



We Energies
231 W. Michigan St.
Milwaukee, WI 53203
www.we-energies.com

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MAY 19 2017

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REVIEWED 4B

May 17, 2017

Ms. Jennifer Borski
Hydrogeologist
Remediation & Redevelopment Program
Wisconsin Dept. of Natural Resources
625 E. Cty. Road Y, Ste. 700
Oshkosh, WI 54901

**Subject: Transmittal April, 2017 Monitoring Well Sampling Results
We Energies' Appleton MGP Site, FID #445033380; BRRTS #02-45-000042**

Dear Ms. Borski:

We Energies recently received final analytical results for monitoring wells and piezometers for our April, 2017 quarterly 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@we-energies.com if you have any questions or if further information may be required.

Sincerely,

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

Attachments

CC: Project File
W. Musekamp, We Energies
B. Hennings, NRT



We Energies
231 W. Michigan St.
Milwaukee, WI 53203
www.we-energies.com

May 17, 2017

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

Subject: Transmittal of May, 2017 Groundwater Sampling Results for Fox River Mills Properties

Dear Mr. Bornemann:

We Energies recently completed groundwater sampling at your property as part of routine quarterly monitoring for the former manufactured gas plant (MGP) site located at 337 Water St., Appleton WI. The results of this sampling are summarized in the attached report and summary tables.

Two wells (PZ-26 and PZ-28) contained evidence of free product (oily material). Consistent with previous samples collected from existing wells, the presence of volatile organic chemicals (VOCs), naphthalene and metals were present in groundwater at levels above Wisconsin Department of Natural Resources (WDNR) enforcement standards (ESs) in several locations (Table 1). The final laboratory results for the groundwater sampling conducted on your property are also included in the attachment.

As reported previously, there is no indication that the observed groundwater impacts have changed significantly, are a recent occurrence or pose any immediate risk to the health of the occupants of the building or to the environment. However, the presence of free product will warrant further investigation and we plan to continue quarterly 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@we-energies.com with any questions or if further information may be needed.

Sincerely,

A handwritten signature in black ink, appearing to read 'Frank Dombrowski', written over a horizontal line.

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

Attachments

Cc: Project File
J. Borski, WDNR
W. Musekamp, We Energies
B. Hennings, NRT
Janet Smith, Heartland Properties, Inc.



ENVIRONMENTAL CONSULTANTS

234 W. FLORIDA STREET, FIFTH FLOOR
MILWAUKEE, WISCONSIN 53204
(P) 414.837.3607
(F) 414.837.3608

Mr. Frank Dombrowski
WBS Business Services, We Energies
333 W Everett Street, A231
Milwaukee, WI 53203

May 8, 2017
(1508)

RE: **May 2017 Sample Results Notification**
Groundwater results collected in April 2017
Appleton City (Coal Tar), aka Appleton MGP
337 Water Street, Appleton, Wisconsin
WDNR ERP Case #02-45-000042
FID #445033380

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 2017 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 and groundwater samples were collected from monitoring wells and piezometers PZ-23, MW-26, MW-27, PZ-27, and MW-28 in accordance with the 2017 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. Approximately 4 to 5 feet of free product was observed in PZ-26. Approximately 1 foot of free product was observed in PZ-28. No free product was recovered from either well, because the pump was not functioning properly (free product recovery will resume during the next quarterly sampling event). Free product was not observed in any of the other wells. Groundwater analytical results (Table 1) collected from the remaining shallow bedrock wells are consistent with previous samples collected from these wells which indicate benzene, naphthalene, iron, and manganese in excess of the Wisconsin Department of Natural Resources (WDNR) 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. Groundwater analytical results indicate the presence of benzene, naphthalene, and metals 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.

Mr. Frank Dombrowski
May 8, 2017
Page 2



Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

A handwritten signature in black ink, appearing to read "B. Hennings", written over a horizontal line.

