



May 29, 2019

Reference No. 11115796

Mr. Phil Richard
Wisconsin Department of Natural Resources
875 S. 4th Ave
Park Falls, Wisconsin 54552

Dear Mr. Richard:

**Re: Groundwater Monitoring, April 2019
Rhineland Landfill (#00686)**

On behalf of the Rhineland Landfill Group (RLG), GHD Services, Inc. (GHD) is submitting the semi-annual sampling results for the April 2019 sampling event for the Rhineland Landfill in Rhineland, Wisconsin.

The April 2019 sampling event was conducted on April 29-30, 2019. Sampling activities were conducted according to the specifications agreed upon in the Groundwater Monitoring Plan sent by the Wisconsin Department of Natural Resources (WDNR) in a letter to the City of Rhineland dated April 29, 2016.

A total of 8 monitoring wells (MW-2A, MW-2B, MW-16A, MW-16B, MW-16C, NW-20A, MW-20B, and MW-20C) were sampled as a part of the sampling event. MW-28A was scheduled to be sampled but was inaccessible due to spring flooding. Figure 1 presents the location of the monitoring wells. The results from the sampling event are consistent with historical results.

The WDNR Form 4400-231 (Environmental Monitoring Data Certification) is presented as Attachment A. A table of Enforcement Standard and Preventative Action Limit exceedances is presented in Attachment B. The laboratory analytical report is presented as Attachment C.

The data from the sampling round will be sent to the Groundwater Environmental Monitoring System (GEMS) database via compact disk.

The annual sampling round is currently scheduled for October 2019.



Should you have any questions regarding this matter, please do not hesitate to call.

Sincerely,

GHD

A handwritten signature in black ink, appearing to read "Ryan Aamot". The signature is stylized with long, sweeping strokes.

Ryan Aamot

A handwritten signature in black ink, appearing to read "Brian Sandberg". The signature is written in a cursive style.

Brian Sandberg

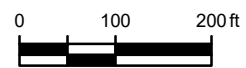
RA/sb/7

Encl.

cc: Carrie Miljevich, City of Rhinelander (via email)
Daniel Guild, City of Rhinelander (via email)
Chris Frederickson, City of Rhinelander (via email)
Phil Slowiak, International Paper (via email)
Brian Heim, International Paper (via email)
Linda Benfield, Foley & Lardner (via email)
Bruce White, Barnes & Thornburg (via email)
GEMS Data Submittal



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



LEGEND

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



FORMER CITY OF RHINELANDER LANDFILL
 RHINELANDER, WISCONSIN
 GROUNDWATER MONITORING - APRIL 2019

MONITORING WELL LOCATIONS

11115796-20
 May 29, 2019

FIGURE 1

Attachment A
Form 4400 231

State of Wisconsin
 Department of Natural Resources
 dnr.wi.gov

Environmental Monitoring Data Certification
 Form 4400-231 (R 5/17)

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to:

GEMS Data Submittal Contact - WA/5
 Wisconsin Department of Natural Resources
 P.O. Box 7921
 Madison, WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner)

GHD Services, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and Email address:

Name	Phone No. (include area code)
Dan Milewsky / Pace Analytical	(920) 412-8566

Email
 Dan.Milewsky@pacelabs.com

Facility Name
 Former City of Rhinelander Landfill

License # / Monitoring ID	Facility ID (FID)
00686	

Actual sampling dates (e.g., July 2-6, 2003)	The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)
April 29-30, 2019	April 2019

Type of Data Submitted (Check all that apply):

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify): |


Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Facility Representative Name (Print)	Title	Phone No. (include area code)
Ryan Aamot	Project Manager	(651) 639-0913

Signature 

Date Signed (mm/dd/yyyy) 5/29/19

For DNR Use Only

Check action taken, and record date and your initials. Describe on back side if necessary.

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other: _____

Attachment B Exceedances Table

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
4/30/2019	007	34030	13.8	ug/L	ES		186800009	MW-2A	01	Benzene	0.5	5
4/30/2019	007	01020	677	ug/L	PAL		186800009	MW-2A	01	Boron, Dissolved	200	1000
4/30/2019	007	01046	58300	ug/L	ES		186800009	MW-2A	01	Iron, Dissolved	150	300
4/30/2019	007	01056	760	ug/L	ES		186800009	MW-2A	01	Manganese, Dissolved	25	50
4/30/2019	007	00610	96.9	mg/L	ES		186800009	MW-2A	01	Nitrogen, Ammonia	0.97	9.7
4/30/2019	007	81607	85.9	ug/L	ES		186800009	MW-2A	01	Tetrahydrofuran	10	50
4/30/2019	009	34030	J 0.86	ug/L	PAL		186800010	MW-2B	01	Benzene	0.5	5
4/30/2019	009	01046	22200	ug/L	ES		186800010	MW-2B	01	Iron, Dissolved	150	300
4/30/2019	009	01056	1220	ug/L	ES		186800010	MW-2B	01	Manganese, Dissolved	25	50
4/30/2019	009	81607	J 16.0	ug/L	PAL		186800010	MW-2B	01	Tetrahydrofuran	10	50
4/30/2019	009	39175	J 0.42	ug/L	ES		186800010	MW-2B	01	Vinyl chloride	0.02	0.2
4/29/2019	069	34030	J 0.76	ug/L	PAL		186800002	MW-16A	01	Benzene	0.5	5
4/29/2019	069	01046	3690	ug/L	ES		186800002	MW-16A	01	Iron, Dissolved	150	300
4/29/2019	069	01056	4100	ug/L	ES		186800002	MW-16A	01	Manganese, Dissolved	25	50
4/29/2019	071	34030	J 1.0	ug/L	PAL		186800003	MW-16B	01	Benzene	0.5	5
4/29/2019	071	01046	34400	ug/L	ES		186800003	MW-16B	01	Iron, Dissolved	150	300
4/29/2019	071	01056	3690	ug/L	ES		186800003	MW-16B	01	Manganese, Dissolved	25	50
4/29/2019	071	39175	J 0.24	ug/L	ES		186800003	MW-16B	01	Vinyl chloride	0.02	0.2
4/29/2019	071	34030	1.0	ug/L	PAL		186800004	MW-16B DUP	02	Benzene	0.5	5
4/29/2019	071	01046	34100	ug/L	ES		186800004	MW-16B DUP	02	Iron, Dissolved	150	300
4/29/2019	071	01056	3700	ug/L	ES		186800004	MW-16B DUP	02	Manganese, Dissolved	25	50
4/29/2019	071	39175	J 0.22	ug/L	ES		186800004	MW-16B DUP	02	Vinyl chloride	0.02	0.2
4/29/2019	073	34030	1.2	ug/L	PAL		186800001	MW-16C	01	Benzene	0.5	5
4/29/2019	073	01046	27200	ug/L	ES		186800001	MW-16C	01	Iron, Dissolved	150	300

Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-EnforcementStandard Within DMZ; ACL-Alternative Concentration Limit.

MSI: 01-Sample; 02-Sample Duplicate; 03-SampleTriplctate; 09-Non-field Lab Replicate

< qualifier indicates reported value (RV) was not detected at or above the MDL.

