab ID: 40260996002** Collected: 04/19/23 14:00 Received: 04/20/23 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	04/25/23 06:56	04/25/23 22:03	7440-50-8	
Iron	1150	ug/L	100	56.7	1	04/25/23 06:56	04/25/23 22:03	7439-89-6	
Lead	<5.9	ug/L	20.0	5.9	1	04/25/23 06:56	04/25/23 22:03	7439-92-1	
Sodium	6260	ug/L	500	350	1	04/25/23 06:56	04/25/23 22:03	7440-23-5	
Total Hardness by 2340B	25.9	mg/L	5.4	1.0	1	04/25/23 06:56	04/25/23 22:03		
Zinc	18.1J	ug/L	40.0	11.6	1	04/25/23 06:56	04/25/23 22:03	7440-66-6	
9222D MICRO Fecal Coli by MF									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Green Bay									
Fecal Coliforms	<16.7	CFU/100 mL	16.7	16.7	16.7	04/20/23 13:15	04/20/23 13:15		H3
180.1 Turbidity									
Analytical Method: EPA 180.1 Pace Analytical Services - Green Bay									
Turbidity	5.5	NTU	1.0	1.0	1		04/21/23 10:21		
9040 pH									
Analytical Method: EPA 9040 Pace Analytical Services - Green Bay									
pH at 25 Degrees C	6.5	Std. Units	0.10	0.010	1		04/24/23 07:58		H6
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	14.2	mg/L	10.0	2.2	5		04/29/23 19:07	16887-00-6	B
350.1 Ammonia, Distilled									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1 Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	0.24J	mg/L	0.50	0.14	1	04/26/23 22:41	04/27/23 00:19	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.77	mg/L	0.25	0.059	1		04/25/23 14:22		
410.4 COD									
Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay									
Chemical Oxygen Demand	39.0J	mg/L	50.0	14.7	1	04/24/23 02:52	04/24/23 08:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40260996

Sample: W-230419-RA-SW-10 **Lab ID: 40260996003** Collected: 04/19/23 14:20 Received: 04/20/23 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Copper	27.7	ug/L	10.0	3.4	1	04/25/23 06:56	04/25/23 22:05	7440-50-8	
Iron	5060	ug/L	100	56.7	1	04/25/23 06:56	04/25/23 22:05	7439-89-6	
Lead	<5.9	ug/L	20.0	5.9	1	04/25/23 06:56	04/25/23 22:05	7439-92-1	
Sodium	28800	ug/L	500	350	1	04/25/23 06:56	04/25/23 22:05	7440-23-5	
Total Hardness by 2340B	39.3	mg/L	5.4	1.0	1	04/25/23 06:56	04/25/23 22:05		
Zinc	29.2J	ug/L	40.0	11.6	1	04/25/23 06:56	04/25/23 22:05	7440-66-6	
9222D MICRO Fecal Coli by MF									
Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - Green Bay									
Fecal Coliforms	<16.7	CFU/100 mL	16.7	16.7	16.7	04/20/23 13:15	04/20/23 13:15		H3
180.1 Turbidity									
Analytical Method: EPA 180.1 Pace Analytical Services - Green Bay									
Turbidity	18.0	NTU	1.0	1.0	1		04/21/23 10:21		
9040 pH									
Analytical Method: EPA 9040 Pace Analytical Services - Green Bay									
pH at 25 Degrees C	6.6	Std. Units	0.10	0.010	1		04/24/23 08:06		H6
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	61.3	mg/L	10.0	2.2	5		04/29/23 19:59	16887-00-6	
350.1 Ammonia, Distilled									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1 Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	<0.14	mg/L	0.50	0.14	1	04/26/23 22:41	04/27/23 00:20	7664-41-7	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.51	mg/L	0.25	0.059	1		04/25/23 14:23		
410.4 COD									
Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay									
Chemical Oxygen Demand	51.7	mg/L	50.0	14.7	1	04/24/23 02:52	04/24/23 08:08		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40260996

QC Batch: 443251 Analysis Method: SM 9222D
QC Batch Method: SM 9222D Analysis Description: 9222D MICRO Fecal Coliform by MF
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260996001, 40260996002, 40260996003

METHOD BLANK: 2542761 Matrix: Water
Associated Lab Samples: 40260996001, 40260996002, 40260996003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	04/20/23 13:15	

METHOD BLANK: 2542763 Matrix: Water
Associated Lab Samples: 40260996001, 40260996002, 40260996003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	04/20/23 13:15	

SAMPLE DUPLICATE: 2542762

Parameter	Units	40260996001 Result	Dup Result	RPD	Max RPD	Qualifiers
Fecal Coliforms	CFU/100 mL	<16.7	<16.7			

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40260996

QC Batch: 443173	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D MET
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40260996001, 40260996002, 40260996003

METHOD BLANK: 2544590 Matrix: Water

Associated Lab Samples: 40260996001, 40260996002, 40260996003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<3.4	10.0	04/25/23 21:38	
Iron	ug/L	<56.7	100	04/25/23 21:38	
Lead	ug/L	<5.9	20.0	04/25/23 21:38	
Sodium	ug/L	<350	500	04/25/23 21:38	
Total Hardness by 2340B	mg/L	<1.0	5.4	04/25/23 21:38	
Zinc	ug/L	<11.6	40.0	04/25/23 21:38	

LABORATORY CONTROL SAMPLE: 2544591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	250	253	101	80-120	
Iron	ug/L	10000	10200	102	80-120	
Lead	ug/L	250	260	104	80-120	
Sodium	ug/L	10000	10300	103	80-120	
Total Hardness by 2340B	mg/L		68.4			
Zinc	ug/L	250	256	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2544592 2544593

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40261076001 Result	Spike Conc.	Spike Conc.	MS Result						
Copper	ug/L	11.4	250	250	263	257	101	98	75-125	2	20
Iron	ug/L	344	10000	10000	10500	10200	101	98	75-125	3	20
Lead	ug/L	<5.9	250	250	260	250	103	99	75-125	4	20
Sodium	ug/L	18500	10000	10000	28800	27900	103	94	75-125	3	20
Total Hardness by 2340B	mg/L	356			428	418				2	20
Zinc	ug/L	<11.6	250	250	256	250	98	96	75-125	2	20

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40260996

QC Batch: 442974

Analysis Method: EPA 180.1

QC Batch Method: EPA 180.1

Analysis Description: 180.1 Turbidity

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40260996001, 40260996002, 40260996003

METHOD BLANK: 2543358

Matrix: Water

Associated Lab Samples: 40260996001, 40260996002, 40260996003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	04/21/23 10:17	

LABORATORY CONTROL SAMPLE: 2543359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	506	500	99	90-110	

SAMPLE DUPLICATE: 2543360

Parameter	Units	40260996001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	10.0	11.0	10	10	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40260996

QC Batch: 443038

Analysis Method: EPA 9040

QC Batch Method: EPA 9040

Analysis Description: 9040 pH

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40260996001, 40260996002, 40260996003

SAMPLE DUPLICATE: 2544115

Parameter	Units	40260996001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.3	6.3	1	20	H6

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40260996

QC Batch: 443551	Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40260996001, 40260996002, 40260996003

METHOD BLANK: 2546705 Matrix: Water
Associated Lab Samples: 40260996001, 40260996002, 40260996003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.86J	2.0	04/29/23 14:50	

LABORATORY CONTROL SAMPLE: 2546706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2546707 2546708

Parameter	Units	40260973001		40260973001		40260973001		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	445	400	400	400	818	827	93	96	90-110	1	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2546709 2546710

Parameter	Units	40261037001		40261037001		40261037001		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	275	400	400	400	670	670	99	99	90-110	0	15

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40260996

QC Batch: 443372 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260996001, 40260996002, 40260996003

METHOD BLANK: 2545782 Matrix: Water
Associated Lab Samples: 40260996001, 40260996002, 40260996003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.14	0.50	04/26/23 23:57	

LABORATORY CONTROL SAMPLE: 2545783

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: 2545784 2545785

Parameter	Units	40260978001		2545784		2545785		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Nitrogen, Ammonia	mg/L	2.0	10	10	12.1	12.2	102	102	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2545786 2545787

Parameter	Units	40261018001		2545786		2545787		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.1	10.0	101	100	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40260996

QC Batch: 443197 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260996001, 40260996002, 40260996003

METHOD BLANK: 2544665 Matrix: Water
Associated Lab Samples: 40260996001, 40260996002, 40260996003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	04/25/23 14:04	

LABORATORY CONTROL SAMPLE: 2544666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2544667 2544668

Parameter	Units	40260971001		2544668		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Nitrogen, NO2 plus NO3	mg/L	5.3	12.5	17.2	17.8	95	100	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2544669 2544670

Parameter	Units	40260996003		2544670		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Nitrogen, NO2 plus NO3	mg/L	0.51	2.5	2.8	2.9	93	96	90-110	3	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40260996

QC Batch: 443034

Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4

Analysis Description: 410.4 COD

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40260996001, 40260996002, 40260996003

METHOD BLANK: 2544093

Matrix: Water

Associated Lab Samples: 40260996001, 40260996002, 40260996003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<14.7	50.0	04/24/23 08:07	

LABORATORY CONTROL SAMPLE: 2544094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	484	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2544095 2544096

Parameter	Units	40261033001		2544096		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chemical Oxygen Demand	mg/L	<15.5	526	525	526	98	97	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2544097 2544098

Parameter	Units	40261033002		2544098		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chemical Oxygen Demand	mg/L	<15.5	526	521	526	97	95	90-110	3	10	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40260996

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

B Analyte was detected in the associated method blank.

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

H6 Analysis initiated outside of the 15 minute EPA required holding time.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40260996

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40260996001	W-230419-RA-SW-20	EPA 3010A	443173	EPA 6010D	443266
40260996002	W-230419-RA-SW-28	EPA 3010A	443173	EPA 6010D	443266
40260996003	W-230419-RA-SW-10	EPA 3010A	443173	EPA 6010D	443266
40260996001	W-230419-RA-SW-20	SM 9222D	442885	SM 9222D	443251
40260996002	W-230419-RA-SW-28	SM 9222D	442885	SM 9222D	443251
40260996003	W-230419-RA-SW-10	SM 9222D	442885	SM 9222D	443251
40260996001	W-230419-RA-SW-20	EPA 180.1	442974		
40260996002	W-230419-RA-SW-28	EPA 180.1	442974		
40260996003	W-230419-RA-SW-10	EPA 180.1	442974		
40260996001	W-230419-RA-SW-20	EPA 9040	443038		
40260996002	W-230419-RA-SW-28	EPA 9040	443038		
40260996003	W-230419-RA-SW-10	EPA 9040	443038		
40260996001	W-230419-RA-SW-20	EPA 300.0	443551		
40260996002	W-230419-RA-SW-28	EPA 300.0	443551		
40260996003	W-230419-RA-SW-10	EPA 300.0	443551		
40260996001	W-230419-RA-SW-20	EPA 350.1	443372	EPA 350.1	443376
40260996002	W-230419-RA-SW-28	EPA 350.1	443372	EPA 350.1	443376
40260996003	W-230419-RA-SW-10	EPA 350.1	443372	EPA 350.1	443376
40260996001	W-230419-RA-SW-20	EPA 353.2	443197		
40260996002	W-230419-RA-SW-28	EPA 353.2	443197		
40260996003	W-230419-RA-SW-10	EPA 353.2	443197		
40260996001	W-230419-RA-SW-20	EPA 410.4	443034	EPA 410.4	443049
40260996002	W-230419-RA-SW-28	EPA 410.4	443034	EPA 410.4	443049
40260996003	W-230419-RA-SW-10	EPA 410.4	443034	EPA 410.4	443049

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40260996

ALL SHADED AREAS are for LAB USE ONLY

Company: **GHD** Billing Information: **GHD**

Address: **900 Long Lake Rd**

Report To: **Grant Anderson** Email To: **Grant.Anderson@GHD.com**

Copy To: Site Collection Info/Address: **Rhinelander**

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: **Rhinelander LF 1115796** State: **WI** County/City: **WI** Time Zone Collected: [] PT [] MT [] CT [] ET

Phone: Site/Facility ID #: Compliance Monitoring? [] Yes [] No

Email: Purchase Order #: DW PWS ID #: Quote #: DW Location Code:

Collected By (print): **Ryan Amst** Turnaround Date Required: **Standard** Immediately Packed on Ice: [] Yes [] No

Collected By (signature): *[Signature]* Field Filtered (if applicable): [] Yes [] No

Sample Disposal: Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day Analysis: [] Hold: (Expedite Charges Apply)

Analyses										Lab Profile/Line:
										Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____ LAB USE ONLY: Lab Sample # / Comments:
										<i>[Handwritten: Fecal, Ammonia, CO2, N+V, Chloride, pH, T-crebity, Metals + Hardness (Cu, Fe, Pb, Na, Zn)]</i>

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
W-230419-PA-SW-20	GL	6	4/19	1340				4
W-230419-PA-SW-28	GL	6	4/19	1400				4
W-230419-PA-SW-10	GL	6	4/19	1420				4

Customer Remarks / Special Conditions / Possible Hazards. Type of Ice Used: Wet Blue Dry None

Packing Material Used: *[Handwritten: 1]*

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: **2830299**

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: _____ oC
 Cooler 1 Therm Corr. Factor: _____ oC
 Cooler 1 Corrected Temp: _____ oC
 Comments:

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **4/19/23 1450** Received by/Company: (Signature) _____ Date/Time: _____

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **4/20/23 0905** Received by/Company: (Signature) *[Signature]* Date/Time: **4/20/23 0905**

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____ Date/Time: _____

MTJL LAB USE ONLY

Table #: _____

Acctnum: _____

Template: _____

Prelogin: _____

PM: _____

PB: _____

Trip Blank Received: Y N NA
 HCL MeOH TSP Other

Non Conformance(s): Page 18 of 20
 YES / NO of: _____

Client Name: GHD

Sample Preservation Receipt Form

Project #

40260996

All containers needing preservation have been checked and noted below

Yes

No

N/A

Initial when completed: JL

Date/Time:

Lab Lot# of pH paper: 000702

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	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU								SP5T	ZPLC	GN 1	GN 2				
001																																						2.5 / 5
002																																						2.5 / 5
003																																						2.5 / 5
004																																						2.5 / 5
005																																						2.5 / 5
006																																						2.5 / 5
007																																						2.5 / 5
008																																						2.5 / 5
009																																						2.5 / 5
010																																						2.5 / 5
011																																						2.5 / 5
012																																						2.5 / 5
013																																						2.5 / 5
014																																						2.5 / 5
015																																						2.5 / 5
016																																						2.5 / 5
017																																						2.5 / 5
018																																						2.5 / 5
019																																						2.5 / 5
020																																						2.5 / 5

4/20/22
JL

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: GHD

WO#: **40260996**

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



Tracking #: 5092 4927 7516

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 - 9 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr: 0.5 /Corr. 1.5

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

Person examining contents:
 Date: 4/20/23 Initials: SL
 Labeled By Initials: mlt

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>no mms</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>4/20/23 SL</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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



October 31, 2023

Grant Anderson
GHD Services
900 Long Lake Road
Suite 200
New Brighton, MN 55112

RE: Project: 11115796 RHINELANDER LF
Pace Project No.: 40269634

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2023. 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 11115796 RHINELANDER LF
Pace Project No.: 40269634

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40269634001	W-231016-RA-100	Water	10/16/23 14:00	10/17/23 09:40
40269634002	W-231016-RA-101	Water	10/16/23 14:10	10/17/23 09:40
40269634003	W-231016-RA-102	Water	10/16/23 14:40	10/17/23 09:40

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40269634001	W-231016-RA-100	EPA 6010D	SIS	6
		SM 9222D	HNT	1
		EPA 180.1	HNT	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 353.2	MT	1
		EPA 410.4	TJJ	1
40269634002	W-231016-RA-101	EPA 6010D	SIS	6
		SM 9222D	HNT	1
		EPA 180.1	HNT	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 353.2	MT	1
		EPA 410.4	TJJ	1
40269634003	W-231016-RA-102	EPA 6010D	SIS	6
		SM 9222D	HNT	1
		EPA 180.1	HNT	1
		EPA 300.0	HMB	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 353.2	MT	1
		EPA 410.4	TJJ	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

Sample: W-231016-RA-100 Lab ID: 40269634001 Collected: 10/16/23 14:00 Received: 10/17/23 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/18/23 13:12	10/20/23 14:25	7440-50-8	
Iron	4030	ug/L	100	56.7	1	10/18/23 13:12	10/20/23 14:25	7439-89-6	
Lead	<5.9	ug/L	20.0	5.9	1	10/18/23 13:12	10/20/23 14:25	7439-92-1	
Sodium	41000	ug/L	500	350	1	10/18/23 13:12	10/20/23 14:25	7440-23-5	
Total Hardness by 2340B	133	mg/L	5.4	1.0	1	10/18/23 13:12	10/20/23 14:25		
Zinc	<11.6	ug/L	40.0	11.6	1	10/18/23 13:12	10/20/23 14:25	7440-66-6	
9222D MICRO Fecal Coli by MF									
Analytical Method: SM 9222D Preparation Method: SM 9222D									
Pace Analytical Services - Green Bay									
Fecal Coliforms	28.6	CFU/100 mL	2.9	2.9	2.86	10/17/23 14:13	10/17/23 14:13		H3
180.1 Turbidity									
Analytical Method: EPA 180.1									
Pace Analytical Services - Green Bay									
Turbidity	21.0	NTU	1.0	1.0	1		10/17/23 11:50		
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	104	mg/L	10.0	3.0	5		10/30/23 11:37	16887-00-6	
350.1 Ammonia, Distilled									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1									
Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	1.5	mg/L	0.50	0.14	1	10/23/23 19:53	10/23/23 20:33	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	10/24/23 19:57	10/25/23 00:47	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.28	mg/L	0.25	0.059	1		10/23/23 14:31		
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	10/26/23 04:31	10/26/23 08:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

Sample: W-231016-RA-101 **Lab ID: 40269634002** Collected: 10/16/23 14:10 Received: 10/17/23 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/18/23 13:12	10/20/23 14:27	7440-50-8	
Iron	11900	ug/L	100	56.7	1	10/18/23 13:12	10/20/23 14:27	7439-89-6	
Lead	<5.9	ug/L	20.0	5.9	1	10/18/23 13:12	10/20/23 14:27	7439-92-1	
Sodium	53400	ug/L	500	350	1	10/18/23 13:12	10/20/23 14:27	7440-23-5	
Total Hardness by 2340B	393	mg/L	5.4	1.0	1	10/18/23 13:12	10/20/23 14:27		
Zinc	<11.6	ug/L	40.0	11.6	1	10/18/23 13:12	10/20/23 14:27	7440-66-6	
9222D MICRO Fecal Coli by MF									
Analytical Method: SM 9222D Preparation Method: SM 9222D									
Pace Analytical Services - Green Bay									
Fecal Coliforms	28.0	CFU/100 mL	2.0	2.0	2	10/17/23 14:13	10/17/23 14:13		H3
180.1 Turbidity									
Analytical Method: EPA 180.1									
Pace Analytical Services - Green Bay									
Turbidity	95.0	NTU	6.0	6.0	6		10/17/23 12:35		
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	35.1	mg/L	2.0	0.59	1		10/28/23 16:31	16887-00-6	
350.1 Ammonia, Distilled									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1									
Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	153	mg/L	10.0	2.9	20	10/23/23 19:53	10/23/23 22:24	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	113	mg/L	20.0	4.2	20	10/24/23 19:57	10/25/23 01:53	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	1.4	mg/L	0.25	0.059	1		10/23/23 14:32		
410.4 COD									
Analytical Method: EPA 410.4 Preparation Method: EPA 410.4									
Pace Analytical Services - Green Bay									
Chemical Oxygen Demand	60.2	mg/L	50.0	14.7	1	10/26/23 04:31	10/26/23 08:29		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

