



November 21, 2016

Reference No. 11115796

Mr. John Sager
Wisconsin Department of Natural Resources
1701 N. 4th Street
Superior, WI 54880

Dear Mr. Sager:

**Re: Groundwater Monitoring, October 2016
Rhineland Landfill (#00686)**

On behalf of the Rhineland Landfill Group (RLG), GHD Services, Inc. (GHD) is submitting the semi-annual sampling results for the October 2016 sampling event for the Rhineland Landfill in Rhineland, Wisconsin.

The October 2016 sampling event was conducted on October 3rd and 4th. Sampling activities were conducted according to the specifications agreed upon in the Groundwater Monitoring Plan sent by the Wisconsin Department of Natural Resources (WDNR) in a letter to the City of Rhineland dated April 29, 2016.

A total of 20 monitoring wells (2A, 2B, 3A, 4A, 5A, 16A, 16B, 16C, 18A, 18B, 18C, 20A, 20B, 20C, 21A, 25B, 26B, 26C, 27B, and 28A) were sampled as a part of the sampling event. An additional three monitoring wells (19B, 19C, and 28B) were purged in order to collect field parameters only. 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 exceedences 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 next scheduled sampling event is currently scheduled for April 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". The signature is fluid and cursive, with a long horizontal stroke at the end.

Ryan Aamot

Encl.

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

Attachment A
WDNR Form 4400 231
(Environmental Monitoring Data Certification)

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
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
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 E-mail address:

Name: Dan Milewsky/Pace Analytical Phone: (920) 412-8566

E-mail: Dan.Milewsky@pacelabs.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
Former City of Rhineland Ladfill	00686		October 3 - 4, 2016

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

October 2016

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.

Ryan Aamot

Project Manager

(651) 639-0913

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature 

Date 11/23/16

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 DNR Exceedences Summary

Smp Date	SPN	PCN	RV	Units	Type	Location	Lab Number	Sample ID	MSI	Parameter	PAL	ES
10/4/2016	007	34030	29.2	ug/L	ES		139519022	MW-2A	01	Benzene	0.5	5
10/4/2016	007	34030	27.4	ug/L	ES		139519023	MW-2A	02	Benzene	0.5	5
10/4/2016	007	01020	2120	ug/L	ES		139519022	MW-2A	01	Boron, Dissolved	200	1000
10/4/2016	007	01020	2050	ug/L	ES		139519023	MW-2A	02	Boron, Dissolved	200	1000
10/4/2016	007	01046	60600	ug/L	ES		139519022	MW-2A	01	Iron, Dissolved	150	300
10/4/2016	007	01046	57300	ug/L	ES		139519023	MW-2A	02	Iron, Dissolved	150	300
10/4/2016	007	01056	716	ug/L	ES		139519022	MW-2A	01	Manganese, Dissolved	25	50
10/4/2016	007	01056	641	ug/L	ES		139519023	MW-2A	02	Manganese, Dissolved	25	50
10/4/2016	007	00610	277	mg/L	ES		139519023	MW-2A	02	Nitrogen, Ammonia	0.97	9.7
10/4/2016	007	00610	271	mg/L	ES		139519022	MW-2A	01	Nitrogen, Ammonia	0.97	9.7
10/4/2016	007	81607	239	ug/L	ES		139519022	MW-2A	01	Tetrahydrofuran	10	50
10/4/2016	007	81607	217	ug/L	ES		139519023	MW-2A	02	Tetrahydrofuran	10	50
10/4/2016	009	34030	J 0.52	ug/L	PAL		139519024	MW-2B	01	Benzene	0.5	5
10/4/2016	009	01046	20000	ug/L	ES		139519024	MW-2B	01	Iron, Dissolved	150	300
10/4/2016	009	01056	1210	ug/L	ES		139519024	MW-2B	01	Manganese, Dissolved	25	50
10/4/2016	009	81607	14.5	ug/L	PAL		139519024	MW-2B	01	Tetrahydrofuran	10	50
10/4/2016	013	34030	2.1	ug/L	PAL		139519021	MW-3A	01	Benzene	0.5	5
10/4/2016	013	01046	53300	ug/L	ES		139519021	MW-3A	01	Iron, Dissolved	150	300
10/4/2016	013	01056	4690	ug/L	ES		139519021	MW-3A	01	Manganese, Dissolved	25	50
10/4/2016	013	00610	102	mg/L	ES		139519021	MW-3A	01	Nitrogen, Ammonia	0.97	9.7
10/4/2016	013	81607	177	ug/L	ES		139519021	MW-3A	01	Tetrahydrofuran	10	50
10/4/2016	013	39175	J 0.22	ug/L	ES		139519021	MW-3A	01	Vinyl chloride	0.02	0.2
10/3/2016	023	00940	134	mg/L	PAL		139519015	MW-5A	01	Chloride	125	250

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

MSI: 01-Sample; 02-Sample Duplicate; 03-SampleTriplictate; 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
10/3/2016	023	01056	87.9	ug/L	ES		139519015	MW-5A	01	Manganese, Dissolved	25	50
10/3/2016	069	34030	1.3	ug/L	PAL		139519008	MW-16A	01	Benzene	0.5	5
10/3/2016	069	01046	1550	ug/L	ES		139519008	MW-16A	01	Iron, Dissolved	150	300
10/3/2016	069	01056	4610	ug/L	ES		139519008	MW-16A	01	Manganese, Dissolved	25	50
10/3/2016	069	39175	2	ug/L	ES		139519008	MW-16A	01	Vinyl chloride	0.02	0.2
10/3/2016	071	34030	1.5	ug/L	PAL		139519005	MW-16B	01	Benzene	0.5	5
10/3/2016	071	34030	1.4	ug/L	PAL		139519006	MW-16B	02	Benzene	0.5	5
10/3/2016	071	01046	35400	ug/L	ES		139519006	MW-16B	02	Iron, Dissolved	150	300
10/3/2016	071	01046	35500	ug/L	ES		139519005	MW-16B	01	Iron, Dissolved	150	300
10/3/2016	071	01056	3510	ug/L	ES		139519006	MW-16B	02	Manganese, Dissolved	25	50
10/3/2016	071	01056	3400	ug/L	ES		139519005	MW-16B	01	Manganese, Dissolved	25	50
10/3/2016	071	39175	J 0.57	ug/L	ES		139519005	MW-16B	01	Vinyl chloride	0.02	0.2
10/3/2016	071	39175	J 0.56	ug/L	ES		139519006	MW-16B	02	Vinyl chloride	0.02	0.2
10/3/2016	073	34030	1.6	ug/L	PAL		139519009	MW-16C	01	Benzene	0.5	5
10/3/2016	073	01046	24800	ug/L	ES		139519009	MW-16C	01	Iron, Dissolved	150	300
10/3/2016	073	01056	1910	ug/L	ES		139519009	MW-16C	01	Manganese, Dissolved	25	50
10/3/2016	073	81607	18.2	ug/L	PAL		139519009	MW-16C	01	Tetrahydrofuran	10	50
10/3/2016	073	39175	J 0.34	ug/L	ES		139519009	MW-16C	01	Vinyl chloride	0.02	0.2
10/3/2016	081	01046	2290	ug/L	ES		139519012	MW-18A	01	Iron, Dissolved	150	300
10/3/2016	081	01056	1100	ug/L	ES		139519012	MW-18A	01	Manganese, Dissolved	25	50
10/3/2016	081	39180	J 0.94	ug/L	PAL		139519012	MW-18A	01	Trichloroethene	0.5	5
10/3/2016	081	39175	J 0.27	ug/L	ES		139519012	MW-18A	01	Vinyl chloride	0.02	0.2
10/3/2016	083	00940	137	mg/L	PAL		139519013	MW-18B	01	Chloride	125	250

Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-EnforcementStandard Within DMZ; ACL-Alternative Concentration Limit.
 MSI: 01-Sample; 02-Sample Duplicate; 03-SampleTripligate; 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
10/3/2016	083	01056	1640	ug/L	ES		139519013	MW-18B	01	Manganese, Dissolved	25	50
10/3/2016	083	34475	J 0.86	ug/L	PAL		139519013	MW-18B	01	Tetrachloroethene	0.5	5
10/3/2016	083	39180	22.1	ug/L	ES		139519013	MW-18B	01	Trichloroethene	0.5	5
10/3/2016	085	00940	161	mg/L	PAL		139519014	MW-18C	01	Chloride	125	250
10/3/2016	085	01056	1140	ug/L	ES		139519014	MW-18C	01	Manganese, Dissolved	25	50
10/3/2016	085	34475	J 0.61	ug/L	PAL		139519014	MW-18C	01	Tetrachloroethene	0.5	5
10/3/2016	085	39180	5.2	ug/L	ES		139519014	MW-18C	01	Trichloroethene	0.5	5
10/3/2016	085	39175	J 0.23	ug/L	ES		139519014	MW-18C	01	Vinyl chloride	0.02	0.2
10/3/2016	093	34030	3.1	ug/L	PAL		139519002	MW-20A	01	Benzene	0.5	5
10/3/2016	093	01020	812	ug/L	PAL		139519002	MW-20A	01	Boron, Dissolved	200	1000
10/3/2016	093	01046	102000	ug/L	ES		139519002	MW-20A	01	Iron, Dissolved	150	300
10/3/2016	093	01056	1040	ug/L	ES		139519002	MW-20A	01	Manganese, Dissolved	25	50
10/3/2016	093	34696	21	ug/L	PAL		139519002	MW-20A	01	Naphthalene	10	100
10/3/2016	093	81607	18.7	ug/L	PAL		139519002	MW-20A	01	Tetrahydrofuran	10	50
10/3/2016	095	34030	J 0.9	ug/L	PAL		139519004	MW-20B	01	Benzene	0.5	5
10/3/2016	095	01046	17300	ug/L	ES		139519004	MW-20B	01	Iron, Dissolved	150	300
10/3/2016	095	01056	1060	ug/L	ES		139519004	MW-20B	01	Manganese, Dissolved	25	50
10/3/2016	095	34696	11.9	ug/L	PAL		139519004	MW-20B	01	Naphthalene	10	100
10/3/2016	095	81607	14.5	ug/L	PAL		139519004	MW-20B	01	Tetrahydrofuran	10	50
10/3/2016	095	39175	J 0.69	ug/L	ES		139519004	MW-20B	01	Vinyl chloride	0.02	0.2
10/3/2016	097	34030	1.3	ug/L	PAL		139519001	MW-20C	01	Benzene	0.5	5
10/3/2016	097	01046	20800	ug/L	ES		139519001	MW-20C	01	Iron, Dissolved	150	300
10/3/2016	097	01056	1360	ug/L	ES		139519001	MW-20C	01	Manganese, Dissolved	25	50

Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-EnforcementStandard Within DMZ; ACL-Alternative Concentration Limit.
 MSI: 01-Sample; 02-Sample Duplicate; 03-SampleTripligate; 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
10/3/2016	097	81607	12.2	ug/L	PAL		139519001	MW-20C	01	Tetrahydrofuran	10	50
10/3/2016	097	39175	1.2	ug/L	ES		139519001	MW-20C	01	Vinyl chloride	0.02	0.2
10/4/2016	099	34030	4.6	ug/L	PAL		139519020	MW-21A	01	Benzene	0.5	5
10/4/2016	099	01020	1230	ug/L	ES		139519020	MW-21A	01	Boron, Dissolved	200	1000
10/4/2016	099	01046	57900	ug/L	ES		139519020	MW-21A	01	Iron, Dissolved	150	300
10/4/2016	099	01056	1280	ug/L	ES		139519020	MW-21A	01	Manganese, Dissolved	25	50
10/4/2016	099	00610	265	mg/L	ES		139519020	MW-21A	01	Nitrogen, Ammonia	0.97	9.7
10/4/2016	099	81607	285	ug/L	ES		139519020	MW-21A	01	Tetrahydrofuran	10	50
10/4/2016	128	01046	21900	ug/L	ES		139519019	MW-25B	01	Iron, Dissolved	150	300
10/4/2016	128	01056	594	ug/L	ES		139519019	MW-25B	01	Manganese, Dissolved	25	50
10/4/2016	128	39175	J 0.83	ug/L	ES		139519019	MW-25B	01	Vinyl chloride	0.02	0.2
10/3/2016	129	01056	100	ug/L	ES		139519011	MW-26B	01	Manganese, Dissolved	25	50
10/4/2016	130	01056	155	ug/L	ES		139519017	MW-27B	01	Manganese, Dissolved	25	50
10/3/2016	133	34030	J 0.96	ug/L	PAL		139519010	MW-26C	01	Benzene	0.5	5
10/3/2016	133	01046	1040	ug/L	ES		139519010	MW-26C	01	Iron, Dissolved	150	300
10/3/2016	133	01056	2720	ug/L	ES		139519010	MW-26C	01	Manganese, Dissolved	25	50
10/3/2016	133	39175	4.6	ug/L	ES		139519010	MW-26C	01	Vinyl chloride	0.02	0.2
10/4/2016	136	01046	7420	ug/L	ES		139519018	MW-28A	01	Iron, Dissolved	150	300
10/4/2016	136	01056	2220	ug/L	ES		139519018	MW-28A	01	Manganese, Dissolved	25	50
10/4/2016	136	81607	11.3	ug/L	PAL		139519018	MW-28A	01	Tetrahydrofuran	10	50

Exceedance type: PAL-Preventive Action Limit; ES-Enforcement Standard; *-EnforcementStandard Within DMZ; ACL-Alternative Concentration Limit.
 MSI: 01-Sample; 02-Sample Duplicate; 03-SampleTriplictate; 09-Non-field Lab Replicate
 < qualifier indicates reported value (RV) was not detected at or above the MDL.