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
4/29/2019	073	01056	2180	ug/L	ES		186800001	MW-16C	01	Manganese, Dissolved	25	50
4/29/2019	073	39175	J 0.26	ug/L	ES		186800001	MW-16C	01	Vinyl chloride	0.02	0.2
4/30/2019	093	34030	1.2	ug/L	PAL		186800007	MW-20A	01	Benzene	0.5	5
4/30/2019	093	01020	505	ug/L	PAL		186800007	MW-20A	01	Boron, Dissolved	200	1000
4/30/2019	093	01046	75300	ug/L	ES		186800007	MW-20A	01	Iron, Dissolved	150	300
4/30/2019	093	01056	848	ug/L	ES		186800007	MW-20A	01	Manganese, Dissolved	25	50
4/30/2019	093	34696	10.7	ug/L	PAL		186800007	MW-20A	01	Naphthalene	10	100
4/30/2019	095	34030	J 0.70	ug/L	PAL		186800006	MW-20B	01	Benzene	0.5	5
4/30/2019	095	01046	16800	ug/L	ES		186800006	MW-20B	01	Iron, Dissolved	150	300
4/30/2019	095	01056	1040	ug/L	ES		186800006	MW-20B	01	Manganese, Dissolved	25	50
4/30/2019	095	39175	J 0.25	ug/L	ES		186800006	MW-20B	01	Vinyl chloride	0.02	0.2
4/30/2019	097	34030	J 0.94	ug/L	PAL		186800005	MW-20C	01	Benzene	0.5	5
4/30/2019	097	01046	22200	ug/L	ES		186800005	MW-20C	01	Iron, Dissolved	150	300
4/30/2019	097	01056	1460	ug/L	ES		186800005	MW-20C	01	Manganese, Dissolved	25	50
4/30/2019	097	81607	J 12.3	ug/L	PAL		186800005	MW-20C	01	Tetrahydrofuran	10	50
4/30/2019	097	39175	J 0.80	ug/L	ES		186800005	MW-20C	01	Vinyl chloride	0.02	0.2

Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-EnforcementStandard Within DMZ; ACL-Alternative Concentration Limit.

MSI: 01-Sample; 02-Sample Duplicate; 03-SampleTriplctate; 09-Non-field Lab Replicate

< qualifier indicates reported value (RV) was not detected at or above the MDL.

Attachment C Laboratory Report

May 17, 2019

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

RE: Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40186800

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report: The sample ID has been changed for 40186800008.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40186800001	MW-16C	Water	04/29/19 14:20	05/01/19 10:05
40186800002	MW-16A	Water	04/29/19 14:40	05/01/19 10:05
40186800003	MW-16B	Water	04/29/19 15:03	05/01/19 10:05
40186800004	MW-16B DUP	Water	04/29/19 15:03	05/01/19 10:05
40186800005	MW-20C	Water	04/30/19 08:08	05/01/19 10:05
40186800006	MW-20B	Water	04/30/19 08:20	05/01/19 10:05
40186800007	MW-20A	Water	04/30/19 08:48	05/01/19 10:05
40186800008	FIELD BLANK	Water	04/30/19 09:00	05/01/19 10:05
40186800009	MW-2A	Water	04/30/19 09:41	05/01/19 10:05
40186800010	MW-2B	Water	04/30/19 09:59	05/01/19 10:05
40186800011	TRIP BLANK	Water	04/30/19 00:00	05/01/19 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40186800001	MW-16C	EPA 6010	TXW	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40186800002	MW-16A	EPA 6010	TXW	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40186800003	MW-16B	EPA 6010	TXW	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40186800004	MW-16B DUP	EPA 6010	TXW	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40186800005	MW-20C	EPA 6010	TXW	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40186800006	MW-20B	EPA 6010	TXW	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40186800007	MW-20A	EPA 6010	TXW	4
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40186800008	FIELD BLANK	EPA 6010	TXW	3
		EPA 8260	LAP	65

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40186800009	MW-2A		RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	TXW	4
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
40186800010	MW-2B	EPA 6010	TXW	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
40186800011	TRIP BLANK	EPA 310.2	DAW	1
		EPA 8260	LAP	65

