Wisconsin Public Service Corporation
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.wisconsinpublicservice.com

July 3, 2019

Ms. Amy Hazuka
Associated Bank
433 Main Street, Mailstop 8227
Green Bay, WI, 54301-5114

RE: Recent Sampling Results
Wisconsin Public Service Corporation – Former Green Bay Manufactured Gas Plant
700 North Adams Street, Green Bay, WI
WDNR BRRTS Activity # 0205000254

Dear Ms. Hazuka:

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant (MGP) site at 700 North Adams Street is providing results of groundwater samples collected as part of routine monitoring (MW414, MW415A, MW415B, MW416) collected in May of 2019, as part of site characterization. Wisconsin Administrative Code Chapter NR716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

Results of the sampling are summarized in the attached documents. This includes summary tables of the results compared to State standards. Copies of the relevant portions of the associated laboratory reports and a figure showing the locations of samples collected on your property are also included. The results will be presented in a future Remedial Investigation Report.

We appreciate your ongoing cooperation with groundwater sampling activities on your property. If you need additional information, please contact Tauren Beggs from the WDNR at 920-662-5178 or myself at 414-221-2156.

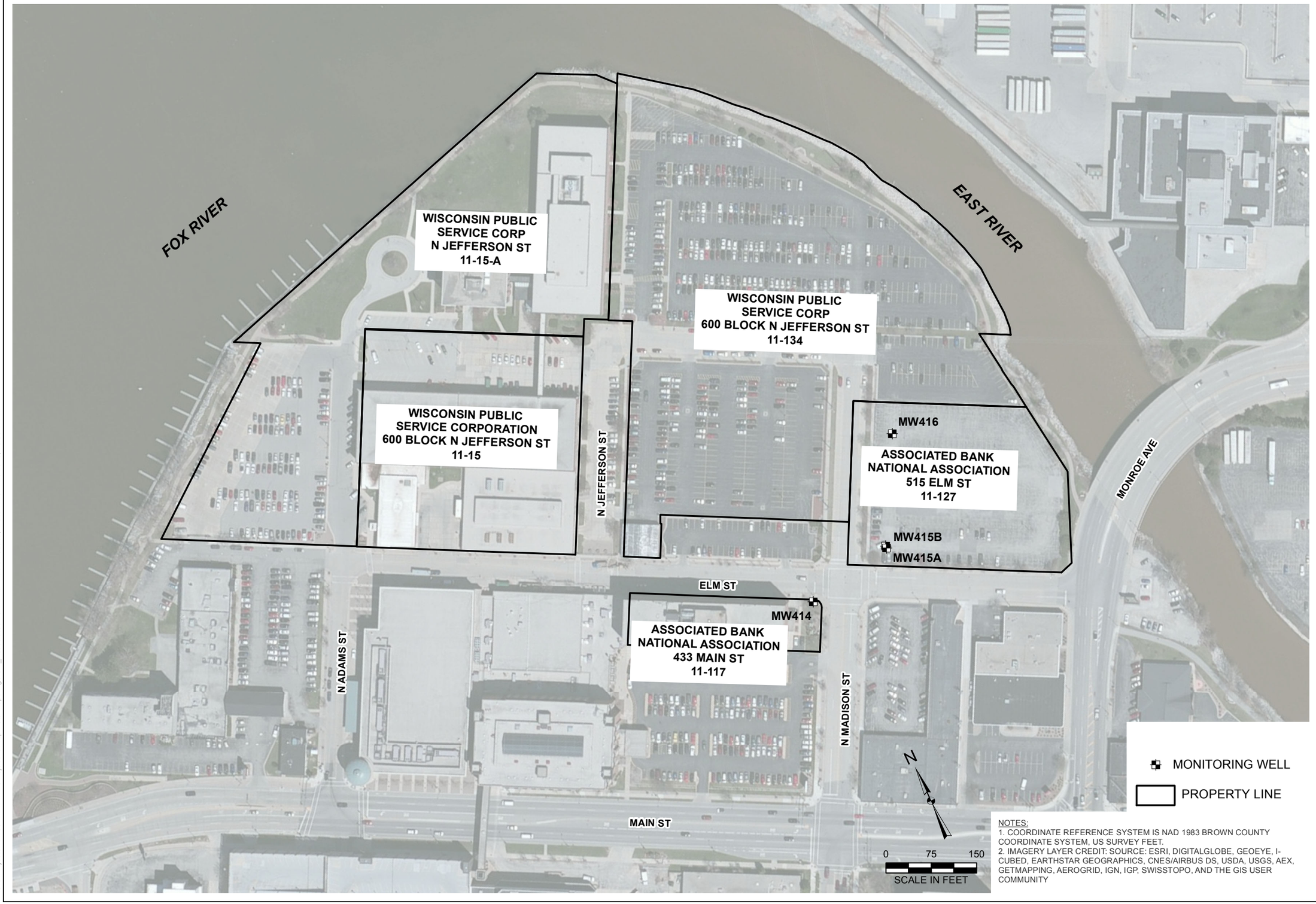
Sincerely,

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

Enc: Figure 1 - Associated Bank
Table 1 - Groundwater Analytical Results for Associated Bank (May 2019)
Laboratory Report - 40188522_frc

CC: USEPA RPM – Sarah Rolfes (via email)
WDNR PM – Tauren Beggs (via US Mail and email)
WDNR Northeast Region (via email to DNRRRNER@wisconsin.gov)
Ms. Staci Goetz, OBG (via email)

Figures



NOTES:
1. COORDINATE REFERENCE SYSTEM IS NAD 1983 BROWN COUNTY COORDINATE SYSTEM, US SURVEY FEET.
2. IMAGERY LAYER CREDIT: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY

DRAWN BY/DATE: DMD 03/10/16
REVIEWED BY/DATE: ANS .
APPROVED BY/DATE: KRM .