Sample: W-231016-RA-102 **Lab ID: 40269634003** Collected: 10/16/23 14:40 Received: 10/17/23 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/18/23 13:12	10/20/23 14:28	7440-50-8	
Iron	4420	ug/L	100	56.7	1	10/18/23 13:12	10/20/23 14:28	7439-89-6	
Lead	<5.9	ug/L	20.0	5.9	1	10/18/23 13:12	10/20/23 14:28	7439-92-1	
Sodium	33300	ug/L	500	350	1	10/18/23 13:12	10/20/23 14:28	7440-23-5	
Total Hardness by 2340B	87.2	mg/L	5.4	1.0	1	10/18/23 13:12	10/20/23 14:28		
Zinc	<11.6	ug/L	40.0	11.6	1	10/18/23 13:12	10/20/23 14:28	7440-66-6	
9222D MICRO Fecal Coli by MF									
Analytical Method: SM 9222D Preparation Method: SM 9222D									
Pace Analytical Services - Green Bay									
Fecal Coliforms	24.0	CFU/100 mL	2.0	2.0	2	10/17/23 14:13	10/17/23 14:13		H3
180.1 Turbidity									
Analytical Method: EPA 180.1									
Pace Analytical Services - Green Bay									
Turbidity	15.0	NTU	1.0	1.0	1		10/17/23 12:38		
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	68.1	mg/L	10.0	3.0	5		10/30/23 12:20	16887-00-6	
350.1 Ammonia, Distilled									
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1									
Pace Analytical Services - Green Bay									
Nitrogen, Ammonia	<0.14	mg/L	0.50	0.14	1	10/23/23 19:53	10/23/23 20:36	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	0.87J	mg/L	1.0	0.21	1	10/24/23 19:57	10/25/23 00:48	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.12J	mg/L	0.25	0.059	1		10/23/23 14:33		
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	10/26/23 04:31	10/26/23 08:29		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

QC Batch: 459059	Analysis Method: SM 9222D
QC Batch Method: SM 9222D	Analysis Description: 9222D MICRO Fecal Coliform by MF
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40269634001, 40269634002, 40269634003

METHOD BLANK: 2628741 Matrix: Water

Associated Lab Samples: 40269634001, 40269634002, 40269634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	10/17/23 14:13	

METHOD BLANK: 2636709 Matrix: Water

Associated Lab Samples: 40269634001, 40269634002, 40269634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<1.00	1.0	10/17/23 14:13	

SAMPLE DUPLICATE: 2628742

Parameter	Units	40269634001 Result	Dup Result	RPD	Max RPD	Qualifiers
Fecal Coliforms	CFU/100 mL	28.6	45.7			

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.: 40269634

QC Batch:	457894	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D MET
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40269634001, 40269634002, 40269634003

METHOD BLANK: 2629575 Matrix: Water

Associated Lab Samples: 40269634001, 40269634002, 40269634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<3.4	10.0	10/20/23 13:56	
Iron	ug/L	<56.7	100	10/20/23 13:56	
Lead	ug/L	<5.9	20.0	10/20/23 13:56	
Sodium	ug/L	<350	500	10/20/23 13:56	
Total Hardness by 2340B	mg/L	<1.0	5.4	10/20/23 13:56	
Zinc	ug/L	<11.6	40.0	10/20/23 13:56	

LABORATORY CONTROL SAMPLE: 2629576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	250	252	101	80-120	
Iron	ug/L	10000	10100	101	80-120	
Lead	ug/L	250	257	103	80-120	
Sodium	ug/L	10000	10200	102	80-120	
Total Hardness by 2340B	mg/L		67.3			
Zinc	ug/L	250	254	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2629577 2629578

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40269488012 Result	Spike Conc.	Spike Conc.	MS Result						
Copper	ug/L	18.7	250	250	276	273	103	102	75-125	1	20
Iron	ug/L	<56.7	10000	10000	10400	10300	104	103	75-125	1	20
Lead	ug/L	<5.9	250	250	262	262	104	104	75-125	0	20
Sodium	ug/L	1360	10000	10000	11600	11400	102	100	75-125	2	20
Total Hardness by 2340B	mg/L	10400			80.0	78.4				2	20
Zinc	ug/L	126	250	250	386	377	104	101	75-125	2	20

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

QC Batch:	457740	Analysis Method:	EPA 180.1
QC Batch Method:	EPA 180.1	Analysis Description:	180.1 Turbidity
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40269634001, 40269634002, 40269634003		

METHOD BLANK: 2628635 Matrix: Water

Associated Lab Samples: 40269634001, 40269634002, 40269634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<1.0	1.0	10/17/23 11:48	

LABORATORY CONTROL SAMPLE: 2628636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	510	550	108	90-110	

SAMPLE DUPLICATE: 2628637

Parameter	Units	40269634001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	21.0	20.0	5	10	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

QC Batch:	458754	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40269634001, 40269634002, 40269634003		

METHOD BLANK: 2634827 Matrix: Water

Associated Lab Samples: 40269634001, 40269634002, 40269634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	10/28/23 12:27	

LABORATORY CONTROL SAMPLE: 2634828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2634829 2634830

Parameter	Units	2634829		2634830		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	104	100	206	207	102	103	90-110	0	15	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

QC Batch:	458372	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia, Distilled
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40269634001, 40269634002, 40269634003

METHOD BLANK: 2632531 Matrix: Water
 Associated Lab Samples: 40269634001, 40269634002, 40269634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.14	0.50	10/23/23 20:24	

LABORATORY CONTROL SAMPLE: 2632532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2632533 2632534

Parameter	Units	2632533		2632534		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, Ammonia	mg/L	40269782001 <0.14	10	10	9.9	9.9	98	98	90-110	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2632535 2632536

Parameter	Units	2632535		2632536		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, Ammonia	mg/L	40269649001 3.2	10	10	13.6	13.5	104	103	90-110	0	20

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

QC Batch:	458494	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40269634001, 40269634002, 40269634003		

METHOD BLANK: 2633112 Matrix: Water
 Associated Lab Samples: 40269634001, 40269634002, 40269634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	10/25/23 00:41	

LABORATORY CONTROL SAMPLE: 2633113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	5.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2633114 2633115

Parameter	Units	2633114		2633115		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50356461002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, Kjeldahl, Total	mg/L	1130	100	100	1280	1160	147	30	90-110	10	20 P6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2633116 2633117

Parameter	Units	2633116		2633117		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50356461004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrogen, Kjeldahl, Total	mg/L	262	100	100	362	400	101	138	90-110	10	20 M0

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

QC Batch: 458238

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40269634001, 40269634002, 40269634003

METHOD BLANK: 2632210

Matrix: Water

Associated Lab Samples: 40269634001, 40269634002, 40269634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	10/23/23 14:15	

LABORATORY CONTROL SAMPLE: 2632211

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2632212 2632213

Parameter	Units	2632212		2632213		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40269882001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	16.4	12.5	12.5	28.9	28.9	100	100	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2632214 2632215

Parameter	Units	2632214		2632215		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40269652001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.6	2.6	102	101	90-110	1	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

QC Batch:	458629	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40269634001, 40269634002, 40269634003		

METHOD BLANK: 2633917 Matrix: Water
 Associated Lab Samples: 40269634001, 40269634002, 40269634003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<14.7	50.0	10/26/23 08:27	

LABORATORY CONTROL SAMPLE: 2633918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	476	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2633919 2633920

Parameter	Units	2633919		2633920		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40269488012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Chemical Oxygen Demand	mg/L	<15.5	526	526	516	507	98	96	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2633921 2633922

Parameter	Units	2633921		2633922		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40269607002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Chemical Oxygen Demand	mg/L	<15.5	526	526	523	519	97	96	90-110	1	10	

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QUALIFIERS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

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.

DL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269634

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40269634001	W-231016-RA-100	EPA 3010A	457894	EPA 6010D	458036
40269634002	W-231016-RA-101	EPA 3010A	457894	EPA 6010D	458036
40269634003	W-231016-RA-102	EPA 3010A	457894	EPA 6010D	458036
40269634001	W-231016-RA-100	SM 9222D	457758	SM 9222D	459059
40269634002	W-231016-RA-101	SM 9222D	457758	SM 9222D	459059
40269634003	W-231016-RA-102	SM 9222D	457758	SM 9222D	459059
40269634001	W-231016-RA-100	EPA 180.1	457740		
40269634002	W-231016-RA-101	EPA 180.1	457740		
40269634003	W-231016-RA-102	EPA 180.1	457740		
40269634001	W-231016-RA-100	EPA 300.0	458754		
40269634002	W-231016-RA-101	EPA 300.0	458754		
40269634003	W-231016-RA-102	EPA 300.0	458754		
40269634001	W-231016-RA-100	EPA 350.1	458372	EPA 350.1	458376
40269634002	W-231016-RA-101	EPA 350.1	458372	EPA 350.1	458376
40269634003	W-231016-RA-102	EPA 350.1	458372	EPA 350.1	458376
40269634001	W-231016-RA-100	EPA 351.2	458494	EPA 351.2	458500
40269634002	W-231016-RA-101	EPA 351.2	458494	EPA 351.2	458500
40269634003	W-231016-RA-102	EPA 351.2	458494	EPA 351.2	458500
40269634001	W-231016-RA-100	EPA 353.2	458238		
40269634002	W-231016-RA-101	EPA 353.2	458238		
40269634003	W-231016-RA-102	EPA 353.2	458238		
40269634001	W-231016-RA-100	EPA 410.4	458629	EPA 410.4	458672
40269634002	W-231016-RA-101	EPA 410.4	458629	EPA 410.4	458672
40269634003	W-231016-RA-102	EPA 410.4	458629	EPA 410.4	458672

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document



Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40269634

Company: **6HD** Billing Information: **6HD**

Address: **900 Long Lake Rd**

Report To: **Grant Anderson** Email To:

Copy To: Site Collection Info/Address:

Container Preservative Type **

Lab Project Manager:

** Preservative Types. (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: **Rhinolander LP 1115796** State: **WY** County/City: Time Zone Collected: [] PT [] MT [] CT [] ET

Phone: Site/Facility ID #: Compliance Monitoring? [] Yes [] No

Collected By (print): **Ryan Asmat** Purchase Order #: DW PWS ID #: Quote #: DW Location Code:

Collected By (signature): Turnaround Date Required: Immediately Packed on Ice: [X] Yes [] No

Sample Disposal: Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [] Yes [X] No Analysis:

Analyses										Lab Profile/Line:
										Lab Sample Receipt Checklist:
										Custody Seals Present/Intact Y N NA
										Custody Signatures Present Y N NA
										Collector Signature Present Y N NA
										Bottles Intact Y N NA
										Correct Bottles Y N NA
										Sufficient Volume Y N NA
										Samples Received on Ice Y N NA
										VOA - Headspace Acceptable Y N NA
										USDA Regulated Soils Y N NA
										Samples in Holding Time Y N NA
										Residual Chlorine Present Y N NA
										Cl Strips: Y N NA
										Sample pH Acceptable Y N NA
										pH Strips: Y N NA
										Sulfide Present Y N NA
										Lead Acetate Strips: Y N NA

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
W-231016-RA-100	GW	6	10/23	1400				5
W-231016-RA-101				1410				5
W-231016-RA-102				1440				5

LAB USE ONLY: Lab Sample # / Comments:

Fecal Coliform

Ammonia, TKN, Cop, N+M

Chloride / turbidity

Metals / Hardness

001

002

003

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: **1**

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: **2881451**

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____ oC

Cooler 1 Therm Corr. Factor: _____ oC

Cooler 1 Corrected Temp: _____ oC

Comments:

Relinquished by/Company: (Signature) **6HD** Date/Time: **10/16/23** Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) **Fedex** Date/Time: **10/17/23 0940** Received by/Company: (Signature) **S. J. Rose** Date/Time: **10/17/23 0940**

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

MTJL LAB USE ONLY

Table #: _____

Acctnum: **1**

Template: _____

Prelogin: _____

PM: _____

PB: _____

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): Page 18 of 20

YES / NO of: _____

Client Name: GHP

Sample Preservation Receipt Form

Project # 40269634

All containers needing preservation have been checked and noted below:
 Lab Lot# of pH paper: 1002723

Yes No N/A

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

Initial when completed: 86 Date/Time:

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	AG5U	AG2S	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU								SP5T	ZPLC
001																															2.5 / 5
002																															2.5 / 5
003																															2.5 / 5
004																															2.5 / 5
005																															2.5 / 5
006																															2.5 / 5
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018																															2.5 / 5
019																															2.5 / 5
020																															2.5 / 5

10/17/23 86

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 headdress column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: GHD

WO#: **40269634**

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



Tracking #: 9574 3158 0929

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 - 109 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr. 1.0 / Corr. 1.0

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 10/17/23 / Initials: SG

Labeled By Initials: EL

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: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: 8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>no notes</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>	<u>10/17/23</u>
Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Appendix B

Groundwater Sampling Laboratory Report



October 27, 2023

Grant Anderson
GHD Services
900 Long Lake Road
Suite 200
New Brighton, MN 55112

RE: Project: 11115796 RHINELANDER LF
Pace Project No.: 40269737

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 18, 2023. 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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**SAMPLE SUMMARY**

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40269737001	MW-16A	Water	10/16/23 13:37	10/18/23 09:25
40269737002	MW-16B	Water	10/16/23 13:47	10/18/23 09:25
40269737003	MW-16B DUP	Water	10/16/23 00:00	10/18/23 09:25
40269737004	MW-16C	Water	10/16/23 14:27	10/18/23 09:25
40269737005	MW-26B	Water	10/16/23 15:23	10/18/23 09:25
40269737006	MW-26C	Water	10/16/23 15:42	10/18/23 09:25
40269737007	MW-18B	Water	10/16/23 16:04	10/18/23 09:25
40269737008	MW-18C	Water	10/16/23 16:22	10/18/23 09:25
40269737009	MW-18A	Water	10/16/23 16:37	10/18/23 09:25
40269737010	FIELD BLANK	Water	10/16/23 16:00	10/18/23 09:25
40269737011	MW-25B	Water	10/16/23 16:55	10/18/23 09:25
40269737012	MW-5A	Water	10/16/23 17:20	10/18/23 09:25
40269737013	MW-4A	Water	10/16/23 17:22	10/18/23 09:25
40269737014	MW-4A DUP	Water	10/16/23 00:00	10/18/23 09:25
40269737015	MW-20A	Water	10/17/23 08:07	10/18/23 09:25
40269737016	MW-20B	Water	10/17/23 08:11	10/18/23 09:25
40269737017	MW-20C	Water	10/17/23 08:26	10/18/23 09:25
40269737018	MW-2A	Water	10/17/23 09:02	10/18/23 09:25
40269737019	MW-2B	Water	10/17/23 09:10	10/18/23 09:25
40269737020	MW-21A	Water	10/17/23 09:33	10/18/23 09:25
40269737021	MW-3A	Water	10/17/23 09:57	10/18/23 09:25
40269737022	MW-27A	Water	10/17/23 10:52	10/18/23 09:25
40269737023	MW-28A	Water	10/17/23 10:40	10/18/23 09:25
40269737024	TRIP BLANK	Water	10/17/23 00:00	10/18/23 09:25

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40269737001	MW-16A	EPA 8260	EIB	65
			AG1	6
40269737002	MW-16B	EPA 8260	EIB	65
			AG1	6
40269737003	MW-16B DUP	EPA 8260	EIB	65
			AG1	6
40269737004	MW-16C	EPA 8260	EIB	65
			AG1	6
40269737005	MW-26B	EPA 8260	EIB	65
			AG1	6
40269737006	MW-26C	EPA 8260	EIB	65
			AG1	6
40269737007	MW-18B	EPA 8260	EIB	65
			AG1	6
40269737008	MW-18C	EPA 8260	EIB	65
			AG1	6
40269737009	MW-18A	EPA 8260	EIB	65
			AG1	6
40269737010	FIELD BLANK	EPA 8260	EIB	65
40269737011	MW-25B	EPA 8260	EIB	65
			AG1	6
40269737012	MW-5A	EPA 8260	EIB	65
			AG1	6
40269737013	MW-4A	EPA 8260	EIB	65
			AG1	6
40269737014	MW-4A DUP	EPA 8260	EIB	65
			AG1	6
40269737015	MW-20A	EPA 8260	EIB	65
			AG1	6
40269737016	MW-20B	EPA 8260	EIB	65
			AG1	6
40269737017	MW-20C	EPA 8260	EIB	65
			AG1	6
40269737018	MW-2A	EPA 8260	EIB	65
			AG1	6
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Lab ID	Sample ID	Method	Analysts	Analytes Reported	
40269737019	MW-2B	EPA 8260	EIB	65	
			AG1	6	
40269737020	MW-21A	EPA 8260	EIB	65	
			AG1	6	
		EPA 350.1	TMK	1	
		EPA 351.2	TMK	1	
		EPA 8260	EIB	65	
40269737021	MW-3A	EPA 8260	AG1	6	
			EPA 350.1	TMK	1
			EPA 351.2	TMK	1
40269737022	MW-27A	EPA 8260	EIB	65	
			AG1	6	
40269737023	MW-28A	EPA 8260	EIB	65	
			AG1	6	
40269737024	TRIP BLANK	EPA 8260	EIB	65	

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-16A Lab ID: 40269737001 Collected: 10/16/23 13:37 Received: 10/18/23 09:25 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	0.98J	ug/L	1.0	0.30	1		10/20/23 01:37	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 01:37	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/20/23 01:37	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 01:37	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/20/23 01:37	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/20/23 01:37	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 01:37	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/20/23 01:37	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/20/23 01:37	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/20/23 01:37	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 01:37	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/20/23 01:37	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/20/23 01:37	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/20/23 01:37	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 01:37	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 01:37	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/20/23 01:37	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/20/23 01:37	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/20/23 01:37	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/20/23 01:37	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 01:37	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 01:37	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/20/23 01:37	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/20/23 01:37	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 01:37	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/20/23 01:37	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/20/23 01:37	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/20/23 01:37	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/20/23 01:37	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/20/23 01:37	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/20/23 01:37	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/20/23 01:37	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/20/23 01:37	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/20/23 01:37	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/20/23 01:37	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 01:37	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 01:37	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/20/23 01:37	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/20/23 01:37	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/20/23 01:37	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/20/23 01:37	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 01:37	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/20/23 01:37	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 01:37	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/20/23 01:37	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-16A Lab ID: 40269737001 Collected: 10/16/23 13:37 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 01:37	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 01:37	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 01:37	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/20/23 01:37	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 01:37	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 01:37	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 01:37	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 01:37	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 01:37	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 01:37	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 01:37	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 01:37	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 01:37	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 01:37	108-67-8	
Vinyl chloride	0.74J	ug/L	1.0	0.17	1		10/20/23 01:37	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 01:37	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 01:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		10/20/23 01:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/20/23 01:37	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		10/20/23 01:37	2037-26-5	