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-16C **Lab ID: 40186800001** Collected: 04/29/19 14:20 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	27200	ug/L	118	35.4	1		05/03/19 16:57	7439-89-6	
Manganese, Dissolved	2180	ug/L	5.0	1.1	1		05/03/19 16:57	7439-96-5	
Total Hardness by 2340B, Dissolved	232	mg/L	2.0	0.15	1		05/03/19 16:57		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.2	ug/L	1.0	0.25	1		05/02/19 23:14	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 23:14	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 23:14	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 23:14	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 23:14	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 23:14	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 23:14	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 23:14	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 23:14	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 23:14	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 23:14	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 23:14	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 23:14	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 23:14	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 23:14	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 23:14	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 23:14	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 23:14	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 23:14	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 23:14	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 23:14	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 23:14	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/02/19 23:14	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 23:14	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 23:14	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 23:14	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 23:14	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 23:14	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 23:14	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 23:14	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 23:14	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 23:14	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 23:14	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 23:14	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 23:14	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 23:14	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 23:14	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 23:14	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/02/19 23:14	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 23:14	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-16C **Lab ID: 40186800001** Collected: 04/29/19 14:20 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 23:14	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 23:14	1634-04-4	
Naphthalene	1.8J	ug/L	5.0	1.2	1		05/02/19 23:14	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/02/19 23:14	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 23:14	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 23:14	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 23:14	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 23:14	127-18-4	
Tetrahydrofuran	9.0J	ug/L	20.0	2.3	1		05/02/19 23:14	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/02/19 23:14	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 23:14	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 23:14	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 23:14	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 23:14	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 23:14	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 23:14	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 23:14	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/02/19 23:14	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/02/19 23:14	108-67-8	
Vinyl chloride	0.26J	ug/L	1.0	0.17	1		05/02/19 23:14	75-01-4	
m&p-Xylene	0.89J	ug/L	2.0	0.47	1		05/02/19 23:14	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/02/19 23:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		05/02/19 23:14	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/02/19 23:14	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/19 23:14	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.09	Std. Units			1		04/29/19 14:20		
Field Specific Conductance	776	umhos/cm			1		04/29/19 14:20		
Oxygen, Dissolved	0	mg/L			1		04/29/19 14:20	7782-44-7	
REDOX	-129	mV			1		04/29/19 14:20		
Turbidity	5.5	NTU			1		04/29/19 14:20		
Temperature, Water (C)	7.32	deg C			1		04/29/19 14:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	43.9	mg/L	10.0	2.5	5		05/09/19 18:16	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	232	mg/L	23.5	7.0	1		05/03/19 12:54		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-16A **Lab ID: 40186800002** Collected: 04/29/19 14:40 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	3690	ug/L	118	35.4	1		05/03/19 16:50	7439-89-6	
Manganese, Dissolved	4100	ug/L	5.0	1.1	1		05/03/19 16:50	7439-96-5	
Total Hardness by 2340B, Dissolved	201	mg/L	2.0	0.15	1		05/03/19 16:50		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.76J	ug/L	1.0	0.25	1		05/02/19 20:39	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 20:39	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 20:39	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 20:39	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 20:39	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 20:39	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 20:39	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 20:39	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 20:39	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 20:39	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 20:39	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 20:39	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 20:39	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 20:39	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 20:39	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 20:39	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 20:39	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 20:39	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 20:39	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 20:39	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 20:39	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 20:39	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/02/19 20:39	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 20:39	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 20:39	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 20:39	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 20:39	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 20:39	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 20:39	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 20:39	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 20:39	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 20:39	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 20:39	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 20:39	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 20:39	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 20:39	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 20:39	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 20:39	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/02/19 20:39	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 20:39	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-16A **Lab ID: 40186800002** Collected: 04/29/19 14:40 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 20:39	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 20:39	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/02/19 20:39	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/02/19 20:39	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 20:39	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 20:39	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 20:39	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 20:39	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		05/02/19 20:39	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/02/19 20:39	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 20:39	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 20:39	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 20:39	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 20:39	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 20:39	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 20:39	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 20:39	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/02/19 20:39	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/02/19 20:39	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/02/19 20:39	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/02/19 20:39	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/02/19 20:39	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		05/02/19 20:39	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		05/02/19 20:39	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/19 20:39	2037-26-5	
Field Data Analytical Method:									
Field pH	6.87	Std. Units			1		04/29/19 14:40		
Field Specific Conductance	500	umhos/cm			1		04/29/19 14:40		
Oxygen, Dissolved	0	mg/L			1		04/29/19 14:40	7782-44-7	
REDOX	-91	mV			1		04/29/19 14:40		
Turbidity	8.5	NTU			1		04/29/19 14:40		
Temperature, Water (C)	6.45	deg C			1		04/29/19 14:40		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	25.8	mg/L	2.0	0.50	1		05/09/19 18:30	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	211	mg/L	47.0	14.1	2		05/03/19 12:55		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-16B **Lab ID: 40186800003** Collected: 04/29/19 15:03 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	34400	ug/L	118	35.4	1		05/03/19 17:00	7439-89-6	
Manganese, Dissolved	3690	ug/L	5.0	1.1	1		05/03/19 17:00	7439-96-5	
Total Hardness by 2340B, Dissolved	221	mg/L	2.0	0.15	1		05/03/19 17:00		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.0J	ug/L	1.0	0.25	1		05/02/19 21:01	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 21:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 21:01	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 21:01	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 21:01	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 21:01	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 21:01	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 21:01	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 21:01	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 21:01	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 21:01	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 21:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 21:01	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 21:01	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 21:01	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 21:01	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 21:01	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 21:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 21:01	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 21:01	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 21:01	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 21:01	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/02/19 21:01	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 21:01	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 21:01	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 21:01	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 21:01	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 21:01	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 21:01	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 21:01	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 21:01	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 21:01	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 21:01	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 21:01	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 21:01	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 21:01	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 21:01	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 21:01	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/02/19 21:01	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 21:01	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-16B **Lab ID: 40186800003** Collected: 04/29/19 15:03 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 21:01	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 21:01	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/02/19 21:01	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/02/19 21:01	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 21:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 21:01	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 21:01	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 21:01	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		05/02/19 21:01	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/02/19 21:01	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 21:01	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 21:01	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 21:01	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 21:01	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 21:01	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 21:01	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 21:01	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/02/19 21:01	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/02/19 21:01	108-67-8	
Vinyl chloride	0.24J	ug/L	1.0	0.17	1		05/02/19 21:01	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/02/19 21:01	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/02/19 21:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		05/02/19 21:01	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/02/19 21:01	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/19 21:01	2037-26-5	
Field Data Analytical Method:									
Field pH	7.64	Std. Units			1		04/29/19 15:03		
Field Specific Conductance	734	umhos/cm			1		04/29/19 15:03		
Oxygen, Dissolved	0	mg/L			1		04/29/19 15:03	7782-44-7	
REDOX	-152	mV			1		04/29/19 15:03		
Turbidity	8	NTU			1		04/29/19 15:03		
Temperature, Water (C)	7.43	deg C			1		04/29/19 15:03		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	36.4	mg/L	10.0	2.5	5		05/09/19 19:56	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	224	mg/L	23.5	7.0	1		05/03/19 13:00		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-16B DUP **Lab ID: 40186800004** Collected: 04/29/19 15:03 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	34100	ug/L	118	35.4	1		05/03/19 17:02	7439-89-6	
Manganese, Dissolved	3700	ug/L	5.0	1.1	1		05/03/19 17:02	7439-96-5	
Total Hardness by 2340B, Dissolved	220	mg/L	2.0	0.15	1		05/03/19 17:02		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.0	ug/L	1.0	0.25	1		05/02/19 21:45	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 21:45	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 21:45	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 21:45	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 21:45	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 21:45	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 21:45	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 21:45	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 21:45	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 21:45	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 21:45	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 21:45	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 21:45	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 21:45	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 21:45	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 21:45	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 21:45	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 21:45	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 21:45	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 21:45	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 21:45	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 21:45	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/02/19 21:45	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 21:45	75-71-8	
1,1-Dichloroethane	0.28J	ug/L	1.0	0.27	1		05/02/19 21:45	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 21:45	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 21:45	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 21:45	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 21:45	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 21:45	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 21:45	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 21:45	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 21:45	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 21:45	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 21:45	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 21:45	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 21:45	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 21:45	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/02/19 21:45	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 21:45	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-16B DUP **Lab ID: 40186800004** Collected: 04/29/19 15:03 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 21:45	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 21:45	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/02/19 21:45	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/02/19 21:45	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 21:45	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 21:45	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 21:45	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 21:45	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		05/02/19 21:45	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/02/19 21:45	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 21:45	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 21:45	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 21:45	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 21:45	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 21:45	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 21:45	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 21:45	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/02/19 21:45	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/02/19 21:45	108-67-8	
Vinyl chloride	0.22J	ug/L	1.0	0.17	1		05/02/19 21:45	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/02/19 21:45	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/02/19 21:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		05/02/19 21:45	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		05/02/19 21:45	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/19 21:45	2037-26-5	
Field Data Analytical Method:									
Field pH	7.64	Std. Units			1		04/29/19 15:03		
Field Specific Conductance	734	umhos/cm			1		04/29/19 15:03		
Oxygen, Dissolved	0	mg/L			1		04/29/19 15:03	7782-44-7	
REDOX	-152	mV			1		04/29/19 15:03		
Turbidity	8	NTU			1		04/29/19 15:03		
Temperature, Water (C)	7.43	deg C			1		04/29/19 15:03		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	36.7	mg/L	10.0	2.5	5		05/09/19 20:11	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	232	mg/L	23.5	7.0	1		05/03/19 13:00		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-20C **Lab ID: 40186800005** Collected: 04/30/19 08:08 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	22200	ug/L	118	35.4	1		05/03/19 17:05	7439-89-6	
Manganese, Dissolved	1460	ug/L	5.0	1.1	1		05/03/19 17:05	7439-96-5	
Total Hardness by 2340B, Dissolved	188	mg/L	2.0	0.15	1		05/03/19 17:05		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.94J	ug/L	1.0	0.25	1		05/02/19 22:07	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 22:07	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 22:07	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 22:07	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 22:07	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 22:07	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 22:07	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 22:07	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 22:07	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 22:07	56-23-5	
Chlorobenzene	0.72J	ug/L	2.4	0.71	1		05/02/19 22:07	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 22:07	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 22:07	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 22:07	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 22:07	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 22:07	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 22:07	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 22:07	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 22:07	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 22:07	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 22:07	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 22:07	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/02/19 22:07	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 22:07	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 22:07	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 22:07	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 22:07	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 22:07	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 22:07	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 22:07	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 22:07	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 22:07	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 22:07	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 22:07	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 22:07	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 22:07	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 22:07	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 22:07	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/02/19 22:07	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 22:07	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-20C **Lab ID: 40186800005** Collected: 04/30/19 08:08 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 22:07	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 22:07	1634-04-4	
Naphthalene	5.1	ug/L	5.0	1.2	1		05/02/19 22:07	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/02/19 22:07	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 22:07	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 22:07	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 22:07	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 22:07	127-18-4	
Tetrahydrofuran	12.3J	ug/L	20.0	2.3	1		05/02/19 22:07	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/02/19 22:07	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 22:07	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 22:07	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 22:07	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 22:07	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 22:07	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 22:07	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 22:07	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/02/19 22:07	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/02/19 22:07	108-67-8	
Vinyl chloride	0.80J	ug/L	1.0	0.17	1		05/02/19 22:07	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/02/19 22:07	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/02/19 22:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		05/02/19 22:07	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		05/02/19 22:07	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/19 22:07	2037-26-5	
Field Data Analytical Method:									
Field pH	7.02	Std. Units			1		04/30/19 08:08		
Field Specific Conductance	661	umhos/cm			1		04/30/19 08:08		
Oxygen, Dissolved	0	mg/L			1		04/30/19 08:08	7782-44-7	
REDOX	-89	mV			1		04/30/19 08:08		
Turbidity	19.7	NTU			1		04/30/19 08:08		
Temperature, Water (C)	6.76	deg C			1		04/30/19 08:08		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	49.1	mg/L	10.0	2.5	5		05/09/19 20:25	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	176	mg/L	23.5	7.0	1		05/03/19 13:01		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-20B **Lab ID: 40186800006** Collected: 04/30/19 08:20 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	16800	ug/L	118	35.4	1		05/03/19 17:07	7439-89-6	