Attachment C Laboratory Report

November 16, 2016

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

RE: Project: RHINELANDER FIELD DATA
Pace Project No.: 40142096

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2016. 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
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: RHINELANDER FIELD DATA

Pace Project No.: 40142096

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: RHINELANDER FIELD DATA

Pace Project No.: 40142096

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40142096001	MW-19B	Water	10/04/16 11:50	11/16/16 10:19
40142096002	MW-19A	Water	10/04/16 11:35	11/16/16 10:19
40142096003	MW-28B	Water	10/04/16 08:15	11/16/16 10:19

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RHINELANDER FIELD DATA

Pace Project No.: 40142096

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40142096001	MW-19B		AMH	6
40142096002	MW-19A		AMH	6
40142096003	MW-28B		AMH	6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RHINELANDER FIELD DATA

Pace Project No.: 40142096

Sample: MW-19B **Lab ID: 40142096001** Collected: 10/04/16 11:50 Received: 11/16/16 10:19 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	7.31	Std. Units			1		10/16/16 11:50		
Field Specific Conductance	271	umhos/cm			1		10/16/16 11:50		
Oxygen, Dissolved	6.55	mg/L			1		10/16/16 11:50	7782-44-7	
REDOX	-93	mV			1		10/16/16 11:50		
Depth to Groundwater	6.97	feet			1		10/16/16 11:50		
Temperature, Water (C)	14.78	deg C			1		10/16/16 11:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RHINELANDER FIELD DATA

Pace Project No.: 40142096

Sample: MW-19A **Lab ID: 40142096002** Collected: 10/04/16 11:35 Received: 11/16/16 10:19 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	7.02	Std. Units			1		10/16/16 11:35		
Field Specific Conductance	290	umhos/cm			1		10/16/16 11:35		
Oxygen, Dissolved	1.41	mg/L			1		10/16/16 11:35	7782-44-7	
REDOX	-90	mV			1		10/16/16 11:35		
Depth to Groundwater	7.70	feet			1		10/16/16 11:35		
Temperature, Water (C)	14.22	deg C			1		10/16/16 11:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RHINELANDER FIELD DATA

Pace Project No.: 40142096

Sample: MW-28B **Lab ID: 40142096003** Collected: 10/04/16 08:15 Received: 11/16/16 10:19 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	8.19	Std. Units			1		10/16/16 08:15		
Field Specific Conductance	234	umhos/cm			1		10/16/16 08:15		
Oxygen, Dissolved	1.4	mg/L			1		10/16/16 08:15	7782-44-7	
REDOX	-73	mV			1		10/16/16 08:15		
Depth to Groundwater	2.85	feet			1		10/16/16 08:15		
Temperature, Water (C)	11.37	deg C			1		10/16/16 08:15		

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: RHINELANDER FIELD DATA

Pace Project No.: 40142096

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RHINELANDER FIELD DATA

Pace Project No.: 40142096

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40142096001	MW-19B				
40142096002	MW-19A				
40142096003	MW-28B				

REPORT OF LABORATORY ANALYSIS

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From: "Aamot, Ryan" <Ryan.Aamot@ghd.com>
To: "Dan Milewsky (Dan.Milewsky@pacelabs.com)" <Dan.Milewsky@pacelabs.com>
Date: 11/7/2016 2:36 PM
Subject: Rhinelander Landfill - Field Data
Attachments: Lab Report-40139519-11115796-2016-10-22.pdf; Purge Data.xls

Dan,

Is it possible for you to add some field data to your lab report? We purged three wells but are not required to sample them, the DNR only wants us to report the field data. Attached is the field data for the three wells along with the lab report. Let me know what you think.

Thanks,
Ryan

Ryan Aamot PG

GHD
O: +1 651 639 0913 | D: +1 612 524 6855 | V: 862255 | E: ryan.aamot@ghd.com
1801 Old Highway 8 NW Suite 114 St. Paul MN 55112 USA | www.ghd.com <<http://www.ghd.com/>>

Professional Geologist: Minnesota and Wisconsin
WATER<<http://www.ghd.com/sectors/water/>> | ENERGY & RESOURCES<<http://www.ghd.com/global/sectors/energy--resources/>> |
ENVIRONMENT<<http://www.ghd.com/sectors/environment/>> | PROPERTY &
BUILDINGS<<http://www.ghd.com/global/sectors/property--buildings/>> |
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Table 2
Purging Summary
Oct-16
Rhinelanders Landfill

Location	Time	pH	Temp. (C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Salinity	Water Level (ft)
19B	11:50	7.31	14.78	271	6.55	2	-93	0.13	6.97
19A	11:35	7.02	14.22	290	1.41	14.0	-90	0.14	7.70
28B	8:15	8.19	11.37	234	1.4	2.1	-73	0.11	2.85

Table 2
Purging Summary
Oct-16
Rhinelanders Landfill

Location	Time	pH	Temp. (C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Salinity	Water Level (ft)
-----------------	-------------	-----------	------------------	----------------------------------	--------------------------------	------------------------	-----------------	-----------------	-------------------------

October 22, 2016

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

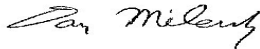
RE: Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2016. 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
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40139519001	MW-20C	Water	10/03/16 13:20	10/05/16 07:30
40139519002	MW-20A	Water	10/03/16 13:25	10/05/16 07:30
40139519003	FIELD BLANK (EQUIP)	Water	10/03/16 13:40	10/05/16 07:30
40139519004	MW-20B	Water	10/03/16 13:40	10/05/16 07:30
40139519005	MW-16B	Water	10/03/16 14:16	10/05/16 07:30
40139519006	MW-16B DUP	Water	10/03/16 14:16	10/05/16 07:30
40139519007	FIELD BLANK	Water	10/03/16 14:20	10/05/16 07:30
40139519008	MW-16A	Water	10/03/16 14:20	10/05/16 07:30
40139519009	MW-16C	Water	10/03/16 14:45	10/05/16 07:30
40139519010	MW-26C	Water	10/03/16 15:10	10/05/16 07:30
40139519011	MW-26B	Water	10/03/16 15:25	10/05/16 07:30
40139519012	MW-18A	Water	10/03/16 15:55	10/05/16 07:30
40139519013	MW-18B	Water	10/03/16 16:15	10/05/16 07:30
40139519014	MW-18C	Water	10/03/16 15:58	10/05/16 07:30
40139519015	MW-5A	Water	10/03/16 16:50	10/05/16 07:30
40139519016	MW-4A	Water	10/03/16 17:15	10/05/16 07:30
40139519017	MW-27B	Water	10/04/16 08:10	10/05/16 07:30
40139519018	MW-28A	Water	10/04/16 08:30	10/05/16 07:30
40139519019	MW-25B	Water	10/04/16 09:08	10/05/16 07:30
40139519020	MW-21A	Water	10/04/16 10:00	10/05/16 07:30
40139519021	MW-3A	Water	10/04/16 10:20	10/05/16 07:30
40139519022	MW-2A	Water	10/04/16 10:45	10/05/16 07:30
40139519023	MW-2A DUP	Water	10/04/16 10:45	10/05/16 07:30
40139519024	MW-2B	Water	10/04/16 11:15	10/05/16 07:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40139519001	MW-20C	EPA 6010	DLB	3
		EPA 8260	SMT	65
			AMH	7
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
40139519002	MW-20A	EPA 6010	DLB	4
		EPA 8260	SMT	65
			AMH	7
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
40139519003	FIELD BLANK (EQUIP)	EPA 6010	DLB	3
		EPA 8260	SMT	65
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
40139519004	MW-20B	EPA 6010	DLB	3
		EPA 8260	SMT	65
			AMH	7
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
40139519005	MW-16B	EPA 6010	DLB	3
		EPA 8260	SMT	65
			AMH	7
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
40139519006	MW-16B DUP	EPA 6010	DLB	3
		EPA 8260	SMT	65
			AMH	7
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
40139519007	FIELD BLANK	EPA 6010	DLB	3
		EPA 8260	SMT	65
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
40139519008	MW-16A	EPA 6010	DLB	3
		EPA 8260	SMT	65
			AMH	7
		EPA 300.0	JMN	1

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40139519009	MW-16C	EPA 310.2	DAW	1
		EPA 6010	DLB	3
		EPA 8260	SMT	65
			AMH	7
40139519010	MW-26C	EPA 300.0	JMN	1
		EPA 310.2	DAW	1
		EPA 6010	DLB	3
		EPA 8260	SMT	65
40139519011	MW-26B		AMH	7
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
		EPA 6010	DLB	3
40139519012	MW-18A	EPA 8260	SMT	65
			AMH	7
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
40139519013	MW-18B	EPA 6010	DLB	3
		EPA 8260	SMT	65
			AMH	7
		EPA 300.0	HMB	1
40139519014	MW-18C	EPA 310.2	DAW	1
		EPA 6010	DLB	4
		EPA 8260	SMT	65
			AMH	7
40139519015	MW-5A	EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	DLB	4
		EPA 8260	SMT	65
40139519016	MW-4A		AMH	7
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6010	DLB	4

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40139519017	MW-27B	EPA 8260	SMT	65
			AMH	7
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
		EPA 6010	DLB	3
		EPA 8260	SMT	65
40139519018	MW-28A		AMH	7
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
		EPA 6010	DLB	4
		EPA 8260	SMT	65
			AMH	7
40139519019	MW-25B	EPA 300.0	JMN	1
		EPA 310.2	DAW	1
		EPA 6010	DLB	4
		EPA 8260	SMT	65
			AMH	6
			JMN	1
40139519020	MW-21A	EPA 310.2	DAW	1
		EPA 6010	DLB	4
		EPA 8260	SMT	65
			AMH	6
		EPA 300.0	JMN	1
		EPA 310.2	DAW	1
40139519021	MW-3A	EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 6010	DLB	4
		EPA 8260	LAP	65
			AMH	6
		EPA 300.0	JMN	1
40139519022	MW-2A	EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 6010	DLB	4
		EPA 8260	LAP	65
			AMH	7
	JMN	1		

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SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40139519023	MW-2A DUP	EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 6010	DLB	4
		EPA 8260	LAP	65
			AMH	7
			EPA 300.0	JMN
40139519024	MW-2B	EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 6010	DLB	3
		EPA 8260	LAP	65
			AMH	7
			EPA 300.0	JMN
	EPA 310.2	DAW	1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-20C **Lab ID: 40139519001** Collected: 10/03/16 13:20 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	20800	ug/L	100	12.9	1		10/06/16 14:40	7439-89-6	
Manganese, Dissolved	1360	ug/L	5.0	1.4	1		10/06/16 14:40	7439-96-5	
Total Hardness by 2340B, Dissolved	173	mg/L	2.0	0.15	1		10/06/16 14:40		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.3	ug/L	1.0	0.50	1		10/11/16 11:28	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/11/16 11:28	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/11/16 11:28	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/11/16 11:28	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/11/16 11:28	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/11/16 11:28	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	56-23-5	
Chlorobenzene	0.83J	ug/L	1.0	0.50	1		10/11/16 11:28	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/11/16 11:28	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/11/16 11:28	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/11/16 11:28	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/11/16 11:28	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/11/16 11:28	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/11/16 11:28	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/11/16 11:28	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/11/16 11:28	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/11/16 11:28	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/11/16 11:28	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/11/16 11:28	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/11/16 11:28	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/11/16 11:28	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/11/16 11:28	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/11/16 11:28	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/11/16 11:28	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/11/16 11:28	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/11/16 11:28	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-20C **Lab ID: 40139519001** Collected: 10/03/16 13:20 Received: 10/05/16 07:30 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		10/11/16 11:28	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/11/16 11:28	1634-04-4	
Naphthalene	6.2	ug/L	5.0	2.5	1		10/11/16 11:28	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/11/16 11:28	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/11/16 11:28	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	127-18-4	
Tetrahydrofuran	12.2	ug/L	5.0	2.0	1		10/11/16 11:28	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/11/16 11:28	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/11/16 11:28	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/11/16 11:28	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/11/16 11:28	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/11/16 11:28	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	108-67-8	
Vinyl chloride	1.2	ug/L	1.0	0.18	1		10/11/16 11:28	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/11/16 11:28	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/11/16 11:28	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		10/11/16 11:28	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/11/16 11:28	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.74	Std. Units			1		10/03/16 13:20		
Field Specific Conductance	502	umhos/cm			1		10/03/16 13:20		
Oxygen, Dissolved	0.32	mg/L			1		10/03/16 13:20	7782-44-7	
REDOX	-119	mV			1		10/03/16 13:20		
Turbidity	0	NTU			1		10/03/16 13:20		
Depth to Groundwater	4.77	feet			1		10/03/16 13:20		
Temperature, Water (C)	8.7	deg C			1		10/03/16 13:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	39.3	mg/L	10.0	2.5	5		10/13/16 18:21	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	189	mg/L	23.5	7.0	1		10/10/16 12:52		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-20A **Lab ID: 40139519002** Collected: 10/03/16 13:25 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	812	ug/L	100	4.4	1		10/06/16 14:42	7440-42-8	
Iron, Dissolved	102000	ug/L	100	12.9	1		10/06/16 14:42	7439-89-6	
Manganese, Dissolved	1040	ug/L	5.0	1.4	1		10/06/16 14:42	7439-96-5	
Total Hardness by 2340B, Dissolved	238	mg/L	2.0	0.15	1		10/06/16 14:42		
8260 MSV		Analytical Method: EPA 8260							
Benzene	3.1	ug/L	1.0	0.50	1		10/11/16 11:49	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/11/16 11:49	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/11/16 11:49	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/11/16 11:49	74-83-9	
n-Butylbenzene	1.6	ug/L	1.0	0.50	1		10/11/16 11:49	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/11/16 11:49	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/11/16 11:49	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	56-23-5	
Chlorobenzene	8.4	ug/L	1.0	0.50	1		10/11/16 11:49	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/11/16 11:49	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/11/16 11:49	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/11/16 11:49	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/11/16 11:49	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/11/16 11:49	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/11/16 11:49	74-95-3	
1,2-Dichlorobenzene	1.0	ug/L	1.0	0.50	1		10/11/16 11:49	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	541-73-1	
1,4-Dichlorobenzene	2.4	ug/L	1.0	0.50	1		10/11/16 11:49	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/11/16 11:49	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/11/16 11:49	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/11/16 11:49	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/11/16 11:49	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/11/16 11:49	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/11/16 11:49	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/11/16 11:49	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/11/16 11:49	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/11/16 11:49	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/11/16 11:49	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/11/16 11:49	87-68-3	
Isopropylbenzene (Cumene)	4.4	ug/L	1.0	0.14	1		10/11/16 11:49	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-20A **Lab ID: 40139519002** Collected: 10/03/16 13:25 Received: 10/05/16 07:30 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		10/11/16 11:49	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/11/16 11:49	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/11/16 11:49	1634-04-4	
Naphthalene	21.0	ug/L	5.0	2.5	1		10/11/16 11:49	91-20-3	
n-Propylbenzene	3.6	ug/L	1.0	0.50	1		10/11/16 11:49	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/11/16 11:49	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/11/16 11:49	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	127-18-4	
Tetrahydrofuran	18.7	ug/L	5.0	2.0	1		10/11/16 11:49	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/11/16 11:49	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/11/16 11:49	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/11/16 11:49	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/11/16 11:49	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/11/16 11:49	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/11/16 11:49	96-18-4	
1,2,4-Trimethylbenzene	24.8	ug/L	1.0	0.50	1		10/11/16 11:49	95-63-6	
1,3,5-Trimethylbenzene	5.6	ug/L	1.0	0.50	1		10/11/16 11:49	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/11/16 11:49	75-01-4	
m&p-Xylene	72.0	ug/L	2.0	1.0	1		10/11/16 11:49	179601-23-1	
o-Xylene	2.2	ug/L	1.0	0.50	1		10/11/16 11:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/11/16 11:49	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		10/11/16 11:49	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/11/16 11:49	2037-26-5	
Field Data Analytical Method:									
Field pH	6.22	Std. Units			1		10/03/16 13:25		
Field Specific Conductance	609	umhos/cm			1		10/03/16 13:25		
Oxygen, Dissolved	0.81	mg/L			1		10/03/16 13:25	7782-44-7	
REDOX	-90	mV			1		10/03/16 13:25		
Turbidity	0	NTU			1		10/03/16 13:25		
Depth to Groundwater	4.54	feet			1		10/03/16 13:25		
Temperature, Water (C)	13.44	deg C			1		10/03/16 13:25		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	19.5J	mg/L	40.0	10.0	20		10/11/16 15:07	16887-00-6	D3
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	408	mg/L	117	35.2	5		10/10/16 13:22		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: FIELD BLANK (EQUIP) **Lab ID: 40139519003** Collected: 10/03/16 13:40 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<12.9	ug/L	100	12.9	1		10/06/16 15:49	7439-89-6	
Manganese, Dissolved	<1.4	ug/L	5.0	1.4	1		10/06/16 15:49	7439-96-5	
Total Hardness by 2340B, Dissolved	0.15J	mg/L	2.0	0.15	1		10/06/16 15:49		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 17:42	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 17:42	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 17:42	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 17:42	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 17:42	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 17:42	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 17:42	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 17:42	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 17:42	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 17:42	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 17:42	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/16 17:42	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/10/16 17:42	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 17:42	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 17:42	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 17:42	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 17:42	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/16 17:42	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 17:42	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 17:42	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 17:42	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 17:42	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 17:42	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