ASSOCIATED BANK

RECENT SAMPLING RESULTS
FORMER GREEN BAY MANUFACTURED GAS PLANT
WISCONSIN PUBLIC SERVICE CORPORATION
GREEN BAY, WISCONSIN
BRRTS# 0205000254

PROJECT NO: 67983

FIGURE NO: 1

Tables

Table 1. Groundwater Analytical Results for Associated Bank

May 2019 Sample Results Notification
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin
BRRTS#: 02-05-000254 USEPA#: WIN000509948

			PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH	
9-digit Code	Sample Location	Sample Date	1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
		Reporting Units:	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
		WI Groundwater ES:	**NS**		**NS**		**NS**		**NS**		**3,000**		**NS**		**0.2**		**0.2**		**NS**		**NS**		**0.2**		**NS**		**400**		**400**		**NS**		**100**		**NS**		**250**	
		WI Groundwater PAL:	NS		NS		NS		NS		600		NS		0.02		0.02		NS		NS		0.02		NS		80		80		NS		10		NS		50	
052919015	MW-414	05/29/2019	<0.0069	U	<0.0057	U	<0.0071	U	<0.0058	U	<0.012	U	<0.0088	U	<0.012	U	0.014	J	0.014	J	0.015	J	<0.015	U	<0.012	U	<0.012	U	<0.0093	U	<0.021	U	<0.021	U	<0.016	U	0.012	J
052919017	MW-415A	05/29/2019	<0.0064	U	<0.0053	U	<0.0066	U	<0.0054	U	<0.011	U	0.039	J	0.031	J	0.076		0.064		0.074		0.072		<0.011	U	0.11		<0.0087	U	0.046	J	<0.020	U	0.043	J	0.094	
052919016	MW-415B	05/29/2019	<0.0060	U	<0.0049	U	0.0096	J	<0.0050	U	0.021	J	0.061		0.040	J	0.099		0.052		0.072		0.10		<0.010	U	0.19		0.012	J	0.041	J	<0.019	U	0.16		0.14	
052919018	MW-416	05/29/2019	<0.0064	U	<0.0053	U	<0.0066	U	<0.0054	U	0.024	J	0.089		0.11		**0.28**		0.14		0.16		**0.25**		0.022	J	0.46		<0.0087	U	0.11		<0.020	U	0.20		0.36	

Notes:
BOLD = concentration that attains or exceeds WDNR ES
Underline = concentration that attains or exceeds WDNR PAL
* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

< = Concentration is less than reported limit
µg/L = micrograms per liter
BTEX = benzene, toluene, ethylbenzene and xylenes
ES = Enforcement Standard
J = Concentration estimated
NO2 + NO3 = nitrite plus nitrate
NS = A groundwater quality standard has not been established.
PAH = polycyclic aromatic hydrocarbons
PAL = Preventive Action Limit
U = Not detected
VOC = Volatile Organic Compound

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.
PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

1. Total trimethylbenzenes were calculated by OBG 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 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

Table 1. Groundwater Analytical Results for Associated Bank
May 2019 Sample Results Notification
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin
BRRTS#: 02-05-000254 USEPA#: WIN000509948

			BTEX		BTEX		BTEX		BTEX		BTEX		VOC		VOC		VOC		Metal		Metal		Metal		Metal		Metal		Metal		Metal		Metal		Metal		Inorganic		Inorganic	
9-digit Code	Sample Location	Sample Date	Benzene		Ethylbenzene		Toluene		Xylene, o		Xylenes, m + p		Xylenes, Total		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		Trimethylbenzenes, Total[1]		Arsenic, Dissolved		Barium, Dissolved		Cadmium, Dissolved		Chromium, Dissolved		Iron, Dissolved		Lead, Dissolved		Manganese, Dissolved		Mercury, Dissolved		Selenium, Dissolved		Silver, Dissolved		Nitrogen, NO2 + NO3, 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		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
WI Groundwater ES:			**5**		**700**		**800**		**NS**		**NS**		**2,000**		NS		NS		**480**		**10**		**2,000**		**5**		**100**		**300**		**15**		**50**		**2**		**50**		**50**		**10,000**		**250,000**	
WI Groundwater PAL:			0.5		140		160		NS		NS		400		NS		NS		96		1		400		0.5		10		150		1.5		25		0.2		10		10		2,000		125,000	
052919015	MW-414	05/29/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.84	U	<0.87	U	<1.71	U	<2.8*	U	419		<1.5*	U	<10.2*	U	<1,110*	U	<2.4*	U	**538**		<0.084	U	<3.2	U	<1.0	U	1,300		94,300	
052919017	MW-415A	05/29/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.84	U	<0.87	U	<1.71	U	0.65	J	104		<0.30	U	<2.0	U	<221*	U	<0.47	U	<5.4	U	<0.084	U	<0.63	U	<0.20	U	<95	U	**308,000**	
052919016	MW-415B	05/29/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.84	U	<0.87	U	<1.71	U	1.2	J	22.8		0.65	J	<2.0	U	<221*	U	<0.47	U	<5.4	U	<0.084	U	0.73	J	<0.20	U	270		**1,650,000**	
052919018	MW-416	05/29/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.84	U	<0.87	U	<1.71	U	<5.6*	U	440		<3.0*	U	<20.4*	U	**9,320**		<4.7*	U	**3,550**		<0.084	U	<6.3	U	<2.0	U	<95	U	**312,000**	

[O:MGP 6/24/19, C:SGW 6/25/19, QA:JLG 6/27/19]

Notes:
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* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

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PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

1. Total trimethylbenzenes were calculated by OBG 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 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

Laboratory Data Reports

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

June 13, 2019

Staci Goetz
O'Brien & Gere Engineers, Inc

,

RE: Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Dear Staci Goetz:
Enclosed are the analytical results for sample(s) received by the laboratory on May 30, 2019. 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: Phil Brochocki, OBG
NRT Data, OBG
Eric Hritsuk, OBG
Robert Paulson, We Energies
Steve Wiskes, OBG

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

CERTIFICATIONS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40188522001	**052919015**	Water	05/29/19 11:23	05/30/19 11:00
40188522002	**052919016**	Water	05/29/19 12:44	05/30/19 11:00
40188522003	**052919017**	Water	05/29/19 13:43	05/30/19 11:00
40188522004	**052919018**	Water	05/29/19 14:26	05/30/19 11:00

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40188522001	**052919015**	EPA 6020	DS1, KXS	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	HNW	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40188522002	**052919016**	EPA 6020	DS1, KXS	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	HNW	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40188522003	**052919017**	EPA 6020	DS1, KXS	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	HNW	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40188522004	**052919018**	EPA 6020	DS1, KXS	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	HNW	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

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

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 13, 2019

General Information:
4 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 323840

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

- 052919015 (Lab ID: 40188522001)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- 052919016 (Lab ID: 40188522002)
  - Silver, Dissolved
  - Arsenic, Dissolved

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

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 13, 2019

Analyte Comments:

QC Batch: 323840

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

- 052919016 (Lab ID: 40188522002)
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- 052919017 (Lab ID: 40188522003)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved
  - Manganese, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- 052919018 (Lab ID: 40188522004)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 13, 2019