Manganese, Dissolved	1040	ug/L	5.0	1.1	1		05/03/19 17:07	7439-96-5	
Total Hardness by 2340B, Dissolved	158	mg/L	2.0	0.15	1		05/03/19 17:07		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.70J	ug/L	1.0	0.25	1		05/02/19 23:36	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 23:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 23:36	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 23:36	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 23:36	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 23:36	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 23:36	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 23:36	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 23:36	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 23:36	56-23-5	
Chlorobenzene	0.90J	ug/L	2.4	0.71	1		05/02/19 23:36	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 23:36	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 23:36	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 23:36	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 23:36	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 23:36	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 23:36	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 23:36	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 23:36	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 23:36	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 23:36	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 23:36	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/02/19 23:36	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 23:36	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 23:36	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 23:36	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 23:36	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 23:36	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 23:36	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 23:36	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 23:36	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 23:36	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 23:36	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 23:36	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 23:36	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 23:36	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 23:36	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 23:36	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/02/19 23:36	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 23:36	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-20B **Lab ID: 40186800006** Collected: 04/30/19 08:20 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 23:36	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 23:36	1634-04-4	
Naphthalene	6.7	ug/L	5.0	1.2	1		05/02/19 23:36	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/02/19 23:36	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 23:36	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 23:36	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 23:36	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 23:36	127-18-4	
Tetrahydrofuran	8.0J	ug/L	20.0	2.3	1		05/02/19 23:36	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/02/19 23:36	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 23:36	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 23:36	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 23:36	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 23:36	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 23:36	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 23:36	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 23:36	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/02/19 23:36	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/02/19 23:36	108-67-8	
Vinyl chloride	0.25J	ug/L	1.0	0.17	1		05/02/19 23:36	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/02/19 23:36	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/02/19 23:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		05/02/19 23:36	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/02/19 23:36	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/19 23:36	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.1	Std. Units			1		04/30/19 08:20		
Field Specific Conductance	596	umhos/cm			1		04/30/19 08:20		
Oxygen, Dissolved	0	mg/L			1		04/30/19 08:20	7782-44-7	
REDOX	-100	mV			1		04/30/19 08:20		
Turbidity	10.7	NTU			1		04/30/19 08:20		
Temperature, Water (C)	4.91	deg C			1		04/30/19 08:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	49.5	mg/L	10.0	2.5	5		05/09/19 20:39	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	142	mg/L	23.5	7.0	1		05/03/19 13:01		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-20A **Lab ID: 40186800007** Collected: 04/30/19 08:48 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	505	ug/L	40.0	9.7	1		05/03/19 17:10	7440-42-8	
Iron, Dissolved	75300	ug/L	118	35.4	1		05/03/19 17:10	7439-89-6	
Manganese, Dissolved	848	ug/L	5.0	1.1	1		05/03/19 17:10	7439-96-5	
Total Hardness by 2340B, Dissolved	175	mg/L	2.0	0.15	1		05/03/19 17:10		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.2	ug/L	1.0	0.25	1		05/02/19 23:58	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 23:58	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 23:58	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 23:58	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 23:58	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 23:58	74-83-9	
n-Butylbenzene	1.0J	ug/L	2.4	0.71	1		05/02/19 23:58	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 23:58	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 23:58	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 23:58	56-23-5	
Chlorobenzene	4.3	ug/L	2.4	0.71	1		05/02/19 23:58	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 23:58	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 23:58	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 23:58	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 23:58	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 23:58	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 23:58	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 23:58	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 23:58	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 23:58	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 23:58	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 23:58	541-73-1	
1,4-Dichlorobenzene	1.6J	ug/L	3.1	0.94	1		05/02/19 23:58	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 23:58	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 23:58	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 23:58	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 23:58	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 23:58	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 23:58	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 23:58	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 23:58	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 23:58	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 23:58	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 23:58	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 23:58	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 23:58	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 23:58	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 23:58	87-68-3	
Isopropylbenzene (Cumene)	3.2J	ug/L	5.0	0.39	1		05/02/19 23:58	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-20A **Lab ID: 40186800007** Collected: 04/30/19 08:48 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 23:58	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 23:58	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 23:58	1634-04-4	
Naphthalene	10.7	ug/L	5.0	1.2	1		05/02/19 23:58	91-20-3	
n-Propylbenzene	2.2J	ug/L	5.0	0.81	1		05/02/19 23:58	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 23:58	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 23:58	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 23:58	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 23:58	127-18-4	
Tetrahydrofuran	6.8J	ug/L	20.0	2.3	1		05/02/19 23:58	109-99-9	
Toluene	0.18J	ug/L	5.0	0.17	1		05/02/19 23:58	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 23:58	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 23:58	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 23:58	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 23:58	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 23:58	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 23:58	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 23:58	96-18-4	
1,2,4-Trimethylbenzene	16.7	ug/L	2.8	0.84	1		05/02/19 23:58	95-63-6	
1,3,5-Trimethylbenzene	3.1	ug/L	2.9	0.87	1		05/02/19 23:58	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/02/19 23:58	75-01-4	
m&p-Xylene	39.4	ug/L	2.0	0.47	1		05/02/19 23:58	179601-23-1	
o-Xylene	1.0	ug/L	1.0	0.26	1		05/02/19 23:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		05/02/19 23:58	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		05/02/19 23:58	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/02/19 23:58	2037-26-5	
Field Data Analytical Method:									
Field pH	6.48	Std. Units			1		04/30/19 08:48		
Field Specific Conductance	905	umhos/cm			1		04/30/19 08:48		
Oxygen, Dissolved	0	mg/L			1		04/30/19 08:48	7782-44-7	
REDOX	-59	mV			1		04/30/19 08:48		
Turbidity	18.6	NTU			1		04/30/19 08:48		
Temperature, Water (C)	3.98	deg C			1		04/30/19 08:48		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	10.8	mg/L	10.0	2.5	5		05/09/19 20:54	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	255	mg/L	23.5	7.0	1		05/03/19 13:02		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: FIELD BLANK **Lab ID: 40186800008** Collected: 04/30/19 09:00 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<35.4	ug/L	118	35.4	1		05/03/19 17:12	7439-89-6	
Manganese, Dissolved	<1.1	ug/L	5.0	1.1	1		05/03/19 17:12	7439-96-5	
Total Hardness by 2340B, Dissolved	0.36J	mg/L	2.0	0.15	1		05/03/19 17:12		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		05/02/19 22:29	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 22:29	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 22:29	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 22:29	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 22:29	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 22:29	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 22:29	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 22:29	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 22:29	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 22:29	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 22:29	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 22:29	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 22:29	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 22:29	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 22:29	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 22:29	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 22:29	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 22:29	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 22:29	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 22:29	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 22:29	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 22:29	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/02/19 22:29	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 22:29	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 22:29	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 22:29	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 22:29	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 22:29	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 22:29	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 22:29	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 22:29	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 22:29	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 22:29	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 22:29	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 22:29	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 22:29	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 22:29	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 22:29	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/02/19 22:29	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 22:29	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: FIELD BLANK **Lab ID: 40186800008** Collected: 04/30/19 09:00 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 22:29	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 22:29	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/02/19 22:29	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/02/19 22:29	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 22:29	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 22:29	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 22:29	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 22:29	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		05/02/19 22:29	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/02/19 22:29	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 22:29	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 22:29	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 22:29	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 22:29	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 22:29	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 22:29	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 22:29	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/02/19 22:29	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/02/19 22:29	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/02/19 22:29	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/02/19 22:29	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/02/19 22:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		05/02/19 22:29	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		05/02/19 22:29	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/19 22:29	2037-26-5	
Field Data Analytical Method:									
Field pH	6.48	Std. Units			1		04/30/19 09:00		
Field Specific Conductance	905	umhos/cm			1		04/30/19 09:00		
Oxygen, Dissolved	0	mg/L			1		04/30/19 09:00	7782-44-7	
REDOX	-59	mV			1		04/30/19 09:00		
Turbidity	18.6	NTU			1		04/30/19 09:00		
Temperature, Water (C)	3.98	deg C			1		04/30/19 09:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	<0.50	mg/L	2.0	0.50	1		05/09/19 21:08	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<7.0	mg/L	23.5	7.0	1		05/13/19 10:49		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-2A **Lab ID: 40186800009** Collected: 04/30/19 09:41 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	677	ug/L	40.0	9.7	1		05/03/19 17:20	7440-42-8	
Iron, Dissolved	58300	ug/L	118	35.4	1		05/03/19 17:20	7439-89-6	
Manganese, Dissolved	760	ug/L	5.0	1.1	1		05/03/19 17:20	7439-96-5	
Total Hardness by 2340B, Dissolved	499	mg/L	2.0	0.15	1		05/03/19 17:20		
8260 MSV		Analytical Method: EPA 8260							
Benzene	13.8	ug/L	1.0	0.25	1		05/02/19 22:52	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 22:52	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 22:52	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 22:52	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 22:52	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 22:52	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 22:52	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 22:52	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 22:52	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 22:52	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 22:52	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 22:52	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 22:52	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 22:52	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 22:52	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 22:52	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 22:52	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 22:52	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 22:52	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 22:52	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 22:52	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 22:52	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/02/19 22:52	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 22:52	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 22:52	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 22:52	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 22:52	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 22:52	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 22:52	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 22:52	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 22:52	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 22:52	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 22:52	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 22:52	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 22:52	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 22:52	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 22:52	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 22:52	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/02/19 22:52	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-2A **Lab ID: 40186800009** Collected: 04/30/19 09:41 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 22:52	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 22:52	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 22:52	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/02/19 22:52	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/02/19 22:52	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 22:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 22:52	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 22:52	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 22:52	127-18-4	
Tetrahydrofuran	85.9	ug/L	20.0	2.3	1		05/02/19 22:52	109-99-9	
Toluene	0.19J	ug/L	5.0	0.17	1		05/02/19 22:52	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 22:52	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 22:52	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 22:52	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 22:52	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 22:52	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 22:52	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 22:52	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/02/19 22:52	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/02/19 22:52	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/02/19 22:52	75-01-4	
m&p-Xylene	1.5J	ug/L	2.0	0.47	1		05/02/19 22:52	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/02/19 22:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		05/02/19 22:52	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/02/19 22:52	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/19 22:52	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.7	Std. Units			1		04/30/19 09:41		
Field Specific Conductance	1730	umhos/cm			1		04/30/19 09:41		
Oxygen, Dissolved	0	mg/L			1		04/30/19 09:41	7782-44-7	
REDOX	-63	mV			1		04/30/19 09:41		
Turbidity	27.3	NTU			1		04/30/19 09:41		
Temperature, Water (C)	4.23	deg C			1		04/30/19 09:41		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	44.1	mg/L	10.0	2.5	5		05/09/19 21:22	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	734	mg/L	47.0	14.1	2		05/03/19 13:23		
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	96.9	mg/L	2.5	1.2	5		05/09/19 18:27	7664-41-7	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-2A **Lab ID: 40186800009** Collected: 04/30/19 09:41 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	96.0	mg/L	14.6	4.4	20	05/08/19 11:10	05/08/19 16:37	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-2B **Lab ID: 40186800010** Collected: 04/30/19 09:59 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	22200	ug/L	118	35.4	1		05/03/19 17:22	7439-89-6	
Manganese, Dissolved	1220	ug/L	5.0	1.1	1		05/03/19 17:22	7439-96-5	
Total Hardness by 2340B, Dissolved	182	mg/L	2.0	0.15	1		05/03/19 17:22		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.86J	ug/L	1.0	0.25	1		05/02/19 21:23	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 21:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 21:23	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 21:23	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 21:23	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 21:23	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 21:23	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 21:23	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 21:23	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 21:23	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 21:23	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 21:23	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 21:23	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 21:23	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 21:23	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 21:23	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 21:23	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 21:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 21:23	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 21:23	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 21:23	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 21:23	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/02/19 21:23	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 21:23	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 21:23	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 21:23	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 21:23	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 21:23	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 21:23	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 21:23	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 21:23	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 21:23	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 21:23	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 21:23	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 21:23	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 21:23	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 21:23	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 21:23	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/02/19 21:23	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 21:23	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: MW-2B **Lab ID: 40186800010** Collected: 04/30/19 09:59 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 21:23	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 21:23	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/02/19 21:23	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/02/19 21:23	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 21:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 21:23	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 21:23	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 21:23	127-18-4	
Tetrahydrofuran	16.0J	ug/L	20.0	2.3	1		05/02/19 21:23	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/02/19 21:23	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 21:23	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 21:23	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 21:23	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 21:23	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 21:23	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 21:23	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 21:23	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/02/19 21:23	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/02/19 21:23	108-67-8	
Vinyl chloride	0.42J	ug/L	1.0	0.17	1		05/02/19 21:23	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/02/19 21:23	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/02/19 21:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		05/02/19 21:23	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/02/19 21:23	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/19 21:23	2037-26-5	
Field Data Analytical Method:									
Field pH	7.11	Std. Units			1		04/30/19 09:59		
Field Specific Conductance	578	umhos/cm			1		04/30/19 09:59		
Oxygen, Dissolved	0	mg/L			1		04/30/19 09:59	7782-44-7	
REDOX	-112	mV			1		04/30/19 09:59		
Turbidity	15.2	NTU			1		04/30/19 09:59		
Temperature, Water (C)	4.7	deg C			1		04/30/19 09:59		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	28.3	mg/L	10.0	2.5	5		05/09/19 21:37	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	214	mg/L	47.0	14.1	2		05/03/19 13:53		