Brian G. Hennings, PG
Hydrogeologist

"I, Brian G. Hennings, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

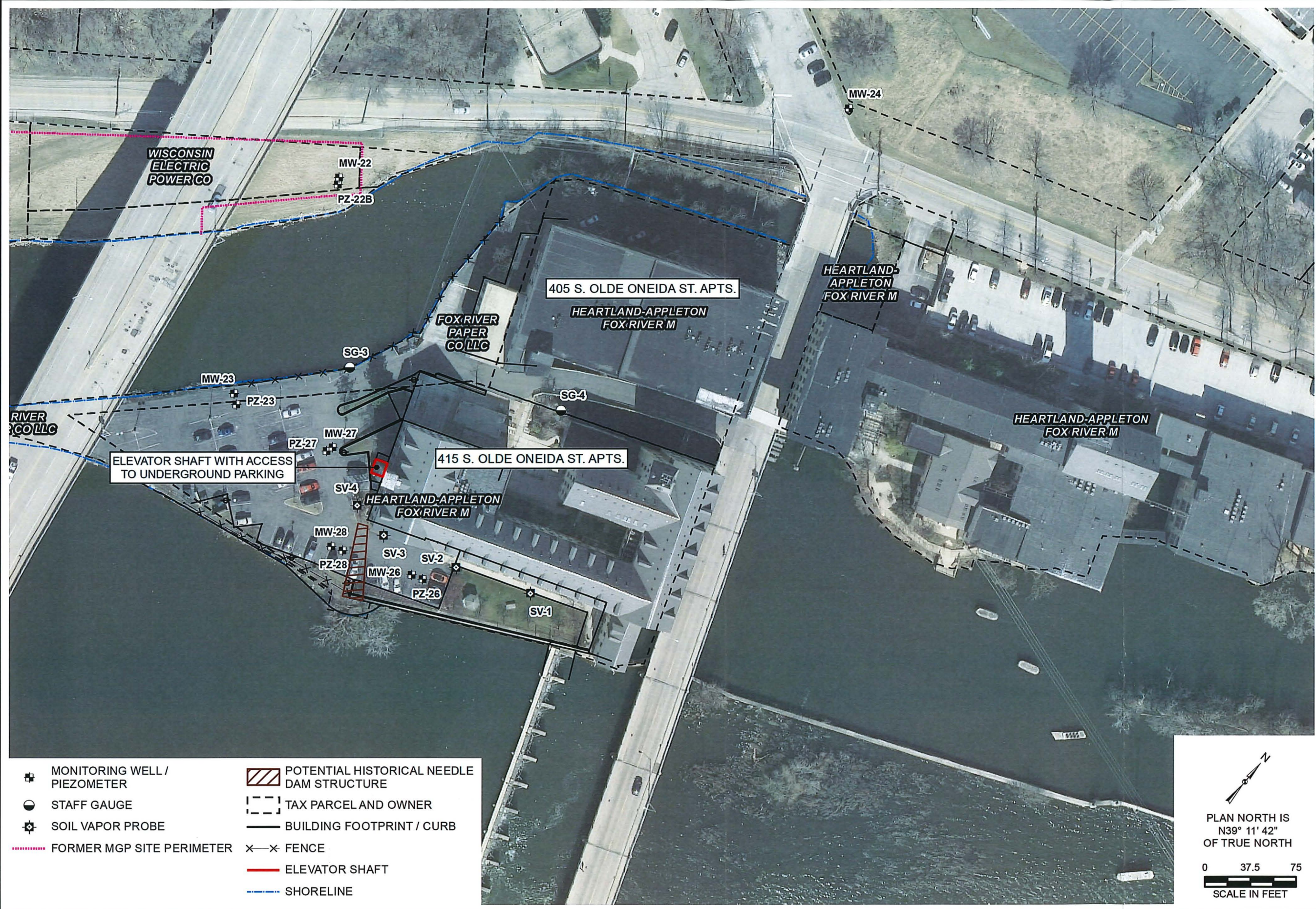
Attachments:

Figure 1	Site Features
Table 1	Summary of Groundwater Results
Table 2	Sample Key
Attachment A	Laboratory Report



FIGURES

Y:\GIS\Projects\151508M\XDSS\WP\Figure 1_Site Features.mxd Author: tcushman Date/Time: 5/21/2015, 11:19:13 AM



DRAWN BY/DATE:
TDC 5/21/15
REVIEWED BY/DATE:
BGH 5/21/15
APPROVED BY/DATE:
BGH 5/21/15

SITE FEATURES

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

PROJECT NO: 1508

FIGURE NO: 1



TABLES

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

April 2017 Sample Results Notification
 We Energies, Appleton City (Coal Tar), aka Appleton MGP
 WDNR ERP Case #02-45-000042

