We Energies
333 West Everett St., A231
Milwaukee, WI 53203

www.we-energies.com

May 23, 2023

Ms. Sarah Krueger
Water Resources Management Specialist
Remediation & Redevelopment Program
Wisconsin Dept. of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313

Subject: Transmittal of April 2023 Monitoring Well Sampling Results We Energies' Appleton MGP Site, WDNR ERP Case #02-45-000042, FID #445033380

Dear Ms. Krueger:

We Energies received final analytical results for monitoring wells and piezometers for our April 2023 semi-annual sampling event on the Fox River Mills Apartments property, located adjacent to the above referenced site. A copy of the notification to the property owner and associated summary report are attached.

Please do not hesitate to contact me at (414) 221-2156 or via email at frank.dombrowski@wecenergygroup.com if you have any questions or if further information may be required.

Sincerely,

Frank Dombrowski
Principal Environmental Consultant
WEC Energy Group - Business Services

Enclosures

Cc: Project File
A. Cawrse, Ramboll

RAMBOLL

ENVIRONMENT
& HEALTH

Mr. Frank Dombrowski
Principal Environmental Consultant
WEC Energy Group - Business Services
333 W. Everett Street, A231
Milwaukee, WI 53203
(via email)

April 2023 Sample Results Notification – Groundwater Results Collected in April 2023
Appleton City (Coal Tar), aka Appleton MGP
343 West Water Street, Appleton, Wisconsin
WDNR ERP Case #02-45-000042, FID #445033380

May 23, 2023

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA

T 414-837-3607
F 414-837-3608
www.ramboll.com

Dear Mr. Dombrowski:

This sample results notification letter for the Appleton City former manufactured gas plant (MGP) site located at 343 West Water Street in Appleton, Wisconsin (Figure 1) summarizes routine groundwater sampling activities that occurred in April 2023 at the property occupied by the Fox River Mills Apartments (Figure 1). Free product (oily material) was measured in PZ-26 and PZ-28. Groundwater samples were collected from monitoring wells and piezometers PZ-23, MW-26, MW-27, PZ-27, and MW-28 in accordance with the groundwater monitoring plan.

Groundwater monitoring wells PZ-23, PZ-26, PZ-27, and PZ-28 are screened within the shallow bedrock approximately 20 to 25 feet below ground surface. Consistent with previous monitoring events, free product was observed in PZ-26 (2.00 feet) and PZ-28 (trace amounts). Free product was not observed in any of the other wells. No attempt was made to recover free product during this sampling event. Groundwater analytical results (Table 1) collected from the remaining shallow bedrock wells are consistent with previous samples collected from these wells which indicate benzene and naphthalene in excess of the Wisconsin Department of Natural Resources (WDNR) preventive action limit (PAL) and/or enforcement standards (ES) in groundwater.

Groundwater monitoring wells MW-26, MW-27, and MW-28 are screened within the unlithified material above bedrock approximately 5 to 15 feet below ground surface. No free product was observed in any of these wells. Consistent with previous sampling events, groundwater analytical results indicate the presence of benzene, naphthalene, and iron in excess of the WDNR PAL and/or ES in groundwater.

The laboratory report containing groundwater results is included as Attachment A, and the results are summarized in Table 1. There are no indications that the observed groundwater impacts (or the presence of free product in wells with previous groundwater exceedances) are a recent occurrence or pose an immediate risk to the health of the occupants in the apartment building.

Sincerely,

Andrew G. Cawrse
Senior Project Scientist
D 414 837 3645
andrew.cawrse@ramboll.com

Attachments: Figure 1 – Site Features
Table 1 – Summary of Groundwater Results – Heartland-Appleton Fox River Mills
Attachment A – Laboratory Report

FIGURE 1

PLAN NORTH IS
N39° 11' 42"
OF TRUE NORTH

MW-20
PZ-20B
WISCONSIN ELECTRIC POWER CO
MW-22
PZ-22B
MW-21
PZ-21B
MW-24
FOX RIVER PAPER CO LLC
SG-3
MW-23
PZ-23
SS-2
SG-4
FOX RIVER PAPER CO LLC
MW-27
PZ-27
SS-3
SS-4
SS-1
SV-5
SV-4
SV-6
MW-28
SV-3
SV-2
SS-5
PZ-28
MW-26
PZ-26
SV-1

Service Layer Credits:

