



May 31, 2017

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 2017
Rhinelanders Landfill (#00686)**

On behalf of the Rhinelanders Landfill Group (RLG), GHD Services, Inc. (GHD) is submitting the semi-annual sampling results for the April 2017 sampling event for the Rhinelanders Landfill in Rhinelanders, Wisconsin.

The April 2017 sampling event was conducted on April 24th and 25th. 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 Rhinelanders 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 2017.

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", is written over a light blue circular stamp.

Ryan Aamot

RA/sb/2

Encl.

cc: Carrie Miljevich, City of Rhinelanders (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

Attachment A
Environmental Monitoring Data Certification
(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 24-25, 2017	April 2017

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) 5/30/17

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
4/25/2017	007	34030	16.1	ug/L	ES		148921008	MW-2A	01	Benzene	0.5	5
4/25/2017	007	01020	1600	ug/L	ES		148921008	MW-2A	01	Boron, Dissolved	200	1000
4/25/2017	007	01046	64900	ug/L	ES		148921008	MW-2A	01	Iron, Dissolved	150	300
4/25/2017	007	01056	647	ug/L	ES		148921008	MW-2A	01	Manganese, Dissolved	25	50
4/25/2017	007	00610	266	mg/L	ES		148921008	MW-2A	01	Nitrogen, Ammonia	0.97	9.7
4/25/2017	007	81607	184	ug/L	ES		148921008	MW-2A	01	Tetrahydrofuran	10	50
4/25/2017	009	34030	J 1.0	ug/L	PAL		148921009	MW-2B	01	Benzene	0.5	5
4/25/2017	009	01046	22500	ug/L	ES		148921009	MW-2B	01	Iron, Dissolved	150	300
4/25/2017	009	01056	1200	ug/L	ES		148921009	MW-2B	01	Manganese, Dissolved	25	50
4/25/2017	009	81607	19.0	ug/L	PAL		148921009	MW-2B	01	Tetrahydrofuran	10	50
4/25/2017	009	39175	J 0.40	ug/L	ES		148921009	MW-2B	01	Vinyl chloride	0.02	0.2
4/24/2017	069	34030	J 0.82	ug/L	PAL		148921005	MW-16A	01	Benzene	0.5	5
4/24/2017	069	01046	1810	ug/L	ES		148921005	MW-16A	01	Iron, Dissolved	150	300
4/24/2017	069	01056	3970	ug/L	ES		148921005	MW-16A	01	Manganese, Dissolved	25	50
4/24/2017	069	39175	J 0.71	ug/L	ES		148921005	MW-16A	01	Vinyl chloride	0.02	0.2
4/24/2017	071	34030	1.2	ug/L	PAL		148921006	MW-16B	01	Benzene	0.5	5
4/24/2017	071	01046	39900	ug/L	ES		148921006	MW-16B	01	Iron, Dissolved	150	300
4/24/2017	071	01056	3690	ug/L	ES		148921006	MW-16B	01	Manganese, Dissolved	25	50
4/24/2017	071	81607	11.5	ug/L	PAL		148921006	MW-16B	01	Tetrahydrofuran	10	50
4/24/2017	073	34030	1.3	ug/L	PAL		148921007	MW-16C	01	Benzene	0.5	5
4/24/2017	073	01046	26200	ug/L	ES		148921007	MW-16C	01	Iron, Dissolved	150	300
4/24/2017	073	01056	2050	ug/L	ES		148921007	MW-16C	01	Manganese, Dissolved	25	50
4/24/2017	073	81607	15.9	ug/L	PAL		148921007	MW-16C	01	Tetrahydrofuran	10	50
4/24/2017	073	39175	J 0.24	ug/L	ES		148921007	MW-16C	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.

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
4/24/2017	093	34030	1.2	ug/L	PAL		148921001	MW-20A	01	Benzene	0.5	5
4/24/2017	093	01020	428	ug/L	PAL		148921001	MW-20A	01	Boron, Dissolved	200	1000
4/24/2017	093	01046	71200	ug/L	ES		148921001	MW-20A	01	Iron, Dissolved	150	300
4/24/2017	093	01056	755	ug/L	ES		148921001	MW-20A	01	Manganese, Dissolved	25	50
4/24/2017	093	34696	11.0	ug/L	PAL		148921001	MW-20A	01	Naphthalene	10	100
4/24/2017	095	34030	J 0.70	ug/L	PAL		148921002	MW-20B	01	Benzene	0.5	5
4/24/2017	095	01046	18200	ug/L	ES		148921002	MW-20B	01	Iron, Dissolved	150	300
4/24/2017	095	01056	1090	ug/L	ES		148921002	MW-20B	01	Manganese, Dissolved	25	50
4/24/2017	095	34696	11.6	ug/L	PAL		148921002	MW-20B	01	Naphthalene	10	100
4/24/2017	095	81607	14.5	ug/L	PAL		148921002	MW-20B	01	Tetrahydrofuran	10	50
4/24/2017	095	39175	J 0.54	ug/L	ES		148921002	MW-20B	01	Vinyl chloride	0.02	0.2
4/24/2017	097	34030	J 0.80	ug/L	PAL		148921003	MW-20C	01	Benzene	0.5	5
4/24/2017	097	01046	21400	ug/L	ES		148921003	MW-20C	01	Iron, Dissolved	150	300
4/24/2017	097	01056	1350	ug/L	ES		148921003	MW-20C	01	Manganese, Dissolved	25	50
4/24/2017	097	39175	J 0.84	ug/L	ES		148921003	MW-20C	01	Vinyl chloride	0.02	0.2
4/24/2017	097	34030	J 0.86	ug/L	PAL		148921004	MW-20C DUP	02	Benzene	0.5	5
4/24/2017	097	01046	21600	ug/L	ES		148921004	MW-20C DUP	02	Iron, Dissolved	150	300
4/24/2017	097	01056	1410	ug/L	ES		148921004	MW-20C DUP	02	Manganese, Dissolved	25	50
4/24/2017	097	39175	J 0.81	ug/L	ES		148921004	MW-20C DUP	02	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 Analytical Report

May 10, 2017

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

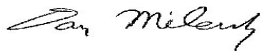
RE: Project: 11115796 RHINELANDER LF
Pace Project No.: 40148921