Sample Location	Sample Date	BTEX						VOC	Metal			Inorganic			
		Benzene	Ethylbenzene	Toluene	Xylenes, m + p	Xylene, o	Xylenes, Total	Naphthalene	Arsenic, Dissolved	Iron, Dissolved	Manganese, Dissolved	Alkalinity, Total	Methane	Nitrate, Nitrogen, Total	Sulfate, Total
Reporting Units:		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(µg/L)	(mg/L)	(mg/L)
WDNR PAL:		<u>0.5</u>	<u>140</u>	<u>160</u>	NS	NS	<u>400</u>	<u>10</u>	<u>1</u>	<u>150</u>	<u>25</u>	NS	NS	<u>2</u>	<u>125</u>
WDNR ES:		5	700	800	NS	NS	2,000	100	10	300	50	NS	NS	10	250
MW-26	04/20/2017	<u>24.7</u>	< 0.50 U	< 0.50 U	< 1.0 U	0.95 J	1.6 J	<u>10</u>	<u>85.9</u>	<u>2,610</u>	<u>282</u>	387	5980	< 0.075 U	43.7
MW-27	04/20/2017	<u>569</u>	94.4	2.8 J	9.1 J	14.2	23.3	<u>620</u>	<u>6.9</u>	<u>1,030</u>	<u>97.4</u>	225	2120	< 0.075 U	6.2
MW-28	04/20/2017	< 0.50 U	< 0.50 U	< 0.50 U	< 1.0 U	< 0.50 U	< 1.5 U	< 2.5 U	<u>32.3</u>	<u>1,370</u>	<u>465</u>	198	2400	< 0.075 U	12.8
PZ-23	04/20/2017	<u>819</u>	55.4	< 5.0 U	< 10.0 U	10.9	19.0 J	<u>507</u>	<u>6.8</u>	<u>344</u>	<u>75.6</u>	213	--	< 0.075 U	6.6
PZ-27	04/20/2017	<u>506</u>	45.7	< 5.0 U	< 10.0 U	11.5	18.8 J	<u>438</u>	<u>3.5</u>	<u>840</u>	<u>109</u>	224	2150	< 0.075 U	2.9 J

[O:ECK 5/4/17 C:KLS 5/4/17; C: SRB 5/5/17]

NOTES:

Italic underline value exceeds the Preventative Action Limit

BOLD Value exceeds the Enforcement Standard

U = Parameter not detected above the Limit of Detection indicated

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

< = Concentration is less than reported limit

-- = Analysis not performed

Definitions for additional data qualifiers can be found in associated laboratory reports

BTEX = benzene, toluene, ethylbenzene and xylenes

VOC = Volatile Organic Compound

mg/L = milligrams per liter

µg/L = micrograms per liter

MGP = manufactured gas plant

WDNR = Wisconsin Department of Natural Resources

ES = Enforcement Standard

PAL = Preventive Action Limit

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective July 2015.

NS = No Standard



2. Sample Key for Heartland-Appleton Fox River Mills

April 2017 Sample Results Notification

We Energies, Appleton City (Coal Tar), aka Appleton MGP

WDNR ERP Case #02-45-000042

PACE Lab_Report	Location ID_Name	Matrix	Date
40148670	MW-26	Groundwater	04/20/2017
40148670	MW-27	Groundwater	04/20/2017
40148670	MW-28	Groundwater	04/20/2017
40148670	PZ-23	Groundwater	04/20/2017
40148670	PZ-27	Groundwater	04/20/2017

[O:ECK 5/4/17 C:KLS 5/4/17; C: SRB 5/5/17]

Notes:

Sorted by: Location Name

MGP = manufactured gas plant

LABORATORY DATA REPORTS

May 04, 2017

David Kollakowsky
We Energies
333 W. Everett St
Room P129
Milwaukee, WI 532012179

RE: Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

Dear David Kollakowsky:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: Frank Dombrowski, WE Energies
Brian Hennings, NATURAL RESOURCE TECHNOLOGY



REPORT OF LABORATORY ANALYSIS

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

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40148670015	MW-26	Water	04/20/17 10:15	04/20/17 12:18
40148670016	MW-27	Water	04/20/17 08:44	04/20/17 12:18
40148670017	MW-28	Water	04/20/17 09:39	04/20/17 12:18
40148670018	PZ-23	Water	04/20/17 08:14	04/20/17 12:18
40148670019	PZ-27	Water	04/20/17 09:06	04/20/17 12:18

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SAMPLE ANALYTE COUNT

Project: W-1272-000003 APPLETON MGP

Pace Project No.: 40148670

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40148670015	MW-26	EPA 8015B Modified	ALD	1
		EPA 6020	DS1	3
		EPA 8260	MDS	10
		EPA 300.0	HMB	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40148670016	MW-27	EPA 8015B Modified	ALD	1
		EPA 6020	DS1	3
		EPA 8260	MDS	10
		EPA 300.0	HMB	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40148670017	MW-28	EPA 8015B Modified	ALD	1
		EPA 6020	DS1	3
		EPA 8260	MDS	10
		EPA 300.0	HMB	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40148670018	PZ-23	EPA 6020	DS1	3
		EPA 8260	MDS	10
		EPA 300.0	HMB	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 8015B Modified	ALD	1
40148670019	PZ-27	EPA 6020	DS1	3
		EPA 8260	MDS	10
		EPA 300.0	HMB	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 8015B Modified	ALD	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