- SUB-SLAB SOIL GAS PROBE
- MONITORING WELL / PIEZOMETER
- STAFF GAUGE
- SOIL VAPOR PROBE
- FORMER MGP SITE PERIMETER
- POTENTIAL HISTORICAL NEEDLE DAM STRUCTURE
- TAX PARCEL AND OWNER
- BUILDING FOOTPRINT / CURB
- FENCE
- ELEVATOR SHAFT
- SHORELINE

0 37.5 75 Feet

SITE FEATURES

FORMER APPLETON MANUFACTURED GAS PLANT (MGP) FACILITY
WE ENERGIES
APPLETON, WISCONSIN

FIGURE 1

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

TABLE

Table 1. Summary of Groundwater Results - Heartland-Appleton Fox River Mills

April 2023 Sample Results Notification
We Energies, Appleton City (Coal Tar), aka Appleton MGP
WDNR ERP Case #02-45-000042
FID #445033380

		VOC							MNA							
Sample Location	Sample Date	Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes, m + p	Xylene, o	Total Xylenes[1]	Alkalinity, Total as CaCO3	Arsenic, Dissolved	Iron, Dissolved	Manganese, Dissolved	Methane	Nitrogen, NO2 plus NO3	Sulfate
Reporting Units:		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L
Wisconsin PAL:		0.5	140	10	160	NS	NS	400	NS	0.001	0.15	0.06	NS	2	125
Wisconsin ES:		**5**	**700**	**100**	**800**	**NS**	**NS**	**2,000**	**NS**	**0.01**	**0.3**	**0.3**	**NS**	**10**	**250**
MW-26	04/13/2023	**11.9**	0.33 U	22.1	0.29 U	0.70 U	1.1	1.1	370	**0.0929**	**2.22**	**0.389**	3300	0.059 U	11.1
MW-27	04/13/2023	**249**	69.5	**344**	1.4 U	6.1 J	9.3	15.4	229	0.007	**0.314 J**	0.0979	2390	0.080 J	8.1
MW-28	04/13/2023	0.30 U	0.33 U	1.9 U	0.29 U	0.70 U	0.35 U	1.05 U	214	**0.0325**	**1.26**	**0.522**	2010	0.059 U	35.2
PZ-23	04/13/2023	**313**	8.9	**284**	1.4 J	2.8 U	4.1	4.1	230	0.003	**0.597**	0.0723	3440	0.059 U	0.57 J
PZ-23 Dup	04/13/2023	**305**	9.5	**264**	1.3 J	2.5 J	3.9	6.4	231	0.0031	**0.594**	0.0728	3070	0.059 U	0.58 J
PZ-27	04/13/2023	**104**	10	**106**	0.72 U	4.3 J	8.2	12.5	221	0.0015 J	**1.11**	0.115	2160	0.059 U	4.8

[O:MGP 5/18/23, C:AGC 5/18/23]

NOTES:

Underlined	concentration that attains or exceeds WDNR PAL
Bold	concentration that attains or exceeds WDNR ES

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020.
Results that attain or exceed the PAL or ES are considered to be in exceedance.

< = Concentration is less than reported limit
µg/L = micrograms per liter
CaCO3 = Calcium carbonate
Dup = Quality Control Field Duplicate Sample
ES = Enforcement Standard
FID = Facility ID
J = Estimated concentration
mg/L = milligrams per liter
MGP = manufactured gas plant
MNA = Monitored Natural Attenuation
NO2 + NO3 = nitrite plus nitrate
NS = No Standard
PAL = Preventive Action Limit
U = Parameter not detected above the Limit of Detection indicated
VOC = Volatile Organic Compound
WDNR ERP = Wisconsin Department of Natural Resources Environmental Repair Program

1. Total Xylenes were calculated by Ramboll as follows:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, only the detected results were added together for the total summation.
   c. Analytes used for the calculation are Xylene-o and Xylenes-m+p.

Lab comments and definitions can be found in associated laboratory report.

ATTACHMENT A

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

May 01, 2023

Andrew Cawrse
Ramboll Americas
234 W Florida St
Milwaukee, WI 53204

RE: Project: APPLETON MGP
Pace Project No.: 40260814

Dear Andrew Cawrse:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Alex Bartelme, Ramboll
NRT Data, Ramboll
Elena Diazdeleon, WE Energies
Frank Dombrowski, WE Energies
Brian Hennings, Ramboll Americas
WE Energies Lab Reports, WE Energies
Evvan Plank, Ramboll

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: APPLETON MGP
Pace Project No.: 40260814

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: APPLETON MGP
Pace Project No.: 40260814