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40148921001	MW-20A	Water	04/24/17 16:00	04/26/17 09:30
40148921002	MW-20B	Water	04/24/17 15:40	04/26/17 09:30
40148921003	MW-20C	Water	04/24/17 15:50	04/26/17 09:30
40148921004	MW-20C DUP	Water	04/24/17 15:50	04/26/17 09:30
40148921005	MW-16A	Water	04/24/17 16:40	04/26/17 09:30
40148921006	MW-16B	Water	04/24/17 16:25	04/26/17 09:30
40148921007	MW-16C	Water	04/24/17 16:30	04/26/17 09:30
40148921008	MW-2A	Water	04/25/17 08:30	04/26/17 09:30
40148921009	MW-2B	Water	04/25/17 08:50	04/26/17 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40148921001	MW-20A	EPA 6010	DLB	4
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40148921002	MW-20B	EPA 6010	DLB	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40148921003	MW-20C	EPA 6010	DLB	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40148921004	MW-20C DUP	EPA 6010	DLB	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40148921005	MW-16A	EPA 6010	DLB	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40148921006	MW-16B	EPA 6010	DLB	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40148921007	MW-16C	EPA 6010	DLB	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40148921008	MW-2A	EPA 6010	DLB	4
		EPA 8260	LAP	65

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Lab ID	Sample ID	Method	Analysts	Analytes Reported
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
40148921009	MW-2B	EPA 6010	DLB	3
		EPA 8260	LAP	65
			RMW	6
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-20A **Lab ID: 40148921001** Collected: 04/24/17 16:00 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	428	ug/L	40.0	6.7	1		05/04/17 12:31	7440-42-8	
Iron, Dissolved	71200	ug/L	100	15.5	1		05/04/17 12:31	7439-89-6	
Manganese, Dissolved	755	ug/L	5.0	1.1	1		05/04/17 12:31	7439-96-5	
Total Hardness by 2340B, Dissolved	167	mg/L	2.0	0.15	1		05/04/17 12:31		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.2	ug/L	1.0	0.50	1		04/28/17 08:53	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/28/17 08:53	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/28/17 08:53	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/28/17 08:53	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 08:53	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/28/17 08:53	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	56-23-5	
Chlorobenzene	3.6	ug/L	1.0	0.50	1		04/28/17 08:53	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/28/17 08:53	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/28/17 08:53	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/28/17 08:53	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/28/17 08:53	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/28/17 08:53	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/28/17 08:53	74-95-3	
1,2-Dichlorobenzene	0.53J	ug/L	1.0	0.50	1		04/28/17 08:53	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	541-73-1	
1,4-Dichlorobenzene	1.6	ug/L	1.0	0.50	1		04/28/17 08:53	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/28/17 08:53	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/28/17 08:53	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/28/17 08:53	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/28/17 08:53	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 08:53	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 08:53	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/28/17 08:53	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/28/17 08:53	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/28/17 08:53	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/28/17 08:53	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/28/17 08:53	87-68-3	
Isopropylbenzene (Cumene)	2.7	ug/L	1.0	0.14	1		04/28/17 08:53	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40148921

