



We Energies
333 West Everett St., A231
Milwaukee, WI 53203
www.we-energies.com

May 24, 2021

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 2021 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 2021 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,

A handwritten signature in black ink that reads 'Frank Dombrowski'.

Frank Dombrowski
Principal Environmental Consultant
WEC Energy Group - Business Services
Environmental Dept.

Enclosures

Cc: Project File
A. Cawrse, Ramboll



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Milwaukee, WI 53203
www.we-energies.com

May 24, 2021

Mr. Dean Bornemann
Area Manager
Oakbrook Corp.
111 E Water St., #300
Appleton, WI 54911

Subject: April 2021 Groundwater Sampling Results for Fox River Mills Properties

Dear Mr. Bornemann:

We Energies completed groundwater sampling at your property as part of routine semi-annual monitoring for the former manufactured gas plant (MGP) site located at 337 Water Street in Appleton, Wisconsin (Figure 1). The attached letter summarizes routine groundwater sampling activities that occurred in April 2021 located on the property occupied by the Fox River Mills Apartments (Figure 1 in the attached report).

Two wells (PZ-26 and PZ-28) contained evidence of free product (oily material) at thicknesses comparable to previous monitoring events. Due to small amount of material present, no attempt was made to recover free product during this sampling event and free product was not observed in other wells. Consistent with previous samples collected from the existing wells, presence of volatile organic compounds (VOCs), benzene, naphthalene, and metals including Arsenic, Manganese, and Iron in groundwater were present above the Wisconsin Department of Natural Resources (WDNR) Enforcement Standards (ES) and/or the WDNR preventative action limit (PAL).

The laboratory report containing groundwater results is included in Attachment A and the results are summarized in Table 1. There are no indications that the observed groundwater impacts are a recent occurrence or pose an immediate risk to the health of the occupants in the apartment building. However, the presence of free product will warrant further investigation and we plan to continue monitoring activities on your property consistent with the WDNR-approved Supplemental Site Investigation Plan and the access agreement.

We Energies appreciates your ongoing cooperation and assistance with this matter. Please feel free to contact me at your convenience at (414) 221-2156 or via email at frank.dombrowski@wecenergygroup.com with any questions or if further information may be needed.

Sincerely,

A handwritten signature in black ink that reads "Frank Dombrowski".

Frank Dombrowski
Principal Environmental Consultant
WEC Energy Group - Business Services
Environmental Dept.

Enclosures

Cc: Project File
S. Krueger, WDNR
A. Cawrse, Ramboll
Janet Smith, Heartland Properties, Inc.

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

**April 2021 Sample Results Notification – Groundwater Results
Collected in April 2021**

***Appleton City (Coal Tar), aka Appleton MGP
337 Water Street, Appleton, Wisconsin
WDNR ERP Case #02-45-000042, FID #445033380***

May 24, 2021

Dear Mr. Dombrowski:

This sample results notification letter for the Appleton City former manufactured gas plant (MGP) site located at 337 Water Street in Appleton, Wisconsin (Figure 1) summarizes routine groundwater sampling activities that occurred in April 2021 located on 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.

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

T 414-837-3607
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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 and PZ-28 (2.40 and 0.18 feet, respectively). 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) enforcement standards (ES) in groundwater.

Ref. 75502

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 ES in groundwater.

The laboratory report containing groundwater results is included in 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 Cawrse

Andrew G. Cawrse
Environmental 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



- ⊕ 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

SITE FEATURES

FIGURE 1

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

RAMBOLL US CORPORATION
 A RAMBOLL COMPANY



TABLE

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

April 2021 Sample Results Notification
 We Energies, Appleton City (Coal Tar), aka Appleton MGP
 WDNR ERP Case #02-45-000042
 FID #445033380