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40260814001	**MW-26**	Water	04/13/23 11:37	04/14/23 13:00
40260814002	**MW-28**	Water	04/13/23 12:30	04/14/23 13:00
40260814003	**PZ-27**	Water	04/13/23 13:04	04/14/23 13:00
40260814004	**MW-27**	Water	04/13/23 13:42	04/14/23 13:00
40260814005	**PZ-23**	Water	04/13/23 14:13	04/14/23 13:00
40260814006	**QAQC1**	Water	04/13/23 14:18	04/14/23 13:00

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: APPLETON MGP
Pace Project No.: 40260814

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40260814001	**MW-26**	EPA 8015B Modified	KHB	1
		EPA 6020B	KXS	3
		EPA 8260	CXJ	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40260814002	**MW-28**	EPA 8015B Modified	KHB	1
		EPA 6020B	KXS	3
		EPA 8260	CXJ	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40260814003	**PZ-27**	EPA 8015B Modified	KHB	1
		EPA 6020B	KXS	3
		EPA 8260	CXJ	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40260814004	**MW-27**	EPA 8015B Modified	KHB	1
		EPA 6020B	KXS	3
		EPA 8260	CXJ	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40260814005	**PZ-23**	EPA 8015B Modified	KHB	1
		EPA 6020B	KXS	3
		EPA 8260	CXJ	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40260814006	**QAQC1**	EPA 8015B Modified	KHB	1
		EPA 6020B	KXS	3
		EPA 8260	SMT	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: APPLETON MGP
Pace Project No.: 40260814

Lab ID	Sample ID	Method	Analysts	Analytes Reported

PASI-G = Pace Analytical Services - Green Bay

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

ANALYTICAL RESULTS

Project: APPLETON MGP
Pace Project No.: 40260814

Sample: MW-26 **Lab ID: 40260814001** Collected: 04/13/23 11:37 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**3300**	ug/L	56.0	11.5	20		04/21/23 13:33	74-82-8	
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**92.9**	ug/L	2.0	0.56	2	04/18/23 05:34	04/20/23 04:44	7440-38-2	
Iron, Dissolved	**2220**	ug/L	500	116	2	04/18/23 05:34	04/20/23 04:44	7439-89-6	
Manganese, Dissolved	**389**	ug/L	8.1	2.4	2	04/18/23 05:34	04/20/23 04:44	7439-96-5	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**11.9**	ug/L	1.0	0.30	1		04/20/23 17:23	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/20/23 17:23	100-41-4	
Naphthalene	**22.1**	ug/L	5.0	1.9	1		04/20/23 17:23	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/20/23 17:23	108-88-3	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/20/23 17:23	179601-23-1	
o-Xylene	**1.1**	ug/L	1.0	0.35	1		04/20/23 17:23	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%	70-130		1		04/20/23 17:23	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/20/23 17:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		04/20/23 17:23	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**11.1**	mg/L	10.0	2.2	5		04/28/23 13:10	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**370**	mg/L	25.0	7.4	1		04/26/23 14:57		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/18/23 13:07		

Sample: MW-28 **Lab ID: 40260814002** Collected: 04/13/23 12:30 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**2010**	ug/L	28.0	5.8	10		04/21/23 13:41	74-82-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: APPLETON MGP
Pace Project No.: 40260814

Sample: MW-28 **Lab ID: 40260814002** Collected: 04/13/23 12:30 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**32.5**	ug/L	2.0	0.56	2	04/18/23 05:34	04/20/23 04:51	7440-38-2	
Iron, Dissolved	**1260**	ug/L	500	116	2	04/18/23 05:34	04/20/23 04:51	7439-89-6	
Manganese, Dissolved	**522**	ug/L	8.1	2.4	2	04/18/23 05:34	04/20/23 04:51	7439-96-5	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		04/20/23 17:42	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		04/20/23 17:42	100-41-4	
Naphthalene	**<1.9**	ug/L	5.0	1.9	1		04/20/23 17:42	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		04/20/23 17:42	108-88-3	
m&p-Xylene	**<0.70**	ug/L	2.0	0.70	1		04/20/23 17:42	179601-23-1	
o-Xylene	**<0.35**	ug/L	1.0	0.35	1		04/20/23 17:42	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		04/20/23 17:42	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/20/23 17:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/20/23 17:42	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**35.2**	mg/L	10.0	2.2	5		04/28/23 13:25	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**214**	mg/L	25.0	7.4	1		04/26/23 14:58		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/18/23 13:08		