Sample: FIELD BLANK (EQUIP) **Lab ID: 40139519003** Collected: 10/03/16 13:40 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	0.47J	ug/L	1.0	0.23	1		10/10/16 17:42	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 17:42	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 17:42	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 17:42	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 17:42	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/16 17:42	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 17:42	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 17:42	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 17:42	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/16 17:42	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 17:42	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/10/16 17:42	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 17:42	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 17:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/10/16 17:42	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/10/16 17:42	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/10/16 17:42	2037-26-5	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	0.52J	mg/L	2.0	0.50	1		10/11/16 15:19	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	<7.0	mg/L	23.5	7.0	1		10/10/16 12:53		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-20B **Lab ID: 40139519004** Collected: 10/03/16 13:40 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	17300	ug/L	100	12.9	1		10/06/16 14:52	7439-89-6	
Manganese, Dissolved	1060	ug/L	5.0	1.4	1		10/06/16 14:52	7439-96-5	
Total Hardness by 2340B, Dissolved	156	mg/L	2.0	0.15	1		10/06/16 14:52		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.90J	ug/L	1.0	0.50	1		10/10/16 18:03	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 18:03	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 18:03	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 18:03	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 18:03	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 18:03	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 18:03	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 18:03	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 18:03	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 18:03	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 18:03	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 18:03	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/16 18:03	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/10/16 18:03	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 18:03	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 18:03	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 18:03	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 18:03	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/16 18:03	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 18:03	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 18:03	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 18:03	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 18:03	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 18:03	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-20B **Lab ID: 40139519004** Collected: 10/03/16 13:40 Received: 10/05/16 07:30 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		10/10/16 18:03	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 18:03	1634-04-4	
Naphthalene	11.9	ug/L	5.0	2.5	1		10/10/16 18:03	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 18:03	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 18:03	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	127-18-4	
Tetrahydrofuran	14.5	ug/L	5.0	2.0	1		10/10/16 18:03	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 18:03	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 18:03	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 18:03	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/16 18:03	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 18:03	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	108-67-8	
Vinyl chloride	0.69J	ug/L	1.0	0.18	1		10/10/16 18:03	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 18:03	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/10/16 18:03	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		10/10/16 18:03	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/10/16 18:03	2037-26-5	
Field Data Analytical Method:									
Field pH	6.88	Std. Units			1		10/03/16 13:40		
Field Specific Conductance	415	umhos/cm			1		10/03/16 13:40		
Oxygen, Dissolved	0.18	mg/L			1		10/03/16 13:40	7782-44-7	
REDOX	-121	mV			1		10/03/16 13:40		
Turbidity	0	NTU			1		10/03/16 13:40		
Depth to Groundwater	5.08	feet			1		10/03/16 13:40		
Temperature, Water (C)	8.57	deg C			1		10/03/16 13:40		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	44.2	mg/L	20.0	5.0	10		10/11/16 15:32	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	153	mg/L	23.5	7.0	1		10/10/16 12:53		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-16B **Lab ID: 40139519005** Collected: 10/03/16 14:16 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	35500	ug/L	100	12.9	1		10/06/16 14:54	7439-89-6	
Manganese, Dissolved	3400	ug/L	5.0	1.4	1		10/06/16 14:54	7439-96-5	
Total Hardness by 2340B, Dissolved	205	mg/L	2.0	0.15	1		10/06/16 14:54		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.5	ug/L	1.0	0.50	1		10/10/16 18:24	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 18:24	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 18:24	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 18:24	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 18:24	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 18:24	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	56-23-5	
Chlorobenzene	0.53J	ug/L	1.0	0.50	1		10/10/16 18:24	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 18:24	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 18:24	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 18:24	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 18:24	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 18:24	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 18:24	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/16 18:24	75-71-8	
1,1-Dichloroethane	0.28J	ug/L	1.0	0.24	1		10/10/16 18:24	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 18:24	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 18:24	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 18:24	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 18:24	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/16 18:24	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 18:24	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 18:24	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 18:24	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 18:24	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 18:24	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

Sample: MW-16B **Lab ID: 40139519005** Collected: 10/03/16 14:16 Received: 10/05/16 07:30 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		10/10/16 18:24	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 18:24	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 18:24	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 18:24	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 18:24	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	127-18-4	
Tetrahydrofuran	7.0	ug/L	5.0	2.0	1		10/10/16 18:24	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 18:24	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 18:24	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 18:24	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/16 18:24	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 18:24	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	108-67-8	
Vinyl chloride	0.57J	ug/L	1.0	0.18	1		10/10/16 18:24	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 18:24	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/10/16 18:24	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/10/16 18:24	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/10/16 18:24	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.02	Std. Units			1		10/03/16 14:16		
Field Specific Conductance	399	umhos/cm			1		10/03/16 14:16		
Oxygen, Dissolved	0.13	mg/L			1		10/03/16 14:16	7782-44-7	
REDOX	-160	mV			1		10/03/16 14:16		
Turbidity	0	NTU			1		10/03/16 14:16		
Depth to Groundwater	8.24	feet			1		10/03/16 14:16		
Temperature, Water (C)	8.31	deg C			1		10/03/16 14:16		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	34.9	mg/L	20.0	5.0	10		10/11/16 15:44	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	242	mg/L	23.5	7.0	1		10/10/16 12:54		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-16B DUP **Lab ID: 40139519006** Collected: 10/03/16 14:16 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	35400	ug/L	100	12.9	1		10/06/16 14:56	7439-89-6	
Manganese, Dissolved	3510	ug/L	5.0	1.4	1		10/06/16 14:56	7439-96-5	
Total Hardness by 2340B, Dissolved	207	mg/L	2.0	0.15	1		10/06/16 14:56		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.4	ug/L	1.0	0.50	1		10/10/16 18:45	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 18:45	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 18:45	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 18:45	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 18:45	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 18:45	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 18:45	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 18:45	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 18:45	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 18:45	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 18:45	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 18:45	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/16 18:45	75-71-8	
1,1-Dichloroethane	0.30J	ug/L	1.0	0.24	1		10/10/16 18:45	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 18:45	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 18:45	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 18:45	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 18:45	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/16 18:45	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 18:45	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 18:45	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 18:45	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 18:45	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 18:45	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-16B DUP **Lab ID: 40139519006** Collected: 10/03/16 14:16 Received: 10/05/16 07:30 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		10/10/16 18:45	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 18:45	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 18:45	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 18:45	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 18:45	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	127-18-4	
Tetrahydrofuran	6.9	ug/L	5.0	2.0	1		10/10/16 18:45	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 18:45	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 18:45	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 18:45	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/16 18:45	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 18:45	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	108-67-8	
Vinyl chloride	0.56J	ug/L	1.0	0.18	1		10/10/16 18:45	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 18:45	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 18:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/10/16 18:45	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/10/16 18:45	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/10/16 18:45	2037-26-5	
Field Data Analytical Method:									
Field pH	7.02	Std. Units			1		10/03/16 14:16		
Field Specific Conductance	399	umhos/cm			1		10/03/16 14:16		
Oxygen, Dissolved	0.13	mg/L			1		10/03/16 14:16	7782-44-7	
REDOX	-160	mV			1		10/03/16 14:16		
Turbidity	0	NTU			1		10/03/16 14:16		
Depth to Groundwater	8.24	feet			1		10/03/16 14:16		
Temperature, Water (C)	8.31	deg C			1		10/03/16 14:16		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	34.8	mg/L	20.0	5.0	10		10/11/16 15:57	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	238	mg/L	23.5	7.0	1		10/10/16 12:54		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: FIELD BLANK **Lab ID: 40139519007** Collected: 10/03/16 14:20 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<12.9	ug/L	100	12.9	1		10/06/16 14:59	7439-89-6	
Manganese, Dissolved	<1.4	ug/L	5.0	1.4	1		10/06/16 14:59	7439-96-5	
Total Hardness by 2340B, Dissolved	0.81J	mg/L	2.0	0.15	1		10/06/16 14:59		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 19:06	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 19:06	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 19:06	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 19:06	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 19:06	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 19:06	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 19:06	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 19:06	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 19:06	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 19:06	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 19:06	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/16 19:06	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/10/16 19:06	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 19:06	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 19:06	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 19:06	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 19:06	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/16 19:06	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 19:06	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 19:06	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 19:06	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 19:06	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 19:06	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: **FIELD BLANK** Lab ID: **40139519007** Collected: 10/03/16 14:20 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Methylene Chloride	0.39J	ug/L	1.0	0.23	1		10/10/16 19:06	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 19:06	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 19:06	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 19:06	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 19:06	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/16 19:06	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 19:06	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 19:06	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 19:06	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/16 19:06	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 19:06	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/10/16 19:06	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 19:06	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/10/16 19:06	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		10/10/16 19:06	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/10/16 19:06	2037-26-5	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	<0.50	mg/L	2.0	0.50	1		10/11/16 16:09	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	<7.0	mg/L	23.5	7.0	1		10/10/16 12:57		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-16A **Lab ID: 40139519008** Collected: 10/03/16 14:20 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	1550	ug/L	100	12.9	1		10/06/16 15:51	7439-89-6	
Manganese, Dissolved	4610	ug/L	5.0	1.4	1		10/06/16 15:51	7439-96-5	
Total Hardness by 2340B, Dissolved	209	mg/L	2.0	0.15	1		10/06/16 15:51		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.3	ug/L	1.0	0.50	1		10/10/16 19:27	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 19:27	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 19:27	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 19:27	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 19:27	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 19:27	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 19:27	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 19:27	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 19:27	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 19:27	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 19:27	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 19:27	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/16 19:27	75-71-8	
1,1-Dichloroethane	0.41J	ug/L	1.0	0.24	1		10/10/16 19:27	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 19:27	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 19:27	75-35-4	
cis-1,2-Dichloroethene	0.27J	ug/L	1.0	0.26	1		10/10/16 19:27	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 19:27	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/16 19:27	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 19:27	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 19:27	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 19:27	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 19:27	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 19:27	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-16A **Lab ID: 40139519008** Collected: 10/03/16 14:20 Received: 10/05/16 07:30 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		10/10/16 19:27	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 19:27	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 19:27	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 19:27	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 19:27	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/16 19:27	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 19:27	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 19:27	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 19:27	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/16 19:27	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 19:27	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	108-67-8	
Vinyl chloride	2.0	ug/L	1.0	0.18	1		10/10/16 19:27	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 19:27	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/10/16 19:27	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		10/10/16 19:27	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/10/16 19:27	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.86	Std. Units			1		10/03/16 14:20		
Field Specific Conductance	389	umhos/cm			1		10/03/16 14:20		
Oxygen, Dissolved	1.63	mg/L			1		10/03/16 14:20	7782-44-7	
REDOX	-71	mV			1		10/03/16 14:20		
Turbidity	N	NTU			1		10/03/16 14:20		
Depth to Groundwater	8.50	feet			1		10/03/16 14:20		
Temperature, Water (C)	10.74	deg C			1		10/03/16 14:20		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	28.3	mg/L	2.0	0.50	1		10/11/16 16:22	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	252	mg/L	23.5	7.0	1		10/10/16 12:58		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-16C **Lab ID: 40139519009** Collected: 10/03/16 14:45 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	24800	ug/L	100	12.9	1		10/06/16 15:07	7439-89-6	
Manganese, Dissolved	1910	ug/L	5.0	1.4	1		10/06/16 15:07	7439-96-5	
Total Hardness by 2340B, Dissolved	222	mg/L	2.0	0.15	1		10/06/16 15:07		
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.6	ug/L	1.0	0.50	1		10/10/16 19:48	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 19:48	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 19:48	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 19:48	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 19:48	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 19:48	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	56-23-5	
Chlorobenzene	0.60J	ug/L	1.0	0.50	1		10/10/16 19:48	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 19:48	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 19:48	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 19:48	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 19:48	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 19:48	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 19:48	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/16 19:48	75-71-8	
1,1-Dichloroethane	0.29J	ug/L	1.0	0.24	1		10/10/16 19:48	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 19:48	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 19:48	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 19:48	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 19:48	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/16 19:48	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 19:48	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 19:48	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 19:48	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 19:48	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 19:48	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-16C **Lab ID: 40139519009** Collected: 10/03/16 14:45 Received: 10/05/16 07:30 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		10/10/16 19:48	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 19:48	1634-04-4	
Naphthalene	3.1J	ug/L	5.0	2.5	1		10/10/16 19:48	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 19:48	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 19:48	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	127-18-4	
Tetrahydrofuran	18.2	ug/L	5.0	2.0	1		10/10/16 19:48	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 19:48	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 19:48	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 19:48	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/16 19:48	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 19:48	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	108-67-8	
Vinyl chloride	0.34J	ug/L	1.0	0.18	1		10/10/16 19:48	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 19:48	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 19:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/10/16 19:48	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/10/16 19:48	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/10/16 19:48	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.85	Std. Units			1		10/03/16 14:45		
Field Specific Conductance	366	umhos/cm			1		10/03/16 14:45		
Oxygen, Dissolved	0.1	mg/L			1		10/03/16 14:45	7782-44-7	
REDOX	-116	mV			1		10/03/16 14:45		
Turbidity	N	NTU			1		10/03/16 14:45		
Depth to Groundwater	8.48	feet			1		10/03/16 14:45		
Temperature, Water (C)	8.42	deg C			1		10/03/16 14:45		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	37.0	mg/L	20.0	5.0	10		10/11/16 16:34	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	238	mg/L	23.5	7.0	1		10/10/16 13:06		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-26C **Lab ID: 40139519010** Collected: 10/03/16 15:10 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	1040	ug/L	100	12.9	1		10/06/16 15:10	7439-89-6	
Manganese, Dissolved	2720	ug/L	5.0	1.4	1		10/06/16 15:10	7439-96-5	
Total Hardness by 2340B, Dissolved	226	mg/L	2.0	0.15	1		10/06/16 15:10		
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.96J	ug/L	1.0	0.50	1		10/10/16 20:09	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 20:09	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 20:09	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 20:09	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 20:09	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 20:09	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 20:09	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 20:09	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 20:09	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 20:09	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 20:09	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 20:09	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	106-46-7	
Dichlorodifluoromethane	0.36J	ug/L	1.0	0.22	1		10/10/16 20:09	75-71-8	
1,1-Dichloroethane	0.69J	ug/L	1.0	0.24	1		10/10/16 20:09	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 20:09	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 20:09	75-35-4	
cis-1,2-Dichloroethene	0.70J	ug/L	1.0	0.26	1		10/10/16 20:09	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 20:09	156-60-5	
1,2-Dichloropropane	0.29J	ug/L	1.0	0.23	1		10/10/16 20:09	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 20:09	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 20:09	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 20:09	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 20:09	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 20:09	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-26C **Lab ID: 40139519010** Collected: 10/03/16 15:10 Received: 10/05/16 07:30 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		10/10/16 20:09	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 20:09	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 20:09	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 20:09	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 20:09	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/16 20:09	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 20:09	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 20:09	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 20:09	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/16 20:09	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 20:09	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	108-67-8	
Vinyl chloride	4.6	ug/L	1.0	0.18	1		10/10/16 20:09	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 20:09	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/10/16 20:09	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/10/16 20:09	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/10/16 20:09	2037-26-5	
Field Data Analytical Method:									
Field pH	7.34	Std. Units			1		10/03/16 15:10		
Field Specific Conductance	321	umhos/cm			1		10/03/16 15:10		
Oxygen, Dissolved	0.11	mg/L			1		10/03/16 15:10	7782-44-7	
REDOX	-91	mV			1		10/03/16 15:10		
Turbidity	N	NTU			1		10/03/16 15:10		
Depth to Groundwater	5.30	feet			1		10/03/16 15:10		
Temperature, Water (C)	8.42	deg C			1		10/03/16 15:10		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	20.8	mg/L	2.0	0.50	1		10/11/16 17:34	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	227	mg/L	23.5	7.0	1		10/10/16 13:06		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-26B **Lab ID: 40139519011** Collected: 10/03/16 15:25 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	54.5J	ug/L	100	12.9	1		10/06/16 15:12	7439-89-6	
Manganese, Dissolved	100	ug/L	5.0	1.4	1		10/06/16 15:12	7439-96-5	
Total Hardness by 2340B, Dissolved	189	mg/L	2.0	0.15	1		10/06/16 15:12		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 20:30	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 20:30	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 20:30	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 20:30	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 20:30	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 20:30	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 20:30	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 20:30	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 20:30	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 20:30	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 20:30	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/16 20:30	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/10/16 20:30	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 20:30	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 20:30	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 20:30	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 20:30	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/16 20:30	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 20:30	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 20:30	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 20:30	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 20:30	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 20:30	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