Sample Location	Sample Date	VOC						MNA							
		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:		<u>0.5</u>	<u>140</u>	<u>10</u>	<u>160</u>	NS	NS	<u>400</u>	NS	<u>0.001</u>	<u>0.15</u>	<u>0.06</u>	NS	<u>2</u>	<u>125</u>
Wisconsin ES:		5	700	100	800	NS	NS	2,000	NS	0.01	0.3	0.3	NS	10	250
MW-26	4/26/2021	<u>3.3</u>	0.33 U	1.1 U	0.29 U	0.70 U	0.35 U	1.05 U	554	0.0562	2.27	0.37	1390	0.059 U	26.3
MW-27	4/26/2021	285	70.2	523	1.9 J	6.6 J	10.5	17.1	229	<u>0.0054</u>	0.578	<u>0.0951</u>	1190	0.059 U	5.7
MW-28	4/26/2021	0.30 U	0.33 U	1.1 U	0.29 U	0.70 U	0.35 U	1.05 U	252	0.0253	1.52	0.58	1600	0.059 U	63.9
PZ-23	4/26/2021	290	21.1	425	2.9 U	7.0 U	5.3 J	5.3	228	<u>0.004</u>	0.334 J	0.0576	1880	0.059 U	1.5 J
PZ-23-Dup	4/26/2021	261	18.7	266	1.4 J	2.9 J	4.5	7.4	228	<u>0.004</u>	0.377 J	0.0572	2710	0.059 U	1.5 J
PZ-27	4/26/2021	154	19.5	233	1.8 J	6.0 J	8.7	14.7	224	<u>0.0018 J</u>	1.33	<u>0.113</u>	1450	0.059 U	0.59 J

[O:CMD 5/20/21; QC:LDH 5/21/21, C:AGC 5/21/21]

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

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

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

May 11, 2021

Frank Dombrowski
WE Energies
333 W. Everett St
Milwaukee, WI 53203

RE: Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

Dear Frank Dombrowski:

Enclosed are the analytical results for sample(s) received by the laboratory on April 27, 2021. 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
Brian Hennings, Ramboll Americas
WE Energies Lab Reports, WE Energies



REPORT OF LABORATORY ANALYSIS

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

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40225837

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

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

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SAMPLE SUMMARY

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40225837001	MW-26	Water	04/26/21 11:13	04/27/21 13:15
40225837002	MW-28	Water	04/26/21 11:50	04/27/21 13:15
40225837003	PZ-27	Water	04/26/21 12:45	04/27/21 13:15
40225837004	MW-27	Water	04/26/21 13:16	04/27/21 13:15
40225837005	PZ-23	Water	04/26/21 13:51	04/27/21 13:15
40225837006	QA/QC1	Water	04/26/21 13:56	04/27/21 13:15

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SAMPLE ANALYTE COUNT

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40225837001	MW-26	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	3
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40225837002	MW-28	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	3
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40225837003	PZ-27	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	3
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40225837004	MW-27	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	3
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40225837005	PZ-23	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	3
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1
40225837006	QA/QC1	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	3
		EPA 8260	LAP	9
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 353.2	DAW	1

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SAMPLE ANALYTE COUNT

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

Lab ID	Sample ID	Method	Analysts	Analytes Reported
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PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

Sample: MW-26 **Lab ID: 40225837001** Collected: 04/26/21 11:13 Received: 04/27/21 13:15 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	1390	ug/L	56.0	13.3	20		04/30/21 11:46	74-82-8	
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic, Dissolved	56.2	ug/L	2.0	0.56	2	04/28/21 06:07	05/04/21 08:30	7440-38-2	
Iron, Dissolved	2270	ug/L	500	116	2	04/28/21 06:07	05/04/21 08:30	7439-89-6	
Manganese, Dissolved	370	ug/L	8.1	2.4	2	04/28/21 06:07	05/04/21 08:30	7439-96-5	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	3.3	ug/L	1.0	0.30	1		04/29/21 08:40	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/29/21 08:40	100-41-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/29/21 08:40	91-20-3	
Toluene	<0.29	ug/L	1.0	0.29	1		04/29/21 08:40	108-88-3	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/29/21 08:40	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/29/21 08:40	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		04/29/21 08:40	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		04/29/21 08:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		04/29/21 08:40	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	26.3	mg/L	2.0	0.44	1		05/10/21 15:48	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	554	mg/L	124	37.2	5		04/30/21 13:59		
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		05/06/21 08:23		

Sample: MW-28 **Lab ID: 40225837002** Collected: 04/26/21 11:50 Received: 04/27/21 13:15 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	1600	ug/L	70.0	16.6	25		04/30/21 11:53	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