Field Data Analytical Method: Pace Analytical Services - Green Bay

Field pH	6.95	Std. Units			1		10/16/23 13:37		
Field Specific Conductance	664	umhos/cm			1		10/16/23 13:37		
Oxygen, Dissolved	0	mg/L			1		10/16/23 13:37	7782-44-7	
REDOX	-131	mV			1		10/16/23 13:37		
Turbidity	0	NTU			1		10/16/23 13:37		
Temperature, Water (C)	10.06	deg C			1		10/16/23 13:37		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-16B Lab ID: 40269737002 Collected: 10/16/23 13:47 Received: 10/18/23 09:25 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	0.30	1		10/19/23 23:13	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 23:13	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/19/23 23:13	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 23:13	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/19/23 23:13	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/19/23 23:13	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 23:13	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/19/23 23:13	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/19/23 23:13	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/19/23 23:13	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 23:13	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/19/23 23:13	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/19/23 23:13	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/19/23 23:13	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 23:13	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 23:13	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/19/23 23:13	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/19/23 23:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/19/23 23:13	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/19/23 23:13	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 23:13	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 23:13	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/19/23 23:13	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/19/23 23:13	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 23:13	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/19/23 23:13	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/19/23 23:13	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/19/23 23:13	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/19/23 23:13	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/19/23 23:13	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/19/23 23:13	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/19/23 23:13	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/19/23 23:13	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/19/23 23:13	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/19/23 23:13	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 23:13	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 23:13	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/19/23 23:13	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/19/23 23:13	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/19/23 23:13	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/19/23 23:13	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 23:13	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/19/23 23:13	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 23:13	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/19/23 23:13	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: **MW-16B** Lab ID: **40269737002** Collected: 10/16/23 13:47 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/19/23 23:13	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/19/23 23:13	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/19/23 23:13	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/19/23 23:13	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/19/23 23:13	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/19/23 23:13	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/19/23 23:13	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 23:13	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/19/23 23:13	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/19/23 23:13	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 23:13	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/19/23 23:13	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/19/23 23:13	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 23:13	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/19/23 23:13	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/19/23 23:13	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/19/23 23:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/19/23 23:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		10/19/23 23:13	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		10/19/23 23:13	2037-26-5	

Field Data Analytical Method:
Pace Analytical Services - Green Bay

Field pH	7.45	Std. Units			1		10/16/23 13:47		
Field Specific Conductance	872	umhos/cm			1		10/16/23 13:47		
Oxygen, Dissolved	0	mg/L			1		10/16/23 13:47	7782-44-7	
REDOX	-198	mV			1		10/16/23 13:47		
Turbidity	0.9	NTU			1		10/16/23 13:47		
Temperature, Water (C)	8.8	deg C			1		10/16/23 13:47		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-16B DUP Lab ID: 40269737003 Collected: 10/16/23 00:00 Received: 10/18/23 09:25 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	0.99J	ug/L	1.0	0.30	1		10/20/23 01:58	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 01:58	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/20/23 01:58	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 01:58	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/20/23 01:58	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/20/23 01:58	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 01:58	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/20/23 01:58	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/20/23 01:58	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/20/23 01:58	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 01:58	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/20/23 01:58	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/20/23 01:58	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/20/23 01:58	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 01:58	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 01:58	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/20/23 01:58	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/20/23 01:58	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/20/23 01:58	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/20/23 01:58	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 01:58	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 01:58	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/20/23 01:58	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/20/23 01:58	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 01:58	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/20/23 01:58	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/20/23 01:58	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/20/23 01:58	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/20/23 01:58	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/20/23 01:58	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/20/23 01:58	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/20/23 01:58	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/20/23 01:58	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/20/23 01:58	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/20/23 01:58	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 01:58	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 01:58	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/20/23 01:58	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/20/23 01:58	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/20/23 01:58	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/20/23 01:58	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 01:58	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/20/23 01:58	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 01:58	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/20/23 01:58	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: **MW-16B DUP** Lab ID: **40269737003** Collected: 10/16/23 00:00 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 01:58	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 01:58	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 01:58	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/20/23 01:58	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 01:58	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 01:58	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 01:58	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 01:58	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 01:58	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 01:58	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 01:58	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 01:58	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 01:58	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 01:58	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/20/23 01:58	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 01:58	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 01:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/20/23 01:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		10/20/23 01:58	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		10/20/23 01:58	2037-26-5	

Field Data Analytical Method:
Pace Analytical Services - Green Bay

Field pH	7.45	Std. Units			1		10/16/23 00:00		
Field Specific Conductance	872	umhos/cm			1		10/16/23 00:00		
Oxygen, Dissolved	0	mg/L			1		10/16/23 00:00	7782-44-7	
REDOX	-198	mV			1		10/16/23 00:00		
Turbidity	0.9	NTU			1		10/16/23 00:00		
Temperature, Water (C)	8.8	deg C			1		10/16/23 00:00		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-16C Lab ID: 40269737004 Collected: 10/16/23 14:27 Received: 10/18/23 09:25 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	0.89J	ug/L	1.0	0.30	1		10/20/23 02:18	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 02:18	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/20/23 02:18	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 02:18	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/20/23 02:18	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/20/23 02:18	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 02:18	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/20/23 02:18	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/20/23 02:18	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/20/23 02:18	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 02:18	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/20/23 02:18	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/20/23 02:18	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/20/23 02:18	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 02:18	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 02:18	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/20/23 02:18	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/20/23 02:18	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/20/23 02:18	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/20/23 02:18	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 02:18	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 02:18	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/20/23 02:18	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/20/23 02:18	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 02:18	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/20/23 02:18	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/20/23 02:18	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/20/23 02:18	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/20/23 02:18	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/20/23 02:18	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/20/23 02:18	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/20/23 02:18	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/20/23 02:18	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/20/23 02:18	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/20/23 02:18	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 02:18	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 02:18	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/20/23 02:18	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/20/23 02:18	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/20/23 02:18	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/20/23 02:18	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 02:18	1634-04-4	
Naphthalene	2.7J	ug/L	5.0	1.9	1		10/20/23 02:18	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 02:18	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/20/23 02:18	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-16C **Lab ID: 40269737004** Collected: 10/16/23 14:27 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 02:18	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 02:18	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 02:18	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/20/23 02:18	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 02:18	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 02:18	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 02:18	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 02:18	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 02:18	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 02:18	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 02:18	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 02:18	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 02:18	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 02:18	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/20/23 02:18	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 02:18	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 02:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/20/23 02:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/20/23 02:18	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		10/20/23 02:18	2037-26-5	

Field Data Analytical Method:
Pace Analytical Services - Green Bay

Field pH	6.82	Std. Units			1		10/16/23 14:27		
Field Specific Conductance	808	umhos/cm			1		10/16/23 14:27		
Oxygen, Dissolved	0.58	mg/L			1		10/16/23 14:27	7782-44-7	
REDOX	-141	mV			1		10/16/23 14:27		
Turbidity	0	NTU			1		10/16/23 14:27		
Temperature, Water (C)	9.64	deg C			1		10/16/23 14:27		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-26B Lab ID: 40269737005 Collected: 10/16/23 15:23 Received: 10/18/23 09:25 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	<0.30	ug/L	1.0	0.30	1		10/19/23 23:33	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 23:33	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/19/23 23:33	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 23:33	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/19/23 23:33	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/19/23 23:33	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 23:33	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/19/23 23:33	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/19/23 23:33	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/19/23 23:33	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 23:33	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/19/23 23:33	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/19/23 23:33	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/19/23 23:33	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 23:33	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 23:33	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/19/23 23:33	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/19/23 23:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/19/23 23:33	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/19/23 23:33	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 23:33	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 23:33	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/19/23 23:33	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/19/23 23:33	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 23:33	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/19/23 23:33	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/19/23 23:33	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/19/23 23:33	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/19/23 23:33	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/19/23 23:33	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/19/23 23:33	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/19/23 23:33	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/19/23 23:33	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/19/23 23:33	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/19/23 23:33	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 23:33	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 23:33	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/19/23 23:33	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/19/23 23:33	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/19/23 23:33	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/19/23 23:33	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 23:33	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/19/23 23:33	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 23:33	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/19/23 23:33	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-26B Lab ID: 40269737005 Collected: 10/16/23 15:23 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/19/23 23:33	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/19/23 23:33	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/19/23 23:33	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/19/23 23:33	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/19/23 23:33	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/19/23 23:33	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/19/23 23:33	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 23:33	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/19/23 23:33	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/19/23 23:33	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 23:33	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/19/23 23:33	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/19/23 23:33	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 23:33	108-67-8	
Vinyl chloride	1.4	ug/L	1.0	0.17	1		10/19/23 23:33	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/19/23 23:33	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/19/23 23:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/19/23 23:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/19/23 23:33	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		10/19/23 23:33	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.83	Std. Units			1		10/16/23 15:23		
Field Specific Conductance	431	umhos/cm			1		10/16/23 15:23		
Oxygen, Dissolved	0.4	mg/L			1		10/16/23 15:23	7782-44-7	
REDOX	-218	mV			1		10/16/23 15:23		
Turbidity	0	NTU			1		10/16/23 15:23		
Temperature, Water (C)	9.71	deg C			1		10/16/23 15:23		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-26C Lab ID: 40269737006 Collected: 10/16/23 15:42 Received: 10/18/23 09:25 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	0.75J	ug/L	1.0	0.30	1		10/19/23 21:08	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 21:08	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/19/23 21:08	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 21:08	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/19/23 21:08	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/19/23 21:08	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 21:08	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/19/23 21:08	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/19/23 21:08	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/19/23 21:08	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 21:08	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/19/23 21:08	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/19/23 21:08	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/19/23 21:08	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 21:08	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 21:08	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/19/23 21:08	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/19/23 21:08	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/19/23 21:08	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/19/23 21:08	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 21:08	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 21:08	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/19/23 21:08	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/19/23 21:08	75-71-8	
1,1-Dichloroethane	0.36J	ug/L	1.0	0.30	1		10/19/23 21:08	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/19/23 21:08	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/19/23 21:08	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/19/23 21:08	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/19/23 21:08	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/19/23 21:08	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/19/23 21:08	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/19/23 21:08	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/19/23 21:08	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/19/23 21:08	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/19/23 21:08	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 21:08	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 21:08	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/19/23 21:08	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/19/23 21:08	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/19/23 21:08	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/19/23 21:08	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 21:08	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/19/23 21:08	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 21:08	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/19/23 21:08	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-26C Lab ID: 40269737006 Collected: 10/16/23 15:42 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/19/23 21:08	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/19/23 21:08	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/19/23 21:08	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/19/23 21:08	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/19/23 21:08	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/19/23 21:08	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/19/23 21:08	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 21:08	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/19/23 21:08	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/19/23 21:08	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 21:08	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/19/23 21:08	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/19/23 21:08	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 21:08	108-67-8	
Vinyl chloride	4.7	ug/L	1.0	0.17	1		10/19/23 21:08	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/19/23 21:08	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/19/23 21:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/19/23 21:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		10/19/23 21:08	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		10/19/23 21:08	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.65	Std. Units			1		10/16/23 15:42		
Field Specific Conductance	535	umhos/cm			1		10/16/23 15:42		
Oxygen, Dissolved	0	mg/L			1		10/16/23 15:42	7782-44-7	
REDOX	-148	mV			1		10/16/23 15:42		
Turbidity	0.7	NTU			1		10/16/23 15:42		
Temperature, Water (C)	9.28	deg C			1		10/16/23 15:42		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-18B Lab ID: 40269737007 Collected: 10/16/23 16:04 Received: 10/18/23 09:25 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	<0.30	ug/L	1.0	0.30	1		10/19/23 21:29	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 21:29	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/19/23 21:29	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 21:29	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/19/23 21:29	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/19/23 21:29	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 21:29	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/19/23 21:29	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/19/23 21:29	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/19/23 21:29	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 21:29	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/19/23 21:29	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/19/23 21:29	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/19/23 21:29	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 21:29	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 21:29	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/19/23 21:29	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/19/23 21:29	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/19/23 21:29	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/19/23 21:29	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 21:29	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 21:29	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/19/23 21:29	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/19/23 21:29	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 21:29	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/19/23 21:29	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/19/23 21:29	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/19/23 21:29	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/19/23 21:29	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/19/23 21:29	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/19/23 21:29	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/19/23 21:29	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/19/23 21:29	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/19/23 21:29	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/19/23 21:29	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 21:29	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 21:29	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/19/23 21:29	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/19/23 21:29	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/19/23 21:29	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/19/23 21:29	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 21:29	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/19/23 21:29	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 21:29	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/19/23 21:29	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-18B Lab ID: 40269737007 Collected: 10/16/23 16:04 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/19/23 21:29	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/19/23 21:29	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/19/23 21:29	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/19/23 21:29	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/19/23 21:29	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/19/23 21:29	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/19/23 21:29	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 21:29	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/19/23 21:29	79-00-5	
Trichloroethene	0.76J	ug/L	1.0	0.32	1		10/19/23 21:29	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 21:29	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/19/23 21:29	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/19/23 21:29	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 21:29	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/19/23 21:29	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/19/23 21:29	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/19/23 21:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/19/23 21:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		10/19/23 21:29	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		10/19/23 21:29	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	6.89	Std. Units			1		10/16/23 16:04		
Field Specific Conductance	772	umhos/cm			1		10/16/23 16:04		
Oxygen, Dissolved	0	mg/L			1		10/16/23 16:04	7782-44-7	
REDOX	62	mV			1		10/16/23 16:04		
Turbidity	0	NTU			1		10/16/23 16:04		
Temperature, Water (C)	9.41	deg C			1		10/16/23 16:04		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-18C Lab ID: 40269737008 Collected: 10/16/23 16:22 Received: 10/18/23 09:25 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	<0.30	ug/L	1.0	0.30	1		10/19/23 21:50	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 21:50	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/19/23 21:50	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 21:50	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/19/23 21:50	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/19/23 21:50	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 21:50	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/19/23 21:50	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/19/23 21:50	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/19/23 21:50	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 21:50	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/19/23 21:50	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/19/23 21:50	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/19/23 21:50	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 21:50	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 21:50	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/19/23 21:50	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/19/23 21:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/19/23 21:50	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/19/23 21:50	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 21:50	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 21:50	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/19/23 21:50	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/19/23 21:50	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 21:50	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/19/23 21:50	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/19/23 21:50	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/19/23 21:50	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/19/23 21:50	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/19/23 21:50	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/19/23 21:50	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/19/23 21:50	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/19/23 21:50	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/19/23 21:50	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/19/23 21:50	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 21:50	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 21:50	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/19/23 21:50	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/19/23 21:50	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/19/23 21:50	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/19/23 21:50	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 21:50	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/19/23 21:50	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 21:50	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/19/23 21:50	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-18C **Lab ID: 40269737008** Collected: 10/16/23 16:22 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/19/23 21:50	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/19/23 21:50	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/19/23 21:50	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/19/23 21:50	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/19/23 21:50	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/19/23 21:50	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/19/23 21:50	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 21:50	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/19/23 21:50	79-00-5	
Trichloroethene	2.9	ug/L	1.0	0.32	1		10/19/23 21:50	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 21:50	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/19/23 21:50	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/19/23 21:50	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 21:50	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/19/23 21:50	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/19/23 21:50	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/19/23 21:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/19/23 21:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/19/23 21:50	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		10/19/23 21:50	2037-26-5	

Field Data Analytical Method:
Pace Analytical Services - Green Bay

Field pH	7.12	Std. Units			1		10/16/23 16:22		
Field Specific Conductance	862	umhos/cm			1		10/16/23 16:22		
Oxygen, Dissolved	0	mg/L			1		10/16/23 16:22	7782-44-7	
REDOX	-53	mV			1		10/16/23 16:22		
Turbidity	3.4	NTU			1		10/16/23 16:22		
Temperature, Water (C)	9.4	deg C			1		10/16/23 16:22		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-18A Lab ID: 40269737009 Collected: 10/16/23 16:37 Received: 10/18/23 09:25 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	<0.30	ug/L	1.0	0.30	1		10/19/23 23:54	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 23:54	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/19/23 23:54	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 23:54	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/19/23 23:54	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/19/23 23:54	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 23:54	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/19/23 23:54	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/19/23 23:54	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/19/23 23:54	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/19/23 23:54	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/19/23 23:54	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/19/23 23:54	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/19/23 23:54	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 23:54	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/19/23 23:54	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/19/23 23:54	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/19/23 23:54	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/19/23 23:54	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/19/23 23:54	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 23:54	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 23:54	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/19/23 23:54	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/19/23 23:54	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 23:54	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/19/23 23:54	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/19/23 23:54	75-35-4	
cis-1,2-Dichloroethene	7.5	ug/L	1.0	0.47	1		10/19/23 23:54	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/19/23 23:54	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/19/23 23:54	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/19/23 23:54	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/19/23 23:54	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/19/23 23:54	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/19/23 23:54	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/19/23 23:54	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 23:54	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/19/23 23:54	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/19/23 23:54	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/19/23 23:54	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/19/23 23:54	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/19/23 23:54	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/19/23 23:54	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/19/23 23:54	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/19/23 23:54	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/19/23 23:54	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-18A Lab ID: 40269737009 Collected: 10/16/23 16:37 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/19/23 23:54	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/19/23 23:54	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/19/23 23:54	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/19/23 23:54	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/19/23 23:54	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/19/23 23:54	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/19/23 23:54	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 23:54	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/19/23 23:54	79-00-5	
Trichloroethene	5.5	ug/L	1.0	0.32	1		10/19/23 23:54	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 23:54	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/19/23 23:54	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/19/23 23:54	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 23:54	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/19/23 23:54	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/19/23 23:54	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/19/23 23:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/19/23 23:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/19/23 23:54	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		10/19/23 23:54	2037-26-5	

Field Data Analytical Method:
Pace Analytical Services - Green Bay

Field pH	7.28	Std. Units			1		10/16/23 16:37		
Field Specific Conductance	633	umhos/cm			1		10/16/23 16:37		
Oxygen, Dissolved	0	mg/L			1		10/16/23 16:37	7782-44-7	
REDOX	-140	mV			1		10/16/23 16:37		
Turbidity	23.9	NTU			1		10/16/23 16:37		
Temperature, Water (C)	11.63	deg C			1		10/16/23 16:37		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: FIELD BLANK Lab ID: 40269737010 Collected: 10/16/23 16:00 Received: 10/18/23 09:25 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	<0.30	ug/L	1.0	0.30	1		10/20/23 00:15	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 00:15	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/20/23 00:15	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 00:15	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/20/23 00:15	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/20/23 00:15	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 00:15	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/20/23 00:15	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/20/23 00:15	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/20/23 00:15	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 00:15	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/20/23 00:15	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/20/23 00:15	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/20/23 00:15	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 00:15	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 00:15	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/20/23 00:15	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/20/23 00:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/20/23 00:15	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/20/23 00:15	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 00:15	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 00:15	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/20/23 00:15	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/20/23 00:15	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 00:15	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/20/23 00:15	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/20/23 00:15	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/20/23 00:15	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/20/23 00:15	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/20/23 00:15	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/20/23 00:15	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/20/23 00:15	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/20/23 00:15	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/20/23 00:15	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/20/23 00:15	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 00:15	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 00:15	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/20/23 00:15	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/20/23 00:15	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/20/23 00:15	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/20/23 00:15	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 00:15	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/20/23 00:15	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 00:15	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/20/23 00:15	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: FIELD BLANK Lab ID: 40269737010 Collected: 10/16/23 16:00 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 00:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 00:15	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 00:15	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/20/23 00:15	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 00:15	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 00:15	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 00:15	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 00:15	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 00:15	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 00:15	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 00:15	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 00:15	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 00:15	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 00:15	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/20/23 00:15	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 00:15	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 00:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		10/20/23 00:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/20/23 00:15	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		10/20/23 00:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-25B Lab ID: 40269737011 Collected: 10/16/23 16:55 Received: 10/18/23 09:25 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	<0.30	ug/L	1.0	0.30	1		10/20/23 00:35	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 00:35	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/20/23 00:35	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 00:35	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/20/23 00:35	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/20/23 00:35	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 00:35	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/20/23 00:35	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/20/23 00:35	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/20/23 00:35	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 00:35	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/20/23 00:35	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/20/23 00:35	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/20/23 00:35	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 00:35	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 00:35	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/20/23 00:35	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/20/23 00:35	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/20/23 00:35	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/20/23 00:35	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 00:35	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 00:35	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/20/23 00:35	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/20/23 00:35	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 00:35	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/20/23 00:35	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/20/23 00:35	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/20/23 00:35	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/20/23 00:35	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/20/23 00:35	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/20/23 00:35	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/20/23 00:35	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/20/23 00:35	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/20/23 00:35	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/20/23 00:35	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 00:35	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 00:35	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/20/23 00:35	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/20/23 00:35	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/20/23 00:35	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/20/23 00:35	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 00:35	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/20/23 00:35	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 00:35	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/20/23 00:35	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-25B **Lab ID: 40269737011** Collected: 10/16/23 16:55 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 00:35	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 00:35	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 00:35	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/20/23 00:35	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 00:35	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 00:35	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 00:35	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 00:35	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 00:35	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 00:35	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 00:35	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 00:35	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 00:35	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 00:35	108-67-8	
Vinyl chloride	0.66J	ug/L	1.0	0.17	1		10/20/23 00:35	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 00:35	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 00:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/20/23 00:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		10/20/23 00:35	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		10/20/23 00:35	2037-26-5	