Sample: MW-20A **Lab ID: 40148921001** Collected: 04/24/17 16:00 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/28/17 08:53	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/28/17 08:53	1634-04-4	
Naphthalene	11.0	ug/L	5.0	2.5	1		04/28/17 08:53	91-20-3	
n-Propylbenzene	2.1	ug/L	1.0	0.50	1		04/28/17 08:53	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/28/17 08:53	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/28/17 08:53	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	127-18-4	
Tetrahydrofuran	6.8	ug/L	5.0	2.0	1		04/28/17 08:53	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/28/17 08:53	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 08:53	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/28/17 08:53	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/28/17 08:53	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/28/17 08:53	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:53	96-18-4	
1,2,4-Trimethylbenzene	17.7	ug/L	1.0	0.50	1		04/28/17 08:53	95-63-6	
1,3,5-Trimethylbenzene	3.6	ug/L	1.0	0.50	1		04/28/17 08:53	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/28/17 08:53	75-01-4	
m&p-Xylene	40.8	ug/L	2.0	1.0	1		04/28/17 08:53	179601-23-1	
o-Xylene	1.3	ug/L	1.0	0.50	1		04/28/17 08:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/28/17 08:53	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		04/28/17 08:53	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/28/17 08:53	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.25	Std. Units			1		04/24/17 16:00		
Field Specific Conductance	433	umhos/cm			1		04/24/17 16:00		
Oxygen, Dissolved	1.1	mg/L			1		04/24/17 16:00	7782-44-7	
REDOX	-57	mV			1		04/24/17 16:00		
Turbidity	0	NTU			1		04/24/17 16:00		
Temperature, Water (C)	6.4	deg C			1		04/24/17 16:00		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	8.4J	mg/L	10.0	2.5	5		05/05/17 18:50	16887-00-6	D3
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	299	mg/L	47.0	14.1	2		05/03/17 12:44		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-20B **Lab ID: 40148921002** Collected: 04/24/17 15:40 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	18200	ug/L	100	15.5	1		05/04/17 12:33	7439-89-6	
Manganese, Dissolved	1090	ug/L	5.0	1.1	1		05/04/17 12:33	7439-96-5	
Total Hardness by 2340B, Dissolved	167	mg/L	2.0	0.15	1		05/04/17 12:33		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.70J	ug/L	1.0	0.50	1		04/28/17 08:31	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/28/17 08:31	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/28/17 08:31	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/28/17 08:31	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 08:31	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/28/17 08:31	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/28/17 08:31	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/28/17 08:31	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/28/17 08:31	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/28/17 08:31	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/28/17 08:31	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/28/17 08:31	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/28/17 08:31	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/28/17 08:31	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/28/17 08:31	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/28/17 08:31	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 08:31	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 08:31	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/28/17 08:31	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/28/17 08:31	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/28/17 08:31	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/28/17 08:31	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/28/17 08:31	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/28/17 08:31	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-20B **Lab ID: 40148921002** Collected: 04/24/17 15:40 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/28/17 08:31	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/28/17 08:31	1634-04-4	
Naphthalene	11.6	ug/L	5.0	2.5	1		04/28/17 08:31	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/28/17 08:31	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/28/17 08:31	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	127-18-4	
Tetrahydrofuran	14.5	ug/L	5.0	2.0	1		04/28/17 08:31	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/28/17 08:31	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 08:31	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/28/17 08:31	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/28/17 08:31	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/28/17 08:31	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	108-67-8	
Vinyl chloride	0.54J	ug/L	1.0	0.18	1		04/28/17 08:31	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/28/17 08:31	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/28/17 08:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/28/17 08:31	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/28/17 08:31	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/28/17 08:31	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.89	Std. Units			1		04/24/17 15:40		
Field Specific Conductance	327	umhos/cm			1		04/24/17 15:40		
Oxygen, Dissolved	1.14	mg/L			1		04/24/17 15:40	7782-44-7	
REDOX	-62	mV			1		04/24/17 15:40		
Turbidity	0	NTU			1		04/24/17 15:40		
Temperature, Water (C)	8.5	deg C			1		04/24/17 15:40		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	45.7	mg/L	10.0	2.5	5		05/05/17 19:00	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	162	mg/L	23.5	7.0	1		05/03/17 12:44		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-20C **Lab ID: 40148921003** Collected: 04/24/17 15:50 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	21400	ug/L	100	15.5	1		05/04/17 13:01	7439-89-6	
Manganese, Dissolved	1350	ug/L	5.0	1.1	1		05/04/17 13:01	7439-96-5	
Total Hardness by 2340B, Dissolved	180	mg/L	2.0	0.15	1		05/04/17 13:01		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.80J	ug/L	1.0	0.50	1		04/28/17 09:15	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/28/17 09:15	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/28/17 09:15	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/28/17 09:15	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 09:15	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/28/17 09:15	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	56-23-5	
Chlorobenzene	0.59J	ug/L	1.0	0.50	1		04/28/17 09:15	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/28/17 09:15	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/28/17 09:15	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/28/17 09:15	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/28/17 09:15	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/28/17 09:15	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/28/17 09:15	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/28/17 09:15	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/28/17 09:15	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/28/17 09:15	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/28/17 09:15	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 09:15	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 09:15	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/28/17 09:15	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/28/17 09:15	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/28/17 09:15	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/28/17 09:15	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/28/17 09:15	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/28/17 09:15	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-20C **Lab ID: 40148921003** Collected: 04/24/17 15:50 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/28/17 09:15	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/28/17 09:15	1634-04-4	
Naphthalene	6.7	ug/L	5.0	2.5	1		04/28/17 09:15	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/28/17 09:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/28/17 09:15	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	127-18-4	
Tetrahydrofuran	7.1	ug/L	5.0	2.0	1		04/28/17 09:15	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/28/17 09:15	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 09:15	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/28/17 09:15	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/28/17 09:15	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/28/17 09:15	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	108-67-8	
Vinyl chloride	0.84J	ug/L	1.0	0.18	1		04/28/17 09:15	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/28/17 09:15	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		04/28/17 09:15	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		04/28/17 09:15	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/28/17 09:15	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.84	Std. Units			1		04/24/17 15:50		
Field Specific Conductance	357	umhos/cm			1		04/24/17 15:50		
Oxygen, Dissolved	0.72	mg/L			1		04/24/17 15:50	7782-44-7	
REDOX	-88	mV			1		04/24/17 15:50		
Turbidity	0	NTU			1		04/24/17 15:50		
Temperature, Water (C)	8.5	deg C			1		04/24/17 15:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	45.9	mg/L	10.0	2.5	5		05/05/17 19:11	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	188	mg/L	23.5	7.0	1		05/03/17 12:45		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-20C DUP **Lab ID: 40148921004** Collected: 04/24/17 15:50 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	21600	ug/L	100	15.5	1		05/04/17 12:44	7439-89-6	