Sample: MW-26 Lab ID: 40148670015 Collected: 04/20/17 10:15 Received: 04/20/17 12:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	5980	ug/L	112	54.8	40		04/21/17 10:48	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Arsenic, Dissolved	85.9	ug/L	1.0	0.099	1	04/26/17 08:41	04/27/17 10:49	7440-38-2	
Iron, Dissolved	2610	ug/L	250	10.0	1	04/26/17 08:41	04/27/17 10:49	7439-89-6	
Manganese, Dissolved	282	ug/L	1.0	0.18	1	04/26/17 08:41	04/27/17 10:49	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	24.7	ug/L	1.0	0.50	1		04/21/17 14:07	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/21/17 14:07	100-41-4	
Naphthalene	10.0	ug/L	5.0	2.5	1		04/21/17 14:07	91-20-3	
Toluene	<0.50	ug/L	1.0	0.50	1		04/21/17 14:07	108-88-3	
Xylene (Total)	1.6J	ug/L	3.0	1.5	1		04/21/17 14:07	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/21/17 14:07	179601-23-1	
o-Xylene	0.95J	ug/L	1.0	0.50	1		04/21/17 14:07	95-47-6	
Surrogates									
Dibromofluoromethane (S)	118	%	70-130		1		04/21/17 14:07	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		04/21/17 14:07	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/21/17 14:07	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		04/20/17 23:23	14797-55-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	43.7	mg/L	3.0	1.0	1		04/21/17 18:25	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	387	mg/L	117	35.2	5		04/26/17 13:20		

Sample: MW-27 Lab ID: 40148670016 Collected: 04/20/17 08:44 Received: 04/20/17 12:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	2120	ug/L	70.0	34.2	25		04/21/17 11:09	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Arsenic, Dissolved	6.9	ug/L	1.0	0.099	1	04/26/17 08:41	04/27/17 10:56	7440-38-2	
Iron, Dissolved	1030	ug/L	250	10.0	1	04/26/17 08:41	04/27/17 10:56	7439-89-6	
Manganese, Dissolved	97.4	ug/L	1.0	0.18	1	04/26/17 08:41	04/27/17 10:56	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	569	ug/L	5.0	2.5	5		04/21/17 15:54	71-43-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

Sample: MW-27 Lab ID: 40148670016 Collected: 04/20/17 08:44 Received: 04/20/17 12:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Ethylbenzene	94.4	ug/L	5.0	2.5	5		04/21/17 15:54	100-41-4	
Naphthalene	620	ug/L	25.0	12.5	5		04/21/17 15:54	91-20-3	
Toluene	2.8J	ug/L	5.0	2.5	5		04/21/17 15:54	108-88-3	
Xylene (Total)	23.3	ug/L	15.0	7.5	5		04/21/17 15:54	1330-20-7	
m&p-Xylene	9.1J	ug/L	10.0	5.0	5		04/21/17 15:54	179601-23-1	
o-Xylene	14.2	ug/L	5.0	2.5	5		04/21/17 15:54	95-47-6	
Surrogates									
Dibromofluoromethane (S)	118	%	70-130		5		04/21/17 15:54	1868-53-7	
Toluene-d8 (S)	90	%	70-130		5		04/21/17 15:54	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		5		04/21/17 15:54	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		04/20/17 23:34	14797-55-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	6.2	mg/L	3.0	1.0	1		04/21/17 18:37	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	225	mg/L	23.5	7.0	1		04/26/17 12:16		

Sample: MW-28 Lab ID: 40148670017 Collected: 04/20/17 09:39 Received: 04/20/17 12:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	2400	ug/L	28.0	13.7	10		04/21/17 11:16	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Arsenic, Dissolved	32.3	ug/L	1.0	0.099	1	04/26/17 08:41	04/27/17 11:03	7440-38-2	
Iron, Dissolved	1370	ug/L	250	10.0	1	04/26/17 08:41	04/27/17 11:03	7439-89-6	
Manganese, Dissolved	465	ug/L	1.0	0.18	1	04/26/17 08:41	04/27/17 11:03	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		04/21/17 14:28	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		04/21/17 14:28	100-41-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		04/21/17 14:28	91-20-3	
Toluene	<0.50	ug/L	1.0	0.50	1		04/21/17 14:28	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		04/21/17 14:28	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		04/21/17 14:28	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		04/21/17 14:28	95-47-6	
Surrogates									
Dibromofluoromethane (S)	116	%	70-130		1		04/21/17 14:28	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		04/21/17 14:28	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		04/21/17 14:28	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: W-1272-000003 APPLETON MGP

Pace Project No.: 40148670

Sample: MW-28 Lab ID: 40148670017 Collected: 04/20/17 09:39 Received: 04/20/17 12:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		04/21/17 00:09	14797-55-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	12.8	mg/L	3.0	1.0	1		04/21/17 19:12	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	198	mg/L	23.5	7.0	1		04/26/17 12:16		