Sample: PZ-27 **Lab ID: 40260814003** Collected: 04/13/23 13:04 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**2160**	ug/L	28.0	5.8	10		04/21/23 13:48	74-82-8	
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**1.5J**	ug/L	2.0	0.56	2	04/18/23 05:34	04/20/23 04:58	7440-38-2	D3
Iron, Dissolved	**1110**	ug/L	500	116	2	04/18/23 05:34	04/20/23 04:58	7439-89-6	
Manganese, Dissolved	**115**	ug/L	8.1	2.4	2	04/18/23 05:34	04/20/23 04:58	7439-96-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: APPLETON MGP
Pace Project No.: 40260814

Sample: PZ-27 **Lab ID: 40260814003** Collected: 04/13/23 13:04 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**104**	ug/L	2.5	0.74	2.5		04/21/23 14:59	71-43-2	
Ethylbenzene	**10**	ug/L	2.5	0.81	2.5		04/21/23 14:59	100-41-4	
Naphthalene	**106**	ug/L	12.5	4.8	2.5		04/21/23 14:59	91-20-3	
Toluene	**<0.72**	ug/L	2.5	0.72	2.5		04/21/23 14:59	108-88-3	
m&p-Xylene	**4.3J**	ug/L	5.0	1.8	2.5		04/21/23 14:59	179601-23-1	
o-Xylene	**8.2**	ug/L	2.5	0.87	2.5		04/21/23 14:59	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%	70-130		2.5		04/21/23 14:59	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		2.5		04/21/23 14:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		2.5		04/21/23 14:59	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**4.8**	mg/L	2.0	0.44	1		04/28/23 13:40	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**221**	mg/L	25.0	7.4	1		04/26/23 14:59		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/18/23 13:09		

Sample: MW-27 **Lab ID: 40260814004** Collected: 04/13/23 13:42 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**2390**	ug/L	56.0	11.5	20		04/21/23 13:55	74-82-8	
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**7.0**	ug/L	2.0	0.56	2	04/18/23 05:34	04/20/23 05:06	7440-38-2	
Iron, Dissolved	**314J**	ug/L	500	116	2	04/18/23 05:34	04/20/23 05:06	7439-89-6	D3
Manganese, Dissolved	**97.9**	ug/L	8.1	2.4	2	04/18/23 05:34	04/20/23 05:06	7439-96-5	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**249**	ug/L	5.0	1.5	5		04/20/23 20:10	71-43-2	
Ethylbenzene	**69.5**	ug/L	5.0	1.6	5		04/20/23 20:10	100-41-4	
Naphthalene	**344**	ug/L	25.0	9.6	5		04/20/23 20:10	91-20-3	
Toluene	**<1.4**	ug/L	5.0	1.4	5		04/20/23 20:10	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: APPLETON MGP
Pace Project No.: 40260814

Sample: MW-27 **Lab ID: 40260814004** Collected: 04/13/23 13:42 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
m&p-Xylene	**6.1J**	ug/L	10.0	3.5	5		04/20/23 20:10	179601-23-1	
o-Xylene	**9.3**	ug/L	5.0	1.7	5		04/20/23 20:10	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%	70-130		5		04/20/23 20:10	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		5		04/20/23 20:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		5		04/20/23 20:10	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**8.1**	mg/L	2.0	0.44	1		04/28/23 14:54	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**229**	mg/L	25.0	7.4	1		04/26/23 15:00		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.080J**	mg/L	0.25	0.059	1		04/18/23 13:09		

Sample: PZ-23 **Lab ID: 40260814005** Collected: 04/13/23 14:13 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**3440**	ug/L	70.0	14.4	25		04/21/23 14:02	74-82-8	
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**3.0**	ug/L	2.0	0.56	2	04/18/23 05:34	04/20/23 05:28	7440-38-2	
Iron, Dissolved	**597**	ug/L	500	116	2	04/18/23 05:34	04/20/23 05:28	7439-89-6	
Manganese, Dissolved	**72.3**	ug/L	8.1	2.4	2	04/18/23 05:34	04/20/23 05:28	7439-96-5	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**313**	ug/L	4.0	1.2	4		04/19/23 09:38	71-43-2	
Ethylbenzene	**8.9**	ug/L	4.0	1.3	4		04/19/23 09:38	100-41-4	
Naphthalene	**284**	ug/L	20.0	7.7	4		04/19/23 09:38	91-20-3	
Toluene	**1.4J**	ug/L	4.0	1.2	4		04/19/23 09:38	108-88-3	
m&p-Xylene	**<2.8**	ug/L	8.0	2.8	4		04/19/23 09:38	179601-23-1	
o-Xylene	**4.1**	ug/L	4.0	1.4	4		04/19/23 09:38	95-47-6	
Surrogates									
Toluene-d8 (S)	108	%	70-130		4		04/19/23 09:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APPLETON MGP
Pace Project No.: 40260814