Sample: MW-26B **Lab ID: 40139519011** Collected: 10/03/16 15:25 Received: 10/05/16 07:30 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		10/10/16 20:30	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 20:30	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 20:30	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 20:30	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 20:30	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/16 20:30	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 20:30	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 20:30	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 20:30	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/16 20:30	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 20:30	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/10/16 20:30	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 20:30	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/10/16 20:30	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/10/16 20:30	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/10/16 20:30	2037-26-5	
Field Data Analytical Method:									
Field pH	7.76	Std. Units			1		10/03/16 15:25		
Field Specific Conductance	321	umhos/cm			1		10/03/16 15:25		
Oxygen, Dissolved	2	mg/L			1		10/03/16 15:25	7782-44-7	
REDOX	-62	mV			1		10/03/16 15:25		
Turbidity	0	NTU			1		10/03/16 15:25		
Depth to Groundwater	4.23	feet			1		10/03/16 15:25		
Temperature, Water (C)	12.3	deg C			1		10/03/16 15:25		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	12.0	mg/L	2.0	0.50	1		10/11/16 17:47	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	178	mg/L	23.5	7.0	1		10/10/16 13:07		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-18A Lab ID: 40139519012 Collected: 10/03/16 15:55 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	2290	ug/L	100	12.9	1		10/06/16 15:15	7439-89-6	
Manganese, Dissolved	1100	ug/L	5.0	1.4	1		10/06/16 15:15	7439-96-5	
Total Hardness by 2340B, Dissolved	209	mg/L	2.0	0.15	1		10/06/16 15:15		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 20:51	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 20:51	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 20:51	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 20:51	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 20:51	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 20:51	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 20:51	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 20:51	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 20:51	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 20:51	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 20:51	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/16 20:51	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/10/16 20:51	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 20:51	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 20:51	75-35-4	
cis-1,2-Dichloroethene	2.4	ug/L	1.0	0.26	1		10/10/16 20:51	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 20:51	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/16 20:51	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 20:51	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 20:51	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 20:51	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 20:51	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 20:51	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-18A **Lab ID: 40139519012** Collected: 10/03/16 15:55 Received: 10/05/16 07:30 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		10/10/16 20:51	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 20:51	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 20:51	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 20:51	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 20:51	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/16 20:51	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 20:51	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 20:51	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 20:51	79-00-5	
Trichloroethene	0.94J	ug/L	1.0	0.33	1		10/10/16 20:51	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 20:51	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	108-67-8	
Vinyl chloride	0.27J	ug/L	1.0	0.18	1		10/10/16 20:51	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 20:51	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 20:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/10/16 20:51	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/10/16 20:51	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/10/16 20:51	2037-26-5	
Field Data Analytical Method:									
Field pH	7.33	Std. Units			1		10/03/16 15:55		
Field Specific Conductance	328	umhos/cm			1		10/03/16 15:55		
Oxygen, Dissolved	1.2	mg/L			1		10/03/16 15:55	7782-44-7	
REDOX	-105	mV			1		10/03/16 15:55		
Turbidity	0	NTU			1		10/03/16 15:55		
Depth to Groundwater	5.13	feet			1		10/03/16 15:55		
Temperature, Water (C)	12.3	deg C			1		10/03/16 15:55		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	68.3	mg/L	10.0	2.5	5		10/11/16 18:00	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	165	mg/L	23.5	7.0	1		10/10/16 13:07		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-18B **Lab ID: 40139519013** Collected: 10/03/16 16:15 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<12.9	ug/L	100	12.9	1		10/06/16 15:17	7439-89-6	
Manganese, Dissolved	1640	ug/L	5.0	1.4	1		10/06/16 15:17	7439-96-5	
Total Hardness by 2340B, Dissolved	303	mg/L	2.0	0.15	1		10/06/16 15:17		
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/10/16 21:12	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/10/16 21:12	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/10/16 21:12	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 21:12	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/10/16 21:12	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/10/16 21:12	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/10/16 21:12	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/10/16 21:12	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/10/16 21:12	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/10/16 21:12	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/10/16 21:12	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/10/16 21:12	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/10/16 21:12	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/10/16 21:12	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/10/16 21:12	75-35-4	
cis-1,2-Dichloroethene	1.2	ug/L	1.0	0.26	1		10/10/16 21:12	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/10/16 21:12	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/10/16 21:12	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/10/16 21:12	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/10/16 21:12	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/10/16 21:12	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/10/16 21:12	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		10/10/16 21:12	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	99-87-6	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-18B **Lab ID: 40139519013** Collected: 10/03/16 16:15 Received: 10/05/16 07:30 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		10/10/16 21:12	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 21:12	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 21:12	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 21:12	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 21:12	79-34-5	
Tetrachloroethene	0.86J	ug/L	1.0	0.50	1		10/10/16 21:12	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/16 21:12	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 21:12	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 21:12	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 21:12	79-00-5	
Trichloroethene	22.1	ug/L	1.0	0.33	1		10/10/16 21:12	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 21:12	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/10/16 21:12	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 21:12	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/10/16 21:12	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		10/10/16 21:12	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/10/16 21:12	2037-26-5	
Field Data		Analytical Method:							
Field pH	7.03	Std. Units			1		10/03/16 16:15		
Field Specific Conductance	315	umhos/cm			1		10/03/16 16:15		
Oxygen, Dissolved	0.07	mg/L			1		10/03/16 16:15	7782-44-7	
REDOX	22	mV			1		10/03/16 16:15		
Turbidity	N	NTU			1		10/03/16 16:15		
Depth to Groundwater	5.15	feet			1		10/03/16 16:15		
Temperature, Water (C)	8.08	deg C			1		10/03/16 16:15		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	137	mg/L	10.0	2.5	5		10/12/16 12:12	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	165	mg/L	23.5	7.0	1		10/13/16 11:32		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

Sample: MW-18C **Lab ID: 40139519014** Collected: 10/03/16 15:58 Received: 10/05/16 07:30 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		10/10/16 21:33	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/10/16 21:33	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 21:33	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 21:33	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:33	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 21:33	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 21:33	79-34-5	
Tetrachloroethene	0.61J	ug/L	1.0	0.50	1		10/10/16 21:33	127-18-4	
Tetrahydrofuran	<2.0	ug/L	5.0	2.0	1		10/10/16 21:33	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:33	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 21:33	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 21:33	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 21:33	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 21:33	79-00-5	
Trichloroethene	5.2	ug/L	1.0	0.33	1		10/10/16 21:33	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 21:33	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 21:33	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:33	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:33	108-67-8	
Vinyl chloride	0.23J	ug/L	1.0	0.18	1		10/10/16 21:33	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 21:33	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 21:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/10/16 21:33	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/10/16 21:33	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/10/16 21:33	2037-26-5	
Field Data									
Analytical Method:									
Field pH	7.11	Std. Units			1		10/03/16 15:58		
Field Specific Conductance	331	umhos/cm			1		10/03/16 15:58		
Oxygen, Dissolved	0.15	mg/L			1		10/03/16 15:58	7782-44-7	
REDOX	-48	mV			1		10/03/16 15:58		
Turbidity	0	NTU			1		10/03/16 15:58		
Depth to Groundwater	5.15	feet			1		10/03/16 15:58		
Temperature, Water (C)	8.47	deg C			1		10/03/16 15:58		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Chloride	161	mg/L	10.0	2.5	5		10/12/16 12:24	16887-00-6	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	214	mg/L	23.5	7.0	1		10/13/16 11:33		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-28A Lab ID: 40139519018 Collected: 10/04/16 08:30 Received: 10/05/16 07:30 Matrix: Water

Table with 10 columns: Parameters, Results, Units, LOQ, LOD, DF, Prepared, Analyzed, CAS No., Qual. It contains two main sections: '6010 MET ICP, Dissolved' and '8260 MSV', listing various chemical parameters and their measured values against LOQ and LOD.