General Information:
4 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Method: **EPA 8270 by HVI**
Description: 8270 MSSV PAH by HVI
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 13, 2019

General Information:
4 samples were analyzed for EPA 8270 by HVI. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 323077

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Method: **EPA 8260**
Description: 8260 MSV UST
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 13, 2019

General Information:
4 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 13, 2019

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 323787

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40188522001,40188527001

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

- MS (Lab ID: 1880313)
  - Sulfate

Additional Comments:

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

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 13, 2019

General Information:
4 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Sample: 052919015 **Lab ID: 40188522001** Collected: 05/29/19 11:23 Received: 05/30/19 11:00 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	**<2.8**	ug/L	10.0	2.8	10	06/10/19 09:00	06/11/19 18:54	7440-38-2	D3
Barium, Dissolved	**419**	ug/L	9.7	2.9	2	06/10/19 09:00	06/10/19 23:50	7440-39-3	
Cadmium, Dissolved	**<1.5**	ug/L	10.0	1.5	10	06/10/19 09:00	06/11/19 18:54	7440-43-9	D3
Chromium, Dissolved	**<10.2**	ug/L	34.0	10.2	10	06/10/19 09:00	06/12/19 21:45	7440-47-3	D3
Iron, Dissolved	**<1110**	ug/L	3680	1110	10	06/10/19 09:00	06/11/19 18:54	7439-89-6	D3
Lead, Dissolved	**<2.4**	ug/L	10.0	2.4	10	06/10/19 09:00	06/11/19 18:54	7439-92-1	D3
Manganese, Dissolved	**538**	ug/L	90.0	27.0	10	06/10/19 09:00	06/11/19 18:54	7439-96-5	
Selenium, Dissolved	**<3.2**	ug/L	10.6	3.2	10	06/10/19 09:00	06/11/19 18:54	7782-49-2	D3
Silver, Dissolved	**<1.0**	ug/L	5.0	1.0	10	06/10/19 09:00	06/11/19 18:54	7440-22-4	D3
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	06/05/19 10:20	06/06/19 09:30	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0071**	ug/L	0.035	0.0071	1	06/03/19 12:08	06/05/19 12:07	83-32-9	
Acenaphthylene	**<0.0058**	ug/L	0.029	0.0058	1	06/03/19 12:08	06/05/19 12:07	208-96-8	
Anthracene	**<0.012**	ug/L	0.061	0.012	1	06/03/19 12:08	06/05/19 12:07	120-12-7	
Benzo(a)anthracene	**<0.0088**	ug/L	0.044	0.0088	1	06/03/19 12:08	06/05/19 12:07	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.061	0.012	1	06/03/19 12:08	06/05/19 12:07	50-32-8	
Benzo(b)fluoranthene	**0.014J**	ug/L	0.033	0.0067	1	06/03/19 12:08	06/05/19 12:07	205-99-2	
Benzo(g,h,i)perylene	**0.014J**	ug/L	0.039	0.0079	1	06/03/19 12:08	06/05/19 12:07	191-24-2	
Benzo(k)fluoranthene	**0.015J**	ug/L	0.044	0.0088	1	06/03/19 12:08	06/05/19 12:07	207-08-9	
Chrysene	**<0.015**	ug/L	0.076	0.015	1	06/03/19 12:08	06/05/19 12:07	218-01-9	
Dibenz(a,h)anthracene	**<0.012**	ug/L	0.058	0.012	1	06/03/19 12:08	06/05/19 12:07	53-70-3	
Fluoranthene	**<0.012**	ug/L	0.062	0.012	1	06/03/19 12:08	06/05/19 12:07	206-44-0	
Fluorene	**<0.0093**	ug/L	0.046	0.0093	1	06/03/19 12:08	06/05/19 12:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.021**	ug/L	0.10	0.021	1	06/03/19 12:08	06/05/19 12:07	193-39-5	
1-Methylnaphthalene	**<0.0069**	ug/L	0.034	0.0069	1	06/03/19 12:08	06/05/19 12:07	90-12-0	
2-Methylnaphthalene	**<0.0057**	ug/L	0.028	0.0057	1	06/03/19 12:08	06/05/19 12:07	91-57-6	
Naphthalene	**<0.021**	ug/L	0.11	0.021	1	06/03/19 12:08	06/05/19 12:07	91-20-3	
Phenanthrene	**<0.016**	ug/L	0.080	0.016	1	06/03/19 12:08	06/05/19 12:07	85-01-8	
Pyrene	**0.012J**	ug/L	0.044	0.0089	1	06/03/19 12:08	06/05/19 12:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	30-85		1	06/03/19 12:08	06/05/19 12:07	321-60-8	
Terphenyl-d14 (S)	78	%	10-120		1	06/03/19 12:08	06/05/19 12:07	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		06/03/19 08:29	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		06/03/19 08:29	100-41-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		06/03/19 08:29	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		06/03/19 08:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		06/03/19 08:29	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		06/03/19 08:29	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		06/03/19 08:29	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		06/03/19 08:29	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Sample: 052919015 **Lab ID: 40188522001** Collected: 05/29/19 11:23 Received: 05/30/19 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Dibromofluoromethane (S)	112	%	70-130		1		06/03/19 08:29	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/03/19 08:29	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130		1		06/03/19 08:29	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Sulfate	**94.3**	mg/L	15.0	5.0	5		06/12/19 12:09	14808-79-8	M0
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**1.3**	mg/L	0.25	0.095	1		06/04/19 15:23		