Sample: PZ-23 **Lab ID: 40260814005** Collected: 04/13/23 14:13 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-130		4		04/19/23 09:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		4		04/19/23 09:38	2199-69-1	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**0.57J**	mg/L	2.0	0.44	1		04/25/23 20:28	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**230**	mg/L	25.0	7.4	1		04/26/23 15:09		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/18/23 13:10		

Sample: QAQC1 **Lab ID: 40260814006** Collected: 04/13/23 14:18 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay								
Methane	**3070**	ug/L	70.0	14.4	25		04/21/23 14:09	74-82-8	
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**3.1**	ug/L	2.0	0.56	2	04/18/23 05:34	04/20/23 05:35	7440-38-2	
Iron, Dissolved	**594**	ug/L	500	116	2	04/18/23 05:34	04/20/23 05:35	7439-89-6	
Manganese, Dissolved	**72.8**	ug/L	8.1	2.4	2	04/18/23 05:34	04/20/23 05:35	7439-96-5	
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**305**	ug/L	2.5	0.74	2.5		04/18/23 16:15	71-43-2	
Ethylbenzene	**9.5**	ug/L	2.5	0.81	2.5		04/18/23 16:15	100-41-4	
Naphthalene	**264**	ug/L	12.5	4.8	2.5		04/18/23 16:15	91-20-3	
Toluene	**1.3J**	ug/L	2.5	0.72	2.5		04/18/23 16:15	108-88-3	
m&p-Xylene	**2.5J**	ug/L	5.0	1.8	2.5		04/18/23 16:15	179601-23-1	
o-Xylene	**3.9**	ug/L	2.5	0.87	2.5		04/18/23 16:15	95-47-6	
Surrogates									
Toluene-d8 (S)	108	%	70-130		2.5		04/18/23 16:15	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		2.5		04/18/23 16:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		2.5		04/18/23 16:15	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: APPLETON MGP
Pace Project No.: 40260814

Sample: QAQC1 **Lab ID: 40260814006** Collected: 04/13/23 14:18 Received: 04/14/23 13:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Sulfate	**0.58J**	mg/L	2.0	0.44	1		04/25/23 20:43	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**231**	mg/L	25.0	7.4	1		04/26/23 15:10		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		04/18/23 13:12		

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QUALITY CONTROL DATA

Project: APPLETON MGP
Pace Project No.: 40260814

QC Batch: 442961 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004, 40260814005, 40260814006

METHOD BLANK: 2543278 Matrix: Water
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004, 40260814005, 40260814006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.58	2.8	04/21/23 09:30	

LABORATORY CONTROL SAMPLE & LCSD: 2543279 2543280

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	24.6	26.9	86	94	80-120	9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2543281 2543282

Parameter	Units	40260813008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	668	143	143	712	987	31	223	12-198	32	26	M1,R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APPLETON MGP
Pace Project No.: 40260814

QC Batch: 442574
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020B MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004, 40260814005, 40260814006

METHOD BLANK: 2541063 Matrix: Water
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004, 40260814005, 40260814006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	04/20/23 02:31	
Iron, Dissolved	ug/L	<58.0	250	04/20/23 02:31	
Manganese, Dissolved	ug/L	<1.2	4.0	04/20/23 02:31	

LABORATORY CONTROL SAMPLE: 2541064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	250	263	105	80-120	
Iron, Dissolved	ug/L	10000	10600	106	80-120	
Manganese, Dissolved	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2541065 2541066

Parameter	Units	40260813008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	<0.56	250	250	262	263	105	105	75-125	0	20	
Iron, Dissolved	ug/L	<116	10000	10000	10400	10600	104	106	75-125	1	20	
Manganese, Dissolved	ug/L	95.1	250	250	355	357	104	105	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APPLETON MGP
Pace Project No.: 40260814

QC Batch: 442466
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260814005, 40260814006