Sample: PZ-23 Lab ID: 40148670018 Collected: 04/20/17 08:14 Received: 04/20/17 12:18 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									
Arsenic, Dissolved	6.8	ug/L	1.0	0.099	1	04/26/17 08:41	04/27/17 11:09	7440-38-2	
Iron, Dissolved	344	ug/L	250	10.0	1	04/26/17 08:41	04/27/17 11:09	7439-89-6	
Manganese, Dissolved	75.6	ug/L	1.0	0.18	1	04/26/17 08:41	04/27/17 11:09	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	819	ug/L	10.0	5.0	10		04/21/17 17:19	71-43-2	
Ethylbenzene	55.4	ug/L	10.0	5.0	10		04/21/17 17:19	100-41-4	
Naphthalene	507	ug/L	50.0	25.0	10		04/21/17 17:19	91-20-3	
Toluene	<5.0	ug/L	10.0	5.0	10		04/21/17 17:19	108-88-3	
Xylene (Total)	19.0J	ug/L	30.0	15.0	10		04/21/17 17:19	1330-20-7	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		04/21/17 17:19	179601-23-1	
o-Xylene	10.9	ug/L	10.0	5.0	10		04/21/17 17:19	95-47-6	
Surrogates									
Dibromofluoromethane (S)	116	%	70-130		10		04/21/17 17:19	1868-53-7	
Toluene-d8 (S)	91	%	70-130		10		04/21/17 17:19	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		10		04/21/17 17:19	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		04/21/17 00:21	14797-55-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	6.6	mg/L	3.0	1.0	1		04/21/17 19:58	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	213	mg/L	47.0	14.1	2		04/26/17 12:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

Sample: PZ-27 Lab ID: 40148670019 Collected: 04/20/17 09:06 Received: 04/20/17 12:18 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Methane	2150	ug/L	28.0	13.7	10		04/21/17 11:22	74-82-8	
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Arsenic, Dissolved	3.5	ug/L	1.0	0.099	1	04/26/17 08:41	04/27/17 11:30	7440-38-2	
Iron, Dissolved	840	ug/L	250	10.0	1	04/26/17 08:41	04/27/17 11:30	7439-89-6	
Manganese, Dissolved	109	ug/L	1.0	0.18	1	04/26/17 08:41	04/27/17 11:30	7439-96-5	
8260 MSV UST Analytical Method: EPA 8260									
Benzene	506	ug/L	10.0	5.0	10		04/21/17 16:15	71-43-2	
Ethylbenzene	45.7	ug/L	10.0	5.0	10		04/21/17 16:15	100-41-4	
Naphthalene	438	ug/L	50.0	25.0	10		04/21/17 16:15	91-20-3	
Toluene	<5.0	ug/L	10.0	5.0	10		04/21/17 16:15	108-88-3	
Xylene (Total)	18.8J	ug/L	30.0	15.0	10		04/21/17 16:15	1330-20-7	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		04/21/17 16:15	179601-23-1	
o-Xylene	11.5	ug/L	10.0	5.0	10		04/21/17 16:15	95-47-6	
Surrogates									
Dibromofluoromethane (S)	114	%	70-130		10		04/21/17 16:15	1868-53-7	
Toluene-d8 (S)	90	%	70-130		10		04/21/17 16:15	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		10		04/21/17 16:15	460-00-4	
300.0 IC Anions Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		04/21/17 00:32	14797-55-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	2.9J	mg/L	3.0	1.0	1		04/21/17 20:09	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	224	mg/L	23.5	7.0	1		04/26/17 12:41		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

QC Batch: 253435 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40148670015, 40148670016, 40148670017, 40148670019

METHOD BLANK: 1495121 Matrix: Water
Associated Lab Samples: 40148670015, 40148670016, 40148670017, 40148670019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<1.4	2.8	04/21/17 07:37	

LABORATORY CONTROL SAMPLE & LCSD: 1495122 1495123

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	30.7	31.0	107	108	73-122	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1495258 1495259

Parameter	Units	40148670013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	15.3	28.6	28.6	42.5	42.2	95	94	15-187	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

QC Batch: 253740 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40148670015, 40148670016, 40148670017, 40148670018, 40148670019

METHOD BLANK: 1496520 Matrix: Water
Associated Lab Samples: 40148670015, 40148670016, 40148670017, 40148670018, 40148670019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.099	1.0	04/27/17 08:48	
Iron, Dissolved	ug/L	<10.0	250	04/27/17 08:48	
Manganese, Dissolved	ug/L	0.53J	1.0	04/27/17 08:48	

LABORATORY CONTROL SAMPLE: 1496521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	529	106	80-120	
Iron, Dissolved	ug/L	5000	5090	102	80-120	
Manganese, Dissolved	ug/L	500	521	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496522 1496523

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40148670005 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic, Dissolved	ug/L	2.0	500	500	441	529	88	105	75-125	18	20
Iron, Dissolved	ug/L	535	5000	5000	4560	5470	80	99	75-125	18	20
Manganese, Dissolved	ug/L	10.0	500	500	429	516	84	101	75-125	18	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

QC Batch: 253456 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40148670015, 40148670016, 40148670017, 40148670018, 40148670019