Manganese, Dissolved	1410	ug/L	5.0	1.1	1		05/04/17 12:44	7439-96-5	
Total Hardness by 2340B, Dissolved	183	mg/L	2.0	0.15	1		05/04/17 12:44		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.86J	ug/L	1.0	0.50	1		04/28/17 09:38	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/28/17 09:38	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/28/17 09:38	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/28/17 09:38	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 09:38	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/28/17 09:38	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	56-23-5	
Chlorobenzene	0.60J	ug/L	1.0	0.50	1		04/28/17 09:38	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/28/17 09:38	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/28/17 09:38	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/28/17 09:38	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/28/17 09:38	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/28/17 09:38	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/28/17 09:38	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/28/17 09:38	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/28/17 09:38	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/28/17 09:38	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/28/17 09:38	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 09:38	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 09:38	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/28/17 09:38	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/28/17 09:38	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/28/17 09:38	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/28/17 09:38	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/28/17 09:38	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/28/17 09:38	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-20C DUP **Lab ID: 40148921004** Collected: 04/24/17 15:50 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/28/17 09:38	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/28/17 09:38	1634-04-4	
Naphthalene	6.7	ug/L	5.0	2.5	1		04/28/17 09:38	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/28/17 09:38	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/28/17 09:38	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	127-18-4	
Tetrahydrofuran	7.5	ug/L	5.0	2.0	1		04/28/17 09:38	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/28/17 09:38	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 09:38	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/28/17 09:38	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/28/17 09:38	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/28/17 09:38	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	108-67-8	
Vinyl chloride	0.81J	ug/L	1.0	0.18	1		04/28/17 09:38	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/28/17 09:38	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/28/17 09:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		04/28/17 09:38	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/28/17 09:38	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/28/17 09:38	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.84	Std. Units			1		04/24/17 15:50		
Field Specific Conductance	357	umhos/cm			1		04/24/17 15:50		
Oxygen, Dissolved	0.72	mg/L			1		04/24/17 15:50	7782-44-7	
REDOX	-88	mV			1		04/24/17 15:50		
Turbidity	0	NTU			1		04/24/17 15:50		
Temperature, Water (C)	8.5	deg C			1		04/24/17 15:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	46.3	mg/L	10.0	2.5	5		05/05/17 19:22	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	370	mg/L	47.0	14.1	2		05/03/17 12:45		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-16A **Lab ID: 40148921005** Collected: 04/24/17 16:40 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	1810	ug/L	100	15.5	1		05/04/17 12:47	7439-89-6	
Manganese, Dissolved	3970	ug/L	5.0	1.1	1		05/04/17 12:47	7439-96-5	
Total Hardness by 2340B, Dissolved	202	mg/L	2.0	0.15	1		05/04/17 12:47		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.82J	ug/L	1.0	0.50	1		04/28/17 10:00	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/28/17 10:00	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/28/17 10:00	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/28/17 10:00	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 10:00	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/28/17 10:00	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/28/17 10:00	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/28/17 10:00	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/28/17 10:00	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/28/17 10:00	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/28/17 10:00	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/28/17 10:00	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/28/17 10:00	75-71-8	
1,1-Dichloroethane	0.29J	ug/L	1.0	0.24	1		04/28/17 10:00	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/28/17 10:00	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/28/17 10:00	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 10:00	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 10:00	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/28/17 10:00	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/28/17 10:00	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/28/17 10:00	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/28/17 10:00	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/28/17 10:00	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/28/17 10:00	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-16A **Lab ID: 40148921005** Collected: 04/24/17 16:40 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/28/17 10:00	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/28/17 10:00	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/28/17 10:00	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/28/17 10:00	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/28/17 10:00	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		04/28/17 10:00	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/28/17 10:00	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 10:00	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/28/17 10:00	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/28/17 10:00	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/28/17 10:00	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	108-67-8	
Vinyl chloride	0.71J	ug/L	1.0	0.18	1		04/28/17 10:00	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/28/17 10:00	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/28/17 10:00	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/28/17 10:00	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/28/17 10:00	2037-26-5	
Field Data Analytical Method:									
Field pH	6.94	Std. Units			1		04/24/17 16:40		
Field Specific Conductance	287	umhos/cm			1		04/24/17 16:40		
Oxygen, Dissolved	1.59	mg/L			1		04/24/17 16:40	7782-44-7	
REDOX	-108	mV			1		04/24/17 16:40		
Turbidity	0	NTU			1		04/24/17 16:40		
Temperature, Water (C)	6.9	deg C			1		04/24/17 16:40		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	24.6	mg/L	2.0	0.50	1		05/05/17 19:33	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	222	mg/L	23.5	7.0	1		05/03/17 12:46		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-16B **Lab ID: 40148921006** Collected: 04/24/17 16:25 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	39900	ug/L	100	15.5	1		05/04/17 12:50	7439-89-6	
Manganese, Dissolved	3690	ug/L	5.0	1.1	1		05/04/17 12:50	7439-96-5	
Total Hardness by 2340B, Dissolved	236	mg/L	2.0	0.15	1		05/04/17 12:50		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.2	ug/L	1.0	0.50	1		04/28/17 10:22	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/28/17 10:22	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/28/17 10:22	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/28/17 10:22	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 10:22	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/28/17 10:22	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	56-23-5	
Chlorobenzene	0.52J	ug/L	1.0	0.50	1		04/28/17 10:22	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/28/17 10:22	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/28/17 10:22	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/28/17 10:22	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/28/17 10:22	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/28/17 10:22	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/28/17 10:22	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/28/17 10:22	75-71-8	
1,1-Dichloroethane	0.29J	ug/L	1.0	0.24	1		04/28/17 10:22	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/28/17 10:22	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/28/17 10:22	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 10:22	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 10:22	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/28/17 10:22	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/28/17 10:22	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/28/17 10:22	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/28/17 10:22	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/28/17 10:22	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/28/17 10:22	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF
Pace Project No.: 40148921