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-28A **Lab ID: 40139519018** Collected: 10/04/16 08:30 Received: 10/05/16 07:30 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		10/10/16 22:57	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/10/16 22:57	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/10/16 22:57	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/10/16 22:57	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 22:57	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/10/16 22:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/10/16 22:57	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/10/16 22:57	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/10/16 22:57	127-18-4	
Tetrahydrofuran	11.3	ug/L	5.0	2.0	1		10/10/16 22:57	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/10/16 22:57	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/10/16 22:57	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/10/16 22:57	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/10/16 22:57	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/10/16 22:57	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/10/16 22:57	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/10/16 22:57	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/10/16 22:57	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 22:57	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/10/16 22:57	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/10/16 22:57	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/10/16 22:57	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/10/16 22:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/10/16 22:57	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		10/10/16 22:57	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/10/16 22:57	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.38	Std. Units			1		10/04/16 08:30		
Field Specific Conductance	270	umhos/cm			1		10/04/16 08:30		
Oxygen, Dissolved	1.86	mg/L			1		10/04/16 08:30	7782-44-7	
REDOX	-28	mV			1		10/04/16 08:30		
Turbidity	0	NTU			1		10/04/16 08:30		
Depth to Groundwater	6.12	feet			1		10/04/16 08:30		
Temperature, Water (C)	13.67	deg C			1		10/04/16 08:30		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	76.7	mg/L	10.0	2.5	5		10/13/16 17:36	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	127	mg/L	23.5	7.0	1		10/13/16 11:56		

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-21A **Lab ID: 40139519020** Collected: 10/04/16 10:00 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	264	mg/L	14.6	4.4	20	10/11/16 13:10	10/11/16 18:35	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-3A **Lab ID: 40139519021** Collected: 10/04/16 10:20 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	93.4	mg/L	14.6	4.4	20	10/11/16 13:10	10/11/16 18:36	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-2A **Lab ID:** 40139519022 **Collected:** 10/04/16 10:45 **Received:** 10/05/16 07:30 **Matrix:** Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Boron, Dissolved	2120	ug/L	100	4.4	1		10/06/16 14:07	7440-42-8	
Iron, Dissolved	60600	ug/L	100	12.9	1		10/06/16 14:07	7439-89-6	
Manganese, Dissolved	716	ug/L	5.0	1.4	1		10/06/16 14:07	7439-96-5	
Total Hardness by 2340B, Dissolved	1100	mg/L	2.0	0.15	1		10/06/16 14:07		
8260 MSV		Analytical Method: EPA 8260							
Benzene	29.2	ug/L	1.0	0.50	1		10/13/16 23:53	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		10/13/16 23:53	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		10/13/16 23:53	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		10/13/16 23:53	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		10/13/16 23:53	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		10/13/16 23:53	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	56-23-5	
Chlorobenzene	1.7	ug/L	1.0	0.50	1		10/13/16 23:53	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		10/13/16 23:53	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		10/13/16 23:53	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		10/13/16 23:53	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		10/13/16 23:53	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		10/13/16 23:53	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		10/13/16 23:53	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	541-73-1	
1,4-Dichlorobenzene	1.8	ug/L	1.0	0.50	1		10/13/16 23:53	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		10/13/16 23:53	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		10/13/16 23:53	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		10/13/16 23:53	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		10/13/16 23:53	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/13/16 23:53	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		10/13/16 23:53	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		10/13/16 23:53	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		10/13/16 23:53	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		10/13/16 23:53	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		10/13/16 23:53	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		10/13/16 23:53	87-68-3	
Isopropylbenzene (Cumene)	0.55J	ug/L	1.0	0.14	1		10/13/16 23:53	98-82-8	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-2A **Lab ID: 40139519022** Collected: 10/04/16 10:45 Received: 10/05/16 07:30 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		10/13/16 23:53	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/13/16 23:53	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/13/16 23:53	1634-04-4	
Naphthalene	4.4J	ug/L	5.0	2.5	1		10/13/16 23:53	91-20-3	
n-Propylbenzene	0.67J	ug/L	1.0	0.50	1		10/13/16 23:53	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/13/16 23:53	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/13/16 23:53	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	127-18-4	
Tetrahydrofuran	239	ug/L	5.0	2.0	1		10/13/16 23:53	109-99-9	
Toluene	0.53J	ug/L	1.0	0.50	1		10/13/16 23:53	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/13/16 23:53	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/13/16 23:53	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/13/16 23:53	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/13/16 23:53	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/13/16 23:53	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/13/16 23:53	96-18-4	
1,2,4-Trimethylbenzene	2.9	ug/L	1.0	0.50	1		10/13/16 23:53	95-63-6	
1,3,5-Trimethylbenzene	2.1	ug/L	1.0	0.50	1		10/13/16 23:53	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/13/16 23:53	75-01-4	
m&p-Xylene	6.1	ug/L	2.0	1.0	1		10/13/16 23:53	179601-23-1	
o-Xylene	0.72J	ug/L	1.0	0.50	1		10/13/16 23:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		10/13/16 23:53	460-00-4	HS
Dibromofluoromethane (S)	94	%	70-130		1		10/13/16 23:53	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		10/13/16 23:53	2037-26-5	
Field Data		Analytical Method:							
Field pH	6.81	Std. Units			1		10/04/16 10:45		
Field Specific Conductance	527	umhos/cm			1		10/04/16 10:45		
Oxygen, Dissolved	0.6	mg/L			1		10/04/16 10:45	7782-44-7	
REDOX	-86	mV			1		10/04/16 10:45		
Turbidity	0	NTU			1		10/04/16 10:45		
Depth to Groundwater	2.32	feet			1		10/04/16 10:45		
Temperature, Water (C)	11.92	deg C			1		10/04/16 10:45		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	72.4	mg/L	10.0	2.5	5		10/13/16 19:16	16887-00-6	
310.2 Alkalinity		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	2150	mg/L	235	70.4	10		10/13/16 12:34		P6
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	271	mg/L	10.0	5.0	20		10/17/16 16:13	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-2A **Lab ID: 40139519022** Collected: 10/04/16 10:45 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	276	mg/L	14.6	4.4	20	10/11/16 13:10	10/11/16 18:37	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-2A DUP Lab ID: 40139519023 Collected: 10/04/16 10:45 Received: 10/05/16 07:30 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		10/14/16 00:15	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		10/14/16 00:15	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/14/16 00:15	1634-04-4	
Naphthalene	4.7J	ug/L	5.0	2.5	1		10/14/16 00:15	91-20-3	
n-Propylbenzene	0.68J	ug/L	1.0	0.50	1		10/14/16 00:15	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/14/16 00:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/14/16 00:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/14/16 00:15	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/14/16 00:15	127-18-4	
Tetrahydrofuran	217	ug/L	5.0	2.0	1		10/14/16 00:15	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/14/16 00:15	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/14/16 00:15	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/14/16 00:15	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/14/16 00:15	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/14/16 00:15	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/14/16 00:15	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/14/16 00:15	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/14/16 00:15	96-18-4	
1,2,4-Trimethylbenzene	2.9	ug/L	1.0	0.50	1		10/14/16 00:15	95-63-6	
1,3,5-Trimethylbenzene	2.2	ug/L	1.0	0.50	1		10/14/16 00:15	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/14/16 00:15	75-01-4	
m&p-Xylene	6.3	ug/L	2.0	1.0	1		10/14/16 00:15	179601-23-1	
o-Xylene	0.77J	ug/L	1.0	0.50	1		10/14/16 00:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		10/14/16 00:15	460-00-4	HS
Dibromofluoromethane (S)	88	%	70-130		1		10/14/16 00:15	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		10/14/16 00:15	2037-26-5	
Field Data Analytical Method:									
Field pH	6.81	Std. Units			1		10/04/16 10:45		
Field Specific Conductance	527	umhos/cm			1		10/04/16 10:45		
Oxygen, Dissolved	0.6	mg/L			1		10/04/16 10:45	7782-44-7	
REDOX	-86	mV			1		10/04/16 10:45		
Turbidity	0	NTU			1		10/04/16 10:45		
Depth to Groundwater	2.32	feet			1		10/04/16 10:45		
Temperature, Water (C)	11.92	deg C			1		10/04/16 10:45		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	73.3	mg/L	10.0	2.5	5		10/13/16 19:27	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	2140	mg/L	235	70.4	10		10/13/16 15:28		
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	277	mg/L	10.0	5.0	20		10/17/16 16:14	7664-41-7	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Sample: MW-2A DUP **Lab ID: 40139519023** Collected: 10/04/16 10:45 Received: 10/05/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen									
Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	282	mg/L	14.6	4.4	20	10/11/16 13:10	10/11/16 18:38	7727-37-9	

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ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

Sample: MW-2B **Lab ID: 40139519024** Collected: 10/04/16 11:15 Received: 10/05/16 07:30 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		10/13/16 23:30	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		10/13/16 23:30	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		10/13/16 23:30	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:30	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:30	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		10/13/16 23:30	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		10/13/16 23:30	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:30	127-18-4	
Tetrahydrofuran	14.5	ug/L	5.0	2.0	1		10/13/16 23:30	109-99-9	
Toluene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:30	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		10/13/16 23:30	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		10/13/16 23:30	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		10/13/16 23:30	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		10/13/16 23:30	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		10/13/16 23:30	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		10/13/16 23:30	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		10/13/16 23:30	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:30	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:30	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		10/13/16 23:30	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		10/13/16 23:30	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		10/13/16 23:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		10/13/16 23:30	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/13/16 23:30	1868-53-7	
Toluene-d8 (S)	83	%	70-130		1		10/13/16 23:30	2037-26-5	
Field Data Analytical Method:									
Field pH	7.15	Std. Units			1		10/04/16 11:15		
Field Specific Conductance	308	umhos/cm			1		10/04/16 11:15		
Oxygen, Dissolved	0.23	mg/L			1		10/04/16 11:15	7782-44-7	
REDOX	-102	mV			1		10/04/16 11:15		
Turbidity	0	NTU			1		10/04/16 11:15		
Depth to Groundwater	3.05	feet			1		10/04/16 11:15		
Temperature, Water (C)	10.07	deg C			1		10/04/16 11:15		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	21.4	mg/L	10.0	2.5	5		10/13/16 19:38	16887-00-6	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	220	mg/L	23.5	7.0	1		10/13/16 14:20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237367 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40139519001, 40139519002, 40139519003, 40139519004, 40139519005, 40139519006, 40139519007, 40139519008, 40139519009, 40139519010, 40139519011, 40139519012, 40139519013, 40139519014, 40139519015, 40139519016, 40139519017, 40139519018, 40139519020

METHOD BLANK: 1406730 Matrix: Water
Associated Lab Samples: 40139519001, 40139519002, 40139519003, 40139519004, 40139519005, 40139519006, 40139519007, 40139519008, 40139519009, 40139519010, 40139519011, 40139519012, 40139519013, 40139519014, 40139519015, 40139519016, 40139519017, 40139519018, 40139519020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<4.4	100	10/06/16 14:29	
Iron, Dissolved	ug/L	<12.9	100	10/06/16 14:29	
Manganese, Dissolved	ug/L	<1.4	5.0	10/06/16 14:29	
Total Hardness by 2340B, Dissolved	mg/L	0.29J	2.0	10/06/16 14:29	

LABORATORY CONTROL SAMPLE: 1406731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	500	519	104	80-120	
Iron, Dissolved	ug/L	5000	4950	99	80-120	
Manganese, Dissolved	ug/L	500	461	92	80-120	
Total Hardness by 2340B, Dissolved	mg/L		31.2			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1406732 1406733

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40139515012 Result	Spike Conc.	Spike Conc.	MS Result						
Boron, Dissolved	ug/L	253	500	500	764	768	102	103	75-125	0	20
Iron, Dissolved	ug/L	148	5000	5000	5090	5120	99	99	75-125	1	20
Manganese, Dissolved	ug/L	50.0	500	500	520	519	94	94	75-125	0	20
Total Hardness by 2340B, Dissolved	mg/L	581000			591	590				0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237368 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40139519021, 40139519022, 40139519023, 40139519024

METHOD BLANK: 1406734 Matrix: Water
Associated Lab Samples: 40139519021, 40139519022, 40139519023, 40139519024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<4.4	100	10/06/16 13:27	
Iron, Dissolved	ug/L	<12.9	100	10/06/16 13:27	
Manganese, Dissolved	ug/L	<1.4	5.0	10/06/16 13:27	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	2.0	10/06/16 13:27	

LABORATORY CONTROL SAMPLE: 1406735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	500	499	100	80-120	
Iron, Dissolved	ug/L	5000	4940	99	80-120	
Manganese, Dissolved	ug/L	500	476	95	80-120	
Total Hardness by 2340B, Dissolved	mg/L		32.0			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1406736 1406737

Parameter	Units	40139427001		40139427002		40139427003		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Boron, Dissolved	ug/L	1230	500	500	1730	1730	100	75-125	0	20	
Iron, Dissolved	ug/L	1730	5000	5000	6720	6590	100	75-125	2	20	
Manganese, Dissolved	ug/L	221	500	500	691	688	94	75-125	0	20	
Total Hardness by 2340B, Dissolved	mg/L	798000			814	801			2	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 238122 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 40139519019

METHOD BLANK: 1410610 Matrix: Water
Associated Lab Samples: 40139519019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	<6.7	40.0	10/14/16 22:21	
Iron, Dissolved	ug/L	<34.0	100	10/14/16 22:21	
Manganese, Dissolved	ug/L	<1.8	5.5	10/14/16 22:21	
Total Hardness by 2340B, Dissolved	mg/L	1.1J	2.0	10/14/16 22:21	

LABORATORY CONTROL SAMPLE: 1410611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	500	498	100	80-120	
Iron, Dissolved	ug/L	5000	5440	109	80-120	
Manganese, Dissolved	ug/L	500	481	96	80-120	
Total Hardness by 2340B, Dissolved	mg/L		34.9			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1410612 1410613

Parameter	Units	40139511001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Boron, Dissolved	ug/L	31.0J	500	500	514	527	97	99	75-125	3	20		
Iron, Dissolved	ug/L	<34.0	5000	5000	5250	5370	105	107	75-125	2	20		
Manganese, Dissolved	ug/L	5.4J	500	500	470	476	93	94	75-125	1	20		
Total Hardness by 2340B, Dissolved	mg/L	250000 ug/L			281	288				2	20		

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237357 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40139519001, 40139519002, 40139519003, 40139519004, 40139519005, 40139519006, 40139519007, 40139519008, 40139519009, 40139519010, 40139519011, 40139519012, 40139519013, 40139519014, 40139519015, 40139519016, 40139519017, 40139519018, 40139519019, 40139519020