Field Data Analytical Method:
Pace Analytical Services - Green Bay

Field pH	8.07	Std. Units			1		10/16/23 16:55		
Field Specific Conductance	402	umhos/cm			1		10/16/23 16:55		
Oxygen, Dissolved	0	mg/L			1		10/16/23 16:55	7782-44-7	
REDOX	-84	mV			1		10/16/23 16:55		
Turbidity	3.6	NTU			1		10/16/23 16:55		
Temperature, Water (C)	9.45	deg C			1		10/16/23 16:55		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-5A Lab ID: 40269737012 Collected: 10/16/23 17:20 Received: 10/18/23 09:25 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	<0.30	ug/L	1.0	0.30	1		10/20/23 00:56	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 00:56	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/20/23 00:56	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 00:56	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/20/23 00:56	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/20/23 00:56	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 00:56	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/20/23 00:56	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/20/23 00:56	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/20/23 00:56	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 00:56	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/20/23 00:56	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/20/23 00:56	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/20/23 00:56	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 00:56	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 00:56	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/20/23 00:56	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/20/23 00:56	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/20/23 00:56	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/20/23 00:56	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 00:56	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 00:56	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/20/23 00:56	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/20/23 00:56	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 00:56	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/20/23 00:56	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/20/23 00:56	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/20/23 00:56	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/20/23 00:56	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/20/23 00:56	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/20/23 00:56	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/20/23 00:56	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/20/23 00:56	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/20/23 00:56	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/20/23 00:56	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 00:56	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 00:56	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/20/23 00:56	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/20/23 00:56	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/20/23 00:56	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/20/23 00:56	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 00:56	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/20/23 00:56	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 00:56	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/20/23 00:56	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-5A Lab ID: 40269737012 Collected: 10/16/23 17:20 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 00:56	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 00:56	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 00:56	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/20/23 00:56	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 00:56	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 00:56	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 00:56	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 00:56	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 00:56	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 00:56	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 00:56	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 00:56	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 00:56	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 00:56	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/20/23 00:56	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 00:56	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 00:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/20/23 00:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		10/20/23 00:56	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		10/20/23 00:56	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	6.8	Std. Units			1		10/16/23 17:20		
Field Specific Conductance	831	umhos/cm			1		10/16/23 17:20		
Oxygen, Dissolved	4.62	mg/L			1		10/16/23 17:20	7782-44-7	
REDOX	90	mV			1		10/16/23 17:20		
Turbidity	0.7	NTU			1		10/16/23 17:20		
Temperature, Water (C)	10.15	deg C			1		10/16/23 17:20		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-4A Lab ID: 40269737013 Collected: 10/16/23 17:22 Received: 10/18/23 09:25 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	<0.30	ug/L	1.0	0.30	1		10/20/23 01:16	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 01:16	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/20/23 01:16	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 01:16	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/20/23 01:16	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/20/23 01:16	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 01:16	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/20/23 01:16	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/20/23 01:16	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/20/23 01:16	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 01:16	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/20/23 01:16	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/20/23 01:16	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/20/23 01:16	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 01:16	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 01:16	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/20/23 01:16	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/20/23 01:16	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/20/23 01:16	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/20/23 01:16	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 01:16	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 01:16	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/20/23 01:16	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/20/23 01:16	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 01:16	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/20/23 01:16	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/20/23 01:16	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/20/23 01:16	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/20/23 01:16	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/20/23 01:16	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/20/23 01:16	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/20/23 01:16	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/20/23 01:16	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/20/23 01:16	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/20/23 01:16	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 01:16	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 01:16	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/20/23 01:16	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/20/23 01:16	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/20/23 01:16	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/20/23 01:16	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 01:16	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/20/23 01:16	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 01:16	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/20/23 01:16	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: **MW-4A** Lab ID: **40269737013** Collected: 10/16/23 17:22 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 01:16	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 01:16	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 01:16	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/20/23 01:16	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 01:16	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 01:16	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 01:16	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 01:16	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 01:16	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 01:16	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 01:16	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 01:16	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 01:16	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 01:16	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/20/23 01:16	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 01:16	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 01:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/20/23 01:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/20/23 01:16	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		10/20/23 01:16	2037-26-5	

Field Data Analytical Method:
Pace Analytical Services - Green Bay

Field pH	6.83	Std. Units			1		10/16/23 17:22		
Field Specific Conductance	491	umhos/cm			1		10/16/23 17:22		
Oxygen, Dissolved	4.68	mg/L			1		10/16/23 17:22	7782-44-7	
REDOX	127	mV			1		10/16/23 17:22		
Turbidity	0	NTU			1		10/16/23 17:22		
Temperature, Water (C)	10.03	deg C			1		10/16/23 17:22		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-4A DUP Lab ID: 40269737014 Collected: 10/16/23 00:00 Received: 10/18/23 09:25 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	<0.30	ug/L	1.0	0.30	1		10/20/23 09:49	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 09:49	108-86-1	
Bromochloromethane	<0.36	ug/L	1.0	0.36	1		10/20/23 09:49	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 09:49	75-27-4	
Bromoform	<0.43	ug/L	1.0	0.43	1		10/20/23 09:49	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		10/20/23 09:49	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 09:49	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		10/20/23 09:49	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		10/20/23 09:49	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		10/20/23 09:49	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		10/20/23 09:49	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		10/20/23 09:49	75-00-3	
Chloroform	<0.50	ug/L	5.0	0.50	1		10/20/23 09:49	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		10/20/23 09:49	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 09:49	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		10/20/23 09:49	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		10/20/23 09:49	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		10/20/23 09:49	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		10/20/23 09:49	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		10/20/23 09:49	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 09:49	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 09:49	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		10/20/23 09:49	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		10/20/23 09:49	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 09:49	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		10/20/23 09:49	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		10/20/23 09:49	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		10/20/23 09:49	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		10/20/23 09:49	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		10/20/23 09:49	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		10/20/23 09:49	142-28-9	
2,2-Dichloropropane	<0.42	ug/L	1.0	0.42	1		10/20/23 09:49	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		10/20/23 09:49	563-58-6	
cis-1,3-Dichloropropene	<0.24	ug/L	1.0	0.24	1		10/20/23 09:49	10061-01-5	
trans-1,3-Dichloropropene	<0.27	ug/L	1.0	0.27	1		10/20/23 09:49	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 09:49	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		10/20/23 09:49	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		10/20/23 09:49	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		10/20/23 09:49	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		10/20/23 09:49	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		10/20/23 09:49	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		10/20/23 09:49	1634-04-4	
Naphthalene	<1.9	ug/L	5.0	1.9	1		10/20/23 09:49	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		10/20/23 09:49	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		10/20/23 09:49	100-42-5	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-4A DUP **Lab ID: 40269737014** Collected: 10/16/23 00:00 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 09:49	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 09:49	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 09:49	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/20/23 09:49	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 09:49	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 09:49	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 09:49	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 09:49	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 09:49	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 09:49	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 09:49	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 09:49	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 09:49	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 09:49	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/20/23 09:49	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 09:49	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 09:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/20/23 09:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/20/23 09:49	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		10/20/23 09:49	2037-26-5	

Field Data Analytical Method:
Pace Analytical Services - Green Bay

Field pH	6.83	Std. Units			1		10/16/23 00:00		
Field Specific Conductance	491	umhos/cm			1		10/16/23 00:00		
Oxygen, Dissolved	4.68	mg/L			1		10/16/23 00:00	7782-44-7	
REDOX	127	mV			1		10/16/23 00:00		
Turbidity	0	NTU			1		10/16/23 00:00		
Temperature, Water (C)	10.03	deg C			1		10/16/23 00:00		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-20A **Lab ID: 40269737015** Collected: 10/17/23 08:07 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/19/23 22:10	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/19/23 22:10	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/19/23 22:10	127-18-4	
Tetrahydrofuran	17.5J	ug/L	25.0	2.4	1		10/19/23 22:10	109-99-9	
Toluene	0.40J	ug/L	1.0	0.29	1		10/19/23 22:10	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/19/23 22:10	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/19/23 22:10	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 22:10	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/19/23 22:10	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/19/23 22:10	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 22:10	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/19/23 22:10	96-18-4	
1,2,4-Trimethylbenzene	28.0	ug/L	1.0	0.45	1		10/19/23 22:10	95-63-6	
1,3,5-Trimethylbenzene	6.1	ug/L	1.0	0.36	1		10/19/23 22:10	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/19/23 22:10	75-01-4	
m&p-Xylene	86.1	ug/L	2.0	0.70	1		10/19/23 22:10	179601-23-1	
o-Xylene	1.4	ug/L	1.0	0.35	1		10/19/23 22:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/19/23 22:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/19/23 22:10	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		10/19/23 22:10	2037-26-5	

Field Data Analytical Method:
Pace Analytical Services - Green Bay

Field pH	6.44	Std. Units			1		10/17/23 08:07		
Field Specific Conductance	1500	umhos/cm			1		10/17/23 08:07		
Oxygen, Dissolved	0	mg/L			1		10/17/23 08:07	7782-44-7	
REDOX	-122	mV			1		10/17/23 08:07		
Turbidity	9.9	NTU			1		10/17/23 08:07		
Temperature, Water (C)	11.3	deg C			1		10/17/23 08:07		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-20B Lab ID: 40269737016 Collected: 10/17/23 08:11 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/19/23 20:48	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/19/23 20:48	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/19/23 20:48	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/19/23 20:48	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/19/23 20:48	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/19/23 20:48	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/19/23 20:48	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 20:48	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/19/23 20:48	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/19/23 20:48	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 20:48	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/19/23 20:48	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/19/23 20:48	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 20:48	108-67-8	
Vinyl chloride	0.32J	ug/L	1.0	0.17	1		10/19/23 20:48	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/19/23 20:48	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/19/23 20:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/19/23 20:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		10/19/23 20:48	2199-69-1	
Toluene-d8 (S)	104	%	70-130		1		10/19/23 20:48	2037-26-5	

Field Data

Analytical Method:

Pace Analytical Services - Green Bay

Field pH	7.1	Std. Units			1		10/17/23 08:11		
Field Specific Conductance	682	umhos/cm			1		10/17/23 08:11		
Oxygen, Dissolved	0	mg/L			1		10/17/23 08:11	7782-44-7	
REDOX	-128	mV			1		10/17/23 08:11		
Turbidity	0	NTU			1		10/17/23 08:11		
Temperature, Water (C)	8.8	deg C			1		10/17/23 08:11		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-20C Lab ID: 40269737017 Collected: 10/17/23 08:26 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/19/23 22:31	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/19/23 22:31	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/19/23 22:31	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/19/23 22:31	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/19/23 22:31	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/19/23 22:31	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/19/23 22:31	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/19/23 22:31	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/19/23 22:31	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/19/23 22:31	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/19/23 22:31	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/19/23 22:31	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/19/23 22:31	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/19/23 22:31	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/19/23 22:31	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/19/23 22:31	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/19/23 22:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/19/23 22:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/19/23 22:31	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		10/19/23 22:31	2037-26-5	

Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	6.86	Std. Units			1		10/17/23 08:26		
Field Specific Conductance	673	umhos/cm			1		10/17/23 08:26		
Oxygen, Dissolved	0	mg/L			1		10/17/23 08:26	7782-44-7	
REDOX	-137	mV			1		10/17/23 08:26		
Turbidity	0	NTU			1		10/17/23 08:26		
Temperature, Water (C)	8.84	deg C			1		10/17/23 08:26		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-2B Lab ID: 40269737019 Collected: 10/17/23 09:10 Received: 10/18/23 09:25 Matrix: Water

Table with columns: Parameters, Results, Units, LOQ, LOD, DF, Prepared, Analyzed, CAS No., Qual. Includes section 8260 MSV with various chemical compounds and their detection results.

Field Data table with columns: Parameters, Results, Units, DF, Analyzed. Includes pH, Conductance, Oxygen, REDOX, Turbidity, and Temperature.

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
 Pace Project No.: 40269737

Sample: MW-3A Lab ID: 40269737021 Collected: 10/17/23 09:57 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 18:01	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 18:01	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 18:01	127-18-4	
Tetrahydrofuran	50.3	ug/L	25.0	2.4	1		10/20/23 18:01	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 18:01	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 18:01	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 18:01	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 18:01	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 18:01	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 18:01	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 18:01	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 18:01	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 18:01	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 18:01	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/20/23 18:01	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 18:01	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 18:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/20/23 18:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		10/20/23 18:01	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		10/20/23 18:01	2037-26-5	
Field Data		Analytical Method: Pace Analytical Services - Green Bay							
Field pH	7.08	Std. Units			1		10/17/23 09:57		
Field Specific Conductance	1550	umhos/cm			1		10/17/23 09:57		
Oxygen, Dissolved	0.51	mg/L			1		10/17/23 09:57	7782-44-7	
REDOX	-67	mV			1		10/17/23 09:57		
Turbidity	240	NTU			1		10/17/23 09:57		
Temperature, Water (C)	9.35	deg C			1		10/17/23 09:57		
350.1 Ammonia, Distilled		Analytical Method: EPA 350.1 Preparation Method: EPA 350.1 Pace Analytical Services - Green Bay							
Nitrogen, Ammonia	76.0	mg/L	5.0	1.4	10	10/26/23 20:45	10/27/23 00:30	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	60.4	mg/L	10.0	2.1	10	10/24/23 19:57	10/25/23 01:21	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-27A Lab ID: 40269737022 Collected: 10/17/23 10:52 Received: 10/18/23 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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8260 MSV Analytical Method: EPA 8260
Pace Analytical Services - Green Bay

1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		10/20/23 18:22	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 18:22	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 18:22	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/20/23 18:22	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 18:22	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 18:22	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 18:22	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 18:22	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 18:22	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 18:22	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 18:22	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 18:22	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 18:22	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 18:22	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/20/23 18:22	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 18:22	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 18:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/20/23 18:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		10/20/23 18:22	2199-69-1	
Toluene-d8 (S)	106	%	70-130		1		10/20/23 18:22	2037-26-5	

Field Data Analytical Method:
Pace Analytical Services - Green Bay

Field pH	6.03	Std. Units			1		10/17/23 10:52		
Field Specific Conductance	645	umhos/cm			1		10/17/23 10:52		
Oxygen, Dissolved	4.35	mg/L			1		10/17/23 10:52	7782-44-7	
REDOX	180	mV			1		10/17/23 10:52		
Turbidity	0.7	NTU			1		10/17/23 10:52		
Temperature, Water (C)	10.69	deg C			1		10/17/23 10:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: MW-28A Lab ID: 40269737023 Collected: 10/17/23 10:40 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 18:42	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 18:42	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 18:42	127-18-4	
Tetrahydrofuran	5.4J	ug/L	25.0	2.4	1		10/20/23 18:42	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 18:42	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 18:42	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 18:42	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 18:42	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 18:42	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 18:42	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 18:42	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 18:42	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 18:42	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 18:42	108-67-8	
Vinyl chloride	1.8	ug/L	1.0	0.17	1		10/20/23 18:42	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 18:42	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 18:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		10/20/23 18:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/20/23 18:42	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		10/20/23 18:42	2037-26-5	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.15	Std. Units			1		10/17/23 10:40		
Field Specific Conductance	661	umhos/cm			1		10/17/23 10:40		
Oxygen, Dissolved	0	mg/L			1		10/17/23 10:40	7782-44-7	
REDOX	14.1	mV			1		10/17/23 10:40		
Turbidity	14.1	NTU			1		10/17/23 10:40		
Temperature, Water (C)	10.96	deg C			1		10/17/23 10:40		

REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Sample: TRIP BLANK **Lab ID: 40269737024** Collected: 10/17/23 00:00 Received: 10/18/23 09:25 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	<0.36	ug/L	1.0	0.36	1		10/20/23 14:18	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		10/20/23 14:18	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		10/20/23 14:18	127-18-4	
Tetrahydrofuran	<2.4	ug/L	25.0	2.4	1		10/20/23 14:18	109-99-9	
Toluene	<0.29	ug/L	1.0	0.29	1		10/20/23 14:18	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		10/20/23 14:18	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		10/20/23 14:18	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		10/20/23 14:18	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	1.0	0.34	1		10/20/23 14:18	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		10/20/23 14:18	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		10/20/23 14:18	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	1.0	0.56	1		10/20/23 14:18	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		10/20/23 14:18	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		10/20/23 14:18	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		10/20/23 14:18	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		10/20/23 14:18	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		10/20/23 14:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/20/23 14:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		10/20/23 14:18	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		10/20/23 14:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

QC Batch: 458023 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40269737021, 40269737022, 40269737023, 40269737024

METHOD BLANK: 2630292 Matrix: Water

Associated Lab Samples: 40269737021, 40269737022, 40269737023, 40269737024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	10/20/23 09:29	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	10/20/23 09:29	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	10/20/23 09:29	
1,1,2-Trichloroethane	ug/L	<0.34	1.0	10/20/23 09:29	
1,1-Dichloroethane	ug/L	<0.30	1.0	10/20/23 09:29	
1,1-Dichloroethene	ug/L	<0.58	1.0	10/20/23 09:29	
1,1-Dichloropropene	ug/L	<0.41	1.0	10/20/23 09:29	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	10/20/23 09:29	
1,2,3-Trichloropropane	ug/L	<0.56	1.0	10/20/23 09:29	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/20/23 09:29	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	10/20/23 09:29	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	10/20/23 09:29	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	10/20/23 09:29	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	10/20/23 09:29	
1,2-Dichloroethane	ug/L	<0.29	1.0	10/20/23 09:29	
1,2-Dichloropropane	ug/L	<0.45	1.0	10/20/23 09:29	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	10/20/23 09:29	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	10/20/23 09:29	
1,3-Dichloropropane	ug/L	<0.30	1.0	10/20/23 09:29	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	10/20/23 09:29	
2,2-Dichloropropane	ug/L	<0.42	1.0	10/20/23 09:29	
2-Chlorotoluene	ug/L	<0.89	5.0	10/20/23 09:29	
4-Chlorotoluene	ug/L	<0.89	5.0	10/20/23 09:29	
Benzene	ug/L	<0.30	1.0	10/20/23 09:29	
Bromobenzene	ug/L	<0.36	1.0	10/20/23 09:29	
Bromochloromethane	ug/L	<0.36	1.0	10/20/23 09:29	
Bromodichloromethane	ug/L	<0.42	1.0	10/20/23 09:29	
Bromoform	ug/L	<0.43	1.0	10/20/23 09:29	
Bromomethane	ug/L	<1.2	5.0	10/20/23 09:29	
Carbon tetrachloride	ug/L	<0.37	1.0	10/20/23 09:29	
Chlorobenzene	ug/L	<0.86	1.0	10/20/23 09:29	
Chloroethane	ug/L	<1.4	5.0	10/20/23 09:29	
Chloroform	ug/L	<0.50	5.0	10/20/23 09:29	
Chloromethane	ug/L	<1.6	5.0	10/20/23 09:29	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	10/20/23 09:29	
cis-1,3-Dichloropropene	ug/L	<0.24	1.0	10/20/23 09:29	
Dibromochloromethane	ug/L	<2.6	5.0	10/20/23 09:29	
Dibromomethane	ug/L	<0.99	5.0	10/20/23 09:29	
Dichlorodifluoromethane	ug/L	<0.46	5.0	10/20/23 09:29	
Diisopropyl ether	ug/L	<1.1	5.0	10/20/23 09:29	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