METHOD BLANK: 1495190 Matrix: Water
Associated Lab Samples: 40148670015, 40148670016, 40148670017, 40148670018, 40148670019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	04/21/17 10:33	
Ethylbenzene	ug/L	<0.50	1.0	04/21/17 10:33	
m&p-Xylene	ug/L	<1.0	2.0	04/21/17 10:33	
Naphthalene	ug/L	<2.5	5.0	04/21/17 10:33	
o-Xylene	ug/L	<0.50	1.0	04/21/17 10:33	
Toluene	ug/L	<0.50	1.0	04/21/17 10:33	
Xylene (Total)	ug/L	<1.5	3.0	04/21/17 10:33	
4-Bromofluorobenzene (S)	%	95	70-130	04/21/17 10:33	
Dibromofluoromethane (S)	%	114	70-130	04/21/17 10:33	
Toluene-d8 (S)	%	91	70-130	04/21/17 10:33	

LABORATORY CONTROL SAMPLE: 1495191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	63.8	128	60-135	
Ethylbenzene	ug/L	50	53.3	107	70-136	
m&p-Xylene	ug/L	100	107	107	70-138	
o-Xylene	ug/L	50	52.2	104	70-134	
Toluene	ug/L	50	53.1	106	70-130	
Xylene (Total)	ug/L	150	160	106	70-135	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			114	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1495249 1495250

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40148670004 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Benzene	ug/L	<0.50	50	50	72.3	76.6	145	153	57-138	6	20	M1
Ethylbenzene	ug/L	<0.50	50	50	58.8	60.1	118	120	70-138	2	20	
m&p-Xylene	ug/L	<1.0	100	100	119	124	119	124	70-140	4	20	
o-Xylene	ug/L	<0.50	50	50	57.8	60.4	116	121	70-134	4	20	
Toluene	ug/L	<0.50	50	50	58.4	61.1	117	122	70-130	4	20	
Xylene (Total)	ug/L	<1.5	150	150	177	185	118	123	70-135	4	20	
4-Bromofluorobenzene (S)	%						102	99	70-130			
Dibromofluoromethane (S)	%						115	115	70-130			
Toluene-d8 (S)	%						92	92	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

QC Batch: 253392 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40148670015, 40148670016, 40148670017, 40148670018, 40148670019

METHOD BLANK: 1494805 Matrix: Water
Associated Lab Samples: 40148670015, 40148670016, 40148670017, 40148670018, 40148670019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.075	0.22	04/20/17 20:18	
Sulfate	mg/L	<1.0	3.0	04/21/17 14:47	

LABORATORY CONTROL SAMPLE: 1494806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.5	1.5	102	90-110	
Sulfate	mg/L	20	20.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494807 1494808

Parameter	Units	40148670007		40148670008		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Nitrate as N	mg/L	<1.5	30	30	31.9	31.5	105	104	90-110	1	15
Sulfate	mg/L	549	400	400	891	867	86	80	90-110	3	15 MO

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1494809 1494810

Parameter	Units	40148670016		40148670017		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Nitrate as N	mg/L	<0.075	1.5	1.5	1.7	1.7	110	110	90-110	0	15
Sulfate	mg/L	6.2	20	20	27.3	27.7	106	108	90-110	2	15

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

QC Batch: 253880 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40148670015, 40148670016, 40148670017, 40148670018

METHOD BLANK: 1497137 Matrix: Water
Associated Lab Samples: 40148670015, 40148670016, 40148670017, 40148670018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	04/26/17 11:58	

LABORATORY CONTROL SAMPLE: 1497138

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	99.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497139 1497140

Parameter	Units	1497139		1497140		MS % Rec	MSD % Rec	% Rec Limits	Max			
		40148670007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result				MSD Result	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	130	200	200	187	196	28	33	90-110	5	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497141 1497142

Parameter	Units	1497141		1497142		MS % Rec	MSD % Rec	% Rec Limits	Max			
		40148670018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result				MSD Result	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	213	200	200	411	410	99	99	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

QC Batch: 253882 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40148670019

METHOD BLANK: 1497149 Matrix: Water
Associated Lab Samples: 40148670019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	8.1J	23.5	04/26/17 12:40	

LABORATORY CONTROL SAMPLE: 1497150

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: 1497151 1497152

Parameter	Units	40148716005		401487152		MS % Rec	MSD % Rec	% Rec Limits	Max			
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result				MSD Result	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	106	200	200	261	266	77	80	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497153 1497154

Parameter	Units	40148812001		401488154		MS % Rec	MSD % Rec	% Rec Limits	Max			
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result				MSD Result	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	108	200	200	285	286	89	89	90-110	0	20	M0

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: W-1272-000003 APPLETON MGP
Pace Project No.: 40148670