METHOD BLANK: 2540778 Matrix: Water
Associated Lab Samples: 40260814005, 40260814006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	04/18/23 07:38	
Ethylbenzene	ug/L	<0.33	1.0	04/18/23 07:38	
m&p-Xylene	ug/L	<0.70	2.0	04/18/23 07:38	
Naphthalene	ug/L	<1.9	5.0	04/18/23 07:38	
o-Xylene	ug/L	<0.35	1.0	04/18/23 07:38	
Toluene	ug/L	<0.29	1.0	04/18/23 07:38	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	04/18/23 07:38	
4-Bromofluorobenzene (S)	%	110	70-130	04/18/23 07:38	
Toluene-d8 (S)	%	106	70-130	04/18/23 07:38	

LABORATORY CONTROL SAMPLE: 2540779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.2	102	70-130	
Ethylbenzene	ug/L	50	56.6	113	80-120	
m&p-Xylene	ug/L	100	111	111	70-130	
o-Xylene	ug/L	50	54.4	109	70-130	
Toluene	ug/L	50	54.3	109	80-120	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	
Toluene-d8 (S)	%			107	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2541897 2541898

Parameter	Units	40260812001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.30	50	50	53.0	52.6	106	105	70-130	1	20	
Ethylbenzene	ug/L	<0.33	50	50	59.4	57.7	119	115	80-121	3	20	
m&p-Xylene	ug/L	<0.70	100	100	114	111	114	111	70-130	3	20	
o-Xylene	ug/L	<0.35	50	50	57.6	56.2	115	112	70-130	2	20	
Toluene	ug/L	<0.29	50	50	57.0	55.2	114	110	80-120	3	20	
1,2-Dichlorobenzene-d4 (S)	%						96	96	70-130			
4-Bromofluorobenzene (S)	%						111	110	70-130			
Toluene-d8 (S)	%						108	106	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APPLETON MGP
Pace Project No.: 40260814

QC Batch: 442467
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004

METHOD BLANK: 2540780 Matrix: Water
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	04/20/23 12:44	
Ethylbenzene	ug/L	<0.33	1.0	04/20/23 12:44	
m&p-Xylene	ug/L	<0.70	2.0	04/20/23 12:44	
Naphthalene	ug/L	<1.9	5.0	04/20/23 12:44	
o-Xylene	ug/L	<0.35	1.0	04/20/23 12:44	
Toluene	ug/L	<0.29	1.0	04/20/23 12:44	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	04/20/23 12:44	
4-Bromofluorobenzene (S)	%	99	70-130	04/20/23 12:44	
Toluene-d8 (S)	%	96	70-130	04/20/23 12:44	

LABORATORY CONTROL SAMPLE: 2540781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	53.0	106	70-130	
Ethylbenzene	ug/L	50	51.7	103	80-120	
m&p-Xylene	ug/L	100	103	103	70-130	
o-Xylene	ug/L	50	50.5	101	70-130	
Toluene	ug/L	50	48.4	97	80-120	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2540782 2540783

Parameter	Units	40260813008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<3.0	1250	1250	1320	1340	106	107	70-130	1	20	
Ethylbenzene	ug/L	15.2	1250	1250	1300	1320	102	104	80-121	2	20	M1
m&p-Xylene	ug/L	8.1J	2500	2500	2560	2640	102	105	70-130	3	20	
o-Xylene	ug/L	6.6J	1250	1250	1260	1290	100	103	70-130	2	20	
Toluene	ug/L	<2.9	1250	1250	1200	1230	96	98	80-120	2	20	
1,2-Dichlorobenzene-d4 (S)	%						103	101	70-130			
4-Bromofluorobenzene (S)	%						98	97	70-130			
Toluene-d8 (S)	%						96	95	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APPLETON MGP
Pace Project No.: 40260814

QC Batch: 443244
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260814005, 40260814006

METHOD BLANK: 2544957 Matrix: Water
Associated Lab Samples: 40260814005, 40260814006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	04/25/23 19:59	

LABORATORY CONTROL SAMPLE: 2544958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2544959 2544960

Parameter	Units	40261231001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	81.6	100	100	183	182	101	100	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APPLETON MGP
Pace Project No.: 40260814

QC Batch: 443445
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004

METHOD BLANK: 2546051 Matrix: Water
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	04/28/23 11:26	

LABORATORY CONTROL SAMPLE: 2546052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2546053 2546054

Parameter	Units	40261283001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	53.9	100	100	149	143	95	89	90-110	4	15	M0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APPLETON MGP
Pace Project No.: 40260814

QC Batch: 443315 — Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 — Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004

METHOD BLANK: 2545399 Matrix: Water
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	25.0	04/26/23 14:31	

LABORATORY CONTROL SAMPLE: 2545400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	95.7	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2545401 2545402