METHOD BLANK: 1406698 Matrix: Water
Associated Lab Samples: 40139519001, 40139519002, 40139519003, 40139519004, 40139519005, 40139519006, 40139519007, 40139519008, 40139519009, 40139519010, 40139519011, 40139519012, 40139519013, 40139519014, 40139519015, 40139519016, 40139519017, 40139519018, 40139519019, 40139519020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	10/10/16 14:32	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/10/16 14:32	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	10/10/16 14:32	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/10/16 14:32	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/10/16 14:32	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/10/16 14:32	
1,1-Dichloropropene	ug/L	<0.44	1.0	10/10/16 14:32	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	10/10/16 14:32	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	10/10/16 14:32	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	10/10/16 14:32	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	10/10/16 14:32	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/10/16 14:32	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/10/16 14:32	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/10/16 14:32	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/10/16 14:32	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/10/16 14:32	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	10/10/16 14:32	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/10/16 14:32	
1,3-Dichloropropane	ug/L	<0.50	1.0	10/10/16 14:32	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/10/16 14:32	
2,2-Dichloropropane	ug/L	<0.48	1.0	10/10/16 14:32	
2-Chlorotoluene	ug/L	<0.50	1.0	10/10/16 14:32	
4-Chlorotoluene	ug/L	<0.21	1.0	10/10/16 14:32	
Benzene	ug/L	<0.50	1.0	10/10/16 14:32	
Bromobenzene	ug/L	<0.23	1.0	10/10/16 14:32	
Bromochloromethane	ug/L	<0.34	1.0	10/10/16 14:32	
Bromodichloromethane	ug/L	<0.50	1.0	10/10/16 14:32	
Bromoform	ug/L	<0.50	1.0	10/10/16 14:32	
Bromomethane	ug/L	<2.4	5.0	10/10/16 14:32	
Carbon tetrachloride	ug/L	<0.50	1.0	10/10/16 14:32	
Chlorobenzene	ug/L	<0.50	1.0	10/10/16 14:32	
Chloroethane	ug/L	<0.37	1.0	10/10/16 14:32	
Chloroform	ug/L	<2.5	5.0	10/10/16 14:32	
Chloromethane	ug/L	<0.50	1.0	10/10/16 14:32	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/10/16 14:32	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/10/16 14:32	
Dibromochloromethane	ug/L	<0.50	1.0	10/10/16 14:32	
Dibromomethane	ug/L	<0.43	1.0	10/10/16 14:32	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

METHOD BLANK: 1406698 Matrix: Water
Associated Lab Samples: 40139519001, 40139519002, 40139519003, 40139519004, 40139519005, 40139519006, 40139519007, 40139519008, 40139519009, 40139519010, 40139519011, 40139519012, 40139519013, 40139519014, 40139519015, 40139519016, 40139519017, 40139519018, 40139519019, 40139519020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/10/16 14:32	
Diisopropyl ether	ug/L	<0.50	1.0	10/10/16 14:32	
Ethylbenzene	ug/L	<0.50	1.0	10/10/16 14:32	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	10/10/16 14:32	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	10/10/16 14:32	
m&p-Xylene	ug/L	<1.0	2.0	10/10/16 14:32	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/10/16 14:32	
Methylene Chloride	ug/L	<0.23	1.0	10/10/16 14:32	
n-Butylbenzene	ug/L	<0.50	1.0	10/10/16 14:32	
n-Propylbenzene	ug/L	<0.50	1.0	10/10/16 14:32	
Naphthalene	ug/L	<2.5	5.0	10/10/16 14:32	
o-Xylene	ug/L	<0.50	1.0	10/10/16 14:32	
p-Isopropyltoluene	ug/L	<0.50	1.0	10/10/16 14:32	
sec-Butylbenzene	ug/L	<2.2	5.0	10/10/16 14:32	
Styrene	ug/L	<0.50	1.0	10/10/16 14:32	
tert-Butylbenzene	ug/L	<0.18	1.0	10/10/16 14:32	
Tetrachloroethene	ug/L	<0.50	1.0	10/10/16 14:32	
Tetrahydrofuran	ug/L	<2.0	5.0	10/10/16 14:32	
Toluene	ug/L	<0.50	1.0	10/10/16 14:32	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/10/16 14:32	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/10/16 14:32	
Trichloroethene	ug/L	<0.33	1.0	10/10/16 14:32	
Trichlorofluoromethane	ug/L	<0.18	1.0	10/10/16 14:32	
Vinyl chloride	ug/L	<0.18	1.0	10/10/16 14:32	
4-Bromofluorobenzene (S)	%	95	70-130	10/10/16 14:32	
Dibromofluoromethane (S)	%	109	70-130	10/10/16 14:32	
Toluene-d8 (S)	%	101	70-130	10/10/16 14:32	

LABORATORY CONTROL SAMPLE: 1406699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.4	115	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	55.8	112	67-130	
1,1,2-Trichloroethane	ug/L	50	54.6	109	70-130	
1,1-Dichloroethane	ug/L	50	57.2	114	70-133	
1,1-Dichloroethene	ug/L	50	49.9	100	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.2	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.2	100	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	53.3	107	70-130	
1,2-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dichloroethane	ug/L	50	62.0	124	70-130	
1,2-Dichloropropane	ug/L	50	61.0	122	70-130	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

LABORATORY CONTROL SAMPLE: 1406699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.5	103	70-130	
1,4-Dichlorobenzene	ug/L	50	52.3	105	70-130	
Benzene	ug/L	50	67.2	134	60-135	
Bromodichloromethane	ug/L	50	54.5	109	70-130	
Bromoform	ug/L	50	44.9	90	70-130	
Bromomethane	ug/L	50	43.7	87	33-130	
Carbon tetrachloride	ug/L	50	56.2	112	70-138	
Chlorobenzene	ug/L	50	53.4	107	70-130	
Chloroethane	ug/L	50	46.7	93	51-130	
Chloroform	ug/L	50	58.5	117	70-130	
Chloromethane	ug/L	50	39.5	79	25-132	
cis-1,2-Dichloroethene	ug/L	50	55.1	110	69-130	
cis-1,3-Dichloropropene	ug/L	50	51.7	103	70-130	
Dibromochloromethane	ug/L	50	56.3	113	70-130	
Dichlorodifluoromethane	ug/L	50	40.7	81	23-130	
Ethylbenzene	ug/L	50	55.5	111	70-136	
Isopropylbenzene (Cumene)	ug/L	50	55.3	111	70-140	
m&p-Xylene	ug/L	100	109	109	70-138	
Methyl-tert-butyl ether	ug/L	50	53.5	107	66-138	
Methylene Chloride	ug/L	50	54.1	108	70-130	
o-Xylene	ug/L	50	54.1	108	70-134	
Styrene	ug/L	50	54.7	109	70-133	
Tetrachloroethene	ug/L	50	50.2	100	70-138	
Toluene	ug/L	50	55.3	111	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.9	110	70-131	
trans-1,3-Dichloropropene	ug/L	50	48.3	97	69-130	
Trichloroethene	ug/L	50	54.2	108	70-130	
Trichlorofluoromethane	ug/L	50	50.8	102	50-150	
Vinyl chloride	ug/L	50	52.2	104	49-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			112	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408458 1408459

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40139519003 Result	Spike Conc.	Spike Conc.	MSD Result								
1,1,1-Trichloroethane	ug/L	<0.50	50	50	59.6	58.5	119	117	70-134	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	56.9	58.0	114	116	67-130	2	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	54.9	55.7	110	111	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	58.3	57.9	117	116	70-134	1	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	52.0	51.6	104	103	68-136	1	20		
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	49.9	51.0	100	102	62-139	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	53.3	53.0	107	106	50-150	1	20		

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408458		1408459		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40139519003	MS Spike Conc.	MSD Spike Conc.	MSD Result								
		Result	Conc.	Conc.	Result								
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	53.8	54.5	108	109	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	52.5	53.2	105	106	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	62.9	62.6	126	125	70-130	0	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	60.0	61.9	120	124	70-130	3	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	51.5	51.9	103	104	70-131	1	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	53.2	53.6	106	107	70-130	1	20		
Benzene	ug/L	<0.50	50	50	68.0	68.5	136	137	57-138	1	20		
Bromodichloromethane	ug/L	<0.50	50	50	54.2	56.2	108	112	70-130	4	20		
Bromoform	ug/L	<0.50	50	50	45.6	45.7	91	91	70-130	0	20		
Bromomethane	ug/L	<2.4	50	50	48.4	49.1	97	98	33-130	1	27		
Carbon tetrachloride	ug/L	<0.50	50	50	58.3	58.0	117	116	70-138	1	20		
Chlorobenzene	ug/L	<0.50	50	50	53.2	53.8	106	108	70-130	1	20		
Chloroethane	ug/L	<0.37	50	50	47.5	47.4	95	95	51-130	0	20		
Chloroform	ug/L	<2.5	50	50	60.1	58.4	120	117	70-130	3	20		
Chloromethane	ug/L	<0.50	50	50	40.4	40.0	81	80	25-132	1	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	56.3	55.7	113	111	61-140	1	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	53.3	57.2	107	114	70-130	7	20		
Dibromochloromethane	ug/L	<0.50	50	50	56.5	56.4	113	113	70-130	0	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	41.5	41.2	83	82	23-130	1	20		
Ethylbenzene	ug/L	<0.50	50	50	55.3	56.1	111	112	70-138	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	54.6	55.8	109	112	70-152	2	20		
m&p-Xylene	ug/L	<1.0	100	100	107	109	107	109	70-140	2	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	55.4	53.8	111	108	66-139	3	20		
Methylene Chloride	ug/L	0.47J	50	50	56.2	54.5	111	108	70-130	3	20		
o-Xylene	ug/L	<0.50	50	50	53.5	54.3	107	109	70-134	1	20		
Styrene	ug/L	<0.50	50	50	54.3	55.4	109	111	70-138	2	20		
Tetrachloroethene	ug/L	<0.50	50	50	49.6	50.7	99	101	70-148	2	20		
Toluene	ug/L	<0.50	50	50	54.3	56.1	108	112	70-130	3	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	56.0	56.1	112	112	70-133	0	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	49.0	48.5	98	97	69-130	1	20		
Trichloroethene	ug/L	<0.33	50	50	54.5	54.7	109	109	70-131	0	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	52.5	52.3	105	105	50-150	1	20		
Vinyl chloride	ug/L	<0.18	50	50	53.8	53.5	108	107	49-133	1	20		
4-Bromofluorobenzene (S)	%						99	98	70-130				
Dibromofluoromethane (S)	%						114	112	70-130				
Toluene-d8 (S)	%						100	102	70-130				

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237358 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40139519021, 40139519022, 40139519023, 40139519024

METHOD BLANK: 1406703 Matrix: Water
Associated Lab Samples: 40139519021, 40139519022, 40139519023, 40139519024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	10/13/16 14:53	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	10/13/16 14:53	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	10/13/16 14:53	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	10/13/16 14:53	
1,1-Dichloroethane	ug/L	<0.24	1.0	10/13/16 14:53	
1,1-Dichloroethene	ug/L	<0.41	1.0	10/13/16 14:53	
1,1-Dichloropropene	ug/L	<0.44	1.0	10/13/16 14:53	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	10/13/16 14:53	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	10/13/16 14:53	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	10/13/16 14:53	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	10/13/16 14:53	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	10/13/16 14:53	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	10/13/16 14:53	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	10/13/16 14:53	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/13/16 14:53	
1,2-Dichloropropane	ug/L	<0.23	1.0	10/13/16 14:53	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	10/13/16 14:53	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	10/13/16 14:53	
1,3-Dichloropropane	ug/L	<0.50	1.0	10/13/16 14:53	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	10/13/16 14:53	
2,2-Dichloropropane	ug/L	<0.48	1.0	10/13/16 14:53	
2-Chlorotoluene	ug/L	<0.50	1.0	10/13/16 14:53	
4-Chlorotoluene	ug/L	<0.21	1.0	10/13/16 14:53	
Benzene	ug/L	<0.50	1.0	10/13/16 14:53	
Bromobenzene	ug/L	<0.23	1.0	10/13/16 14:53	
Bromochloromethane	ug/L	<0.34	1.0	10/13/16 14:53	
Bromodichloromethane	ug/L	<0.50	1.0	10/13/16 14:53	
Bromoform	ug/L	<0.50	1.0	10/13/16 14:53	
Bromomethane	ug/L	<2.4	5.0	10/13/16 14:53	
Carbon tetrachloride	ug/L	<0.50	1.0	10/13/16 14:53	
Chlorobenzene	ug/L	<0.50	1.0	10/13/16 14:53	
Chloroethane	ug/L	<0.37	1.0	10/13/16 14:53	
Chloroform	ug/L	<2.5	5.0	10/13/16 14:53	
Chloromethane	ug/L	<0.50	1.0	10/13/16 14:53	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	10/13/16 14:53	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	10/13/16 14:53	
Dibromochloromethane	ug/L	<0.50	1.0	10/13/16 14:53	
Dibromomethane	ug/L	<0.43	1.0	10/13/16 14:53	
Dichlorodifluoromethane	ug/L	<0.22	1.0	10/13/16 14:53	
Diisopropyl ether	ug/L	<0.50	1.0	10/13/16 14:53	
Ethylbenzene	ug/L	<0.50	1.0	10/13/16 14:53	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