METHOD BLANK: 2630292

Matrix: Water

Associated Lab Samples: 40269737021, 40269737022, 40269737023, 40269737024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	10/20/23 09:29	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	10/20/23 09:29	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	10/20/23 09:29	
m&p-Xylene	ug/L	<0.70	2.0	10/20/23 09:29	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	10/20/23 09:29	
Methylene Chloride	ug/L	<0.32	5.0	10/20/23 09:29	
n-Butylbenzene	ug/L	<0.86	1.0	10/20/23 09:29	
n-Propylbenzene	ug/L	<0.35	1.0	10/20/23 09:29	
Naphthalene	ug/L	<1.9	5.0	10/20/23 09:29	
o-Xylene	ug/L	<0.35	1.0	10/20/23 09:29	
p-Isopropyltoluene	ug/L	<1.0	5.0	10/20/23 09:29	
sec-Butylbenzene	ug/L	<0.42	1.0	10/20/23 09:29	
Styrene	ug/L	<0.36	1.0	10/20/23 09:29	
tert-Butylbenzene	ug/L	<0.59	1.0	10/20/23 09:29	
Tetrachloroethene	ug/L	<0.41	1.0	10/20/23 09:29	
Tetrahydrofuran	ug/L	<2.4	25.0	10/20/23 09:29	
Toluene	ug/L	<0.29	1.0	10/20/23 09:29	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	10/20/23 09:29	
trans-1,3-Dichloropropene	ug/L	<0.27	1.0	10/20/23 09:29	
Trichloroethene	ug/L	<0.32	1.0	10/20/23 09:29	
Trichlorofluoromethane	ug/L	<0.42	1.0	10/20/23 09:29	
Vinyl chloride	ug/L	<0.17	1.0	10/20/23 09:29	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	10/20/23 09:29	
4-Bromofluorobenzene (S)	%	101	70-130	10/20/23 09:29	
Toluene-d8 (S)	%	103	70-130	10/20/23 09:29	

LABORATORY CONTROL SAMPLE: 2630293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	42.5	85	70-132	
1,1,2,2-Tetrachloroethane	ug/L	50	46.6	93	70-130	
1,1,2-Trichloroethane	ug/L	50	38.7	77	70-130	
1,1-Dichloroethane	ug/L	50	45.6	91	70-130	
1,1-Dichloroethene	ug/L	50	42.9	86	73-140	
1,2,4-Trichlorobenzene	ug/L	50	41.2	82	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	40.1	80	58-130	
1,2-Dibromoethane (EDB)	ug/L	50	41.5	83	70-130	
1,2-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane	ug/L	50	48.6	97	70-130	
1,2-Dichloropropane	ug/L	50	46.5	93	77-127	
1,3-Dichlorobenzene	ug/L	50	50.9	102	70-130	
1,4-Dichlorobenzene	ug/L	50	48.8	98	70-130	
Benzene	ug/L	50	47.7	95	70-130	
Bromodichloromethane	ug/L	50	47.2	94	70-130	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

LABORATORY CONTROL SAMPLE: 2630293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	39.5	79	70-130	
Bromomethane	ug/L	50	37.1	74	22-141	
Carbon tetrachloride	ug/L	50	41.7	83	70-135	
Chlorobenzene	ug/L	50	50.1	100	70-130	
Chloroethane	ug/L	50	45.2	90	59-141	
Chloroform	ug/L	50	47.8	96	80-124	
Chloromethane	ug/L	50	36.4	73	29-150	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	70-130	
cis-1,3-Dichloropropene	ug/L	50	42.7	85	70-130	
Dibromochloromethane	ug/L	50	37.9	76	70-130	
Dichlorodifluoromethane	ug/L	50	20.9	42	10-147	
Ethylbenzene	ug/L	50	49.9	100	80-125	
Isopropylbenzene (Cumene)	ug/L	50	48.7	97	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	40.7	81	64-131	
Methylene Chloride	ug/L	50	50.7	101	70-137	
o-Xylene	ug/L	50	50.9	102	70-130	
Styrene	ug/L	50	60.7	121	70-130	
Tetrachloroethene	ug/L	50	45.2	90	70-130	
Toluene	ug/L	50	49.9	100	80-120	
trans-1,2-Dichloroethene	ug/L	50	45.3	91	70-131	
trans-1,3-Dichloropropene	ug/L	50	38.5	77	70-130	
Trichloroethene	ug/L	50	44.9	90	70-130	
Trichlorofluoromethane	ug/L	50	39.2	78	69-141	
Vinyl chloride	ug/L	50	35.0	70	51-145	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2631109 2631110

Parameter	Units	40269741007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
1,1,1-Trichloroethane	ug/L	<0.30	50	50	46.5	49.4	93	99	70-132	6	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	46.3	47.8	93	96	70-131	3	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	37.7	41.1	75	82	70-130	9	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	46.0	48.5	92	97	70-131	5	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	46.2	49.4	92	99	69-146	7	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	42.5	44.6	85	89	70-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	45.5	45.0	91	90	56-130	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	41.4	42.9	83	86	70-130	4	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	49.8	52.6	100	105	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	50.2	51.5	100	103	70-130	3	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	46.6	50.9	93	102	77-129	9	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
 Pace Project No.: 40269737

Parameter	Units	2631109		2631110		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40269741007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,3-Dichlorobenzene	ug/L	<0.35	50	50	52.7	56.5	105	113	70-130	7	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	49.7	52.5	99	105	70-130	5	20		
Benzene	ug/L	<0.30	50	50	49.4	51.9	99	104	70-130	5	20		
Bromodichloromethane	ug/L	<0.42	50	50	48.0	50.7	96	101	70-130	5	20		
Bromoform	ug/L	<0.43	50	50	40.2	41.7	80	83	70-130	4	20		
Bromomethane	ug/L	<1.2	50	50	46.5	50.1	93	100	12-159	8	26		
Carbon tetrachloride	ug/L	<0.37	50	50	46.6	49.8	93	100	70-135	7	20		
Chlorobenzene	ug/L	<0.86	50	50	52.1	54.8	104	110	70-130	5	20		
Chloroethane	ug/L	<1.4	50	50	48.5	52.2	97	104	56-143	7	20		
Chloroform	ug/L	<0.50	50	50	47.5	50.5	95	101	80-126	6	20		
Chloromethane	ug/L	<1.6	50	50	37.8	38.8	76	78	22-156	3	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	45.9	49.1	92	98	70-130	7	20		
cis-1,3-Dichloropropene	ug/L	<0.24	50	50	43.4	45.3	87	91	70-130	4	20		
Dibromochloromethane	ug/L	<2.6	50	50	38.2	40.3	76	81	70-130	5	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	23.5	25.3	47	51	10-147	8	20		
Ethylbenzene	ug/L	<0.33	50	50	53.1	56.4	106	113	80-126	6	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	51.8	56.0	104	112	70-130	8	20		
m&p-Xylene	ug/L	<0.70	100	100	108	115	108	115	70-130	6	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	40.2	42.4	80	85	64-136	5	20		
Methylene Chloride	ug/L	<0.32	50	50	52.2	53.9	104	108	70-137	3	20		
o-Xylene	ug/L	<0.35	50	50	52.4	55.4	105	111	70-130	6	20		
Styrene	ug/L	<0.36	50	50	61.7	66.1	123	132	70-133	7	20		
Tetrachloroethene	ug/L	<0.41	50	50	49.1	52.6	98	105	70-131	7	20		
Toluene	ug/L	<0.29	50	50	51.8	56.1	104	112	80-121	8	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	47.8	49.9	96	100	70-135	4	20		
trans-1,3-Dichloropropene	ug/L	<0.27	50	50	38.5	41.2	77	82	70-130	7	20		
Trichloroethene	ug/L	<0.32	50	50	49.3	50.9	99	102	70-130	3	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	43.5	46.5	87	93	67-142	7	20		
Vinyl chloride	ug/L	<0.17	50	50	39.0	41.8	78	84	45-147	7	20		
1,2-Dichlorobenzene-d4 (S)	%						98	99	70-130				
4-Bromofluorobenzene (S)	%						105	105	70-130				
Toluene-d8 (S)	%						103	103	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

QC Batch: 458025

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40269737001, 40269737002, 40269737003, 40269737004, 40269737005, 40269737006, 40269737007, 40269737008, 40269737009, 40269737010, 40269737011, 40269737012, 40269737013, 40269737014, 40269737015, 40269737016, 40269737017, 40269737018, 40269737019, 40269737020

METHOD BLANK: 2630307

Matrix: Water

Associated Lab Samples: 40269737001, 40269737002, 40269737003, 40269737004, 40269737005, 40269737006, 40269737007, 40269737008, 40269737009, 40269737010, 40269737011, 40269737012, 40269737013, 40269737014, 40269737015, 40269737016, 40269737017, 40269737018, 40269737019, 40269737020

Table with 6 columns: Parameter, Units, Blank Result, Reporting Limit, Analyzed, Qualifiers. Lists various chemical compounds and their detection results.

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

METHOD BLANK: 2630307

Matrix: Water

Associated Lab Samples: 40269737001, 40269737002, 40269737003, 40269737004, 40269737005, 40269737006, 40269737007, 40269737008, 40269737009, 40269737010, 40269737011, 40269737012, 40269737013, 40269737014, 40269737015, 40269737016, 40269737017, 40269737018, 40269737019, 40269737020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.99	5.0	10/19/23 15:37	
Dichlorodifluoromethane	ug/L	<0.46	5.0	10/19/23 15:37	
Diisopropyl ether	ug/L	<1.1	5.0	10/19/23 15:37	
Ethylbenzene	ug/L	<0.33	1.0	10/19/23 15:37	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	10/19/23 15:37	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	10/19/23 15:37	
m&p-Xylene	ug/L	<0.70	2.0	10/19/23 15:37	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	10/19/23 15:37	
Methylene Chloride	ug/L	<0.32	5.0	10/19/23 15:37	
n-Butylbenzene	ug/L	<0.86	1.0	10/19/23 15:37	
n-Propylbenzene	ug/L	<0.35	1.0	10/19/23 15:37	
Naphthalene	ug/L	<1.9	5.0	10/19/23 15:37	
o-Xylene	ug/L	<0.35	1.0	10/19/23 15:37	
p-Isopropyltoluene	ug/L	<1.0	5.0	10/19/23 15:37	
sec-Butylbenzene	ug/L	<0.42	1.0	10/19/23 15:37	
Styrene	ug/L	<0.36	1.0	10/19/23 15:37	
tert-Butylbenzene	ug/L	<0.59	1.0	10/19/23 15:37	
Tetrachloroethene	ug/L	<0.41	1.0	10/19/23 15:37	
Tetrahydrofuran	ug/L	<2.4	25.0	10/19/23 15:37	
Toluene	ug/L	<0.29	1.0	10/19/23 15:37	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	10/19/23 15:37	
trans-1,3-Dichloropropene	ug/L	<0.27	1.0	10/19/23 15:37	
Trichloroethene	ug/L	<0.32	1.0	10/19/23 15:37	
Trichlorofluoromethane	ug/L	<0.42	1.0	10/19/23 15:37	
Vinyl chloride	ug/L	<0.17	1.0	10/19/23 15:37	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	10/19/23 15:37	
4-Bromofluorobenzene (S)	%	98	70-130	10/19/23 15:37	
Toluene-d8 (S)	%	103	70-130	10/19/23 15:37	

LABORATORY CONTROL SAMPLE: 2630308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.3	105	70-132	
1,1,1,2-Tetrachloroethane	ug/L	50	52.8	106	70-130	
1,1,2-Trichloroethane	ug/L	50	43.5	87	70-130	
1,1-Dichloroethane	ug/L	50	52.9	106	70-130	
1,1-Dichloroethene	ug/L	50	54.8	110	73-140	
1,2,4-Trichlorobenzene	ug/L	50	42.9	86	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.7	95	58-130	
1,2-Dibromoethane (EDB)	ug/L	50	46.5	93	70-130	
1,2-Dichlorobenzene	ug/L	50	52.0	104	70-130	
1,2-Dichloroethane	ug/L	50	56.1	112	70-130	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

LABORATORY CONTROL SAMPLE: 2630308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	52.8	106	77-127	
1,3-Dichlorobenzene	ug/L	50	53.7	107	70-130	
1,4-Dichlorobenzene	ug/L	50	52.1	104	70-130	
Benzene	ug/L	50	53.5	107	70-130	
Bromodichloromethane	ug/L	50	53.8	108	70-130	
Bromoform	ug/L	50	44.5	89	70-130	
Bromomethane	ug/L	50	45.1	90	22-141	
Carbon tetrachloride	ug/L	50	51.6	103	70-135	
Chlorobenzene	ug/L	50	54.5	109	70-130	
Chloroethane	ug/L	50	58.0	116	59-141	
Chloroform	ug/L	50	54.3	109	80-124	
Chloromethane	ug/L	50	48.0	96	29-150	
cis-1,2-Dichloroethene	ug/L	50	50.3	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	70-130	
Dibromochloromethane	ug/L	50	42.2	84	70-130	
Dichlorodifluoromethane	ug/L	50	35.3	71	10-147	
Ethylbenzene	ug/L	50	55.0	110	80-125	
Isopropylbenzene (Cumene)	ug/L	50	53.3	107	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	48.8	98	64-131	
Methylene Chloride	ug/L	50	57.0	114	70-137	
o-Xylene	ug/L	50	53.0	106	70-130	
Styrene	ug/L	50	65.0	130	70-130	
Tetrachloroethene	ug/L	50	52.5	105	70-130	
Toluene	ug/L	50	54.3	109	80-120	
trans-1,2-Dichloroethene	ug/L	50	52.1	104	70-131	
trans-1,3-Dichloropropene	ug/L	50	42.5	85	70-130	
Trichloroethene	ug/L	50	52.8	106	70-130	
Trichlorofluoromethane	ug/L	50	51.8	104	69-141	
Vinyl chloride	ug/L	50	47.4	95	51-145	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2630309 2630310

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40269737016 Result	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	51.3	51.1	103	102	70-132	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	55.4	53.6	111	107	70-131	3	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	44.0	44.0	88	88	70-130	0	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	51.3	51.7	103	103	70-131	1	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	53.2	55.3	106	111	69-146	4	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	44.9	44.2	90	88	70-130	1	20		

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2630309				2630310								
Parameter	Units	40269737016 Result	MS	MSD	MS	MSD	MS	MSD	% Rec		Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	52.6	49.8	105	100	56-130	5	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	47.0	47.3	94	95	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	52.6	53.7	105	107	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	55.2	54.4	110	109	70-130	1	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	53.5	52.9	107	106	77-129	1	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	54.3	55.4	109	111	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	52.9	52.4	106	105	70-130	1	20	
Benzene	ug/L	0.66J	50	50	53.8	53.6	106	106	70-130	0	20	
Bromodichloromethane	ug/L	<0.42	50	50	54.0	53.6	108	107	70-130	1	20	
Bromoform	ug/L	<0.43	50	50	46.3	45.2	93	90	70-130	2	20	
Bromomethane	ug/L	<1.2	50	50	51.7	51.5	103	103	12-159	0	26	
Carbon tetrachloride	ug/L	<0.37	50	50	51.7	51.9	103	104	70-135	0	20	
Chlorobenzene	ug/L	<0.86	50	50	55.1	56.0	110	112	70-130	2	20	
Chloroethane	ug/L	<1.4	50	50	56.8	54.2	114	108	56-143	5	20	
Chloroform	ug/L	<0.50	50	50	53.5	53.8	107	108	80-126	0	20	
Chloromethane	ug/L	<1.6	50	50	48.3	47.9	97	96	22-156	1	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	50.1	50.8	100	102	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.24	50	50	46.3	46.5	93	93	70-130	0	20	
Dibromochloromethane	ug/L	<2.6	50	50	43.3	42.3	87	85	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	35.2	33.6	70	67	10-147	5	20	
Ethylbenzene	ug/L	<0.33	50	50	55.2	55.3	110	111	80-126	0	20	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	53.0	54.6	106	109	70-130	3	20	
m&p-Xylene	ug/L	<0.70	100	100	107	112	107	112	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	47.7	48.6	95	97	64-136	2	20	
Methylene Chloride	ug/L	<0.32	50	50	57.8	57.1	116	114	70-137	1	20	
o-Xylene	ug/L	<0.35	50	50	53.4	54.5	107	109	70-130	2	20	
Styrene	ug/L	<0.36	50	50	65.2	66.1	130	132	70-133	1	20	
Tetrachloroethene	ug/L	<0.41	50	50	51.5	51.4	103	103	70-131	0	20	
Toluene	ug/L	<0.29	50	50	54.2	54.8	108	110	80-121	1	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	52.8	52.7	106	105	70-135	0	20	
trans-1,3-Dichloropropene	ug/L	<0.27	50	50	43.3	43.0	87	86	70-130	1	20	
Trichloroethene	ug/L	<0.32	50	50	52.4	51.8	105	104	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.42	50	50	51.7	51.4	103	103	67-142	1	20	
Vinyl chloride	ug/L	0.32J	50	50	47.7	47.2	95	94	45-147	1	20	
1,2-Dichlorobenzene-d4 (S)	%						100	101	70-130			
4-Bromofluorobenzene (S)	%						104	104	70-130			
Toluene-d8 (S)	%						103	102	70-130			

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

QC Batch:	458760	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia, Distilled
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40269737018, 40269737020, 40269737021

METHOD BLANK: 2634840 Matrix: Water

Associated Lab Samples: 40269737018, 40269737020, 40269737021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.14	0.50	10/26/23 21:15	

LABORATORY CONTROL SAMPLE: 2634841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2634842 2634843

Parameter	Units	2634842		2634843		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result						
Nitrogen, Ammonia	mg/L	157	500	657	658	100	100	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2634844 2634845

Parameter	Units	2634844		2634845		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result						
Nitrogen, Ammonia	mg/L	<0.14	10	10.2	10.2	102	102	90-110	0	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

QC Batch: 458495

Analysis Method: EPA 351.2

QC Batch Method: EPA 351.2

Analysis Description: 351.2 TKN

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40269737018, 40269737020, 40269737021

METHOD BLANK: 2633118

Matrix: Water

Associated Lab Samples: 40269737018, 40269737020, 40269737021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	10/25/23 01:08	

LABORATORY CONTROL SAMPLE: 2633119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	5.2	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2633120 2633121

Parameter	Units	2633120		2633121		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40269882001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, Kjeldahl, Total	mg/L	0.59J	5	5	5.7	5.6	101	100	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2633122 2633123

Parameter	Units	2633122		2633123		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40269720001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, Kjeldahl, Total	mg/L	4.7	5	5	10.1	9.7	108	101	90-110	4	20	

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QUALIFIERS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

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.