Sample: MW-16B **Lab ID: 40148921006** Collected: 04/24/17 16:25 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/28/17 10:22	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/28/17 10:22	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/28/17 10:22	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/28/17 10:22	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/28/17 10:22	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	127-18-4	
Tetrahydrofuran	11.5	ug/L	5.0	2.0	1		04/28/17 10:22	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/28/17 10:22	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 10:22	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/28/17 10:22	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/28/17 10:22	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/28/17 10:22	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/28/17 10:22	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/28/17 10:22	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/28/17 10:22	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		04/28/17 10:22	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/28/17 10:22	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.09	Std. Units			1		04/24/17 16:25		
Field Specific Conductance	448	umhos/cm			1		04/24/17 16:25		
Oxygen, Dissolved	0.79	mg/L			1		04/24/17 16:25	7782-44-7	
REDOX	-131	mV			1		04/24/17 16:25		
Turbidity	0	NTU			1		04/24/17 16:25		
Temperature, Water (C)	8.4	deg C			1		04/24/17 16:25		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	38.6	mg/L	10.0	2.5	5		05/05/17 20:27	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	257	mg/L	23.5	7.0	1		05/03/17 14:23		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-16C **Lab ID: 40148921007** Collected: 04/24/17 16:30 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	26200	ug/L	100	15.5	1		05/04/17 12:52	7439-89-6	
Manganese, Dissolved	2050	ug/L	5.0	1.1	1		05/04/17 12:52	7439-96-5	
Total Hardness by 2340B, Dissolved	232	mg/L	2.0	0.15	1		05/04/17 12:52		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.3	ug/L	1.0	0.50	1		04/28/17 10:44	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/28/17 10:44	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/28/17 10:44	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/28/17 10:44	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 10:44	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/28/17 10:44	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	56-23-5	
Chlorobenzene	0.59J	ug/L	1.0	0.50	1		04/28/17 10:44	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/28/17 10:44	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/28/17 10:44	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/28/17 10:44	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/28/17 10:44	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/28/17 10:44	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/28/17 10:44	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/28/17 10:44	75-71-8	
1,1-Dichloroethane	0.27J	ug/L	1.0	0.24	1		04/28/17 10:44	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/28/17 10:44	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/28/17 10:44	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 10:44	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 10:44	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/28/17 10:44	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/28/17 10:44	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/28/17 10:44	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/28/17 10:44	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/28/17 10:44	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/28/17 10:44	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-16C **Lab ID: 40148921007** Collected: 04/24/17 16:30 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/28/17 10:44	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/28/17 10:44	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/28/17 10:44	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/28/17 10:44	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/28/17 10:44	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	127-18-4	
Tetrahydrofuran	15.9	ug/L	5.0	2.0	1		04/28/17 10:44	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/28/17 10:44	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 10:44	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/28/17 10:44	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/28/17 10:44	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/28/17 10:44	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	108-67-8	
Vinyl chloride	0.24J	ug/L	1.0	0.18	1		04/28/17 10:44	75-01-4	
m&p-Xylene	1.1J	ug/L	2.0	1.0	1		04/28/17 10:44	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/28/17 10:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/28/17 10:44	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/28/17 10:44	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/28/17 10:44	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.96	Std. Units			1		04/24/17 16:30		
Field Specific Conductance	622	umhos/cm			1		04/24/17 16:30		
Oxygen, Dissolved	0.9	mg/L			1		04/24/17 16:30	7782-44-7	
REDOX	-122	mV			1		04/24/17 16:30		
Turbidity	0	NTU			1		04/24/17 16:30		
Temperature, Water (C)	8.3	deg C			1		04/24/17 16:30		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	39.7	mg/L	10.0	2.5	5		05/05/17 21:32	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	257	mg/L	23.5	7.0	1		05/03/17 14:24		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-2A **Lab ID: 40148921008** Collected: 04/25/17 08:30 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	1600	ug/L	40.0	6.7	1		05/04/17 12:55	7440-42-8	
Iron, Dissolved	64900	ug/L	100	15.5	1		05/04/17 12:55	7439-89-6	
Manganese, Dissolved	647	ug/L	5.0	1.1	1		05/04/17 12:55	7439-96-5	
Total Hardness by 2340B, Dissolved	1140	mg/L	2.0	0.15	1		05/04/17 12:55		
8260 MSV		Analytical Method: EPA 8260							
Benzene	16.1	ug/L	1.0	0.50	1		04/28/17 11:06	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/28/17 11:06	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/28/17 11:06	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/28/17 11:06	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 11:06	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/28/17 11:06	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	56-23-5	
Chlorobenzene	0.77J	ug/L	1.0	0.50	1		04/28/17 11:06	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/28/17 11:06	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/28/17 11:06	67-66-3	
Chloromethane	0.77J	ug/L	1.0	0.50	1		04/28/17 11:06	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/28/17 11:06	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/28/17 11:06	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/28/17 11:06	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/28/17 11:06	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	541-73-1	
1,4-Dichlorobenzene	0.80J	ug/L	1.0	0.50	1		04/28/17 11:06	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/28/17 11:06	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/28/17 11:06	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/28/17 11:06	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/28/17 11:06	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 11:06	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 11:06	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/28/17 11:06	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/28/17 11:06	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/28/17 11:06	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/28/17 11:06	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/28/17 11:06	87-68-3	
Isopropylbenzene (Cumene)	0.29J	ug/L	1.0	0.14	1		04/28/17 11:06	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-2A **Lab ID: 40148921008** Collected: 04/25/17 08:30 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/28/17 11:06	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/28/17 11:06	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/28/17 11:06	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/28/17 11:06	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/28/17 11:06	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	127-18-4	
Tetrahydrofuran	184	ug/L	5.0	2.0	1		04/28/17 11:06	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/28/17 11:06	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 11:06	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/28/17 11:06	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/28/17 11:06	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/28/17 11:06	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	96-18-4	
1,2,4-Trimethylbenzene	1.4	ug/L	1.0	0.50	1		04/28/17 11:06	95-63-6	
1,3,5-Trimethylbenzene	1.1	ug/L	1.0	0.50	1		04/28/17 11:06	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		04/28/17 11:06	75-01-4	
m&p-Xylene	3.2	ug/L	2.0	1.0	1		04/28/17 11:06	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		04/28/17 11:06	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/28/17 11:06	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/28/17 11:06	2037-26-5	
Field Data Analytical Method:									
Field pH	6.52	Std. Units			1		04/25/17 08:30		
Field Specific Conductance	2592	umhos/cm			1		04/25/17 08:30		
Oxygen, Dissolved	1.31	mg/L			1		04/25/17 08:30	7782-44-7	
REDOX	.21	mV			1		04/25/17 08:30		
Turbidity	0	NTU			1		04/25/17 08:30		
Temperature, Water (C)	5.2	deg C			1		04/25/17 08:30		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	77.2	mg/L	10.0	2.5	5		05/05/17 21:43	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	2320	mg/L	235	70.4	10		05/03/17 14:25		
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	266	mg/L	10.0	5.0	20		05/05/17 19:44	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-2A **Lab ID: 40148921008** Collected: 04/25/17 08:30 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	259	mg/L	14.6	4.4	1	05/02/17 13:22	05/02/17 17:57	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-2B **Lab ID: 40148921009** Collected: 04/25/17 08:50 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	22500	ug/L	100	15.5	1		05/04/17 12:58	7439-89-6	
Manganese, Dissolved	1200	ug/L	5.0	1.1	1		05/04/17 12:58	7439-96-5	
Total Hardness by 2340B, Dissolved	187	mg/L	2.0	0.15	1		05/04/17 12:58		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.0J	ug/L	1.0	0.50	1		04/28/17 11:28	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		04/28/17 11:28	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		04/28/17 11:28	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		04/28/17 11:28	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 11:28	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		04/28/17 11:28	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		04/28/17 11:28	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		04/28/17 11:28	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		04/28/17 11:28	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		04/28/17 11:28	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		04/28/17 11:28	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		04/28/17 11:28	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		04/28/17 11:28	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/28/17 11:28	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		04/28/17 11:28	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/28/17 11:28	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 11:28	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		04/28/17 11:28	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		04/28/17 11:28	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		04/28/17 11:28	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		04/28/17 11:28	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		04/28/17 11:28	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		04/28/17 11:28	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		04/28/17 11:28	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Sample: MW-2B **Lab ID: 40148921009** Collected: 04/25/17 08:50 Received: 04/26/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		04/28/17 11:28	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		04/28/17 11:28	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/28/17 11:28	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		04/28/17 11:28	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		04/28/17 11:28	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	127-18-4	
Tetrahydrofuran	19.0	ug/L	5.0	2.0	1		04/28/17 11:28	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		04/28/17 11:28	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		04/28/17 11:28	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		04/28/17 11:28	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/28/17 11:28	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		04/28/17 11:28	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	108-67-8	
Vinyl chloride	0.40J	ug/L	1.0	0.18	1		04/28/17 11:28	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/28/17 11:28	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/28/17 11:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/28/17 11:28	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/28/17 11:28	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/28/17 11:28	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.99	Std. Units			1		04/25/17 08:50		
Field Specific Conductance	385	umhos/cm			1		04/25/17 08:50		
Oxygen, Dissolved	1	mg/L			1		04/25/17 08:50	7782-44-7	
REDOX	-102	mV			1		04/25/17 08:50		
Turbidity	0	NTU			1		04/25/17 08:50		
Temperature, Water (C)	8.1	deg C			1		04/25/17 08:50		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	31.3	mg/L	10.0	2.5	5		05/05/17 21:53	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	227	mg/L	47.0	14.1	2		05/03/17 14:25		B