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40148670015	MW-26	EPA 8015B Modified	253435		
40148670016	MW-27	EPA 8015B Modified	253435		
40148670017	MW-28	EPA 8015B Modified	253435		
40148670019	PZ-27	EPA 8015B Modified	253435		
40148670015	MW-26	EPA 3010	253740	EPA 6020	253938
40148670016	MW-27	EPA 3010	253740	EPA 6020	253938
40148670017	MW-28	EPA 3010	253740	EPA 6020	253938
40148670018	PZ-23	EPA 3010	253740	EPA 6020	253938
40148670019	PZ-27	EPA 3010	253740	EPA 6020	253938
40148670015	MW-26	EPA 8260	253456		
40148670016	MW-27	EPA 8260	253456		
40148670017	MW-28	EPA 8260	253456		
40148670018	PZ-23	EPA 8260	253456		
40148670019	PZ-27	EPA 8260	253456		
40148670015	MW-26	EPA 300.0	253392		
40148670016	MW-27	EPA 300.0	253392		
40148670017	MW-28	EPA 300.0	253392		
40148670018	PZ-23	EPA 300.0	253392		
40148670019	PZ-27	EPA 300.0	253392		
40148670015	MW-26	EPA 300.0	253392		
40148670016	MW-27	EPA 300.0	253392		
40148670017	MW-28	EPA 300.0	253392		
40148670018	PZ-23	EPA 300.0	253392		
40148670019	PZ-27	EPA 300.0	253392		
40148670015	MW-26	EPA 310.2	253880		
40148670016	MW-27	EPA 310.2	253880		
40148670017	MW-28	EPA 310.2	253880		
40148670018	PZ-23	EPA 310.2	253880		
40148670019	PZ-27	EPA 310.2	253882		

REPORT OF LABORATORY ANALYSIS

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COPY RESULTS TO: BRAD HANCOCK AT AET

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

SSM
40148670

(Please Print Clearly)

Company Name: We Energies

Branch/Location: LAB SERVICES

Project Contact: DAVE KOLLAKOWSKI

Phone: 414-221-2835

Project Number: W-1272-DDDD03

Project Name: APPLETON MGT

Project State: WI

Sampled By (Print): BILL BRAUNSCHEWIG

Sampled By (Sign): [Signature]

PO #: 4760003357 Regulatory Program:



CHAIN OF CUSTODY

*Preservation Codes

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

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

Y/N	N	N	Y	N	N
	B	B	D	B	A
Analysis Requested	BEZELDE ASD	BE-V ASD	DISSOLVED METALS AS, FA, Mn	METHALDE	NITRATE, SULFATE, ALKALINITY

Quote #: _____

Mail To Contact: DAVE KOLLAKOWSKI

Mail To Company: We Energies

Mail To Address: 333 W. EVERETT ST MILWAUKEE WI. 53203

Invoice To Contact: ACCOUNTS PAYABLE

Invoice To Company: We Energies

Invoice To Address: SAME

Invoice To Phone: _____

CLIENT COMMENTS: 3 40ml v

LAB COMMENTS (Lab Use Only): 2-250mlp AD

Profile #: _____

MS/MSD 18 40ml v
BLIND DUPLICATE
1-40ml v

Data Package Options (billable)

EPA Level III

EPA Level IV

MS/MSD

On your sample (billable)

NOT needed on your sample

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	PZ-2DB	4-9-17	1310	GLW
002	PZ-2IB	4-9-17	1565	
003	PZ-22B	4-9-17	1414	
004	PZ-12B	4-9-17	1633	
005	MW22	4-9-17	1153	
006	MW2L	4-9-17	1233	
007	MW-21	4-9-17	1435	
008	MW-13R	4-9-17	1529	
009	MW-19	4-9-17	1122	
010	MW-12R	4-9-17	1557	
011	DC-1	4-9-17	?	GLW
012	TRI? BLANK	4-9-17	-	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)

Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Email #1: _____

Email #2: _____

Telephone: _____

Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: [Signature] Date/Time: 4-20-17 1218

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received By: [Signature] Date/Time: 4-20-17 1218

Received By: [Signature] Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

PACE Project No. 40148670

Receipt Temp = ROT

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40148670

Page 18 of 20

(Please Print Clearly)

Company Name: We Energies
 Branch/Location: LAB SERVICES
 Project Contact: DAVE KOLAKOWSKY
 Phone: 414-221-2835
 Project Number: W-1272-000003
 Project Name: APPLETON MGT
 Project State: WI
 Sampled By (Print): BILL BRAUNSCHWEIG
 Sampled By (Sign): *Bill Braunschweig*
 PO #: 4706603357
 Regulatory Program:

CHAIN OF CUSTODY

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

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

V/V	N	N	N	N						
PKA Letter	B	B	D	N						
Analysis Requested	STEEL AND NARATHALELE	METHANE	DISSOLVED METALS: AS FEE PPH	NITRATE, SULFATE, ALKALINITY						