Sample: 052919016 **Lab ID: 40188522002** Collected: 05/29/19 12:44 Received: 05/30/19 11:00 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	**1.2J**	ug/L	2.0	0.56	2	06/10/19 09:00	06/11/19 19:21	7440-38-2	D3
Barium, Dissolved	**22.8**	ug/L	9.7	2.9	2	06/10/19 09:00	06/11/19 00:18	7440-39-3	
Cadmium, Dissolved	**0.65J**	ug/L	2.0	0.30	2	06/10/19 09:00	06/11/19 19:21	7440-43-9	D3
Chromium, Dissolved	**<2.0**	ug/L	6.8	2.0	2	06/10/19 09:00	06/12/19 22:12	7440-47-3	D3
Iron, Dissolved	**<221**	ug/L	737	221	2	06/10/19 09:00	06/11/19 19:21	7439-89-6	D3
Lead, Dissolved	**<0.47**	ug/L	2.0	0.47	2	06/10/19 09:00	06/11/19 19:21	7439-92-1	D3
Manganese, Dissolved	**<5.4**	ug/L	18.0	5.4	2	06/10/19 09:00	06/11/19 19:21	7439-96-5	D3
Selenium, Dissolved	**0.73J**	ug/L	2.1	0.63	2	06/10/19 09:00	06/11/19 19:21	7782-49-2	D3
Silver, Dissolved	**<0.20**	ug/L	1.0	0.20	2	06/10/19 09:00	06/11/19 19:21	7440-22-4	D3
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	06/05/19 10:20	06/06/19 09:32	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.0096J**	ug/L	0.031	0.0061	1	06/03/19 12:08	06/05/19 12:25	83-32-9	
Acenaphthylene	**<0.0050**	ug/L	0.025	0.0050	1	06/03/19 12:08	06/05/19 12:25	208-96-8	
Anthracene	**0.021J**	ug/L	0.053	0.011	1	06/03/19 12:08	06/05/19 12:25	120-12-7	
Benzo(a)anthracene	**0.061**	ug/L	0.038	0.0076	1	06/03/19 12:08	06/05/19 12:25	56-55-3	
Benzo(a)pyrene	**0.040J**	ug/L	0.053	0.011	1	06/03/19 12:08	06/05/19 12:25	50-32-8	
Benzo(b)fluoranthene	**0.099**	ug/L	0.029	0.0058	1	06/03/19 12:08	06/05/19 12:25	205-99-2	
Benzo(g,h,i)perylene	**0.052**	ug/L	0.034	0.0068	1	06/03/19 12:08	06/05/19 12:25	191-24-2	
Benzo(k)fluoranthene	**0.072**	ug/L	0.038	0.0076	1	06/03/19 12:08	06/05/19 12:25	207-08-9	
Chrysene	**0.10**	ug/L	0.066	0.013	1	06/03/19 12:08	06/05/19 12:25	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.051	0.010	1	06/03/19 12:08	06/05/19 12:25	53-70-3	
Fluoranthene	**0.19**	ug/L	0.054	0.011	1	06/03/19 12:08	06/05/19 12:25	206-44-0	
Fluorene	**0.012J**	ug/L	0.040	0.0081	1	06/03/19 12:08	06/05/19 12:25	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.041J**	ug/L	0.089	0.018	1	06/03/19 12:08	06/05/19 12:25	193-39-5	
1-Methylnaphthalene	**<0.0060**	ug/L	0.030	0.0060	1	06/03/19 12:08	06/05/19 12:25	90-12-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Sample: 052919016 **Lab ID: 40188522002** Collected: 05/29/19 12:44 Received: 05/30/19 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
2-Methylnaphthalene	**<0.0049**	ug/L	0.025	0.0049	1	06/03/19 12:08	06/05/19 12:25	91-57-6	
Naphthalene	**<0.019**	ug/L	0.093	0.019	1	06/03/19 12:08	06/05/19 12:25	91-20-3	
Phenanthrene	**0.16**	ug/L	0.070	0.014	1	06/03/19 12:08	06/05/19 12:25	85-01-8	
Pyrene	**0.14**	ug/L	0.039	0.0077	1	06/03/19 12:08	06/05/19 12:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%	30-85		1	06/03/19 12:08	06/05/19 12:25	321-60-8	
Terphenyl-d14 (S)	73	%	10-120		1	06/03/19 12:08	06/05/19 12:25	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		06/03/19 08:50	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		06/03/19 08:50	100-41-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		06/03/19 08:50	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		06/03/19 08:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		06/03/19 08:50	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		06/03/19 08:50	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		06/03/19 08:50	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		06/03/19 08:50	95-47-6	
Surrogates									
Dibromofluoromethane (S)	114	%	70-130		1		06/03/19 08:50	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		06/03/19 08:50	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		06/03/19 08:50	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Sulfate	**1650**	mg/L	150	50.0	50		06/12/19 14:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.27**	mg/L	0.25	0.095	1		06/04/19 15:24		