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: TRIP BLANK **Lab ID: 40186800011** Collected: 04/30/19 00:00 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		05/02/19 19:55	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/02/19 19:55	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/02/19 19:55	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/02/19 19:55	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/02/19 19:55	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/02/19 19:55	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 19:55	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/02/19 19:55	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/02/19 19:55	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/02/19 19:55	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 19:55	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/02/19 19:55	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/02/19 19:55	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/02/19 19:55	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/02/19 19:55	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/02/19 19:55	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/02/19 19:55	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/02/19 19:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/02/19 19:55	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/02/19 19:55	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/02/19 19:55	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/02/19 19:55	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/02/19 19:55	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/02/19 19:55	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 19:55	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 19:55	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/02/19 19:55	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/02/19 19:55	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/02/19 19:55	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/02/19 19:55	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/02/19 19:55	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/02/19 19:55	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/02/19 19:55	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/02/19 19:55	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/02/19 19:55	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/02/19 19:55	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/02/19 19:55	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/02/19 19:55	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/02/19 19:55	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/02/19 19:55	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/02/19 19:55	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/02/19 19:55	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/02/19 19:55	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/02/19 19:55	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/02/19 19:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/02/19 19:55	630-20-6	

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ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Sample: TRIP BLANK **Lab ID: 40186800011** Collected: 04/30/19 00:00 Received: 05/01/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		05/02/19 19:55	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/02/19 19:55	127-18-4	
Tetrahydrofuran	<2.3	ug/L	20.0	2.3	1		05/02/19 19:55	109-99-9	
Toluene	<0.17	ug/L	5.0	0.17	1		05/02/19 19:55	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/02/19 19:55	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/02/19 19:55	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/02/19 19:55	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/02/19 19:55	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/02/19 19:55	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/02/19 19:55	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/02/19 19:55	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/02/19 19:55	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/02/19 19:55	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/02/19 19:55	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		05/02/19 19:55	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		05/02/19 19:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		05/02/19 19:55	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		05/02/19 19:55	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/02/19 19:55	2037-26-5	