DL - Adjusted Method Detection Limit.

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).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40269737001	MW-16A	EPA 8260	458025		
40269737002	MW-16B	EPA 8260	458025		
40269737003	MW-16B DUP	EPA 8260	458025		
40269737004	MW-16C	EPA 8260	458025		
40269737005	MW-26B	EPA 8260	458025		
40269737006	MW-26C	EPA 8260	458025		
40269737007	MW-18B	EPA 8260	458025		
40269737008	MW-18C	EPA 8260	458025		
40269737009	MW-18A	EPA 8260	458025		
40269737010	FIELD BLANK	EPA 8260	458025		
40269737011	MW-25B	EPA 8260	458025		
40269737012	MW-5A	EPA 8260	458025		
40269737013	MW-4A	EPA 8260	458025		
40269737014	MW-4A DUP	EPA 8260	458025		
40269737015	MW-20A	EPA 8260	458025		
40269737016	MW-20B	EPA 8260	458025		
40269737017	MW-20C	EPA 8260	458025		
40269737018	MW-2A	EPA 8260	458025		
40269737019	MW-2B	EPA 8260	458025		
40269737020	MW-21A	EPA 8260	458025		
40269737021	MW-3A	EPA 8260	458023		
40269737022	MW-27A	EPA 8260	458023		
40269737023	MW-28A	EPA 8260	458023		
40269737024	TRIP BLANK	EPA 8260	458023		
40269737001	MW-16A				
40269737002	MW-16B				
40269737003	MW-16B DUP				
40269737004	MW-16C				
40269737005	MW-26B				
40269737006	MW-26C				
40269737007	MW-18B				
40269737008	MW-18C				
40269737009	MW-18A				
40269737011	MW-25B				
40269737012	MW-5A				
40269737013	MW-4A				
40269737014	MW-4A DUP				
40269737015	MW-20A				
40269737016	MW-20B				
40269737017	MW-20C				
40269737018	MW-2A				
40269737019	MW-2B				
40269737020	MW-21A				
40269737021	MW-3A				
40269737022	MW-27A				
40269737023	MW-28A				
40269737018	MW-2A	EPA 350.1	458760	EPA 350.1	458764

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40269737

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40269737020	MW-21A	EPA 350.1	458760	EPA 350.1	458764
40269737021	MW-3A	EPA 350.1	458760	EPA 350.1	458764
40269737018	MW-2A	EPA 351.2	458495	EPA 351.2	458501
40269737020	MW-21A	EPA 351.2	458495	EPA 351.2	458501
40269737021	MW-3A	EPA 351.2	458495	EPA 351.2	458501

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here **40269731**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: GHD		Billing Information:	
Address: 900 Long Lake RD Suite 200			
Report To: Grant Anderson		Email To: Grant.Anderson@GHD.Com	
Copy To:		Site Collection Info/Address:	
Customer Project Name/Number: 1115796		State: / County/City: Time Zone Collected: []PT []MT []CT []ET	
Phone: Site/Facility ID #: Compliance Monitoring? [] Yes [] No			
Email:			
Collected By (print): Taylor Galt		Purchase Order #: Quote #: DW PWS ID #: DW Location Code:	
Collected By (signature):		Turnaround Date Required: Immediately Packed on Ice: [] Yes [] No	
Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [] Hold: Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [] Yes [] No Analysis:			

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type ** **3**

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:
	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact Y N NA
	Custody Signatures Present Y N NA
	Collector Signature Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: Y N NA
	Sample pH Acceptable Y N NA
	pH Strips: Y N NA
	Sulfide Present Y N NA
	Lead Acetate Strips:
	LAB USE ONLY:
	Lab Sample # / Comments: 001-010

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
W-231016-RA-01	GW	6/lab	10/6/23	1337			3	X
W-231016-RA-02				1347			3	X
V-231016-RA-03				-			3	X
W-231016-RA-04				1427			3	X
W-231016-RA-05				1523			3	X
W-231016-RA-06				1542			3	X
W-231016-RA-07				1604			3	X
W-231016-RA-08				1622			3	X
W-231016-RA-09				1637			3	X
W-231016-RA-10	DW			1609			3	X

50600 VOA'S

GRANT

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A
	Packing Material Used:	Lab Tracking #: 2881449
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: **Y N NA**

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____ oC

Cooler 1 Therm Corr. Factor: _____ oC

Cooler 1 Corrected Temp: _____ oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
GHD	10-17-23/1115			Table #: 01
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: 01
Fedex	10/17/23 09:15	E. J. [Signature]	10/17/23 09:15	Template: 01
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Prelogin:
				PM:
				PB:

Trip Blank Received: **Y N NA**

HCL MeOH TSP Other

Non Conformance(s): **Page 67 of 72**
YES / NO of: **5**



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40269731

ALL SHADED AREAS are for LAB USE ONLY

Company: GHD
 Address: 900 Long Lake RD Suite 200
 Report To: Grant Anderson

Billing Information:
 Email To: Grant.Anderson@GHD.com
 Site Collection Info/Address:

Customer Project Name/Number:
1115796

State: / County/City: / Time Zone Collected:
 [] PT [] MT [] CT [] ET

Phone: _____
 Email: _____

Site/Facility ID #: _____
 Compliance Monitoring?
 Yes No

DW PWS ID #: _____
 DW Location Code: _____

Collected By (print): Taylor Cole

Purchase Order #: _____
 Quote #: _____

Immediately Packed on Ice:
 Yes No

Collected By (signature): [Signature]

Turnaround Date Required: _____

Field Filtered (if applicable):
 Yes No

Sample Disposal:
 Dispose as appropriate [] Return
 Archive: _____
 Hold: _____

Rush:
 Same Day Next Day
 2 Day 3 Day 4 Day 5 Day
 (Expedite Charges Apply)

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
<u>w-231016-RA-11</u>	<u>GW</u>	<u>6/25</u>	<u>10-16-23</u>	<u>1655</u>				<u>3</u>
<u>w-231016-RA-12</u>	<u>GW</u>	<u> </u>	<u> </u>	<u>1720</u>				<u>3</u>
<u>w-231016-RA-13</u>	<u>GW</u>	<u> </u>	<u> </u>	<u>1722</u>				<u>3</u>
<u>w-231016-RA-14</u>	<u>GW</u>	<u> </u>	<u> </u>	<u>-</u>				<u>3</u>
<u>w-231017-RA-16</u>	<u>GW</u>	<u> </u>	<u>10-17-23</u>	<u>0807</u>				<u>3</u>
<u>w-231017-RA-17</u>	<u>GW</u>	<u> </u>	<u> </u>	<u>0811</u>			<u>X</u>	<u>3</u>
<u>w-231017-RA-18</u>	<u>GW</u>	<u> </u>	<u> </u>	<u>0826</u>				<u>3</u>
<u>w-231017-RA-19</u>	<u>GW</u>	<u> </u>	<u> </u>	<u>0902</u>			<u>X</u>	<u>4</u>
<u>w-231017-RA-20</u>	<u>GW</u>	<u> </u>	<u> </u>	<u>0910</u>				<u>3</u>
<u>w-231017-RA-21</u>	<u>GW</u>	<u> </u>	<u> </u>	<u>0933</u>			<u>X</u>	<u>4</u>

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
 Custody Seals Present/Intact Y N NA
 Custody Signatures Present Y N NA
 Collector Signature Present Y N NA
 Bottles Intact Y N NA
 Correct Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: _____
 Sample pH Acceptable Y N NA
 pH Strips: _____
 Sulfide Present Y N NA
 Lead Acetate Strips: _____
 LAB USE ONLY:
 Lab Sample # / Comments: _____

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None
 SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: [Signature]
 Radchem sample(s) screened (<500 cpm): Y N NA

Lab Tracking #: 2881450
 Samples received via:
 FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: _____ °C
 Cooler 1 Therm Corr. Factor: _____ °C
 Cooler 1 Corrected Temp: _____ °C
 Comments: _____

Relinquished by/Company: (Signature)
[Signature] GHD
 Relinquished by/Company: (Signature)
[Signature] Fedex
 Relinquished by/Company: (Signature)

Date/Time:
10-17-23/1115
10/16/23 0925

Received by/Company: (Signature)
[Signature]
[Signature]

Date/Time:
10/16/23 0925

MTJL LAB USE ONLY
 Table #: _____
 Acctnum: [Signature]
 Template: _____
 Prelogin: _____
 PM: _____
 PB: _____

Trip Blank Received: Y N NA
 HCL MeOH TSP Other _____
 Non Conformance(s): Page 62 of 72
 YES / NO of: 3



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40269737

ALL SHADED AREAS are for LAB USE ONLY

Company: **GHD**
Address: **900 Long Lake RD Suite 200**
Report To: **Grant Anderson**
Copy To:

Billing Information:
Email To: **Grant.Anderson@ghd.com**
Site Collection Info/Address:
State: / County/City: Time Zone Collected: [] PT [] MT [] CT [] ET

Container Preservative Type **: **3**
Lab Project Manager:
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: **14157dk**
Phone: Site/Facility ID #: Compliance Monitoring? [] Yes [] No
Email: **Taylor GWP**
Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (print): **Taylor GWP** Turnaround Date Required: Immediately Packed on Ice:
Collected By (signature): **Taylor GWP** [] Yes [] No
Sample Disposal: Rush: [] Same Day [] Next Day Field Filtered (if applicable):
[] Dispose as appropriate [] Return [] 2 Day [] 3 Day [] 4 Day [] 5 Day [] Yes [] No
[] Archive. [] 2 Day [] 3 Day [] 4 Day [] 5 Day
[] Hold: (Expedite Charges Apply) Analysis:

Analyses
Lab Profile/Line:
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Solids Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: Y N NA
Sample pH Acceptable Y N NA
pH Strips: Y N NA
Sulfide Present Y N NA
Lead Acetate Strips:
LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
W-231017-RA-22	GW	6rb	10-17-23	0957				4
W-231017-RA-23	GW	6rb	10-17-23	1052				3
W-231017-RA-24 Top Blank	GW	6rb	10-17-23	1046				3

Analyses	Lab Profile/Line:
VOCs	X
Asbestos	X

Vertical handwritten text: APPROX ANNONALYTICAL

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None
Packing Material Used: **2**
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #: **2881448**
Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____ °C
Cooler 1 Therm Corr. Factor: _____ °C
Cooler 1 Corrected Temp: _____ °C
Comments:

Relinquished by/Company: (Signature) **GHD** Date/Time: **10-17-23 115**
Relinquished by/Company: (Signature) **Fedex** Date/Time: **10/18/23 0905**
Relinquished by/Company: (Signature)

Received by/Company: (Signature) Date/Time: **10/18/23 0905**
Received by/Company: (Signature) Date/Time: **10/18/23 0905**
Received by/Company: (Signature)

MTJL LAB USE ONLY
Table #: **1**
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other
Non Conformance(s): Page 69 of 72
YES / NO of: **3**

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: GHD

WO#: **40269737**



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

Tracking #: 8574 3158 0930

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-109 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr: 0.0 Corr: 0.0

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 10/18/23 / Initials: SG

Labeled By Initials: TW

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: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: <input type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay, Pace IR, Non-Pace</u>	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>no times</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>	
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>received, lab added to coc</u>
Trip Blank Custody Seals Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>508</u>	<u>10/18/23 SG</u> <u>10/18/23 SG</u>