Sample: 052919017 **Lab ID: 40188522003** Collected: 05/29/19 13:43 Received: 05/30/19 11:00 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	**0.65J**	ug/L	2.0	0.56	2	06/10/19 09:00	06/11/19 19:35	7440-38-2	D3
Barium, Dissolved	**104**	ug/L	9.7	2.9	2	06/10/19 09:00	06/11/19 00:32	7440-39-3	
Cadmium, Dissolved	**<0.30**	ug/L	2.0	0.30	2	06/10/19 09:00	06/11/19 19:35	7440-43-9	D3
Chromium, Dissolved	**<2.0**	ug/L	6.8	2.0	2	06/10/19 09:00	06/12/19 22:26	7440-47-3	D3
Iron, Dissolved	**<221**	ug/L	737	221	2	06/10/19 09:00	06/11/19 19:35	7439-89-6	D3
Lead, Dissolved	**<0.47**	ug/L	2.0	0.47	2	06/10/19 09:00	06/11/19 19:35	7439-92-1	D3
Manganese, Dissolved	**<5.4**	ug/L	18.0	5.4	2	06/10/19 09:00	06/11/19 19:35	7439-96-5	D3
Selenium, Dissolved	**<0.63**	ug/L	2.1	0.63	2	06/10/19 09:00	06/11/19 19:35	7782-49-2	D3
Silver, Dissolved	**<0.20**	ug/L	1.0	0.20	2	06/10/19 09:00	06/11/19 19:35	7440-22-4	D3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Sample: 052919017 **Lab ID: 40188522003** Collected: 05/29/19 13:43 Received: 05/30/19 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	06/05/19 10:20	06/06/19 09:34	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0066**	ug/L	0.033	0.0066	1	06/03/19 12:08	06/05/19 13:37	83-32-9	
Acenaphthylene	**<0.0054**	ug/L	0.027	0.0054	1	06/03/19 12:08	06/05/19 13:37	208-96-8	
Anthracene	**<0.011**	ug/L	0.057	0.011	1	06/03/19 12:08	06/05/19 13:37	120-12-7	
Benzo(a)anthracene	**0.039J**	ug/L	0.041	0.0082	1	06/03/19 12:08	06/05/19 13:37	56-55-3	
Benzo(a)pyrene	**0.031J**	ug/L	0.057	0.011	1	06/03/19 12:08	06/05/19 13:37	50-32-8	
Benzo(b)fluoranthene	**0.076**	ug/L	0.031	0.0062	1	06/03/19 12:08	06/05/19 13:37	205-99-2	
Benzo(g,h,i)perylene	**0.064**	ug/L	0.037	0.0074	1	06/03/19 12:08	06/05/19 13:37	191-24-2	
Benzo(k)fluoranthene	**0.074**	ug/L	0.041	0.0082	1	06/03/19 12:08	06/05/19 13:37	207-08-9	
Chrysene	**0.072**	ug/L	0.071	0.014	1	06/03/19 12:08	06/05/19 13:37	218-01-9	
Dibenz(a,h)anthracene	**<0.011**	ug/L	0.054	0.011	1	06/03/19 12:08	06/05/19 13:37	53-70-3	
Fluoranthene	**0.11**	ug/L	0.058	0.012	1	06/03/19 12:08	06/05/19 13:37	206-44-0	
Fluorene	**<0.0087**	ug/L	0.043	0.0087	1	06/03/19 12:08	06/05/19 13:37	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.046J**	ug/L	0.096	0.019	1	06/03/19 12:08	06/05/19 13:37	193-39-5	
1-Methylnaphthalene	**<0.0064**	ug/L	0.032	0.0064	1	06/03/19 12:08	06/05/19 13:37	90-12-0	
2-Methylnaphthalene	**<0.0053**	ug/L	0.027	0.0053	1	06/03/19 12:08	06/05/19 13:37	91-57-6	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	06/03/19 12:08	06/05/19 13:37	91-20-3	
Phenanthrene	**0.043J**	ug/L	0.075	0.015	1	06/03/19 12:08	06/05/19 13:37	85-01-8	
Pyrene	**0.094**	ug/L	0.042	0.0083	1	06/03/19 12:08	06/05/19 13:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	30-85		1	06/03/19 12:08	06/05/19 13:37	321-60-8	
Terphenyl-d14 (S)	92	%	10-120		1	06/03/19 12:08	06/05/19 13:37	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		06/03/19 09:12	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		06/03/19 09:12	100-41-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		06/03/19 09:12	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		06/03/19 09:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		06/03/19 09:12	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		06/03/19 09:12	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		06/03/19 09:12	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		06/03/19 09:12	95-47-6	
Surrogates									
Dibromofluoromethane (S)	113	%	70-130		1		06/03/19 09:12	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		06/03/19 09:12	2037-26-5	
4-Bromofluorobenzene (S)	87	%	70-130		1		06/03/19 09:12	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Sulfate	**308**	mg/L	60.0	20.0	20		06/12/19 14:23	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		06/04/19 15:24		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Sample: 052919018 **Lab ID: 40188522004** Collected: 05/29/19 14:26 Received: 05/30/19 11:00 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	**<5.6**	ug/L	20.0	5.6	20	06/10/19 09:00	06/11/19 19:42	7440-38-2	D3
Barium, Dissolved	**440**	ug/L	97.3	29.2	20	06/10/19 09:00	06/11/19 19:42	7440-39-3	
Cadmium, Dissolved	**<3.0**	ug/L	20.0	3.0	20	06/10/19 09:00	06/11/19 19:42	7440-43-9	D3
Chromium, Dissolved	**<20.4**	ug/L	68.0	20.4	20	06/10/19 09:00	06/12/19 22:32	7440-47-3	D3
Iron, Dissolved	**9320**	ug/L	7370	2210	20	06/10/19 09:00	06/11/19 19:42	7439-89-6	
Lead, Dissolved	**<4.7**	ug/L	20.0	4.7	20	06/10/19 09:00	06/11/19 19:42	7439-92-1	D3
Manganese, Dissolved	**3550**	ug/L	180	54.0	20	06/10/19 09:00	06/11/19 19:42	7439-96-5	
Selenium, Dissolved	**<6.3**	ug/L	21.2	6.3	20	06/10/19 09:00	06/11/19 19:42	7782-49-2	D3
Silver, Dissolved	**<2.0**	ug/L	10.0	2.0	20	06/10/19 09:00	06/11/19 19:42	7440-22-4	D3
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	06/05/19 10:20	06/06/19 09:37	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0066**	ug/L	0.033	0.0066	1	06/03/19 12:08	06/05/19 13:55	83-32-9	
Acenaphthylene	**<0.0054**	ug/L	0.027	0.0054	1	06/03/19 12:08	06/05/19 13:55	208-96-8	
Anthracene	**0.024J**	ug/L	0.057	0.011	1	06/03/19 12:08	06/05/19 13:55	120-12-7	
Benzo(a)anthracene	**0.089**	ug/L	0.041	0.0082	1	06/03/19 12:08	06/05/19 13:55	56-55-3	
Benzo(a)pyrene	**0.11**	ug/L	0.057	0.011	1	06/03/19 12:08	06/05/19 13:55	50-32-8	
Benzo(b)fluoranthene	**0.28**	ug/L	0.031	0.0062	1	06/03/19 12:08	06/05/19 13:55	205-99-2	
Benzo(g,h,i)perylene	**0.14**	ug/L	0.037	0.0074	1	06/03/19 12:08	06/05/19 13:55	191-24-2	
Benzo(k)fluoranthene	**0.16**	ug/L	0.041	0.0082	1	06/03/19 12:08	06/05/19 13:55	207-08-9	
Chrysene	**0.25**	ug/L	0.071	0.014	1	06/03/19 12:08	06/05/19 13:55	218-01-9	
Dibenz(a,h)anthracene	**0.022J**	ug/L	0.054	0.011	1	06/03/19 12:08	06/05/19 13:55	53-70-3	
Fluoranthene	**0.46**	ug/L	0.058	0.012	1	06/03/19 12:08	06/05/19 13:55	206-44-0	
Fluorene	**<0.0087**	ug/L	0.043	0.0087	1	06/03/19 12:08	06/05/19 13:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.11**	ug/L	0.096	0.019	1	06/03/19 12:08	06/05/19 13:55	193-39-5	
1-Methylnaphthalene	**<0.0064**	ug/L	0.032	0.0064	1	06/03/19 12:08	06/05/19 13:55	90-12-0	
2-Methylnaphthalene	**<0.0053**	ug/L	0.027	0.0053	1	06/03/19 12:08	06/05/19 13:55	91-57-6	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	06/03/19 12:08	06/05/19 13:55	91-20-3	
Phenanthrene	**0.20**	ug/L	0.075	0.015	1	06/03/19 12:08	06/05/19 13:55	85-01-8	
Pyrene	**0.36**	ug/L	0.042	0.0083	1	06/03/19 12:08	06/05/19 13:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	49	%	30-85		1	06/03/19 12:08	06/05/19 13:55	321-60-8	
Terphenyl-d14 (S)	75	%	10-120		1	06/03/19 12:08	06/05/19 13:55	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		06/03/19 09:33	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		06/03/19 09:33	100-41-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		06/03/19 09:33	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		06/03/19 09:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		06/03/19 09:33	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		06/03/19 09:33	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		06/03/19 09:33	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		06/03/19 09:33	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Sample: 052919018 **Lab ID: 40188522004** Collected: 05/29/19 14:26 Received: 05/30/19 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Dibromofluoromethane (S)	114	%	70-130		1		06/03/19 09:33	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		06/03/19 09:33	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		06/03/19 09:33	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Sulfate	**312**	mg/L	60.0	20.0	20		06/12/19 14:36	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		06/04/19 15:25		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