Sample: MW-28 **Lab ID: 40225837002** Collected: 04/26/21 11:50 Received: 04/27/21 13:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic, Dissolved	25.3	ug/L	2.0	0.56	2	04/28/21 06:07	05/04/21 08:37	7440-38-2	
Iron, Dissolved	1520	ug/L	500	116	2	04/28/21 06:07	05/04/21 08:37	7439-89-6	
Manganese, Dissolved	580	ug/L	8.1	2.4	2	04/28/21 06:07	05/04/21 08:37	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		04/29/21 08:59	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		04/29/21 08:59	100-41-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		04/29/21 08:59	91-20-3	
Toluene	<0.29	ug/L	1.0	0.29	1		04/29/21 08:59	108-88-3	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		04/29/21 08:59	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		04/29/21 08:59	95-47-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		04/29/21 08:59	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		04/29/21 08:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		04/29/21 08:59	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	63.9	mg/L	10.0	2.2	5		05/11/21 10:05	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	252	mg/L	24.8	7.4	1		04/30/21 12:49		
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		05/06/21 08:24		

Sample: PZ-27 **Lab ID: 40225837003** Collected: 04/26/21 12:45 Received: 04/27/21 13:15 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	1450	ug/L	70.0	16.6	25		04/30/21 12:00	74-82-8	
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic, Dissolved	1.8J	ug/L	2.0	0.56	2	04/28/21 06:07	05/04/21 08:44	7440-38-2	D3
Iron, Dissolved	1330	ug/L	500	116	2	04/28/21 06:07	05/04/21 08:44	7439-89-6	
Manganese, Dissolved	113	ug/L	8.1	2.4	2	04/28/21 06:07	05/04/21 08:44	7439-96-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

Sample: PZ-27 **Lab ID: 40225837003** Collected: 04/26/21 12:45 Received: 04/27/21 13:15 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	154	ug/L	5.0	1.5	5		04/29/21 00:13	71-43-2	
Ethylbenzene	19.5	ug/L	5.0	1.6	5		04/29/21 00:13	100-41-4	
Naphthalene	233	ug/L	25.0	5.6	5		04/29/21 00:13	91-20-3	
Toluene	1.8J	ug/L	5.0	1.4	5		04/29/21 00:13	108-88-3	
m&p-Xylene	6.0J	ug/L	10.0	3.5	5		04/29/21 00:13	179601-23-1	
o-Xylene	8.7	ug/L	5.0	1.7	5		04/29/21 00:13	95-47-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		5		04/29/21 00:13	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		5		04/29/21 00:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		5		04/29/21 00:13	2199-69-1	

300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	0.59J	mg/L	2.0	0.44	1		05/10/21 17:34	14808-79-8	

310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	224	mg/L	24.8	7.4	1		04/30/21 12:50		

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		05/06/21 08:25		

Sample: MW-27 **Lab ID: 40225837004** Collected: 04/26/21 13:16 Received: 04/27/21 13:15 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	1190	ug/L	70.0	16.6	25		04/30/21 12:07	74-82-8	
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic, Dissolved	5.4	ug/L	2.0	0.56	2	04/28/21 06:07	05/04/21 08:51	7440-38-2	
Iron, Dissolved	578	ug/L	500	116	2	04/28/21 06:07	05/04/21 08:51	7439-89-6	
Manganese, Dissolved	95.1	ug/L	8.1	2.4	2	04/28/21 06:07	05/04/21 08:51	7439-96-5	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	285	ug/L	5.0	1.5	5		04/29/21 00:32	71-43-2	
Ethylbenzene	70.2	ug/L	5.0	1.6	5		04/29/21 00:32	100-41-4	
Naphthalene	523	ug/L	25.0	5.6	5		04/29/21 00:32	91-20-3	
Toluene	1.9J	ug/L	5.0	1.4	5		04/29/21 00:32	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40225837

Sample: MW-27 **Lab ID: 40225837004** Collected: 04/26/21 13:16 Received: 04/27/21 13:15 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	6.6J	ug/L	10.0	3.5	5		04/29/21 00:32	179601-23-1	
o-Xylene	10.5	ug/L	5.0	1.7	5		04/29/21 00:32	95-47-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		5		04/29/21 00:32	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		5		04/29/21 00:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		5		04/29/21 00:32	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	5.7	mg/L	2.0	0.44	1		05/10/21 17:49	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	229	mg/L	24.8	7.4	1		04/30/21 12:51		
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		05/06/21 08:25		