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40148921

QC Batch: 254483 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40148921001, 40148921002, 40148921003, 40148921004, 40148921005, 40148921006, 40148921007, 40148921008, 40148921009

METHOD BLANK: 1500494 Matrix: Water
Associated Lab Samples: 40148921001, 40148921002, 40148921003, 40148921004, 40148921005, 40148921006, 40148921007, 40148921008, 40148921009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<6.7	40.0	05/04/17 11:44	
Iron, Dissolved	ug/L	19.5J	100	05/04/17 11:44	
Manganese, Dissolved	ug/L	<1.1	5.0	05/04/17 11:44	
Total Hardness by 2340B, Dissolved	mg/L	0.35J	2.0	05/04/17 11:44	

LABORATORY CONTROL SAMPLE: 1500495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	500	506	101	80-120	
Iron, Dissolved	ug/L	5000	5460	109	80-120	
Manganese, Dissolved	ug/L	500	535	107	80-120	
Total Hardness by 2340B, Dissolved	mg/L		36.2			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500496 1500497

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40148955001 Result	Spike Conc.	Spike Conc.	Result						
Boron, Dissolved	ug/L	210	500	500	721	716	102	101	75-125	1	20
Iron, Dissolved	ug/L	<15.5	5000	5000	5470	5300	109	106	75-125	3	20
Manganese, Dissolved	ug/L	1.1J	500	500	542	526	108	105	75-125	3	20
Total Hardness by 2340B, Dissolved	mg/L	352000 ug/L			384	378				2	20

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

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

METHOD BLANK: 1497693

Matrix: Water

Associated Lab Samples: 40148921001, 40148921002, 40148921003, 40148921004, 40148921005, 40148921006, 40148921007, 40148921008, 40148921009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.50	1.0	04/28/17 06:41	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	04/28/17 06:41	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	04/28/17 06:41	
m&p-Xylene	ug/L	<1.0	2.0	04/28/17 06:41	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/28/17 06:41	
Methylene Chloride	ug/L	<0.23	1.0	04/28/17 06:41	
n-Butylbenzene	ug/L	<0.50	1.0	04/28/17 06:41	
n-Propylbenzene	ug/L	<0.50	1.0	04/28/17 06:41	
Naphthalene	ug/L	<2.5	5.0	04/28/17 06:41	
o-Xylene	ug/L	<0.50	1.0	04/28/17 06:41	
p-Isopropyltoluene	ug/L	<0.50	1.0	04/28/17 06:41	
sec-Butylbenzene	ug/L	<2.2	5.0	04/28/17 06:41	
Styrene	ug/L	<0.50	1.0	04/28/17 06:41	
tert-Butylbenzene	ug/L	<0.18	1.0	04/28/17 06:41	
Tetrachloroethene	ug/L	<0.50	1.0	04/28/17 06:41	
Tetrahydrofuran	ug/L	<2.0	5.0	04/28/17 06:41	
Toluene	ug/L	<0.50	1.0	04/28/17 06:41	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/28/17 06:41	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/28/17 06:41	
Trichloroethene	ug/L	<0.33	1.0	04/28/17 06:41	
Trichlorofluoromethane	ug/L	<0.18	1.0	04/28/17 06:41	
Vinyl chloride	ug/L	<0.18	1.0	04/28/17 06:41	
4-Bromofluorobenzene (S)	%	89	70-130	04/28/17 06:41	
Dibromofluoromethane (S)	%	99	70-130	04/28/17 06:41	
Toluene-d8 (S)	%	99	70-130	04/28/17 06:41	

LABORATORY CONTROL SAMPLE: 1497694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.5	105	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	46.7	93	67-130	
1,1,2-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethane	ug/L	50	47.2	94	70-133	
1,1-Dichloroethene	ug/L	50	48.2	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.8	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.0	92	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	70-130	
1,2-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dichloroethane	ug/L	50	47.8	96	70-130	
1,2-Dichloropropane	ug/L	50	50.3	101	70-130	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	49.7	99	70-130	
Benzene	ug/L	50	52.9	106	60-135	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40148921

LABORATORY CONTROL SAMPLE: 1497694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	50.1	100	70-130	
Bromoform	ug/L	50	48.4	97	70-130	
Bromomethane	ug/L	50	40.5	81	33-130	
Carbon tetrachloride	ug/L	50	51.6	103	70-138	
Chlorobenzene	ug/L	50	50.8	102	70-130	
Chloroethane	ug/L	50	39.3	79	51-130	
Chloroform	ug/L	50	51.0	102	70-130	
Chloromethane	ug/L	50	47.0	94	25-132	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	69-130	
cis-1,3-Dichloropropene	ug/L	50	51.7	103	70-130	
Dibromochloromethane	ug/L	50	50.5	101	70-130	
Dichlorodifluoromethane	ug/L	50	48.2	96	23-130	
Ethylbenzene	ug/L	50	56.3	113	70-136	
Isopropylbenzene (Cumene)	ug/L	50	57.8	116	70-140	
m&p-Xylene	ug/L	100	114	114	70-138	
Methyl-tert-butyl ether	ug/L	50	48.2	96	66-138	
Methylene Chloride	ug/L	50	45.6	91	70-130	
o-Xylene	ug/L	50	55.6	111	70-134	
Styrene	ug/L	50	52.2	104	70-133	
Tetrachloroethene	ug/L	50	52.4	105	70-138	
Toluene	ug/L	50	54.8	110	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.5	97	70-131	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	69-130	
Trichloroethene	ug/L	50	54.6	109	70-130	
Trichlorofluoromethane	ug/L	50	50.3	101	50-150	
Vinyl chloride	ug/L	50	51.2	102	49-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497890 1497891

Parameter	Units	40148921002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.5	51.7	103	103	70-134	0	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	46.8	46.8	94	94	67-130	0	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	47.8	47.3	96	95	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	46.8	46.6	94	93	70-134	0	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	48.5	49.1	97	98	68-136	1	20		
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	51.0	52.2	102	104	62-139	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	47.1	48.6	94	97	50-150	3	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.0	50.2	104	100	70-130	4	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	48.1	49.1	96	98	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	46.9	46.9	94	94	70-130	0	20		