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40186800

QC Batch: 320374 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800008, 40186800009, 40186800010

METHOD BLANK: 1861263 Matrix: Water
Associated Lab Samples: 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800008, 40186800009, 40186800010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<9.7	40.0	05/03/19 16:40	
Iron, Dissolved	ug/L	<35.4	118	05/03/19 16:40	
Manganese, Dissolved	ug/L	<1.1	5.0	05/03/19 16:40	
Total Hardness by 2340B, Dissolved	mg/L	0.61J	2.0	05/03/19 16:40	

LABORATORY CONTROL SAMPLE: 1861264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	500	485	97	80-120	
Iron, Dissolved	ug/L	5000	4910	98	80-120	
Manganese, Dissolved	ug/L	500	493	99	80-120	
Total Hardness by 2340B, Dissolved	mg/L		32.5			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1861267 1861268

Parameter	Units	1861267		1861268		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40186800002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Boron, Dissolved	ug/L	192	500	500	685	678	99	97	75-125	1	20
Iron, Dissolved	ug/L	3690	5000	5000	8540	8550	97	97	75-125	0	20
Manganese, Dissolved	ug/L	4100	500	500	4480	4480	77	77	75-125	0	20
Total Hardness by 2340B, Dissolved	mg/L	201			228	227				0	20

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

QC Batch: 320090 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007,
 40186800008, 40186800009, 40186800010, 40186800011

METHOD BLANK: 1859706 Matrix: Water
 Associated Lab Samples: 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007,
 40186800008, 40186800009, 40186800010, 40186800011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	05/02/19 16:37	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	05/02/19 16:37	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	05/02/19 16:37	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	05/02/19 16:37	
1,1-Dichloroethane	ug/L	<0.27	1.0	05/02/19 16:37	
1,1-Dichloroethene	ug/L	<0.24	1.0	05/02/19 16:37	
1,1-Dichloropropene	ug/L	<0.54	1.8	05/02/19 16:37	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	05/02/19 16:37	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	05/02/19 16:37	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	05/02/19 16:37	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/02/19 16:37	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	05/02/19 16:37	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	05/02/19 16:37	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	05/02/19 16:37	
1,2-Dichloroethane	ug/L	<0.28	1.0	05/02/19 16:37	
1,2-Dichloropropane	ug/L	<0.28	1.0	05/02/19 16:37	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/02/19 16:37	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	05/02/19 16:37	
1,3-Dichloropropane	ug/L	<0.83	2.8	05/02/19 16:37	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	05/02/19 16:37	
2,2-Dichloropropane	ug/L	<2.3	7.6	05/02/19 16:37	
2-Chlorotoluene	ug/L	<0.93	5.0	05/02/19 16:37	
4-Chlorotoluene	ug/L	<0.76	2.5	05/02/19 16:37	
Benzene	ug/L	<0.25	1.0	05/02/19 16:37	
Bromobenzene	ug/L	<0.24	1.0	05/02/19 16:37	
Bromochloromethane	ug/L	<0.36	5.0	05/02/19 16:37	
Bromodichloromethane	ug/L	<0.36	1.2	05/02/19 16:37	
Bromoform	ug/L	<4.0	13.2	05/02/19 16:37	
Bromomethane	ug/L	<0.97	5.0	05/02/19 16:37	
Carbon tetrachloride	ug/L	<0.17	1.0	05/02/19 16:37	
Chlorobenzene	ug/L	<0.71	2.4	05/02/19 16:37	
Chloroethane	ug/L	<1.3	5.0	05/02/19 16:37	
Chloroform	ug/L	<1.3	5.0	05/02/19 16:37	
Chloromethane	ug/L	<2.2	7.3	05/02/19 16:37	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	05/02/19 16:37	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	05/02/19 16:37	
Dibromochloromethane	ug/L	<2.6	8.7	05/02/19 16:37	
Dibromomethane	ug/L	<0.94	3.1	05/02/19 16:37	
Dichlorodifluoromethane	ug/L	<0.50	5.0	05/02/19 16:37	
Diisopropyl ether	ug/L	<1.9	6.3	05/02/19 16:37	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

METHOD BLANK: 1859706

Matrix: Water

Associated Lab Samples: 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800008, 40186800009, 40186800010, 40186800011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	05/02/19 16:37	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	05/02/19 16:37	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	05/02/19 16:37	
m&p-Xylene	ug/L	<0.47	2.0	05/02/19 16:37	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/02/19 16:37	
Methylene Chloride	ug/L	<0.58	5.0	05/02/19 16:37	
n-Butylbenzene	ug/L	<0.71	2.4	05/02/19 16:37	
n-Propylbenzene	ug/L	<0.81	5.0	05/02/19 16:37	
Naphthalene	ug/L	<1.2	5.0	05/02/19 16:37	
o-Xylene	ug/L	<0.26	1.0	05/02/19 16:37	
p-Isopropyltoluene	ug/L	<0.80	2.7	05/02/19 16:37	
sec-Butylbenzene	ug/L	<0.85	5.0	05/02/19 16:37	
Styrene	ug/L	<0.47	1.6	05/02/19 16:37	
tert-Butylbenzene	ug/L	<0.30	1.0	05/02/19 16:37	
Tetrachloroethene	ug/L	<0.33	1.1	05/02/19 16:37	
Tetrahydrofuran	ug/L	<2.3	20.0	05/02/19 16:37	
Toluene	ug/L	<0.17	5.0	05/02/19 16:37	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	05/02/19 16:37	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	05/02/19 16:37	
Trichloroethene	ug/L	<0.26	1.0	05/02/19 16:37	
Trichlorofluoromethane	ug/L	<0.21	1.0	05/02/19 16:37	
Vinyl chloride	ug/L	<0.17	1.0	05/02/19 16:37	
4-Bromofluorobenzene (S)	%	91	70-130	05/02/19 16:37	
Dibromofluoromethane (S)	%	103	70-130	05/02/19 16:37	
Toluene-d8 (S)	%	99	70-130	05/02/19 16:37	