Sample: PZ-23 **Lab ID: 40225837005** Collected: 04/26/21 13:51 Received: 04/27/21 13:15 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	1880	ug/L	70.0	16.6	25		04/30/21 12:14	74-82-8	
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	4.0	ug/L	2.0	0.56	2	04/28/21 06:07	05/04/21 09:11	7440-38-2	
Iron, Dissolved	334J	ug/L	500	116	2	04/28/21 06:07	05/04/21 09:11	7439-89-6	D3
Manganese, Dissolved	57.6	ug/L	8.1	2.4	2	04/28/21 06:07	05/04/21 09:11	7439-96-5	
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	290	ug/L	10.0	3.0	10		04/29/21 01:09	71-43-2	
Ethylbenzene	21.1	ug/L	10.0	3.3	10		04/29/21 01:09	100-41-4	
Naphthalene	425	ug/L	50.0	11.3	10		04/29/21 01:09	91-20-3	
Toluene	<2.9	ug/L	10.0	2.9	10		04/29/21 01:09	108-88-3	
m&p-Xylene	<7.0	ug/L	20.0	7.0	10		04/29/21 01:09	179601-23-1	
o-Xylene	5.3J	ug/L	10.0	3.5	10		04/29/21 01:09	95-47-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		10		04/29/21 01:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

Sample: PZ-23 Lab ID: 40225837005 Collected: 04/26/21 13:51 Received: 04/27/21 13:15 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)	108	%	70-130		10		04/29/21 01:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		10		04/29/21 01:09	2199-69-1	
300.0 IC Anions									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	1.5J	mg/L	2.0	0.44	1		05/10/21 18:03	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	228	mg/L	24.8	7.4	1		04/30/21 12:52		
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		05/06/21 08:26		

Sample: QA/QC1 Lab ID: 40225837006 Collected: 04/26/21 13:56 Received: 04/27/21 13:15 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	2710	ug/L	28.0	6.6	10		04/30/21 12:21	74-82-8	
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic, Dissolved	4.0	ug/L	2.0	0.56	2	04/28/21 06:07	05/04/21 09:18	7440-38-2	
Iron, Dissolved	337J	ug/L	500	116	2	04/28/21 06:07	05/04/21 09:18	7439-89-6	D3
Manganese, Dissolved	57.2	ug/L	8.1	2.4	2	04/28/21 06:07	05/04/21 09:18	7439-96-5	
8260 MSV UST									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	261	ug/L	2.0	0.59	2		04/29/21 00:50	71-43-2	
Ethylbenzene	18.7	ug/L	2.0	0.65	2		04/29/21 00:50	100-41-4	
Naphthalene	266	ug/L	10.0	2.3	2		04/29/21 00:50	91-20-3	
Toluene	1.4J	ug/L	2.0	0.58	2		04/29/21 00:50	108-88-3	
m&p-Xylene	2.9J	ug/L	4.0	1.4	2		04/29/21 00:50	179601-23-1	
o-Xylene	4.5	ug/L	2.0	0.70	2		04/29/21 00:50	95-47-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		2		04/29/21 00:50	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		2		04/29/21 00:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		2		04/29/21 00:50	2199-69-1	

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ANALYTICAL RESULTS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40225837

Sample: QA/QC1 **Lab ID: 40225837006** Collected: 04/26/21 13:56 Received: 04/27/21 13:15 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	1.5J	mg/L	2.0	0.44	1		05/10/21 18:18	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO ₃	228	mg/L	24.8	7.4	1		04/30/21 12:53		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO ₂ plus NO ₃	<0.059	mg/L	0.25	0.059	1		05/06/21 08:31		

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

QC Batch: 383913 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: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005, 40225837006

METHOD BLANK: 2214605 Matrix: Water
Associated Lab Samples: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005, 40225837006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.66	2.8	04/30/21 07:25	

LABORATORY CONTROL SAMPLE & LCSD: 2214606 2214607

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	27.9	27.9	98	98	80-121	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2214962 2214963

Parameter	Units	40225931008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	<0.66	28.6	28.6	95.5	103	334	359	10-200	7	20	M1

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

QC Batch: 383646 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005, 40225837006

METHOD BLANK: 2213052 Matrix: Water
Associated Lab Samples: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005, 40225837006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	05/04/21 06:28	
Iron, Dissolved	ug/L	<58.0	250	05/04/21 06:28	
Manganese, Dissolved	ug/L	<1.2	4.0	05/04/21 06:28	

LABORATORY CONTROL SAMPLE: 2213053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	486	97	80-120	
Iron, Dissolved	ug/L	5000	4460	89	80-120	
Manganese, Dissolved	ug/L	500	441	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2213054 2213055