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

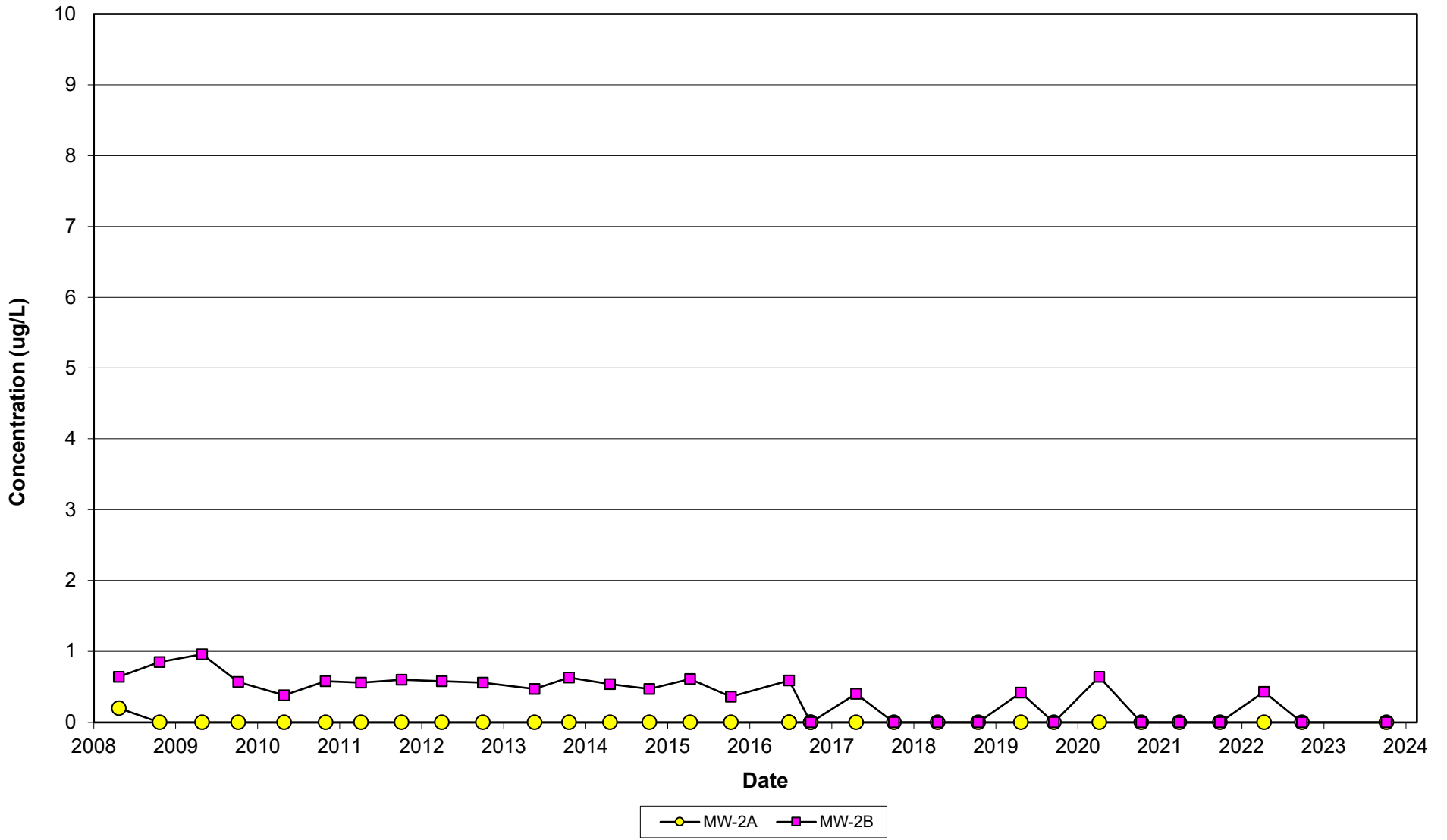
Comments/ Resolution: _____

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

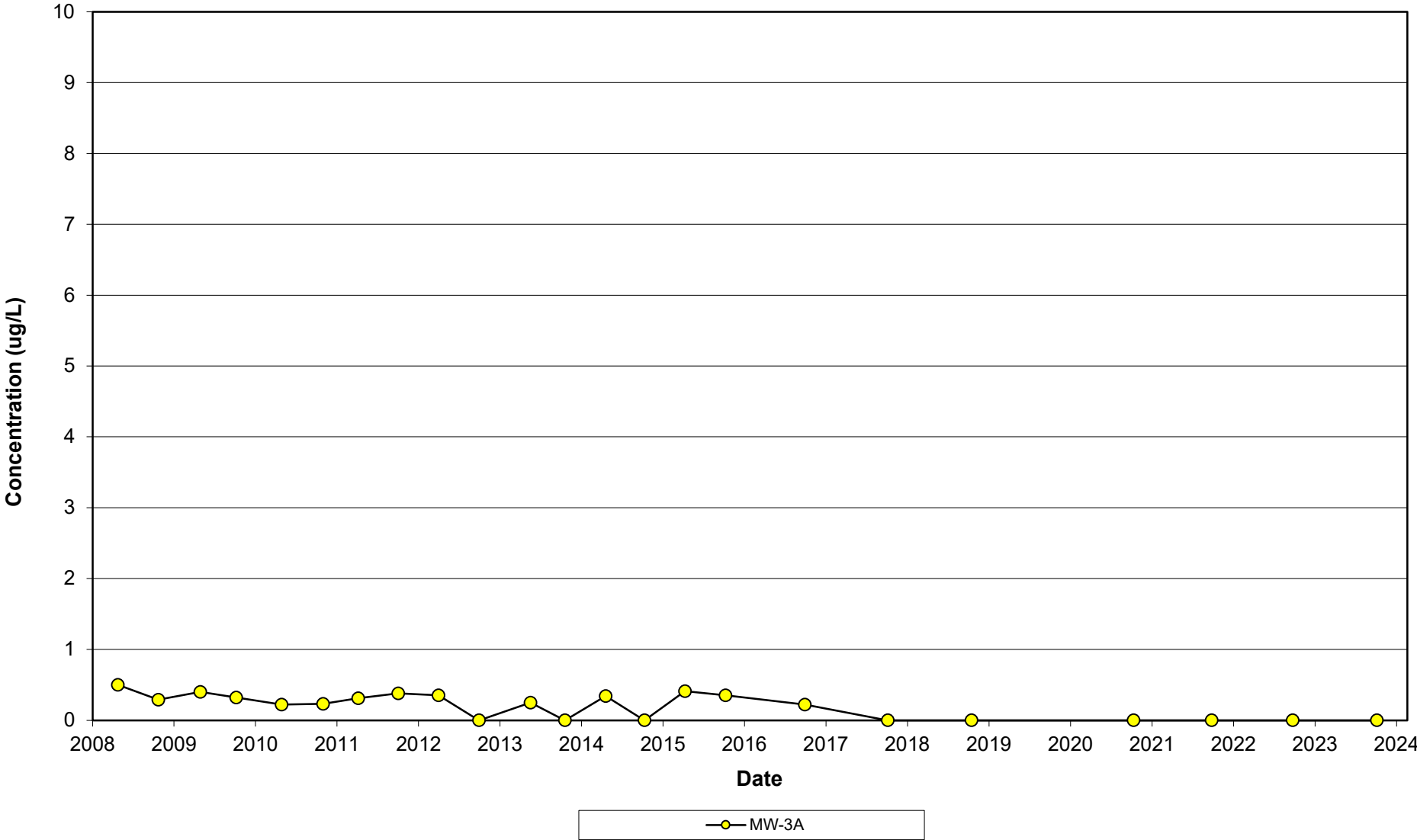
Appendix C

Vinyl Chloride Graphs

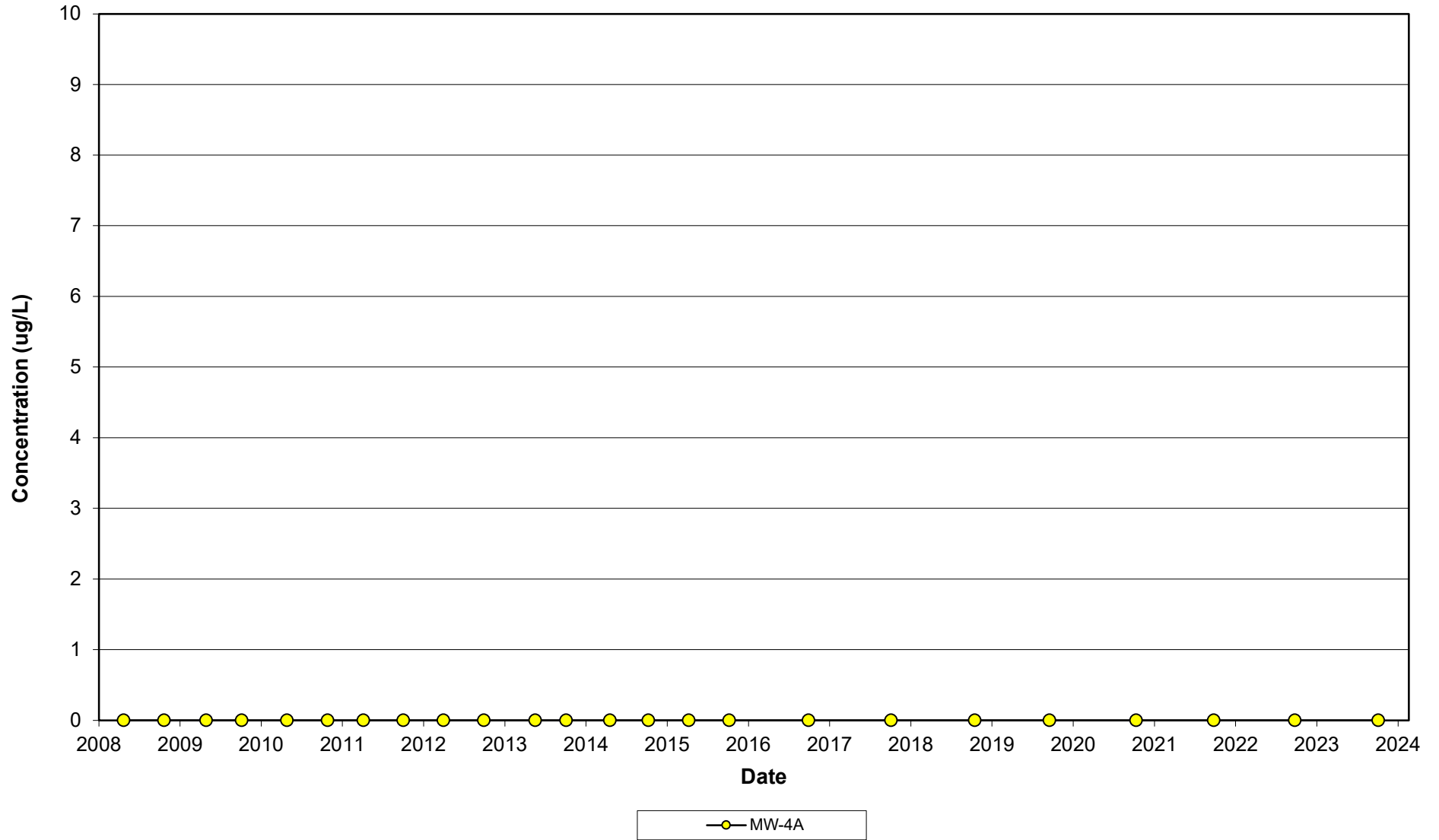
Vinyl Chloride Concentrations Over Time
(MW-2 NEST)
Rhinelanders Landfill
Rhinelanders, Wisconsin



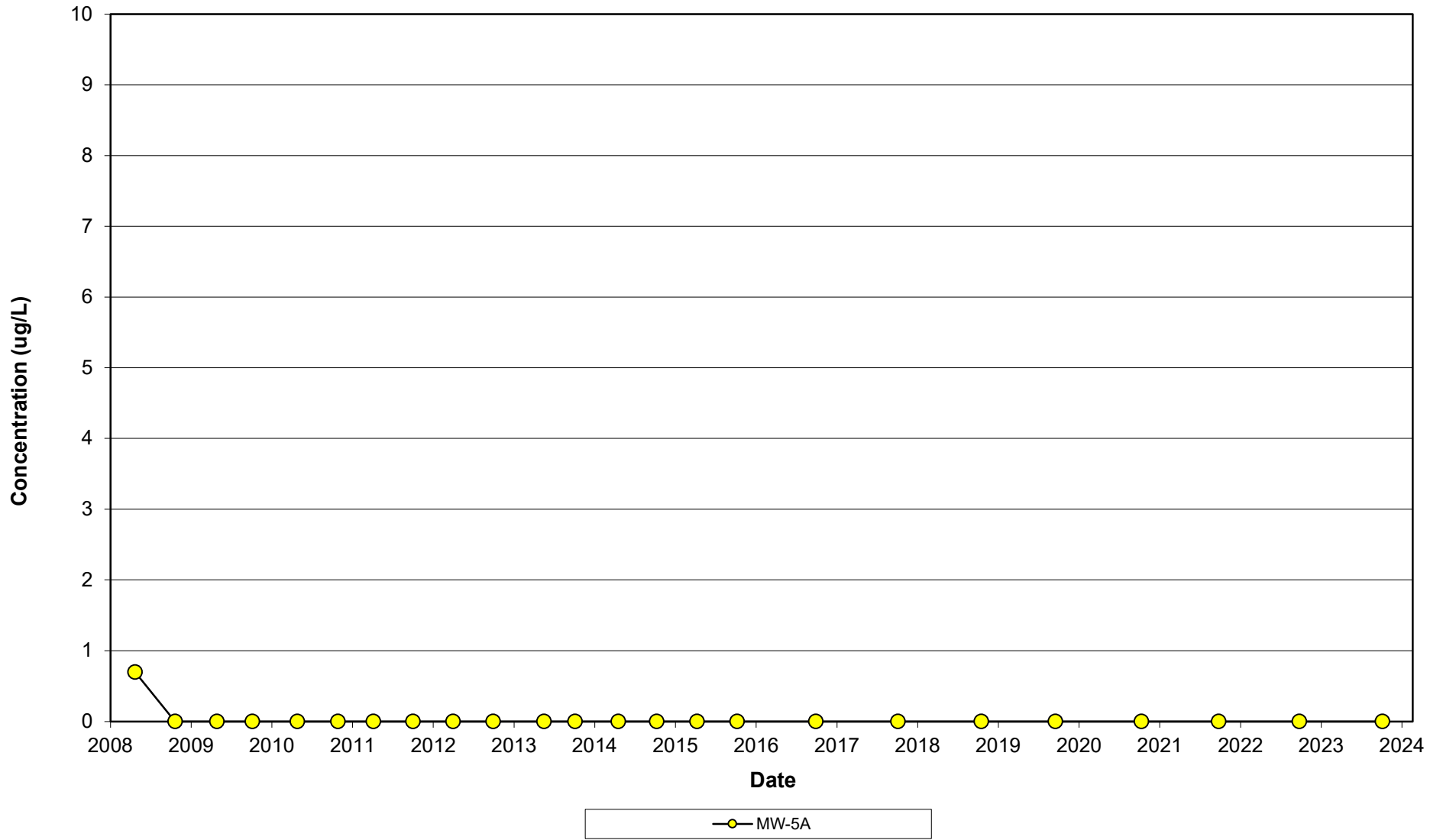
Vinyl Chloride Concentrations Over Time
(MW-3A)
Rhinelanders Landfill
Rhinelanders, Wisconsin



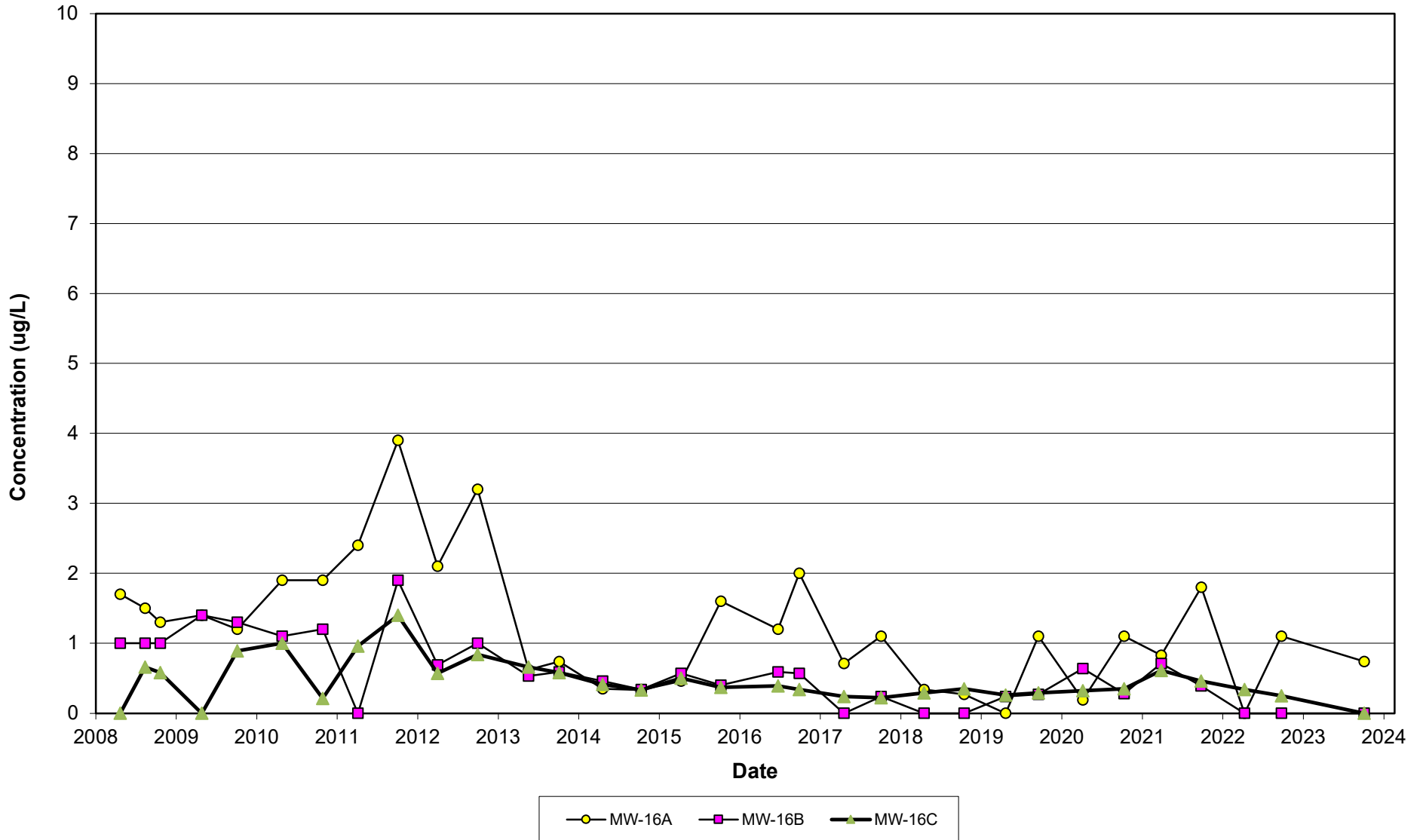
Vinyl Chloride Concentrations Over Time
(MW-4A)
Rhinelanders Landfill
Rhinelanders, Wisconsin



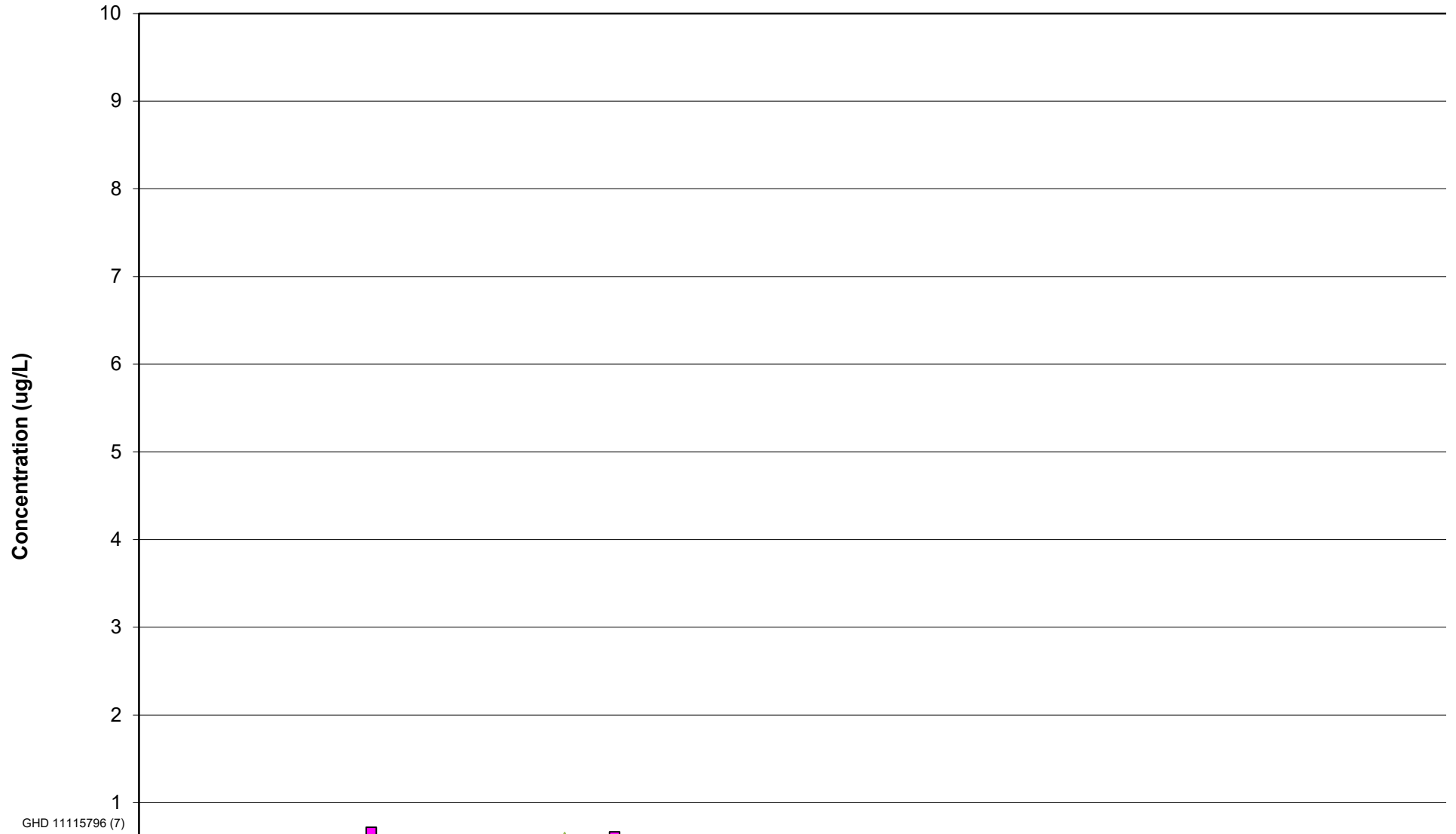
Vinyl Chloride Concentrations Over Time
(MW-5A)
Rhinelanders Landfill
Rhinelanders, Wisconsin



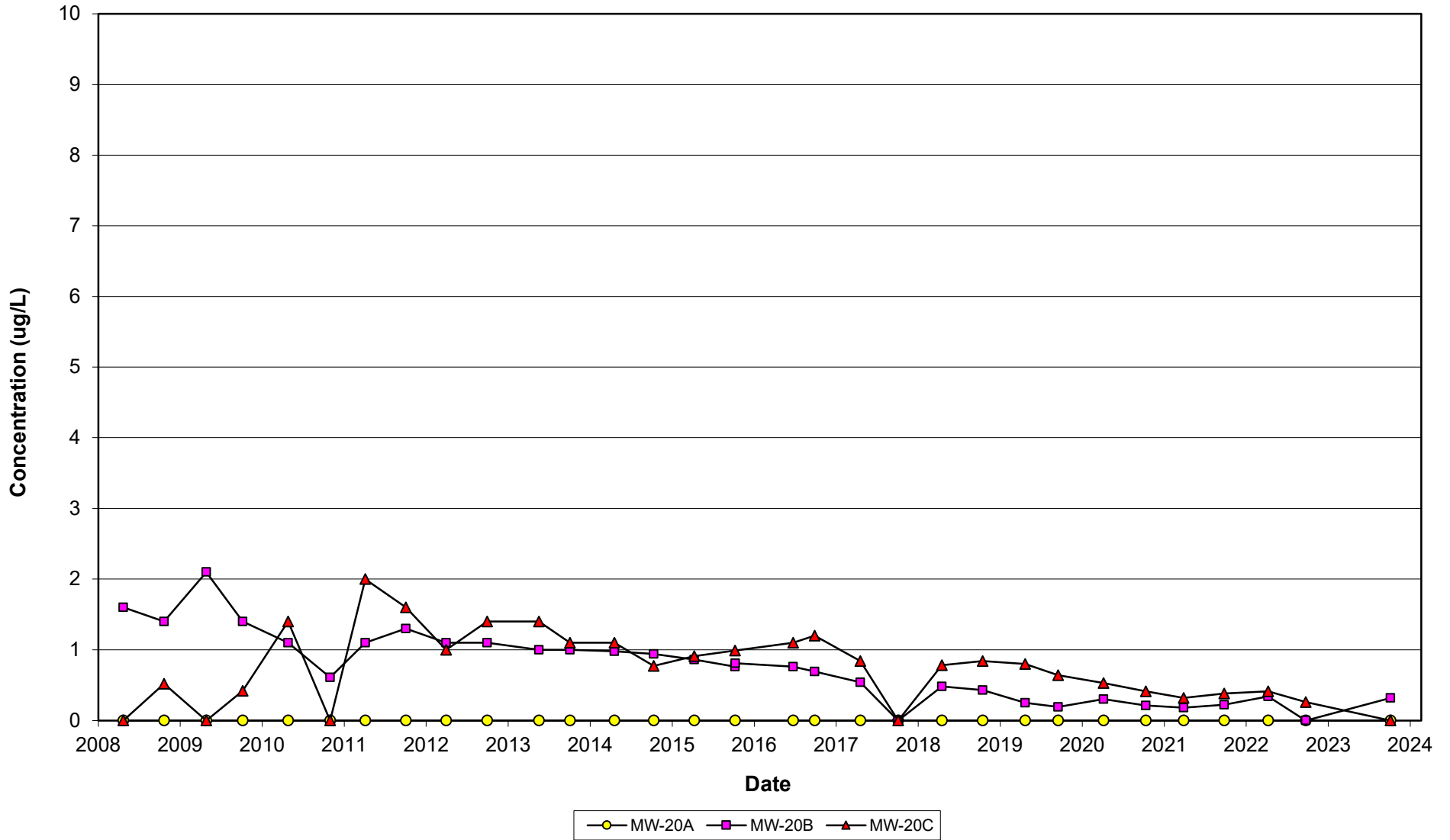
Vinyl Chloride Concentrations Over Time
(MW-16 NEST)
Rhinelanders Landfill
Rhinelanders, Wisconsin