QC Batch: 323400 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

METHOD BLANK: 1877944 Matrix: Water
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.084	0.28	06/06/19 09:02	

LABORATORY CONTROL SAMPLE: 1877945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1877946 1877947

Parameter	Units	40188497001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.084	5	5	5.0	5.0	100	99	85-115	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

QC Batch: 323840 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

METHOD BLANK: 1880721 Matrix: Water
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	06/11/19 18:40	
Barium, Dissolved	ug/L	<1.5	4.9	06/10/19 23:36	
Cadmium, Dissolved	ug/L	<0.15	1.0	06/11/19 18:40	
Chromium, Dissolved	ug/L	<1.0	3.4	06/12/19 21:31	
Iron, Dissolved	ug/L	<111	368	06/11/19 18:40	
Lead, Dissolved	ug/L	<0.24	1.0	06/11/19 18:40	
Manganese, Dissolved	ug/L	<2.7	9.0	06/11/19 18:40	
Selenium, Dissolved	ug/L	<0.32	1.1	06/11/19 18:40	
Silver, Dissolved	ug/L	<0.10	0.50	06/11/19 18:40	

LABORATORY CONTROL SAMPLE: 1880722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	460	92	80-120	
Barium, Dissolved	ug/L	500	473	95	80-120	
Cadmium, Dissolved	ug/L	500	475	95	80-120	
Chromium, Dissolved	ug/L	500	488	98	80-120	
Iron, Dissolved	ug/L	5000	4700	94	80-120	
Lead, Dissolved	ug/L	500	466	93	80-120	
Manganese, Dissolved	ug/L	500	454	91	80-120	
Selenium, Dissolved	ug/L	500	493	99	80-120	
Silver, Dissolved	ug/L	250	238	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1880723 1880724

Parameter	Units	40188522001 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	<2.8	500	500	489	489	98	98	75-125	0	20	
Barium, Dissolved	ug/L	419	500	500	902	913	97	99	75-125	1	20	
Cadmium, Dissolved	ug/L	<1.5	500	500	483	486	96	97	75-125	1	20	
Chromium, Dissolved	ug/L	<10.2	500	500	501	501	100	100	75-125	0	20	
Iron, Dissolved	ug/L	<1110	5000	5000	5740	5760	96	96	75-125	0	20	
Lead, Dissolved	ug/L	<2.4	500	500	491	497	98	99	75-125	1	20	
Manganese, Dissolved	ug/L	538	500	500	982	994	89	91	75-125	1	20	
Selenium, Dissolved	ug/L	<3.2	500	500	510	519	102	104	75-125	2	20	
Silver, Dissolved	ug/L	<1.0	250	250	239	239	96	95	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

QC Batch: 323066 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

METHOD BLANK: 1876535 Matrix: Water
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/03/19 07:03	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/03/19 07:03	
Benzene	ug/L	<0.25	1.0	06/03/19 07:03	
Ethylbenzene	ug/L	<0.22	1.0	06/03/19 07:03	
m&p-Xylene	ug/L	<0.47	2.0	06/03/19 07:03	
o-Xylene	ug/L	<0.26	1.0	06/03/19 07:03	
Toluene	ug/L	<0.17	5.0	06/03/19 07:03	
Xylene (Total)	ug/L	<1.5	3.0	06/03/19 07:03	
4-Bromofluorobenzene (S)	%	86	70-130	06/03/19 07:03	
Dibromofluoromethane (S)	%	107	70-130	06/03/19 07:03	
Toluene-d8 (S)	%	90	70-130	06/03/19 07:03	

LABORATORY CONTROL SAMPLE: 1876536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	44.7	89	70-130	
Ethylbenzene	ug/L	50	51.1	102	80-124	
m&p-Xylene	ug/L	100	109	109	70-130	
o-Xylene	ug/L	50	54.1	108	70-130	
Toluene	ug/L	50	48.6	97	80-126	
Xylene (Total)	ug/L	150	163	108	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			91	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1876553 1876554

Parameter	Units	40188522001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	45.7	46.7	91	93	70-130	2	20	
Ethylbenzene	ug/L	<0.22	50	50	52.7	52.4	105	105	80-125	0	20	
m&p-Xylene	ug/L	<0.47	100	100	114	112	114	112	70-130	1	20	
o-Xylene	ug/L	<0.26	50	50	55.3	55.1	111	110	70-130	0	20	
Toluene	ug/L	<0.17	50	50	50.1	50.3	100	100	80-131	0	20	
Xylene (Total)	ug/L	<1.5	150	150	169	168	113	112	70-130	1	20	
4-Bromofluorobenzene (S)	%						99	99	70-130			
Dibromofluoromethane (S)	%						106	110	70-130			
Toluene-d8 (S)	%						93	92	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

QC Batch: 323077 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

METHOD BLANK: 1876583 Matrix: Water
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/04/19 14:30	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/04/19 14:30	
Acenaphthene	ug/L	<0.0061	0.030	06/04/19 14:30	
Acenaphthylene	ug/L	<0.0050	0.025	06/04/19 14:30	
Anthracene	ug/L	<0.010	0.052	06/04/19 14:30	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/04/19 14:30	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/04/19 14:30	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/04/19 14:30	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/04/19 14:30	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/04/19 14:30	
Chrysene	ug/L	<0.013	0.065	06/04/19 14:30	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/04/19 14:30	
Fluoranthene	ug/L	<0.011	0.053	06/04/19 14:30	
Fluorene	ug/L	<0.0080	0.040	06/04/19 14:30	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/04/19 14:30	
Naphthalene	ug/L	<0.018	0.092	06/04/19 14:30	
Phenanthrene	ug/L	<0.014	0.069	06/04/19 14:30	
Pyrene	ug/L	<0.0076	0.038	06/04/19 14:30	
2-Fluorobiphenyl (S)	%	72	30-85	06/04/19 14:30	
Terphenyl-d14 (S)	%	110	10-120	06/04/19 14:30	