LABORATORY CONTROL SAMPLE: 1859707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.3	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.5	101	70-130	
1,1,2-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1-Dichloroethane	ug/L	50	51.7	103	73-150	
1,1-Dichloroethene	ug/L	50	60.0	120	73-138	
1,2,4-Trichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.2	100	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	52.4	105	70-130	
1,2-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,2-Dichloroethane	ug/L	50	51.3	103	75-140	
1,2-Dichloropropane	ug/L	50	51.9	104	73-135	
1,3-Dichlorobenzene	ug/L	50	53.0	106	70-130	
1,4-Dichlorobenzene	ug/L	50	52.5	105	70-130	
Benzene	ug/L	50	52.7	105	70-130	

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

LABORATORY CONTROL SAMPLE: 1859707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	52.8	106	70-130	
Bromoform	ug/L	50	51.0	102	68-129	
Bromomethane	ug/L	50	42.9	86	18-159	
Carbon tetrachloride	ug/L	50	55.4	111	70-130	
Chlorobenzene	ug/L	50	53.8	108	70-130	
Chloroethane	ug/L	50	54.9	110	53-147	
Chloroform	ug/L	50	52.7	105	74-136	
Chloromethane	ug/L	50	29.9	60	29-115	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.3	101	70-130	
Dibromochloromethane	ug/L	50	51.8	104	70-130	
Dichlorodifluoromethane	ug/L	50	32.1	64	10-130	
Ethylbenzene	ug/L	50	55.8	112	80-124	
Isopropylbenzene (Cumene)	ug/L	50	57.7	115	70-130	
m&p-Xylene	ug/L	100	113	113	70-130	
Methyl-tert-butyl ether	ug/L	50	59.9	120	54-137	
Methylene Chloride	ug/L	50	58.1	116	73-138	
o-Xylene	ug/L	50	56.3	113	70-130	
Styrene	ug/L	50	56.7	113	70-130	
Tetrachloroethene	ug/L	50	51.8	104	70-130	
Toluene	ug/L	50	54.2	108	80-126	
trans-1,2-Dichloroethene	ug/L	50	58.8	118	73-145	
trans-1,3-Dichloropropene	ug/L	50	46.6	93	70-130	
Trichloroethene	ug/L	50	54.1	108	70-130	
Trichlorofluoromethane	ug/L	50	60.3	121	76-147	
Vinyl chloride	ug/L	50	46.7	93	51-120	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1859708 1859709

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40186800002	Result	Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	52.2	54.1	104	108	70-130	4	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	49.8	53.1	100	106	70-130	6	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.8	52.6	104	105	70-137	2	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	50.3	51.4	100	102	73-153	2	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	55.9	57.8	112	116	73-138	3	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50.1	52.5	100	105	70-130	5	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	49.3	53.5	99	107	58-129	8	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	52.6	53.3	105	107	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.8	55.2	104	110	70-130	6	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	49.8	51.6	100	103	75-140	4	20		

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1859708		1859709		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40186800002 Result	MS Spike Conc.	MSD Spike Conc.									
1,2-Dichloropropane	ug/L	<0.28	50	50	51.6	54.2	103	108	71-138	5	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	54.3	56.0	109	112	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.8	55.3	106	111	70-130	4	20		
Benzene	ug/L	0.76J	50	50	51.7	53.7	102	106	70-130	4	20		
Bromodichloromethane	ug/L	<0.36	50	50	52.9	53.6	106	107	70-130	1	20		
Bromoform	ug/L	<4.0	50	50	51.0	54.0	102	108	68-129	6	20		
Bromomethane	ug/L	<0.97	50	50	44.9	47.6	90	95	15-170	6	20		
Carbon tetrachloride	ug/L	<0.17	50	50	53.4	55.3	107	111	70-130	3	20		
Chlorobenzene	ug/L	<0.71	50	50	53.2	55.2	106	110	70-130	4	20		
Chloroethane	ug/L	<1.3	50	50	51.1	52.5	102	105	51-148	3	20		
Chloroform	ug/L	<1.3	50	50	51.5	53.0	103	106	74-136	3	20		
Chloromethane	ug/L	<2.2	50	50	26.3	26.3	53	53	23-115	0	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	49.6	50.9	99	102	70-131	3	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	50.8	51.8	102	104	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	52.6	53.2	105	106	70-130	1	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	25.3	26.2	51	52	10-132	3	20		
Ethylbenzene	ug/L	<0.22	50	50	55.0	56.4	110	113	80-125	2	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	56.2	58.4	112	117	70-130	4	20		
m&p-Xylene	ug/L	<0.47	100	100	111	113	111	113	70-130	2	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	58.6	60.9	117	122	51-145	4	20		
Methylene Chloride	ug/L	<0.58	50	50	56.7	57.6	113	115	73-140	2	20		
o-Xylene	ug/L	<0.26	50	50	55.4	57.7	111	115	70-130	4	20		
Styrene	ug/L	<0.47	50	50	56.0	57.8	112	116	70-130	3	20		
Tetrachloroethene	ug/L	<0.33	50	50	51.1	52.3	102	105	70-130	2	20		
Toluene	ug/L	<0.17	50	50	53.0	55.0	106	110	80-131	4	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	56.7	57.4	113	115	73-148	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	46.7	48.6	93	97	70-130	4	20		
Trichloroethene	ug/L	<0.26	50	50	52.8	54.2	106	108	70-130	3	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	56.5	58.8	113	118	74-147	4	20		
Vinyl chloride	ug/L	<0.17	50	50	42.4	43.6	85	87	41-129	3	20		
4-Bromofluorobenzene (S)	%						96	95	70-130				
Dibromofluoromethane (S)	%						100	100	70-130				
Toluene-d8 (S)	%						99	98	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40186800

QC Batch: 320170 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40186800001, 40186800002

METHOD BLANK: 1860090 Matrix: Water
Associated Lab Samples: 40186800001, 40186800002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	05/03/19 12:37	

LABORATORY CONTROL SAMPLE: 1860091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860092 1860093

Parameter	Units	40186580033		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Alkalinity, Total as CaCO3	mg/L	290	200	200	502	499	106	104	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860094 1860095

Parameter	Units	40186800002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Alkalinity, Total as CaCO3	mg/L	211	200	200	402	406	96	97	90-110	1	20		

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40186800

QC Batch: 320171 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800009, 40186800010

METHOD BLANK: 1860097 Matrix: Water
Associated Lab Samples: 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800009, 40186800010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	05/03/19 12:58	

LABORATORY CONTROL SAMPLE: 1860098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	107	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860099 1860100

Parameter	Units	40186800010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	214	200	200	399	412	92	99	90-110	3	20	

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40186800

QC Batch: 321053 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40186800008

METHOD BLANK: 1865196 Matrix: Water
Associated Lab Samples: 40186800008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	05/13/19 12:27	

LABORATORY CONTROL SAMPLE: 1865197

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865198 1865199

Parameter	Units	40186975004		1865198		1865199		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Alkalinity, Total as CaCO3	mg/L	50.9	100	100	154	153	103	102	90-110	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865200 1865201