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
013	MW-24	4-26-17	0717	6hw
014	MW-25	4-26-17	0747	
015	MW-26	4-26-17	0815	
016	MW-27	4-26-17	0844	
017	MW-28	4-26-17	0939	
018	PZ-23	4-26-17	0814	
019	PZ-27	4-26-17	0906	
020	DCFB	4-26-17	1027	W
021	MW 22	4-19-17	1352	W

Quote #:
 Mail To Contact: DAVE KOLAKOWSKY
 Mail To Company: We Energies
 Mail To Address: 333 W. EVERETT ST. MILWAUKEE, WI 53203
 Invoice To Contact: ACCOUNTS PAYABLE
 Invoice To Company: We Energies
 Invoice To Address: SAME
 Invoice To Phone:

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
6-40ml VB	2-250mlp AD	
3-40ml VB		
6-40ml VB		
3-40ml VB		
6-40ml VB		
FIELD BLANK		
6-40ml VB		

① In shipment Lab added to COC 4-20-17 SLW

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Relinquished By: <i>Bill Braunschweig</i>	Date/Time: 4-20-17 12:18	Received By: <i>Erica Kuyler</i>	Date/Time: 4-20-17 12:18
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40148670
 Receipt Temp = *ROD*
 Sample Receipt pH *OK* / Adjusted
 Cooler Custody Seal Present / *Not Present*
 Intact / Not Intact

40148670

QUARTERLY SAMPLING SUMMARY

Appleton MGP Groundwater Sampling – April 2017

Well/ Piezometer	Water Level ¹	NAPL Thickness	NAPL Removal	BTEX & Naphthalene (USEPA 8160B)	Benzene & Naphthalene (USEPA 8160B)	Arsenic and Manganese (USEPA 8160B)	Cadmium and Manganese (USEPA 8160D)	Nitrate & Sulfate (USEPA 300.0) and Alkalinity (USEPA 310.2)	Methane (USEPA 8015B)	Field Parameters (See Note 3 for list)
✓ MW-2R ✓			NA							
MW-8		NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9		NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10		NA	NA	NA	NA	NA	NA	NA	NA	NA
✓ MW-12R ✓			NA							
✓ MW-13R ✓			NA							
✓ MW-19 ✓			NA							
MW-19S		NA	NA	NA	NA	NA	NA	NA	NA	NA
✓ MW-20 ✓			NA							
✓ MW-21 ✓			NA							
✓ MW-22 ✓			NA							
MW-23		NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-24		NA	NA							
MW-25		NA	NA							
MW-26			NA							
MW-27			NA							
MW-28			NA							
✓ PZ-12B ✓		NA	NA	NA		NA	NA	NA	NA	
✓ PZ-20B ✓		NA	NA	NA		NA	NA	NA	NA	
✓ PZ-21B ✓		NA	NA	NA		NA	NA	NA	NA	
✓ PZ-22B ✓		NA	NA	NA		NA	NA	NA	NA	
PZ-23			NA							
PZ-26				N	NA	N	NA	N	N	N
PZ-27			NA							
PZ-28				N	NA	N	NA	N	N	N
SG-3		NA	NA	NA	NA	NA	NA	NA	NA	NA
SG-4		NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

- 1 - A complete round of water levels should be collected prior to any well purging or sampling activities.
- 2 - All metals (Ar, Mn, and Fe) are to be field filtered using in-line disposable filters.
- 3 - Field parameters include:
 - pH
 - Dissolved oxygen
 - Temperature
 - Specific conductance
 - Oxidation/reduction potential

NA	- Measurement/analysis not applicable for this location.
*	- NAPL Removal will be completed if NAPL greater than 0.5 feet is present
N	- Water quality sampling will not be conducted at this location as long as NAPL remains present
TBD	- To Be Determined.

Sample Condition Upon Receipt

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



Project #: **WO# : 40148670**

Client Name: We Energies

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

Cooler Temperature Uncorr: ROT / Corr: _____ Biological Tissue is Frozen: yes

Temp Blank Present: yes no no

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

Person examining contents:
Date: 4-20-17
Initials: SKW

Comments:

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 <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10. <u>012 - 1 vial received broken. 4-20-17 SKW</u>
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>005 - 1-250 mg/L - No collect time</u> <u>007 - collect time on samples 1439.</u> <u>010 - 1-40 mg/L I.D. P2 120 - time 4-20-17</u>
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
(HNO3, H2SO4, NaOH+ZnAct ≥9, NaOH ≥12)		
exceptions: <u>VOA</u> , coliform, TOC, TOX, TOM, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>SKW</u> Lab Std #/ID of preservative: _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>012 - 1 vial 4-20-17 SKW</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>375</u>	

Client Notification/ Resolution: 4-20-17 SKW If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Add MW22 to COC per DK 4-21-17

Project Manager Review: SKW Date: 4-21-17