Parameter	Units	40225831007 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	6.0	500	500	501	500	99	99	75-125	0	20	
Iron, Dissolved	ug/L	152J	5000	5000	4680	4810	91	93	75-125	3	20	
Manganese, Dissolved	ug/L	48.8	500	500	502	507	91	92	75-125	1	20	

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40225837

QC Batch:	383664	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005, 40225837006

METHOD BLANK: 2213127 Matrix: Water
Associated Lab Samples: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005, 40225837006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.30	1.0	04/28/21 17:05	
Ethylbenzene	ug/L	<0.33	1.0	04/28/21 17:05	
m&p-Xylene	ug/L	<0.70	2.0	04/28/21 17:05	
Naphthalene	ug/L	<1.1	5.0	04/28/21 17:05	
o-Xylene	ug/L	<0.35	1.0	04/28/21 17:05	
Toluene	ug/L	<0.29	1.0	04/28/21 17:05	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	04/28/21 17:05	
4-Bromofluorobenzene (S)	%	108	70-130	04/28/21 17:05	
Toluene-d8 (S)	%	101	70-130	04/28/21 17:05	

LABORATORY CONTROL SAMPLE: 2213128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	55.2	110	70-132	
Ethylbenzene	ug/L	50	55.9	112	80-123	
m&p-Xylene	ug/L	100	109	109	70-130	
o-Xylene	ug/L	50	54.5	109	70-130	
Toluene	ug/L	50	53.0	106	80-121	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2214209 2214210

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40225837002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Benzene	ug/L	<0.30	50	50	53.1	53.0	106	106	70-132	0	20	
Ethylbenzene	ug/L	<0.33	50	50	55.0	56.0	110	112	80-123	2	20	
m&p-Xylene	ug/L	<0.70	100	100	106	109	106	109	70-130	2	20	
o-Xylene	ug/L	<0.35	50	50	53.5	54.7	107	109	70-130	2	20	
Toluene	ug/L	<0.29	50	50	52.1	54.1	104	108	80-121	4	20	
1,2-Dichlorobenzene-d4 (S)	%						102	101	70-130			
4-Bromofluorobenzene (S)	%						112	111	70-130			
Toluene-d8 (S)	%						102	103	70-130			

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40225837

QC Batch: 384631 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005, 40225837006

METHOD BLANK: 2218891 Matrix: Water
 Associated Lab Samples: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005, 40225837006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	05/10/21 10:32	

LABORATORY CONTROL SAMPLE: 2218892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2218893 2218894

Parameter	Units	2218893		2218894		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40225835002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Sulfate	mg/L	249	400	400	665	674	104	106	90-110	1	15	

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

QC Batch: 383846 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: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005, 40225837006

METHOD BLANK: 2214081 Matrix: Water
Associated Lab Samples: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005, 40225837006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	24.8	04/30/21 12:24	

LABORATORY CONTROL SAMPLE: 2214082

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2214083 2214084

Parameter	Units	40225831007		2214083		2214084		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Alkalinity, Total as CaCO3	mg/L	409	200	200	200	608	610	99	100	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2214085 2214086

Parameter	Units	40225837006		2214085		2214086		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Alkalinity, Total as CaCO3	mg/L	228	100	100	100	327	328	99	100	90-110	0	20	

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

QC Batch: 384414 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: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005

METHOD BLANK: 2217519 Matrix: Water
Associated Lab Samples: 40225837001, 40225837002, 40225837003, 40225837004, 40225837005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	05/06/21 08:07	

LABORATORY CONTROL SAMPLE: 2217520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2217521 2217522

Parameter	Units	40225831007		2217521		2217522		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.6	2.6	104	103	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2217523 2217524

Parameter	Units	40225837005		2217523		2217524		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.6	2.6	102	103	90-110	1	20

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QUALITY CONTROL DATA

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

QC Batch: 384415 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: 40225837006

METHOD BLANK: 2217525 Matrix: Water
Associated Lab Samples: 40225837006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	05/06/21 08:30	

LABORATORY CONTROL SAMPLE: 2217526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2217527 2217528

Parameter	Units	1057246004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.5	2.5	100	99	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2217529 2217530

Parameter	Units	10557513003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.4	2.4	97	97	90-110	0	20		