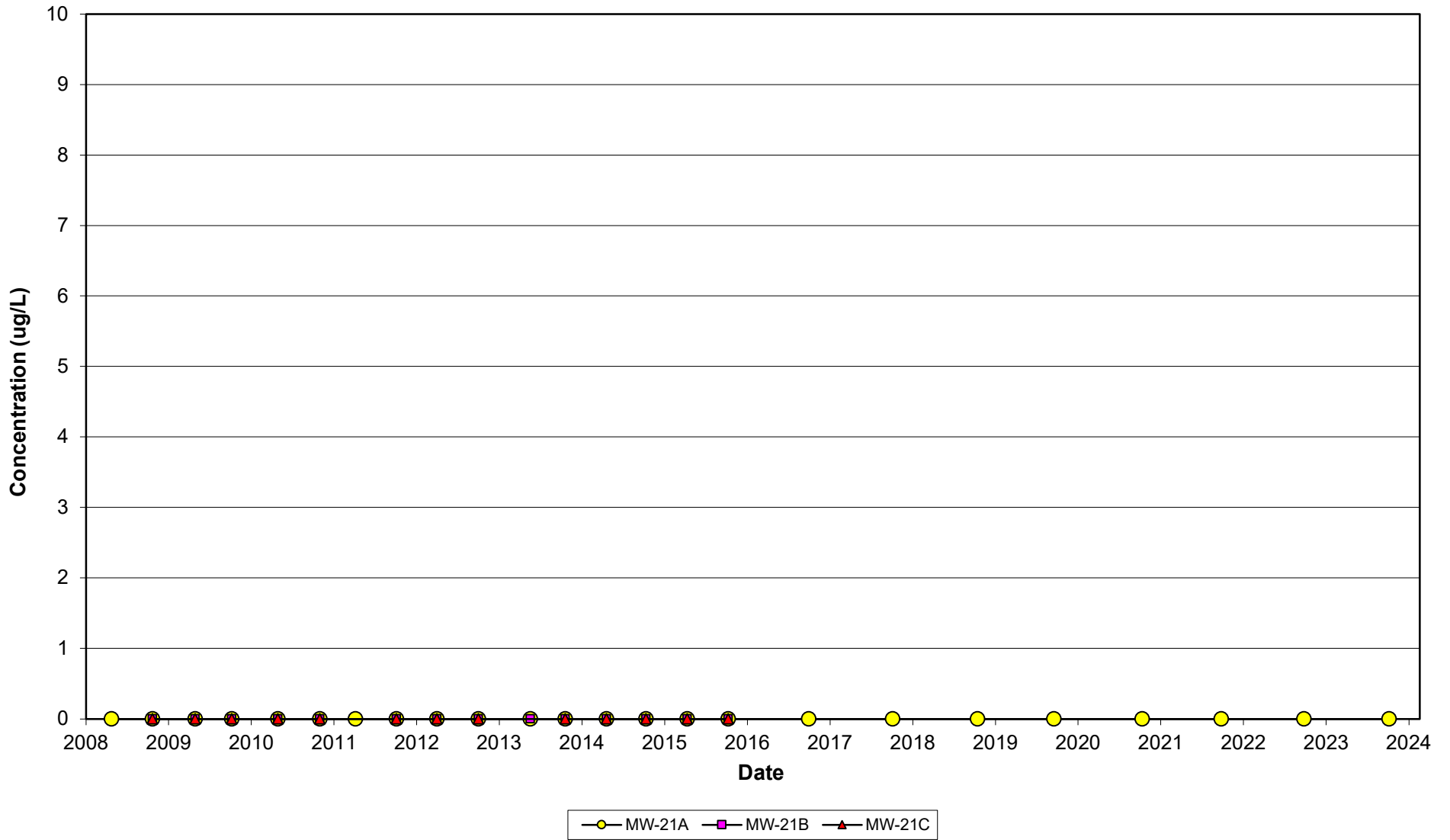
Vinyl Chloride Concentrations Over Time
(MW-18 NEST)
Rhinelanders Landfill
Rhinelanders, Wisconsin



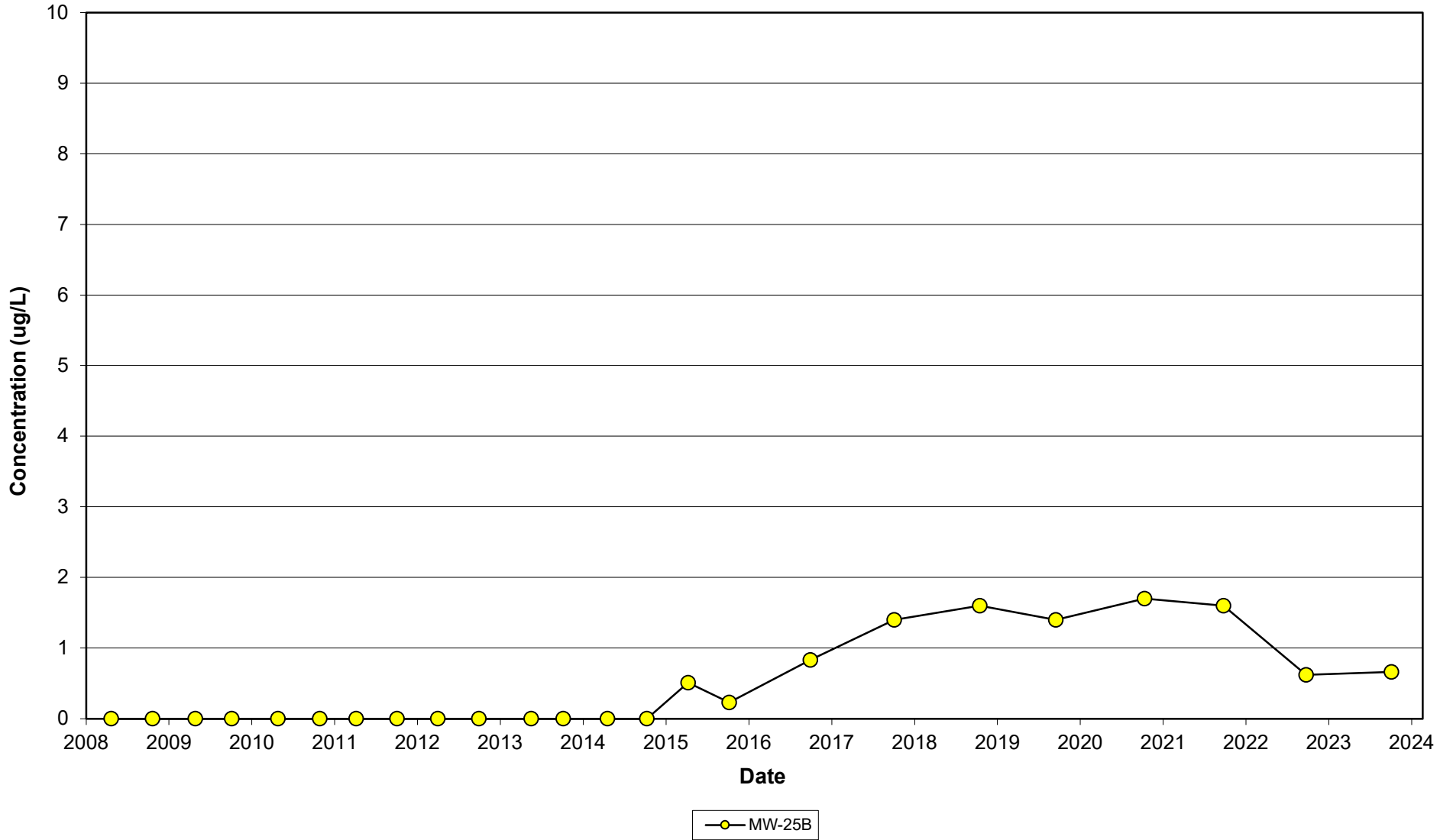
Vinyl Chloride Concentrations Over Time
(MW-20 NEST)
Rhineland Landfill
Rhineland, Wisconsin



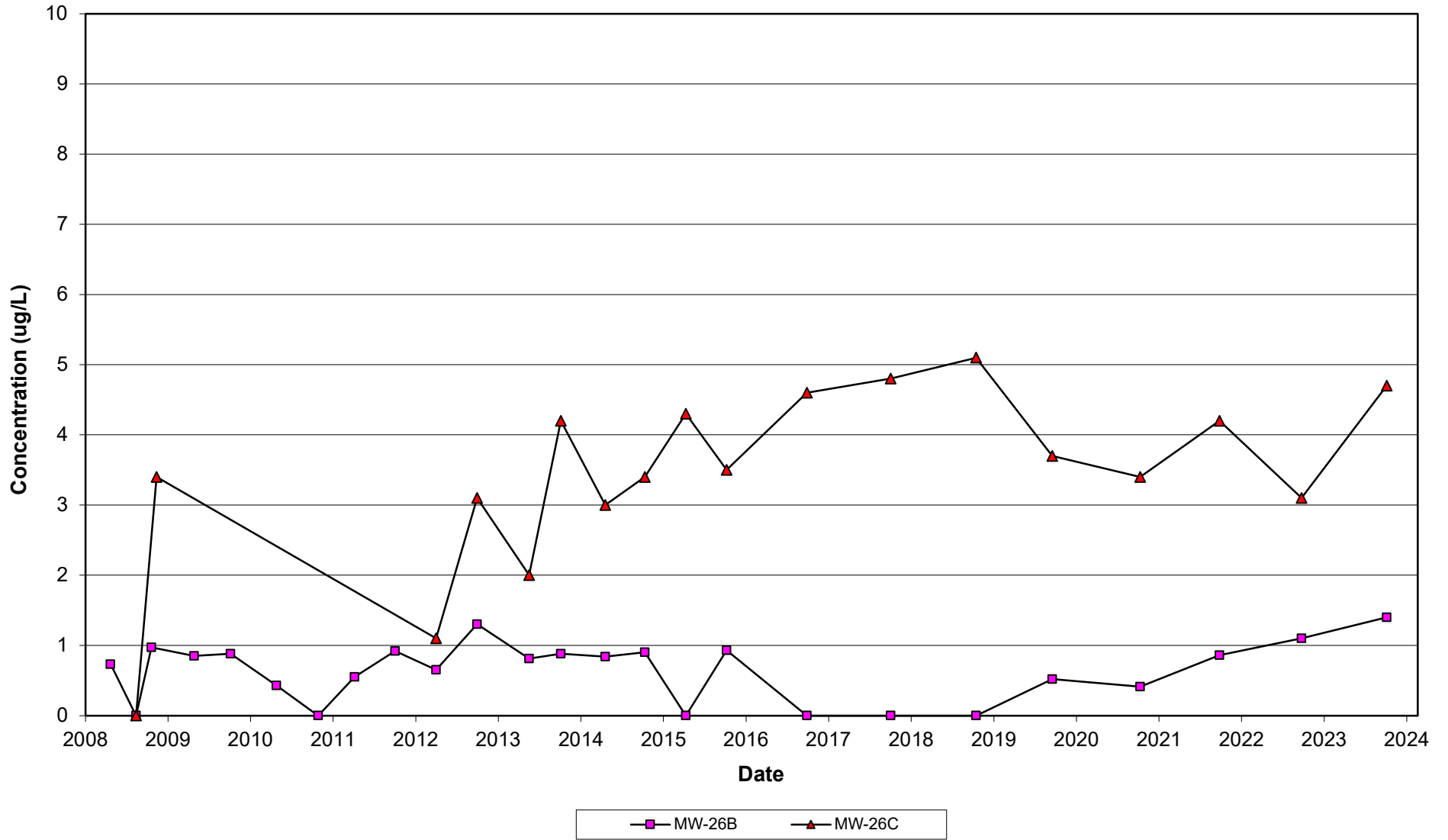
Vinyl Chloride Concentrations Over Time
(MW-21 NEST)
Rhineland Landfill
Rhineland, Wisconsin



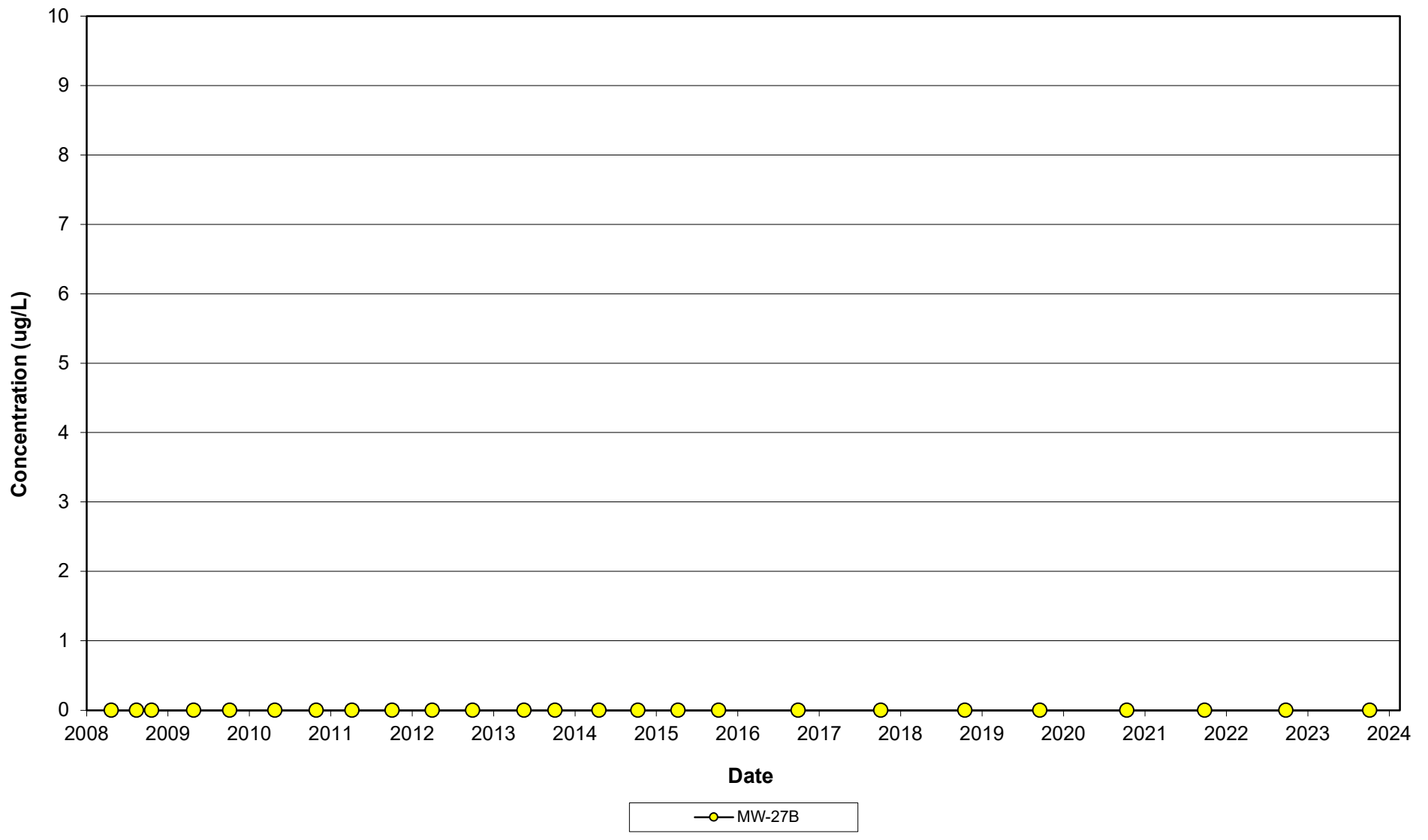
Vinyl Chloride Concentrations Over Time
(MW-25B)
Rhineland Landfill
Rhineland, Wisconsin



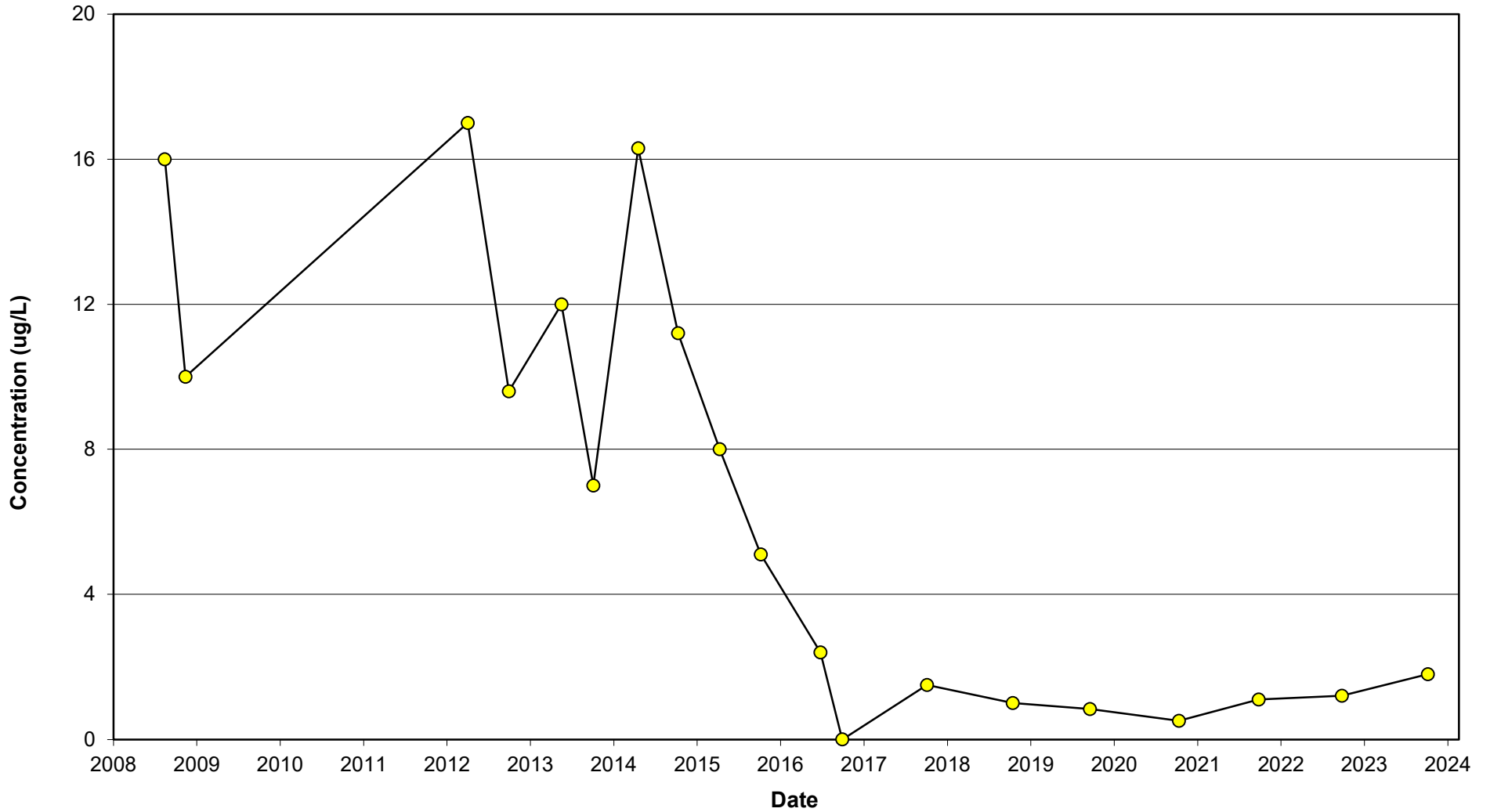
Vinyl Chloride Concentrations Over Time
(MW-26 NEST)
Rhineland Landfill
Rhineland, Wisconsin



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



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



—●— MW-28A



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