LABORATORY CONTROL SAMPLE & LCSD: 1876584 1876585

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	1.1	58	56	39-88	3	29	
2-Methylnaphthalene	ug/L	2	1.1	1.1	57	56	40-93	2	29	
Acenaphthene	ug/L	2	1.4	1.3	68	65	43-102	4	30	
Acenaphthylene	ug/L	2	1.2	1.2	62	61	42-103	3	31	
Anthracene	ug/L	2	1.5	1.4	74	69	52-105	8	36	
Benzo(a)anthracene	ug/L	2	1.4	1.3	68	66	39-120	3	39	
Benzo(a)pyrene	ug/L	2	1.6	1.5	78	76	57-117	2	39	
Benzo(b)fluoranthene	ug/L	2	1.3	1.3	64	64	54-117	0	41	
Benzo(g,h,i)perylene	ug/L	2	0.70	0.80	35	40	32-82	13	44	
Benzo(k)fluoranthene	ug/L	2	1.9	1.9	95	93	56-123	2	39	
Chrysene	ug/L	2	1.9	1.9	95	93	63-122	2	38	
Dibenz(a,h)anthracene	ug/L	2	0.61	0.66	31	33	23-76	8	46	
Fluoranthene	ug/L	2	1.3	1.4	67	70	52-112	4	35	
Fluorene	ug/L	2	1.4	1.4	68	70	46-116	3	33	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	1.4	71	69	49-110	3	32	
Naphthalene	ug/L	2	1.2	1.2	60	59	37-84	1	29	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

LABORATORY CONTROL SAMPLE & LCSD: 1876584 1876585

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Phenanthrene	ug/L	2	1.3	1.2	65	62	50-104	4	36	
Pyrene	ug/L	2	1.6	1.6	82	79	57-123	4	36	
2-Fluorobiphenyl (S)	%				61	64	30-85			
Terphenyl-d14 (S)	%				101	99	10-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

QC Batch: 323787 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

METHOD BLANK: 1880311 Matrix: Water
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	06/11/19 20:34	

LABORATORY CONTROL SAMPLE: 1880312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.7	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1880313 1880314

Parameter	Units	40188522001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	94.3	100	100	225	196	131	102	90-110	14	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1880315 1880316

Parameter	Units	40188527001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	128	100	100	231	230	102	102	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

QC Batch: 323306 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

METHOD BLANK: 1877475 Matrix: Water
Associated Lab Samples: 40188522001, 40188522002, 40188522003, 40188522004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	06/04/19 15:08	

LABORATORY CONTROL SAMPLE: 1877476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1877477 1877478

Parameter	Units	40188497001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	5.6	2.5	2.5	8.0	8.0	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1877479 1877480

Parameter	Units	40188525001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.48	12.5	12.5	12.1	11.9	96	94	90-110	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

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.

BATCH QUALIFIERS

Batch: 323199

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

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

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188522

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40188522001	**052919015**	EPA 3010	323840	EPA 6020	323934
40188522002	**052919016**	EPA 3010	323840	EPA 6020	323934
40188522003	**052919017**	EPA 3010	323840	EPA 6020	323934
40188522004	**052919018**	EPA 3010	323840	EPA 6020	323934
40188522001	**052919015**	EPA 7470	323400	EPA 7470	323482
40188522002	**052919016**	EPA 7470	323400	EPA 7470	323482
40188522003	**052919017**	EPA 7470	323400	EPA 7470	323482
40188522004	**052919018**	EPA 7470	323400	EPA 7470	323482
40188522001	**052919015**	EPA 3510	323077	EPA 8270 by HVI	323199
40188522002	**052919016**	EPA 3510	323077	EPA 8270 by HVI	323199
40188522003	**052919017**	EPA 3510	323077	EPA 8270 by HVI	323199
40188522004	**052919018**	EPA 3510	323077	EPA 8270 by HVI	323199
40188522001	**052919015**	EPA 8260	323066		
40188522002	**052919016**	EPA 8260	323066		
40188522003	**052919017**	EPA 8260	323066		
40188522004	**052919018**	EPA 8260	323066		
40188522001	**052919015**	EPA 300.0	323787		
40188522002	**052919016**	EPA 300.0	323787		
40188522003	**052919017**	EPA 300.0	323787		
40188522004	**052919018**	EPA 300.0	323787		
40188522001	**052919015**	EPA 353.2	323306		
40188522002	**052919016**	EPA 353.2	323306		
40188522003	**052919017**	EPA 353.2	323306		
40188522004	**052919018**	EPA 353.2	323306		

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Pace Drop off

QC: ABB 5/30/19

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC #: 70712-0519-001

4101185 22

Page: 1 of 3

Section A Required Client Information:

Company:	O'Brien & Gere
Address:	234 W. Florida St
	Milwaukee, WI
Email To:	GDSdata@OBG.com
Phone: 414-335-3563	Fax:
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	GDSdata@OBG.com
Copy To:	Staci Goetz
Purchase Order No.:	
Project Name:	Green Bay Former MGP
Project Number:	70712/232

Section C Invoice Information:

Attention:	Accounts Payable
Company Name:	WEC Business Services, LLC
Address:	PO Box 19800, Green Bay, WI 54307
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX (8260)	1,2,4- Trimethylbenzene**	1,3,5- Trimethylbenzene**	PAHs (8270) HVI	Metals (6020)*	NO2+NO3 (353.2)	Sulfate (300.0)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																Y/N	N	N	N	N	Y	N	N		
1	052819001	GW	G	5-28-19	1204		8	X	X	X	X						X	X	X	X	X	X	X		3
2	052819002				1300		8	X	X	X	X						X	X	X	X	X	X	X		3
3	052819003				1355		8	X	X	X	X						X	X	X	X	X	X	X		3
4	052819004				1500		24	X	X	X	X						X	X	X	X	X	X	X		D MS/MSD
5	052819005				1605		8	X	X	X	X						X	X	X	X	X	X	X		D
6	052819006				1651		8	X	X	X	Y						X	X	X	X	X	X	X		D
7	052819007				1758		8	X	X	X	Y						X	X	X	X	X	X	X		D
8	~~052819008~~				1820		8	X	X	X	X						X	X	X	X	X	X	X		D MS/MSD
9	052819008	DI	G		1820		6	X		X	X						X			X	X				D
10	052919009	GW	G	5-29-19	0735		8	X	X	X	X						X	X	X	X	X	X	X		4
11	052819010				0824		8	X	X	X	X						X	X	X	X	X	X	X		D
12	052919011				0829		8	X	X	X	X						X	X	X	X	X	X	X		D