METHOD BLANK: 1406703

Matrix: Water

Associated Lab Samples: 40139519021, 40139519022, 40139519023, 40139519024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	10/13/16 14:53	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	10/13/16 14:53	
m&p-Xylene	ug/L	<1.0	2.0	10/13/16 14:53	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/13/16 14:53	
Methylene Chloride	ug/L	<0.23	1.0	10/13/16 14:53	
n-Butylbenzene	ug/L	<0.50	1.0	10/13/16 14:53	
n-Propylbenzene	ug/L	<0.50	1.0	10/13/16 14:53	
Naphthalene	ug/L	<2.5	5.0	10/13/16 14:53	
o-Xylene	ug/L	<0.50	1.0	10/13/16 14:53	
p-Isopropyltoluene	ug/L	<0.50	1.0	10/13/16 14:53	
sec-Butylbenzene	ug/L	<2.2	5.0	10/13/16 14:53	
Styrene	ug/L	<0.50	1.0	10/13/16 14:53	
tert-Butylbenzene	ug/L	<0.18	1.0	10/13/16 14:53	
Tetrachloroethene	ug/L	<0.50	1.0	10/13/16 14:53	
Tetrahydrofuran	ug/L	<2.0	5.0	10/13/16 14:53	
Toluene	ug/L	<0.50	1.0	10/13/16 14:53	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	10/13/16 14:53	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	10/13/16 14:53	
Trichloroethene	ug/L	<0.33	1.0	10/13/16 14:53	
Trichlorofluoromethane	ug/L	<0.18	1.0	10/13/16 14:53	
Vinyl chloride	ug/L	<0.18	1.0	10/13/16 14:53	
4-Bromofluorobenzene (S)	%	90	70-130	10/13/16 14:53	
Dibromofluoromethane (S)	%	96	70-130	10/13/16 14:53	
Toluene-d8 (S)	%	92	70-130	10/13/16 14:53	

LABORATORY CONTROL SAMPLE: 1406704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.2	100	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	49.5	99	67-130	
1,1,2-Trichloroethane	ug/L	50	47.6	95	70-130	
1,1-Dichloroethane	ug/L	50	51.4	103	70-133	
1,1-Dichloroethene	ug/L	50	47.4	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.7	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.2	94	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	47.1	94	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	52.3	105	70-130	
1,2-Dichloropropane	ug/L	50	55.4	111	70-130	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
Benzene	ug/L	50	52.2	104	60-135	
Bromodichloromethane	ug/L	50	53.1	106	70-130	
Bromoform	ug/L	50	46.6	93	70-130	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

LABORATORY CONTROL SAMPLE: 1406704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	47.7	95	33-130	
Carbon tetrachloride	ug/L	50	52.6	105	70-138	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroethane	ug/L	50	53.9	108	51-130	
Chloroform	ug/L	50	51.0	102	70-130	
Chloromethane	ug/L	50	45.1	90	25-132	
cis-1,2-Dichloroethene	ug/L	50	48.5	97	69-130	
cis-1,3-Dichloropropene	ug/L	50	50.2	100	70-130	
Dibromochloromethane	ug/L	50	45.9	92	70-130	
Dichlorodifluoromethane	ug/L	50	38.3	77	23-130	
Ethylbenzene	ug/L	50	52.4	105	70-136	
Isopropylbenzene (Cumene)	ug/L	50	54.0	108	70-140	
m&p-Xylene	ug/L	100	105	105	70-138	
Methyl-tert-butyl ether	ug/L	50	49.9	100	66-138	
Methylene Chloride	ug/L	50	51.5	103	70-130	
o-Xylene	ug/L	50	51.5	103	70-134	
Styrene	ug/L	50	52.9	106	70-133	
Tetrachloroethene	ug/L	50	45.8	92	70-138	
Toluene	ug/L	50	49.9	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.1	98	70-131	
trans-1,3-Dichloropropene	ug/L	50	44.2	88	69-130	
Trichloroethene	ug/L	50	55.7	111	70-130	
Trichlorofluoromethane	ug/L	50	54.2	108	50-150	
Vinyl chloride	ug/L	50	54.5	109	49-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			89	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409747 1409748

Parameter	Units	40139500003		MSD		MSD		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,1-Trichloroethane	ug/L	<0.50	50	50	48.1	48.2	96	96	70-134	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	56.2	47.4	112	95	67-130	17	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	47.0	50.2	94	100	70-130	7	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	49.5	50.2	99	100	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	45.8	47.2	92	94	68-136	3	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	48.8	48.7	97	97	62-139	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	40.4	47.1	81	94	50-150	15	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	44.5	50.3	89	101	70-130	12	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	50.4	50.0	101	100	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	52.1	49.4	104	99	70-130	5	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	59.2	52.9	118	106	70-130	11	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	50.6	49.7	101	99	70-131	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1409747		1409748							
Parameter	Units	40139500003	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.2	49.3	102	99	70-130	4	20
Benzene	ug/L	<0.50	50	50	47.5	50.9	95	102	57-138	7	20
Bromodichloromethane	ug/L	1.7	50	50	60.2	51.6	117	100	70-130	15	20
Bromoform	ug/L	<0.50	50	50	50.0	51.5	100	103	70-130	3	20
Bromomethane	ug/L	<2.4	50	50	50.3	54.9	101	110	33-130	9	27
Carbon tetrachloride	ug/L	<0.50	50	50	50.3	51.0	101	102	70-138	1	20
Chlorobenzene	ug/L	<0.50	50	50	50.9	51.6	102	103	70-130	1	20
Chloroethane	ug/L	<0.37	50	50	51.6	50.3	103	101	51-130	3	20
Chloroform	ug/L	<2.5	50	50	52.0	51.9	99	99	70-130	0	20
Chloromethane	ug/L	<0.50	50	50	43.6	41.1	87	82	25-132	6	20
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	47.7	47.4	95	95	61-140	1	20
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	53.6	46.4	107	93	70-130	14	20
Dibromochloromethane	ug/L	2.1	50	50	46.4	49.8	89	95	70-130	7	20
Dichlorodifluoromethane	ug/L	<0.22	50	50	35.6	35.7	71	71	23-130	0	20
Ethylbenzene	ug/L	<0.50	50	50	52.2	50.5	104	101	70-138	3	20
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	53.1	51.1	106	102	70-152	4	20
m&p-Xylene	ug/L	<1.0	100	100	104	101	104	101	70-140	3	20
Methyl-tert-butyl ether	ug/L	<0.17	50	50	50.8	48.7	102	97	66-139	4	20
Methylene Chloride	ug/L	<0.23	50	50	50.4	48.1	101	96	70-130	5	20
o-Xylene	ug/L	<0.50	50	50	51.2	50.5	102	101	70-134	1	20
Styrene	ug/L	<0.50	50	50	53.0	50.9	106	102	70-138	4	20
Tetrachloroethene	ug/L	<0.50	50	50	46.7	52.4	93	105	70-148	12	20
Toluene	ug/L	<0.50	50	50	51.7	52.9	103	106	70-130	2	20
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	47.9	47.3	96	95	70-133	1	20
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	42.0	46.0	84	92	69-130	9	20
Trichloroethene	ug/L	<0.33	50	50	58.2	51.8	116	104	70-131	11	20
Trichlorofluoromethane	ug/L	<0.18	50	50	53.0	53.0	106	106	50-150	0	20
Vinyl chloride	ug/L	<0.18	50	50	52.5	53.8	105	108	49-133	2	20
4-Bromofluorobenzene (S)	%						94	89	70-130		
Dibromofluoromethane (S)	%						94	91	70-130		
Toluene-d8 (S)	%						92	95	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237382 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40139519001

METHOD BLANK: 1406818 Matrix: Water
Associated Lab Samples: 40139519001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/13/16 13:15	

LABORATORY CONTROL SAMPLE: 1406819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1406820 1406821

Parameter	Units	40139447001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	69.8	100	100	172	172	102	102	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1406822 1406823

Parameter	Units	40139519001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Chloride	mg/L	39.3	100	100	142	143	103	103	90-110	1	15	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237510 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40139519002, 40139519003, 40139519004, 40139519005, 40139519006, 40139519007, 40139519008, 40139519009, 40139519010, 40139519011, 40139519012, 40139519013, 40139519014, 40139519015, 40139519016, 40139519017

METHOD BLANK: 1407549 Matrix: Water
Associated Lab Samples: 40139519002, 40139519003, 40139519004, 40139519005, 40139519006, 40139519007, 40139519008, 40139519009, 40139519010, 40139519011, 40139519012, 40139519013, 40139519014, 40139519015, 40139519016, 40139519017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/11/16 11:58	

LABORATORY CONTROL SAMPLE: 1407550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1407551 1407552

Parameter	Units	40139620001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.0	20	20	39.6	40.6	103	108	90-110	3	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1407553 1407554

Parameter	Units	40139519017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5	20	20	26.7	26.7	111	111	90-110	0	15 M0	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237581 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40139519018, 40139519019, 40139519020, 40139519021, 40139519022, 40139519023, 40139519024

METHOD BLANK: 1408210 Matrix: Water
Associated Lab Samples: 40139519018, 40139519019, 40139519020, 40139519021, 40139519022, 40139519023, 40139519024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	10/13/16 17:14	

LABORATORY CONTROL SAMPLE: 1408211

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408212 1408213

Parameter	Units	40139519018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	76.7	100	100	184	184	107	108	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408214 1408215

Parameter	Units	40139526011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.2J	20	20	22.5	22.7	106	107	90-110	1	15	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237569 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40139519001, 40139519002, 40139519003, 40139519004, 40139519005, 40139519006, 40139519007, 40139519008

METHOD BLANK: 1408173 Matrix: Water
Associated Lab Samples: 40139519001, 40139519002, 40139519003, 40139519004, 40139519005, 40139519006, 40139519007, 40139519008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	10/10/16 12:37	

LABORATORY CONTROL SAMPLE: 1408174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	96.3	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408175 1408176

Parameter	Units	40139379009 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	351	200	200	581	560	115	105	90-110	4	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408177 1408178

Parameter	Units	40139319001 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	612	500	500	1120	1160	102	110	90-110	4	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237571 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40139519009, 40139519010, 40139519011, 40139519012

METHOD BLANK: 1408181 Matrix: Water
Associated Lab Samples: 40139519009, 40139519010, 40139519011, 40139519012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	10/10/16 12:58	

LABORATORY CONTROL SAMPLE: 1408182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	96.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408183 1408184

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40139389003 Result	Spike Conc.	Spike Conc.	Result						
Alkalinity, Total as CaCO3	mg/L	310	500	500	777	93	98	90-110	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237906 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40139519013, 40139519014, 40139519015, 40139519016

METHOD BLANK: 1409549 Matrix: Water
Associated Lab Samples: 40139519013, 40139519014, 40139519015, 40139519016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<7.0	23.5	10/13/16 11:30	

LABORATORY CONTROL SAMPLE: 1409550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409551 1409552

Parameter	Units	40139493003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Alkalinity, Total as CaCO ₃	mg/L	48.0	100	147	100	146	99	98	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409553 1409554

Parameter	Units	40139499001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Alkalinity, Total as CaCO ₃	mg/L	390	1000	1380	1000	1380	99	99	90-110	0	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

QC Batch: 237907

Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2

Analysis Description: 310.2 Alkalinity

Associated Lab Samples: 40139519017, 40139519018, 40139519019, 40139519020, 40139519021, 40139519022

METHOD BLANK: 1409555

Matrix: Water

Associated Lab Samples: 40139519017, 40139519018, 40139519019, 40139519020, 40139519021, 40139519022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	10/13/16 11:52	

LABORATORY CONTROL SAMPLE: 1409556

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409557 1409558

Parameter	Units	1409557		1409558		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	2150	100	2190	100	42	46	90-110	0	20	P6		

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 238025 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40139519023, 40139519024

METHOD BLANK: 1410054 Matrix: Water
Associated Lab Samples: 40139519023, 40139519024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	10/13/16 14:18	

LABORATORY CONTROL SAMPLE: 1410055

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1410056 1410057

Parameter	Units	40139526009 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	330	500	500	829	831	100	100	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1410058 1410059

Parameter	Units	40139670001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	345	200	200	542	543	98	99	90-110	0	20	

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 238293 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 40139519020, 40139519021, 40139519022, 40139519023

METHOD BLANK: 1411965 Matrix: Water
Associated Lab Samples: 40139519020, 40139519021, 40139519022, 40139519023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.25	0.50	10/17/16 16:01	

LABORATORY CONTROL SAMPLE: 1411966

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1411967 1411968

Parameter	Units	40139475001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Nitrogen, Ammonia	mg/L	1.0	10	10	10.5	10.4	95	94	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1411969 1411970

Parameter	Units	40139519020 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Nitrogen, Ammonia	mg/L	265	10	10	273	275	74	100	90-110	1	20	P6

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QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

QC Batch: 237755 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 40139519020, 40139519021, 40139519022, 40139519023

METHOD BLANK: 1408780 Matrix: Water
Associated Lab Samples: 40139519020, 40139519021, 40139519022, 40139519023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.22	0.73	10/11/16 17:43	

LABORATORY CONTROL SAMPLE: 1408781

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408782 1408783

Parameter	Units	40139499002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	11.6	5	5	16.4	16.1	96	90	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408784 1408785

Parameter	Units	40139517005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	88.5	50	50	136	139	95	101	90-110	2	20	

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QUALIFIERS

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q Analyte was measured in the associated method blank at a concentration of -7.9 mg/L.