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Parameter	Units	40148921002		1497890		1497891		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
1,2-Dichloropropane	ug/L	<0.23	50	50	49.5	49.7	99	99	70-130	0	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	50.7	50.5	101	101	70-131	0	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	47.4	50.8	95	102	70-130	7	20		
Benzene	ug/L	0.70J	50	50	53.3	53.3	105	105	57-138	0	20		
Bromodichloromethane	ug/L	<0.50	50	50	49.2	49.6	98	99	70-130	1	20		
Bromoform	ug/L	<0.50	50	50	49.0	48.2	98	96	70-130	2	20		
Bromomethane	ug/L	<2.4	50	50	40.0	40.3	80	81	33-130	1	27		
Carbon tetrachloride	ug/L	<0.50	50	50	51.7	52.9	103	106	70-138	2	20		
Chlorobenzene	ug/L	<0.50	50	50	50.9	50.3	101	100	70-130	1	20		
Chloroethane	ug/L	<0.37	50	50	38.2	39.2	76	78	51-130	2	20		
Chloroform	ug/L	<2.5	50	50	50.5	50.4	101	101	70-130	0	20		
Chloromethane	ug/L	<0.50	50	50	46.0	46.9	92	94	25-132	2	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	49.1	49.0	98	98	61-140	0	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	52.4	50.6	105	101	70-130	3	20		
Dibromochloromethane	ug/L	<0.50	50	50	49.5	49.1	99	98	70-130	1	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	48.5	47.8	97	96	23-130	1	20		
Ethylbenzene	ug/L	<0.50	50	50	55.7	55.3	111	111	70-138	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	57.3	57.0	115	114	70-152	1	20		
m&p-Xylene	ug/L	<1.0	100	100	113	113	113	112	70-140	1	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	48.1	47.9	96	96	66-139	1	20		
Methylene Chloride	ug/L	<0.23	50	50	45.4	45.3	91	91	70-130	0	20		
o-Xylene	ug/L	<0.50	50	50	56.7	55.7	113	111	70-134	2	20		
Styrene	ug/L	<0.50	50	50	51.9	51.3	104	103	70-138	1	20		
Tetrachloroethene	ug/L	<0.50	50	50	52.0	51.8	104	104	70-148	0	20		
Toluene	ug/L	<0.50	50	50	53.9	53.2	108	106	70-130	1	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	47.8	48.5	96	97	70-133	2	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	47.4	46.9	95	94	69-130	1	20		
Trichloroethene	ug/L	<0.33	50	50	53.6	53.8	107	108	70-131	0	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	49.9	50.3	100	101	50-150	1	20		
Vinyl chloride	ug/L	0.54J	50	50	50.9	50.9	101	101	49-133	0	20		
4-Bromofluorobenzene (S)	%						99	98	70-130				
Dibromofluoromethane (S)	%						99	99	70-130				
Toluene-d8 (S)	%						98	96	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40148921

QC Batch: 254397 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40148921001, 40148921002, 40148921003, 40148921004, 40148921005

METHOD BLANK: 1500088 Matrix: Water
Associated Lab Samples: 40148921001, 40148921002, 40148921003, 40148921004, 40148921005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	05/05/17 13:20	

LABORATORY CONTROL SAMPLE: 1500089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500090 1500091

Parameter	Units	40148836001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	40.8	100	100	140	146	100	106	90-110	4	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500092 1500093

Parameter	Units	40148921005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	24.6	20	20	44.8	44.8	101	101	90-110	0	15	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40148921

QC Batch: 254589 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40148921006, 40148921007, 40148921008, 40148921009

METHOD BLANK: 1500971 Matrix: Water
Associated Lab Samples: 40148921006, 40148921007, 40148921008, 40148921009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	05/05/17 20:05	

LABORATORY CONTROL SAMPLE: 1500972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.4	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500973 1500974

Parameter	Units	40148921006 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	38.6	100	100	148	148	109	109	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500975 1500976

Parameter	Units	40148977001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	484	400	400	874	862	98	95	90-110	1	15	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

QC Batch:	254503	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity
Associated Lab Samples:	40148921001, 40148921002, 40148921003, 40148921004, 40148921005, 40148921006, 40148921007, 40148921008, 40148921009		

METHOD BLANK:	1500569	Matrix:	Water
Associated Lab Samples:	40148921001, 40148921002, 40148921003, 40148921004, 40148921005, 40148921006, 40148921007, 40148921008, 40148921009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	12.8J	23.5	05/03/17 12:42	

LABORATORY CONTROL SAMPLE: 1500570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	103	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500571 1500572

Parameter	Units	40148921009 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	227	200	200	430	437	102	105	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500588 1500589

Parameter	Units	40149258003 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	893	500	500	1420	1410	106	103	90-110	1	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

QC Batch: 254787	Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1	Analysis Description: 350.1 Ammonia
Associated Lab Samples: 40148921008	

METHOD BLANK: 1502273 Matrix: Water
Associated Lab Samples: 40148921008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.25	0.50	05/05/17 17:37	

LABORATORY CONTROL SAMPLE: 1502274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1502275 1502276

Parameter	Units	1502275		1502276		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40148836001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, Ammonia	mg/L	<0.25	10	10	9.6	9.7	96	97	90-110	1	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF
Pace Project No.: 40148921

QC Batch: 254423 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 40148921008

METHOD BLANK: 1500190 Matrix: Water
Associated Lab Samples: 40148921008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.22	0.73	05/02/17 17:46	

LABORATORY CONTROL SAMPLE: 1500191

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500192 1500193

Parameter	Units	40148931001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Nitrogen, Kjeldahl, Total	mg/L	43.9	20	20	64.0	64.9	101	105	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500194 1500195

Parameter	Units	50169605001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Nitrogen, Kjeldahl, Total	mg/L	127	20	20	154	150	134	116	90-110	2	20	P6

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QUALIFIERS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40148921