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QUALIFIERS

Project: 67973.200.038 APPLETON FMR MGP

Pace Project No.: 40225837

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.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 67973.200.038 APPLETON FMR MGP
Pace Project No.: 40225837

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40225837001	MW-26	EPA 8015B Modified	383913		
40225837002	MW-28	EPA 8015B Modified	383913		
40225837003	PZ-27	EPA 8015B Modified	383913		
40225837004	MW-27	EPA 8015B Modified	383913		
40225837005	PZ-23	EPA 8015B Modified	383913		
40225837006	QA/QC1	EPA 8015B Modified	383913		
40225837001	MW-26	EPA 3010	383646	EPA 6020	383725
40225837002	MW-28	EPA 3010	383646	EPA 6020	383725
40225837003	PZ-27	EPA 3010	383646	EPA 6020	383725
40225837004	MW-27	EPA 3010	383646	EPA 6020	383725
40225837005	PZ-23	EPA 3010	383646	EPA 6020	383725
40225837006	QA/QC1	EPA 3010	383646	EPA 6020	383725
40225837001	MW-26	EPA 8260	383664		
40225837002	MW-28	EPA 8260	383664		
40225837003	PZ-27	EPA 8260	383664		
40225837004	MW-27	EPA 8260	383664		
40225837005	PZ-23	EPA 8260	383664		
40225837006	QA/QC1	EPA 8260	383664		
40225837001	MW-26	EPA 300.0	384631		
40225837002	MW-28	EPA 300.0	384631		
40225837003	PZ-27	EPA 300.0	384631		
40225837004	MW-27	EPA 300.0	384631		
40225837005	PZ-23	EPA 300.0	384631		
40225837006	QA/QC1	EPA 300.0	384631		
40225837001	MW-26	EPA 310.2	383846		
40225837002	MW-28	EPA 310.2	383846		
40225837003	PZ-27	EPA 310.2	383846		
40225837004	MW-27	EPA 310.2	383846		
40225837005	PZ-23	EPA 310.2	383846		
40225837006	QA/QC1	EPA 310.2	383846		
40225837001	MW-26	EPA 353.2	384414		
40225837002	MW-28	EPA 353.2	384414		
40225837003	PZ-27	EPA 353.2	384414		
40225837004	MW-27	EPA 353.2	384414		
40225837005	PZ-23	EPA 353.2	384414		
40225837006	QA/QC1	EPA 353.2	384415		

REPORT OF LABORATORY ANALYSIS

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67973.6426.ccl



CHAIN-OF-CUSTODY / Analytical Request Document

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

4022.5837

Page: 1 Of 2

QA: Dean

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Ramboll	Report To: <i>David Nathan</i>		Attention: <i>Accounts Payable</i>		
Address: 234 W. Florida St, 5th Floor 333 <i>Everest St</i>	Copy To: <i>Brian Henry</i>		Company Name: WE Energies		
Milwaukee, WI 53204	Purchase Order #:		Address: <i>333 W. Everest St. Milwaukee, WI</i>		Regulatory Agency
Email: <i>Nathan.duda@ramboll.com</i>	Project Name: Appleton MGP		Pace Quote:		
Phone: 262-719-4512	Project #: <i>67973</i>		Pace Project Manager: <i>brian.basten@pacelabs.com</i>		State / Location
Requested Due Date:	Project Profile #: 829				WI

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test Y/N	Requested Analyses Filtered (Y/N)							Residual Chlorine (Y/N)		
						START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol		Other	BTEX by B260	Metals	Nitrate + Nitrite	Sulfate & Alkalinity	Methane by 8015B	Benzene & Naphthalene		Trip BLANK	
1	MW-26	WT	G			4-26	1113		9	X	X	X	X							X	X	X	X	X		N	001	001	3
2	MW-28						1150		9	X	X	X	X							X	X	X	X	X			002	002	3
3	PZ-27						1245		9	X	X	X	X							X	X	X	X	X			003	003	3
4	MW-27						1316		9	X	X	X	X							X	X	X	X	X			004	004	3
5	PZ-23						1351		9	X	X	X	X							X	X	X	X	X			005	005	3
6	QA/QCI						1356		9	X	X	X	X							X	X	X	X	X			006	006	3
7	MW-24						1448		9	X	X	X	X							X	X	X	X	X			007	007	2
8	MW-19						1537		9	X	X	X	X							X	X	X	X	X			008	008	2
9	MW-25						1622		9	X	X	X	X							X	X	X	X	X			009	009	1
10	MW-12R						1653		9	X	X	X	X							X	X	X	X	X			010	010	1
11	PZ-12B						1724		3				X										X				011	011	1
12	MW-13R						1747		9	X	X	X	X							X	X	X	X	X			012	012	1