Parameter	Units	40187096001		1865200		1865201		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Alkalinity, Total as CaCO3	mg/L	425	500	500	922	920	99	99	90-110	0	20

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40186800

QC Batch: 320872 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 40186800009

METHOD BLANK: 1863724 Matrix: Water
Associated Lab Samples: 40186800009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.25	0.50	05/09/19 17:31	

LABORATORY CONTROL SAMPLE: 1863725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1863726 1863727

Parameter	Units	40186778001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.25	10	10	9.4	9.2	93	91	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1863728 1863729

Parameter	Units	40187208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.0	10	10	10.4	10.5	94	95	90-110	1	20	

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QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF
Pace Project No.: 40186800

QC Batch: 320730 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 40186800009

METHOD BLANK: 1862845 Matrix: Water
Associated Lab Samples: 40186800009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.22	0.73	05/08/19 16:20	

LABORATORY CONTROL SAMPLE: 1862846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.7	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1862847 1862848

Parameter	Units	40186657001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Nitrogen, Kjeldahl, Total	mg/L	200	50	50	236	236	72	72	90-110	0	20	P6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1862849 1862850

Parameter	Units	40186778001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Nitrogen, Kjeldahl, Total	mg/L	0.51J	5	5	5.1	5.2	93	93	90-110	1	20		

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QUALIFIERS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40186800001	MW-16C	EPA 6010	320374		
40186800002	MW-16A	EPA 6010	320374		
40186800003	MW-16B	EPA 6010	320374		
40186800004	MW-16B DUP	EPA 6010	320374		
40186800005	MW-20C	EPA 6010	320374		
40186800006	MW-20B	EPA 6010	320374		
40186800007	MW-20A	EPA 6010	320374		
40186800008	FIELD BLANK	EPA 6010	320374		
40186800009	MW-2A	EPA 6010	320374		
40186800010	MW-2B	EPA 6010	320374		
40186800001	MW-16C	EPA 8260	320090		
40186800002	MW-16A	EPA 8260	320090		
40186800003	MW-16B	EPA 8260	320090		
40186800004	MW-16B DUP	EPA 8260	320090		
40186800005	MW-20C	EPA 8260	320090		
40186800006	MW-20B	EPA 8260	320090		
40186800007	MW-20A	EPA 8260	320090		
40186800008	FIELD BLANK	EPA 8260	320090		
40186800009	MW-2A	EPA 8260	320090		
40186800010	MW-2B	EPA 8260	320090		
40186800011	TRIP BLANK	EPA 8260	320090		
40186800001	MW-16C				
40186800002	MW-16A				
40186800003	MW-16B				
40186800004	MW-16B DUP				
40186800005	MW-20C				
40186800006	MW-20B				
40186800007	MW-20A				
40186800008	FIELD BLANK				
40186800009	MW-2A				
40186800010	MW-2B				
40186800001	MW-16C	EPA 300.0	320208		
40186800002	MW-16A	EPA 300.0	320208		
40186800003	MW-16B	EPA 300.0	320208		
40186800004	MW-16B DUP	EPA 300.0	320208		
40186800005	MW-20C	EPA 300.0	320208		
40186800006	MW-20B	EPA 300.0	320208		
40186800007	MW-20A	EPA 300.0	320208		
40186800008	FIELD BLANK	EPA 300.0	320208		
40186800009	MW-2A	EPA 300.0	320208		
40186800010	MW-2B	EPA 300.0	320208		
40186800001	MW-16C	EPA 310.2	320170		
40186800002	MW-16A	EPA 310.2	320170		
40186800003	MW-16B	EPA 310.2	320171		
40186800004	MW-16B DUP	EPA 310.2	320171		
40186800005	MW-20C	EPA 310.2	320171		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40186800006	MW-20B	EPA 310.2	320171		
40186800007	MW-20A	EPA 310.2	320171		
40186800008	FIELD BLANK	EPA 310.2	321053		
40186800009	MW-2A	EPA 310.2	320171		
40186800010	MW-2B	EPA 310.2	320171		
40186800009	MW-2A	EPA 350.1	320872		
40186800009	MW-2A	EPA 351.2	320730	EPA 351.2	320791

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **GHD**
 Branch/Location: **St. Paul**
 Project Contact: **G. Anderson**
 Phone: **651-639-0913**
 Project Number: **11115796-4020**
 Project Name: **Rhinelander LR**
 Project State: **WI**
 Sampled By (Print): **Ryan Aamat**
 Sampled By (Sign): *[Signature]*
 PO #: _____ Regulatory Program: _____



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

40186800

CHAIN OF CUSTODY

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

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

Y/N	N	N	Y	Y	Y	N
Pick Letter						
Analyses Requested	VOCs + tetrahydrofuran	Chloride: AIX	Fe: Mn	Boron	Hardness	Ammonia: TKN
	✓	✓	✓		✓	
	✓	✓	✓		✓	
	✓	✓	✓		✓	
	✓	✓	✓		✓	
	✓	✓	✓		✓	
	✓	✓	✓	✓	✓	
	✓	✓	✓		✓	
	✓	✓	✓		✓	✓
	✓	✓	✓		✓	
	✓					

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRX
		DATE	TIME	
001	W-190429-RA-06	4/29/19	1420	GW
002	W-190429-RA-01		1440	
003	W-190429-RA-04		1503	
007	W-190429-RA-05		1503	
005	W-190430-RA-09	4/30/19	808	
006	W-190430-RA-08		820	
007	W-190430-RA-07		848	
008	W-190430-RA-10		900	
009	W-190430-RA-02		941	
010	W-190430-RA-03		959	
011	trip blank			

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

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: _____ Transmit Prelim Rush Results by (complete what you want): _____ Email #1: _____ Email #2: _____ Telephone: _____ Fax: _____ Samples on HOLD are subject to special pricing and release of liability	Relinquished By: <i>[Signature]</i> Date/Time: 4/20/19 1500 Relinquished By: <i>[Signature]</i> Date/Time: 05/01/19 1005 Relinquished By: _____ Date/Time: _____ Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____ Received By: <i>[Signature]</i> Date/Time: 05/01/19 1005 Received By: _____ Date/Time: _____ Received By: _____ Date/Time: _____	PACE Project No. 40186800 Receipt Temp = 1.0 °C Sample Receipt pH (OK) / Adjusted Cooler Custody Seal Present (Not Present) / Intact / Not Intact
--	---	---	--

Sample Preservation Receipt Form

Client Name: GHD Project # 10186800

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper: low 358 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: GL 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	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU								WPFU	SP5T	ZPLC	GN		
001																	3																		2.5 / 5 / 10
002											3							3																	2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			2.5 / 5 / 10
007																																			2.5 / 5 / 10
008																																			2.5 / 5 / 10
009																																			2.5 / 5 / 10
010																																			2.5 / 5 / 10
011																																			2.5 / 5 / 10
012																																			2.5 / 5 / 10
013																																			2.5 / 5 / 10
014																																			2.5 / 5 / 10
015																																			2.5 / 5 / 10
016																																			2.5 / 5 / 10
017																																			2.5 / 5 / 10
018																																			2.5 / 5 / 10
019																																			2.5 / 5 / 10
020																																			2.5 / 5 / 10

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	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	



1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40186800



Client Name: GHD

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

Tracking #: 812616660117

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-78 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1.0 /Corr: 1.0

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 05/01/19
Initials: ae

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. Mail, invoice, preservation ae 05/01/19
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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input 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. No times on vials, ae 05/01/19 or bottles
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>416</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 05/01/19