Parameter	Units	40260813008 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	225	200	200	428	392	102	83	90-110	9	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2545403 2545404

Parameter	Units	40260814004 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	229	100	100	331	335	102	106	90-110	1	20	

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QUALITY CONTROL DATA

Project: APPLETON MGP
Pace Project No.: 40260814

QC Batch: 443316
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260814005, 40260814006

METHOD BLANK: 2545405 Matrix: Water
Associated Lab Samples: 40260814005, 40260814006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	25.0	04/26/23 15:07	

LABORATORY CONTROL SAMPLE: 2545406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	99.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2545407 2545408

Parameter	Units	40261087002 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	163	100	100	267	276	104	113	90-110	4	20	M0

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QUALITY CONTROL DATA

Project: APPLETON MGP
Pace Project No.: 40260814

QC Batch: 442595 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004, 40260814005, 40260814006

METHOD BLANK: 2541128 — Matrix: Water
Associated Lab Samples: 40260814001, 40260814002, 40260814003, 40260814004, 40260814005, 40260814006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	04/18/23 13:02	

LABORATORY CONTROL SAMPLE: 2541129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2541130 2541131

Parameter	Units	40260814005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.3	2.3	90	91	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2541132 2541133

Parameter	Units	40260835010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.3	2.4	91	94	90-110	2	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: APPLETON MGP
Pace Project No.: 40260814

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APPLETON MGP
Pace Project No.: 40260814

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40260814001	**MW-26**	EPA 8015B Modified	442961		
40260814002	**MW-28**	EPA 8015B Modified	442961		
40260814003	**PZ-27**	EPA 8015B Modified	442961		
40260814004	**MW-27**	EPA 8015B Modified	442961		
40260814005	**PZ-23**	EPA 8015B Modified	442961		
40260814006	**QAQC1**	EPA 8015B Modified	442961		
40260814001	**MW-26**	EPA 3010A	442574	EPA 6020B	442664
40260814002	**MW-28**	EPA 3010A	442574	EPA 6020B	442664
40260814003	**PZ-27**	EPA 3010A	442574	EPA 6020B	442664
40260814004	**MW-27**	EPA 3010A	442574	EPA 6020B	442664
40260814005	**PZ-23**	EPA 3010A	442574	EPA 6020B	442664
40260814006	**QAQC1**	EPA 3010A	442574	EPA 6020B	442664
40260814001	**MW-26**	EPA 8260	442467		
40260814002	**MW-28**	EPA 8260	442467		
40260814003	**PZ-27**	EPA 8260	442467		
40260814004	**MW-27**	EPA 8260	442467		
40260814005	**PZ-23**	EPA 8260	442466		
40260814006	**QAQC1**	EPA 8260	442466		
40260814001	**MW-26**	EPA 300.0	443445		
40260814002	**MW-28**	EPA 300.0	443445		
40260814003	**PZ-27**	EPA 300.0	443445		
40260814004	**MW-27**	EPA 300.0	443445		
40260814005	**PZ-23**	EPA 300.0	443244		
40260814006	**QAQC1**	EPA 300.0	443244		
40260814001	**MW-26**	EPA 310.2	443315		
40260814002	**MW-28**	EPA 310.2	443315		
40260814003	**PZ-27**	EPA 310.2	443315		
40260814004	**MW-27**	EPA 310.2	443315		
40260814005	**PZ-23**	EPA 310.2	443316		
40260814006	**QAQC1**	EPA 310.2	443316		
40260814001	**MW-26**	EPA 353.2	442595		
40260814002	**MW-28**	EPA 353.2	442595		
40260814003	**PZ-27**	EPA 353.2	442595		
40260814004	**MW-27**	EPA 353.2	442595		
40260814005	**PZ-23**	EPA 353.2	442595		
40260814006	**QAQC1**	EPA 353.2	442595		

Pace QC GW

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

60773-0423

40260814

Page: 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Ramboll	Report To:	Glasford, Duncan GDuncan@Ramboll.com	Attention	ACCOUNTS PAYABLE
Address:	415A S 3rd St.	Copy To:	ANDREW LEWIS	Company Name	WE ENERGIES
Milwaukee, WI 53204	ANDREW LEWIS			Address	333 W CHESTNUT ST MILWAUKEE, WI
Email:	dglasford@ramboll.com	Purchase Order #		Pace Quote:	
Phone:	262-719-4512 Fax:	Project Name:	Appleton MGP	Pace Project Manager:	brian.basten@pacelabs.com,
Requested Due Date		Project #:		Pace Profile #:	829 #1