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40148921001	MW-20A	EPA 6010	254483		
40148921002	MW-20B	EPA 6010	254483		
40148921003	MW-20C	EPA 6010	254483		
40148921004	MW-20C DUP	EPA 6010	254483		
40148921005	MW-16A	EPA 6010	254483		
40148921006	MW-16B	EPA 6010	254483		
40148921007	MW-16C	EPA 6010	254483		
40148921008	MW-2A	EPA 6010	254483		
40148921009	MW-2B	EPA 6010	254483		
40148921001	MW-20A	EPA 8260	253959		
40148921002	MW-20B	EPA 8260	253959		
40148921003	MW-20C	EPA 8260	253959		
40148921004	MW-20C DUP	EPA 8260	253959		
40148921005	MW-16A	EPA 8260	253959		
40148921006	MW-16B	EPA 8260	253959		
40148921007	MW-16C	EPA 8260	253959		
40148921008	MW-2A	EPA 8260	253959		
40148921009	MW-2B	EPA 8260	253959		
40148921001	MW-20A				
40148921002	MW-20B				
40148921003	MW-20C				
40148921004	MW-20C DUP				
40148921005	MW-16A				
40148921006	MW-16B				
40148921007	MW-16C				
40148921008	MW-2A				
40148921009	MW-2B				
40148921001	MW-20A	EPA 300.0	254397		
40148921002	MW-20B	EPA 300.0	254397		
40148921003	MW-20C	EPA 300.0	254397		
40148921004	MW-20C DUP	EPA 300.0	254397		
40148921005	MW-16A	EPA 300.0	254397		
40148921006	MW-16B	EPA 300.0	254589		
40148921007	MW-16C	EPA 300.0	254589		
40148921008	MW-2A	EPA 300.0	254589		
40148921009	MW-2B	EPA 300.0	254589		
40148921001	MW-20A	EPA 310.2	254503		
40148921002	MW-20B	EPA 310.2	254503		
40148921003	MW-20C	EPA 310.2	254503		
40148921004	MW-20C DUP	EPA 310.2	254503		
40148921005	MW-16A	EPA 310.2	254503		
40148921006	MW-16B	EPA 310.2	254503		
40148921007	MW-16C	EPA 310.2	254503		
40148921008	MW-2A	EPA 310.2	254503		
40148921009	MW-2B	EPA 310.2	254503		
40148921008	MW-2A	EPA 350.1	254787		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF
Pace Project No.: 40148921

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40148921008	MW-2A	EPA 351.2	254423	EPA 351.2	254476

REPORT OF LABORATORY ANALYSIS

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CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

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

Phone: (651) 639-0913 Fax: (651) 639-0923

COC NO.: **SP-02078**
PAGE 1 OF 1

(See Reverse Side for Instructions)

ALW
40148921

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Project No/ Phase/Task Code: <i>1115796</i>			Laboratory Name: <i>Pace</i>				Lab Location:				SSOW ID:												
Project Name: <i>Rhineland LF</i>			Lab Contact:				Lab Quote No:				Cooler No:												
Project Location: <i>Rhineland</i>			SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED <i>(See Back of COC for Definitions)</i>			Carrier:									
Chemistry Contact: <i>G. Andersen</i>			Matrix Code (see back of COC) Grab (G) or Comp (C)				Unpreserved Hydrochloric Acid (HCl) Nitric Acid (HNO ₃) Sulfuric Acid (H ₂ SO ₄) Sodium Hydroxide (NaOH) Methanol/Water (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample <i>Alk: Chloride</i> <i>Hardness</i> <i>Iron: Mn</i> <i>Boron</i> <i>VOCs + Tetra</i> <i>hydrocar</i> <i>Ammonia + TAN</i>				Airbill No:								
Sampler(s): <i>R Arnot</i>															Date Shipped:								
SAMPLER IDENTIFICATION <small>(Containers for each sample may be combined on one line)</small>			DATE <small>(mm/dd/yy)</small>		TIME <small>(hh:mm)</small>		COMMENTS/SPECIAL INSTRUCTIONS:																
1	<i>Mw-20 A</i>		<i>001</i>	<i>4/24/17</i>	<i>1600</i>	<i>46</i>	<i>6</i>	<i>1</i>	<i>3</i>	<i>1</i>													<i>#metals were 3-40ml</i>
2	<i>Mw-20 B</i>		<i>002</i>		<i>1540</i>			<i>1</i>	<i>3</i>	<i>1</i>													<i>field filtered</i>
3	<i>Mw-20 C</i>		<i>003</i>		<i>1550</i>			<i>1</i>	<i>3</i>	<i>1</i>													
4	<i>Mw-20 C Duplicate</i>		<i>004</i>		<i>1550</i>			<i>1</i>	<i>3</i>	<i>1</i>													
5	<i>Mw-16 A</i>		<i>005</i>		<i>1640</i>			<i>1</i>	<i>3</i>	<i>1</i>													
6	<i>Mw-16 B</i>		<i>006</i>		<i>1625</i>			<i>1</i>	<i>3</i>	<i>1</i>													
7	<i>Mw-16 C</i>		<i>007</i>		<i>1630</i>			<i>1</i>	<i>3</i>	<i>1</i>													
8	<i>Mw-2 A</i>		<i>008</i>	<i>4/25/17</i>	<i>830</i>			<i>1</i>	<i>3</i>	<i>1</i>													
9	<i>Mw-2 B</i>		<i>009</i>	<i>4/25/17</i>	<i>850</i>			<i>1</i>	<i>3</i>	<i>1</i>													
10																							
11	<i>trip blank</i>																						
12																							
13																							
14																							
15																							
TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> 2 Week <input type="checkbox"/> Other:							Total Number of Containers: <i>47</i>		Notes/ Special Requirements:														
							All Samples in Cooler must be on COC																
RELINQUISHED BY			COMPANY		DATE		TIME		RECEIVED BY			COMPANY		DATE		TIME							
<i>[Signature]</i>			<i>GHD</i>		<i>4/25/17</i>		<i>1600</i>		<i>[Signature]</i>			<i>Pace</i>		<i>4/26/17</i>		<i>0930</i>							
<i>[Signature]</i>					<i>4/26/17</i>		<i>0930</i>		<i>[Signature]</i>			<i>Pace</i>		<i>4/26/17</i>		<i>0930</i>							

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

Sample Condition Upon Receipt

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



Project # **WO# : 40148921**

Client Name: CIRA



Courier: Fed Ex UPS Client Pace Other: _____

Tracking #: 7789 8958 6575

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 SR69 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 / Corr: 0 Biological Tissue is Frozen: Yes No

Temp Blank Present: Yes No No

Person examining contents:
Date: 4/26/17
Initials: RL

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. original copy	<u>4/26/17 RL</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. no volume received for Trip blank	<u>4/26/17 RL</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. no collect times	<u>4/26/17 RL</u>
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	<input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 <2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed	Lab Std #ID of preservative
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. 008 2 vials	<u>4/26/17 RL</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rmw for DM Date: 4/26/17

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