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	<i>ZD</i>	<i>1 Ramboll</i>	<i>4-27-21</i>	<i>1315</i>	<i>Mobile</i>	<i>1315</i>	<i>35</i>	<i>T</i>	<i>N</i>	<i>4</i>

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Impact (Y/N)
PRINT Name of SAMPLER:	<i>Nate Duda / Ramboll</i>				
SIGNATURE of SAMPLER:	<i>N Duda</i>	DATE Signed:	<i>4-27-21</i>		

Sample Preservation Receipt Form

Client Name: Ramboll

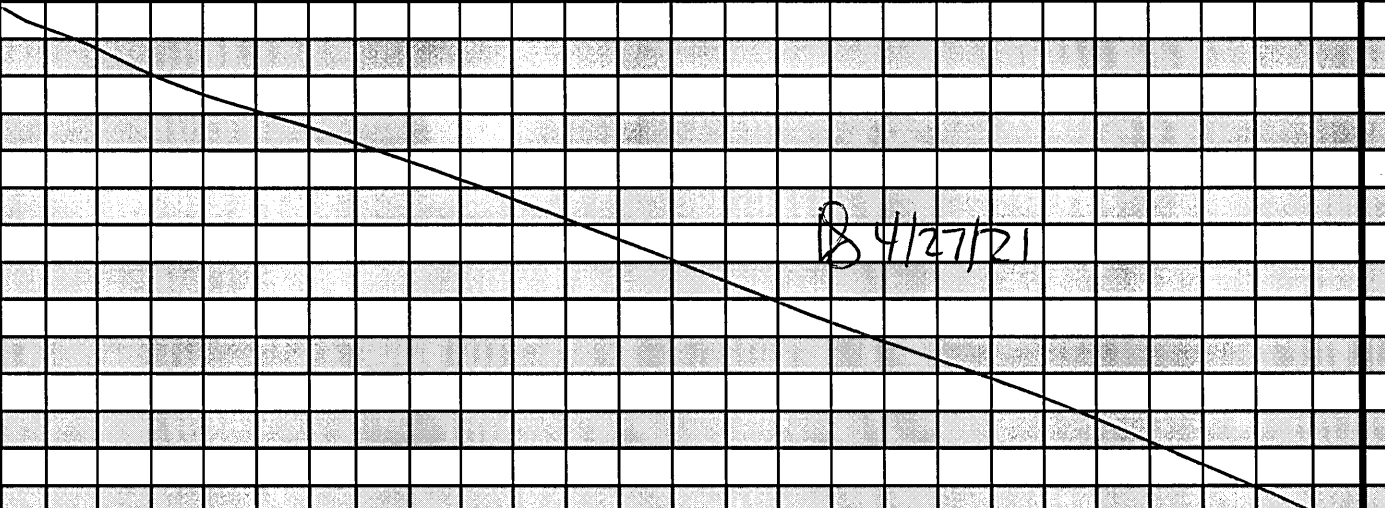
Project # 40225837
40225837

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

Initial when completed: R Date/Time:

Lab Lot# of pH paper: 10D31001

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

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)																																			
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WG9U	WPFU	SP5T								ZPLC	GN																																	
001									-	-	-	-			6											X				X		2.5 / 5 / 10																																		
002									-	-	-	-			6											X				X		2.5 / 5 / 10																																		
003									-	-	-	-			6											X				X		2.5 / 5 / 10																																		
004									-	-	-	-			6											X				X		2.5 / 5 / 10																																		
005									-	-	-	-			6											X				X		2.5 / 5 / 10																																		
006									-	-	-	-			6											X				X		2.5 / 5 / 10																																		
007	 8/27/21																																																																	2.5 / 5 / 10
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Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JG9U	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WG9U	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						




Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: Ramboll

WO# : 40225837



40225837

Courier: CS Logistics Fed Ex Speedee UPS Walto
 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 - 103 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 /ICorr: 3.5

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

Person examining contents:	
Date: <u>4/27/21</u>	Initials: <u>KS</u>
Labeled By Initials: <u>VL</u>	

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

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

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

Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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