Regulatory Agency

State / Location: WI

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	BTEX+NAP by 8260	Dissolved As,Fe,Mn 6020	Nitrate + Nitrite	Sulfate & Alkalinity	Methane by 8015B	Benzen+Nap 8260	Trip BLANK	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Y								
1	MW-26			4/13/23	1137				9	1	1	6							X	X	X	X	X			001
2	MW-28				1230																					002
3	PZ-27				1304																					003
4	MW-27				1342																					004
5	PZ-23				1417																					005
6	QAQC1				1418																					006
7	MW-24				1518																					
8	MW-19				1603																					
9	MW-25				1647																					
10	MW-12R				1721																					
11	PZ-12B				1806				3				3											X		
12	MW-13R				1852				9	1	1	1	6							X	X	X	X				

R.A 4/14/23

300

3 3 3 3 3 3 3 3 3 3 3 3

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Ramboll	4/4/23	1300			1320	0.5	Y	N	Y

Price Drop off

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brian Basten

SIGNATURE of SAMPLER: Brian Basten

DATE Signed: 4/14/23

Pace

QC: BW

67973-0423

40260814

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https //info.pacelabs.com/hubfs/pas-standard-terms pdf

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Ramboll	Report To:	~~Gleaford, Duncan~~ GDS DUNCAN GLEAFORD	Attention	ACCOUNTS PAYABLE
Address:	415A S 3rd St.	Copy To	ANDREW CAMPBELL	Company Name.	WE ENERGIES
Milwaukee, WI 53204				Address.	333 W EVERT ST MILWAUKEE WI
Email.	~~dgleaford~~@ramboll.com ANDREW CAMPBELL	Purchase Order #:		Pace Quote	
Phone:	262-719-4512 Fax.	Project Name:	Appleton MGP	Pace Project Manager	bnan basten@pacelabs com,
Requested Due Date:		Project #:		Pace Profile #:	829 #1

Regulatory Agency

State / Location: WI

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
																			BTEX+NAP by 8260 / Dissolved As,Fe,Mn 6020 / Nitrate + Nitrite / Sulfate & Alkalinity / Methane by 8015B / Benzen+Nap 8260 / Trip BLANK	
1	EB-QAQC 2	W	G	4/13/23	1837				9	3	1	1	6						X X X X X	
2	EB-01				1400				3				3						X	
3	TB-1				--				2				2						X	
4	MW-22			4/14/23	738				27	3	3	3	18						X X X X X	ADDIT. ONAK VOLS FOR MS/MSD
5	PZ-22B				831				3				3						X	
6	MW-21				901				9	1	1	1	6						X X X X X	
7	PZ-21B				930				3				3						X	
8	MW-20				952				9	1	1	1	6						X X X X X	
9	PZ-20B				1023				3				3						X	
10	MW-02R				1100				9	1	1	1	6						X X X X X	
11	EB-02	W	G		1130				3				3						X	
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Ramboll	4/14/23	1300		4/14/23	1300	0.5	Y	N	Y

PACE DROP OFF

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brendan Wirth

SIGNATURE of SAMPLER: [signature] DATE Signed: 4/14/23

Sample Preservation Receipt Form

Client Name: Ramboll

Project # 40260814

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

Lab Lot# of pH paper: 10D0722

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

Initial when completed:

Date/ Time:

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2
001																	6										
002																	6										
003																	6										
004																	6										
005																	6										
006																	6										
007																											
008																											
009																											
010																											
011																											
012																											
013																											
014																											
015																											
016																											
017																											
018																											
019																											
020																											

Pace Lab #	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001		X			X		2.5 / 5
002		X			X		2.5 / 5
003		X			X		2.5 / 5
004		X			X		2.5 / 5
005		X			X		2.5 / 5
006		X			X		2.5 / 5
007							2.5 / 5
008							2.5 / 5
009							2.5 / 5
010							2.5 / 5
011							2.5 / 5
012							2.5 / 5
013							2.5 / 5
014							2.5 / 5
015							2.5 / 5
016							2.5 / 5
017							2.5 / 5
018							2.5 / 5
019							2.5 / 5
020							2.5 / 5

RA 4-14-23

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm) : ☐Yes ☒No ☐N/A   *If yes look in headspace column

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

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40260814

40260814

Client Name: Ramboll

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

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 121 **Type of Ice:** Wet Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 0.5 /Corr: 0.0

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

Person examining contents:
Date: 4-4-23 /Initials: RA

Labeled By Initials: RA

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

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Page 2 of 2