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

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF WELLS
Pace Project No.: 40139519

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40139519019	MW-25B	EPA 3010	238122	EPA 6010	238198
40139519001	MW-20C	EPA 6010	237367		
40139519002	MW-20A	EPA 6010	237367		
40139519003	FIELD BLANK (EQUIP)	EPA 6010	237367		
40139519004	MW-20B	EPA 6010	237367		
40139519005	MW-16B	EPA 6010	237367		
40139519006	MW-16B DUP	EPA 6010	237367		
40139519007	FIELD BLANK	EPA 6010	237367		
40139519008	MW-16A	EPA 6010	237367		
40139519009	MW-16C	EPA 6010	237367		
40139519010	MW-26C	EPA 6010	237367		
40139519011	MW-26B	EPA 6010	237367		
40139519012	MW-18A	EPA 6010	237367		
40139519013	MW-18B	EPA 6010	237367		
40139519014	MW-18C	EPA 6010	237367		
40139519015	MW-5A	EPA 6010	237367		
40139519016	MW-4A	EPA 6010	237367		
40139519017	MW-27B	EPA 6010	237367		
40139519018	MW-28A	EPA 6010	237367		
40139519020	MW-21A	EPA 6010	237367		
40139519021	MW-3A	EPA 6010	237368		
40139519022	MW-2A	EPA 6010	237368		
40139519023	MW-2A DUP	EPA 6010	237368		
40139519024	MW-2B	EPA 6010	237368		
40139519001	MW-20C	EPA 8260	237357		
40139519002	MW-20A	EPA 8260	237357		
40139519003	FIELD BLANK (EQUIP)	EPA 8260	237357		
40139519004	MW-20B	EPA 8260	237357		
40139519005	MW-16B	EPA 8260	237357		
40139519006	MW-16B DUP	EPA 8260	237357		
40139519007	FIELD BLANK	EPA 8260	237357		
40139519008	MW-16A	EPA 8260	237357		
40139519009	MW-16C	EPA 8260	237357		
40139519010	MW-26C	EPA 8260	237357		
40139519011	MW-26B	EPA 8260	237357		
40139519012	MW-18A	EPA 8260	237357		
40139519013	MW-18B	EPA 8260	237357		
40139519014	MW-18C	EPA 8260	237357		
40139519015	MW-5A	EPA 8260	237357		
40139519016	MW-4A	EPA 8260	237357		
40139519017	MW-27B	EPA 8260	237357		
40139519018	MW-28A	EPA 8260	237357		
40139519019	MW-25B	EPA 8260	237357		
40139519020	MW-21A	EPA 8260	237357		
40139519021	MW-3A	EPA 8260	237358		
40139519022	MW-2A	EPA 8260	237358		
40139519023	MW-2A DUP	EPA 8260	237358		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40139519024	MW-2B	EPA 8260	237358		
40139519001	MW-20C				
40139519002	MW-20A				
40139519004	MW-20B				
40139519005	MW-16B				
40139519006	MW-16B DUP				
40139519008	MW-16A				
40139519009	MW-16C				
40139519010	MW-26C				
40139519011	MW-26B				
40139519012	MW-18A				
40139519013	MW-18B				
40139519014	MW-18C				
40139519015	MW-5A				
40139519016	MW-4A				
40139519017	MW-27B				
40139519018	MW-28A				
40139519019	MW-25B				
40139519020	MW-21A				
40139519021	MW-3A				
40139519022	MW-2A				
40139519023	MW-2A DUP				
40139519024	MW-2B				
40139519001	MW-20C	EPA 300.0	237382		
40139519002	MW-20A	EPA 300.0	237510		
40139519003	FIELD BLANK (EQUIP)	EPA 300.0	237510		
40139519004	MW-20B	EPA 300.0	237510		
40139519005	MW-16B	EPA 300.0	237510		
40139519006	MW-16B DUP	EPA 300.0	237510		
40139519007	FIELD BLANK	EPA 300.0	237510		
40139519008	MW-16A	EPA 300.0	237510		
40139519009	MW-16C	EPA 300.0	237510		
40139519010	MW-26C	EPA 300.0	237510		
40139519011	MW-26B	EPA 300.0	237510		
40139519012	MW-18A	EPA 300.0	237510		
40139519013	MW-18B	EPA 300.0	237510		
40139519014	MW-18C	EPA 300.0	237510		
40139519015	MW-5A	EPA 300.0	237510		
40139519016	MW-4A	EPA 300.0	237510		
40139519017	MW-27B	EPA 300.0	237510		
40139519018	MW-28A	EPA 300.0	237581		
40139519019	MW-25B	EPA 300.0	237581		
40139519020	MW-21A	EPA 300.0	237581		
40139519021	MW-3A	EPA 300.0	237581		
40139519022	MW-2A	EPA 300.0	237581		
40139519023	MW-2A DUP	EPA 300.0	237581		
40139519024	MW-2B	EPA 300.0	237581		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF WELLS

Pace Project No.: 40139519

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40139519001	MW-20C	EPA 310.2	237569		
40139519002	MW-20A	EPA 310.2	237569		
40139519003	FIELD BLANK (EQUIP)	EPA 310.2	237569		
40139519004	MW-20B	EPA 310.2	237569		
40139519005	MW-16B	EPA 310.2	237569		
40139519006	MW-16B DUP	EPA 310.2	237569		
40139519007	FIELD BLANK	EPA 310.2	237569		
40139519008	MW-16A	EPA 310.2	237569		
40139519009	MW-16C	EPA 310.2	237571		
40139519010	MW-26C	EPA 310.2	237571		
40139519011	MW-26B	EPA 310.2	237571		
40139519012	MW-18A	EPA 310.2	237571		
40139519013	MW-18B	EPA 310.2	237906		
40139519014	MW-18C	EPA 310.2	237906		
40139519015	MW-5A	EPA 310.2	237906		
40139519016	MW-4A	EPA 310.2	237906		
40139519017	MW-27B	EPA 310.2	237907		
40139519018	MW-28A	EPA 310.2	237907		
40139519019	MW-25B	EPA 310.2	237907		
40139519020	MW-21A	EPA 310.2	237907		
40139519021	MW-3A	EPA 310.2	237907		
40139519022	MW-2A	EPA 310.2	237907		
40139519023	MW-2A DUP	EPA 310.2	238025		
40139519024	MW-2B	EPA 310.2	238025		
40139519020	MW-21A	EPA 350.1	238293		
40139519021	MW-3A	EPA 350.1	238293		
40139519022	MW-2A	EPA 350.1	238293		
40139519023	MW-2A DUP	EPA 350.1	238293		
40139519020	MW-21A	EPA 351.2	237755	EPA 351.2	237821
40139519021	MW-3A	EPA 351.2	237755	EPA 351.2	237821
40139519022	MW-2A	EPA 351.2	237755	EPA 351.2	237821
40139519023	MW-2A DUP	EPA 351.2	237755	EPA 351.2	237821

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CHAIN OF CUSTODY RECORD

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St. Paul, Minnesota 55112 United States

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COC NO. **SP-01977**

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40139519 (See Reverse Side for Instructions)

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Project No/ Phase/Task Code: 1115796					Laboratory Name: Pace					Lab Location:					SSOW ID:																																							
Project Name: Rhinelander LE					Lab Contact: Dan Mileusky					Lab Quote No:					Cooler No:																																							
Project Location: Rhinelander WI					SAMPLE TYPE					CONTAINER QUANTITY & PRESERVATION					ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier:																																					
Chemistry Contact: G Anderson					Matrix Code (see back of COC)					Grab (G) or Comp (C)					MISMSD Request					Airbill No:																																		
Sampler(s): P. Amick					Unpreserved					Hydrochloric Acid (HCl)					Nitric Acid (HNO₃)					Sulfuric Acid (H₂SO₄)					Sodium Hydroxide (NaOH)					Methanol/Water (Soil VOC)					EnCores 3x5-g, 1x25-g					Other:					Total Containers/Sample					Date Shipped:				
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)				DATE (mm/dd/yy)	TIME (hh:mm)																COMMENTS/ SPECIAL INSTRUCTIONS:																																
1	W-161003-PA-18				CO1	10/3/16	1320	6L	6	1	3	1	340MLVB	5									2-250mlp AD Metals were field filtered																															
2	W-161007-PA-15				CO2		1325			1	3	1		5																																								
3	W-161003-PA-16				CO3		1310			1	3	1		5																																								
4	W-161003-PA-17				CO4		1340			1	3	1		5																																								
5	W-161003-PA-09				CO5		1416			1	3	1		5																																								
6	W-161003-PA-10				CO6		1416			1	3	1		5																																								
7	W-161003-PA-07				CO7		1420			1	3	1		5																																								
8	W-161003-PA-08				CO8		1420			1	3	1		5																																								
9	W-161003-PA-11				CO9		1445			1	3	1		5																																								
10	W-161003-PA-22				CO10		1510			1	3	1		5																																								
11	W-161003-PA-21				CO11		1525			1	3	1		5																																								
12	W-161003-PA-12				CO12		1555			1	3	1		5																																								
13	W-161003-PA-13				CO13		1615			1	3	1		5																																								
14	W-161003-PA-14				CO14		1558			1	3	1		5																																								
15	W-161003-PA-06				CO15		1630			1	3	1		5																																								
TAT Required in business days (use separate COCs for different TATs):										Total Number of Containers: 75					Notes/ Special Requirements:																																							
<input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other:										All Samples in Cooler must be on COC																																												
RELINQUISHED BY				COMPANY				DATE				TIME				RECEIVED BY				COMPANY				DATE				TIME																										
[Signature]				GHD				10/4/16				1500				1. [Signature]																																						
Durham								10/5/16				0730				Susan K. W. Pace								10/5/16				0730																										
3.																3.																																						

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CHAIN OF CUSTODY RECORD

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COC NO.: **SP-01974**

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(See Reverse Side for Instructions)

40139519

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Project No/ Phase/Task Code: 11115796				Laboratory Name: Pace				Lab Location:				SSOW ID:										
Project Name: Rhinelander LF				Lab Contact: Dan Milewski				Lab Quote No:				Cooler No:										
Project Location: Rhinelander				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)										
Chemistry Contact: G Anderson				Carrier:				Airbill No:				Date Shipped:										
Sampler(s): Pace				Matrix Code (see back of COC)				Grab (G) or Comp (C)				MS/MSD Request										
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yy)	TIME (hh:mm)	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	VOCs	Alk/Chlor	Heavy Metals	Ammonia: THN	Barium	COMMENTS/ SPECIAL INSTRUCTIONS:
1	W-161003-PA-05			016	10/3/16	G	G	1	3	1	3	40ml vials			5	1	1	1	1	1	1	2-250ml CAD metals were field filtered
2	W-161009-PA-23			017	10/4/16			1	3	1					5	1	1	1	1	1		
3	W-161004-PA-24			018				1	3	1					5	1	1	1	1	1		
4	W-161004-PA-20			019				1	3	1					5	1	1	1	1	1		
5	W-161004-PA-19			020				1	3	1					6	1	1	1	1	1		3-250ml CAD
6	W-161004-PA-07			021				1	3	1					6	1	1	1	1	1		
7	W-161004-PA-01			022				1	3	1					6	1	1	1	1	1		
8	W-161004-PA-02			023				1	3	1					6	1	1	1	1	1		
9	W-161004-PA-03			024				1	3	1					5	1	1	1	1	1		
10																						
11																						
12																						
13																						
14																						
15																						
TAT Required in business days (use separate COCs for different TATs):							Total Number of Containers: 49				Notes/ Special Requirements:											
<input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other:							All Samples in Cooler must be on COC															
RELINQUISHED BY			COMPANY		DATE		TIME		RECEIVED BY			COMPANY		DATE		TIME						
1. <i>[Signature]</i>			GHD		10/4/16		1500		1. <i>[Signature]</i>			Pace		10/5/16		0730						
2. <i>[Signature]</i>					10/5/16		0730		2. <i>[Signature]</i>													
3.									3.													

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

Pace Analytical

Client Name Conestoga Rovers

Project #

WO#: **40139519**

Courier: Fed Ex UPS Client Pace Other: Dunham

Tracking #: 1220043



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 N/A Type of Ice: Ice Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT / Corr: Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 10-5-16
Initials: SW

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. <u>Original and a copy 10-5-16 SW</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>No collect time on all samples. 10-5-16 SW</u>
-Includes date/time/ID/Analysis Matrix:		
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. <u>HNO3 H2SO4 NaOH NaOH + ZnAct SW</u>
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 <u>SW</u> Lab Std #/ID of preservative Date/Time:
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>019, 022 + 023 - 3 vials 10-5-16 SW</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>019 - heavy sediment.</u>
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: No seal; tape on straps around cooler. 10-5-16 SW

Project Manager Review:

AMH for DM

Date:

10/5/16



GHD Field Sample Key (FSK)

Site Rhineland Landfill
 Sample Reason Annual
 Sampler Name Ryan Aamot
 Sampling Company GHD
 Laboratory(s) Pace

SSOW Refer

Sample ID	Location	Sample Date (mm/dd/yyyy)	Sample Time (hh:mm)	Sample Type	Sample Matrix	Grab or Composite
W-161003-RA-18	20C	10/3/2016	13:20	N	WG	grab
W-161003-RA-15	20A	10/3/2016	13:25	N	WG	grab
W-161003-RA-16	20B	10/3/2016	13:40	EB	WG	grab
W-161003-RA-17	20B	10/3/2016	13:40	N	WG	grab
W-161003-RA-09	16B	10/3/2016	14:16	N	WG	grab
W-161003-RA-10	16B	10/3/2016	14:16	FD	WG	grab
W-161003-RA-07	16A	10/3/2016	14:20	FB	WG	grab
W-161003-RA-08	16A	10/3/2016	14:20	N	WG	grab
W-161003-RA-11	16C	10/3/2016	14:45	N	WG	grab
W-161003-RA-22	26C	10/3/2016	15:10	N	WG	grab
W-161003-RA-21	26B	10/3/2016	15:25	N	WG	grab
W-161003-RA-12	18A	10/3/2016	15:55	N	WG	grab
W-161003-RA-13	18B	10/3/2016	16:15	N	WG	grab
W-161003-RA-14	18C	10/3/2016	15:58	N	WG	grab
W-161003-RA-06	5A	10/3/2016	16:50	N	WG	grab
W-161003-RA-05	4A	10/3/2016	17:15	N	WG	grab
W-161004-RA-23	27B	10/4/2016	8:10	N	WG	grab
W-161004-RA-24	28A	10/4/2016	8:30	N	WG	grab
W-161004-RA-20	25B	10/4/2016	9:08	N	WG	grab
W-161004-RA-19	21A	10/4/2016	10:00	N	WG	grab
W-161004-RA-04	3A	10/4/2016	10:20	N	WG	grab
W-161004-RA-01	2A	10/4/2016	10:45	N	WG	grab
W-161004-RA-02	2A	10/4/2016	10:45	FD	WG	grab

Key

	Required Field
	Populate When Appropriate
	Field Data



GHD Field Sample Key (FSK)

Site Rhineland Landfill
 Sample Reason Annual
 Sampler Name Ryan Aamot
 Sampling Company GHD
 Laboratory(s) Pace

SSOW Refer

W-161004-RA-03	2B	10/4/2016	11:15	N	WG	grab
W-161004-RA-100	SW20	10/4/2016	12:35	N	WS	grab
W-161004-RA-101	SW28	10/4/2016	12:45	N	WS	grab
W-161004-RA-102	SW10	10/4/2016	13:10	N	WS	grab

Footnotes

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Key

	Required Field
	Populate When Appropriate
	Field Data

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