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
EPA Level 2 MS/MSD	OBG	5-30-19	1100		5/30/19	1100
*Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn						
**1,2,4- Trimethylbenzene (8260)						
**1,3,5- Trimethylbenzene (8260)						

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
RW	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Melissa Marra

SIGNATURE of SAMPLER: Melissa Marra

DATE Signed (MM/DD/YY): 5/29/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Drop off

QC: ABB 5/30/19

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CHAIN-OF-CUSTODY / Analytical Request Document

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

COC: 70712-0519-002

40188522

Page: 2 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	O'Brien & Gere	Report To:	GDSdata@OBG.com	Attention:	Accounts Payable
Address:	234 W. Florida St	Copy To:	Staci Goetz	Company Name:	WEC Business Services, LLC
	Milwaukee, WI			Address:	PO Box 19800, Green Bay, WI 54307
Email To:	GDSdata@OBG.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	414-335-3563 Fax:	Project Name:	Green Bay Former MGP	Pace Project Manager:	
Requested Due Date/TAT:	standard	Project Number:	70712/232	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N): BTEX N, 1,2,4-Trimethylbenzene N, 1,3,5-Trimethylbenzene N, PAHs N, Metals Y, NO2+NO3 N, Sulfate N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX (8260)	1,2,4- Trimethylbenzene**	1,3,5- Trimethylbenzene**	PAHs (8270) HVI	Metals (6020)*	NO2+NO3 (353.2)	Sulfate (300.0)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	052919012	GW	G			5-29-19	0921		8	X	X	X	X	X				X	X	X	X	X	X	X		(1)
2	052919013	↓	↓			↓	1006		8	X	X	X	X	X				X	X	X	X	X	X	X		(1)
3	052919014						1042		8	X	X	X	X					X	X	X	X	X	X	X		(1)
4	052919015						1123		8	X	X	X	X					X	X	X	X	X	X	X		(2) 001
5	052919016						1244		8	X	X	X	X					X	X	X	X	X	X	X		(2) 002
6	~~052919016~~ mm 052919017						1343		8	X	X	X	X					X	X	X	X	X	X	X		(2) 003
7	052919018						1426		8	X	X	X	X					X	X	X	X	X	X	X		(2) 004
8	052919019						1504		8	X	X	X	X					X	X	X	X	X	X	X		(1)
9	052919020						1550		8	X	X	X	X					X	X	X	X	X	X	X		(1)
10	052919021						1555		8	X	X	X	X					X	X	X	X	X	X	X		(1)
11	052919022						1658		8	X	X	X	X					X	X	X	X	X	X	X		(1)
12	052919023	DI	↓			↓	1720		6	X		X	X					X			X	X				(1)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level ~~4~~ 2 mm	[signature] OBG	5-30-19	1100	[signature]	5/30/19	1100	1.1	Y	N	Y
*Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn										
**1,2,4- Trimethylbenzene (8260)										
**1,3,5- Trimethylbenzene (8260)										
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Melissa Marra

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/29/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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Pace Drop off
QC: ADB 5/30/19

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC: 70712-0519-003
46188522

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	O'Brien & Gere	Report To:	GDSdata@OBG.com	Attention:	Accounts Payable
Address:	234 W. Florida St	Copy To:	Staci Goetz	Company Name:	WEC Business Services, LLC
	Milwaukee, WI			Address:	PO Box 19800, Green Bay, WI 54307
Email To:	GDSdata@OBG.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	414-335-3563 Fax:	Project Name:	Green Bay Former MGP	Pace Project Manager:	
Requested Due Date/TAT:	standard	Project Number:	70712/232	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX (8260)	1,2,4- Trimethylbenzene**	1,3,5- Trimethylbenzene**	PAHs (8270) HVI	Metals (6020)*	NO2+NO3 (353.2)	Sulfate (300.0)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		N	N	N	N	N	Y	N	N	
1	053019024	GW	G			5-30-19	0826		8	X	X	X	X					X	X	X	X	X	X	X		1
2	053019025	DI	G				0900		6	X		X	X					X			X	X				1
3	053019026	↓	↓			↓	—		2				X					X	X	X						1
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

MSM 5.30.19

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2 MSM	OBG	5-30-19	1100	Pace	5/30/19	1100	R01	Y	N	Y
*Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn										
**1,2,4- Trimethylbenzene (8260)										
**1,3,5- Trimethylbenzene (8260)										

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Melissa Marra				
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	5/30/19	Temp in °C	Received on Ice (Y/N) / Custody Sealed Cooler (Y/N) / Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

Sample Preservation Receipt Form

Client Name: OBG

Project # 40188522

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

Lab Lot# of pH paper: 101533581 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SW Date/ Time:

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	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001					2						1		1	1				3										X			X		2.5 / 5 / 10
002					2						1		1	1				3										X			X		2.5 / 5 / 10
003					2						1		1	1				3										X			X		2.5 / 5 / 10
004					2						1		1	1				3										X			X		2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																4/20/18 SW																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP2N	500 mL plastic HNO3
BP2Z	500 mL plastic NaOH, Znact
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

DG9A	40 mL amber ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres

SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: OBG

Project #: WO#: 40188522

40188522

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

Tracking #: _____

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

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

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

Thermometer Used SR - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr:

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

Person examining contents:
Date: 5-30-19
Initials: SLW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 5-31-19

Wisconsin Public Service Corporation
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.wisconsinpublicservice.com

July 3, 2019

Mr. Steven M. Grenier, P.E.
City of Green Bay
100 North Jefferson Street
Green Bay, WI, 54301

RE: Recent Sampling Results
Wisconsin Public Service Corporation – Former Green Bay Manufactured Gas Plant
700 North Adams Street, Green Bay, WI
WDNR BRRTS Activity # 02-05-000254

Dear Mr. Grenier:

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant (MGP) site at 700 North Adams Street is providing results of groundwater samples collected on your property as part of routine monitoring (MW-407, MW-417, MW-418) collected in May of 2019, as part of site characterization. Wisconsin Administrative Code Chapter NR716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

Results of the sampling are summarized in the attached documents. This includes summary tables of the results compared to State standards. Copies of the relevant portions of the associated laboratory reports and a figure showing the locations of samples collected on your property are also included. The results will be presented in a future Remedial Investigation Report.

We appreciate your cooperation with environmental sampling activities on your property. If you need additional information, please contact Tauren Beggs from the WDNR at 920-662-5178 or myself at 414-221-2156.

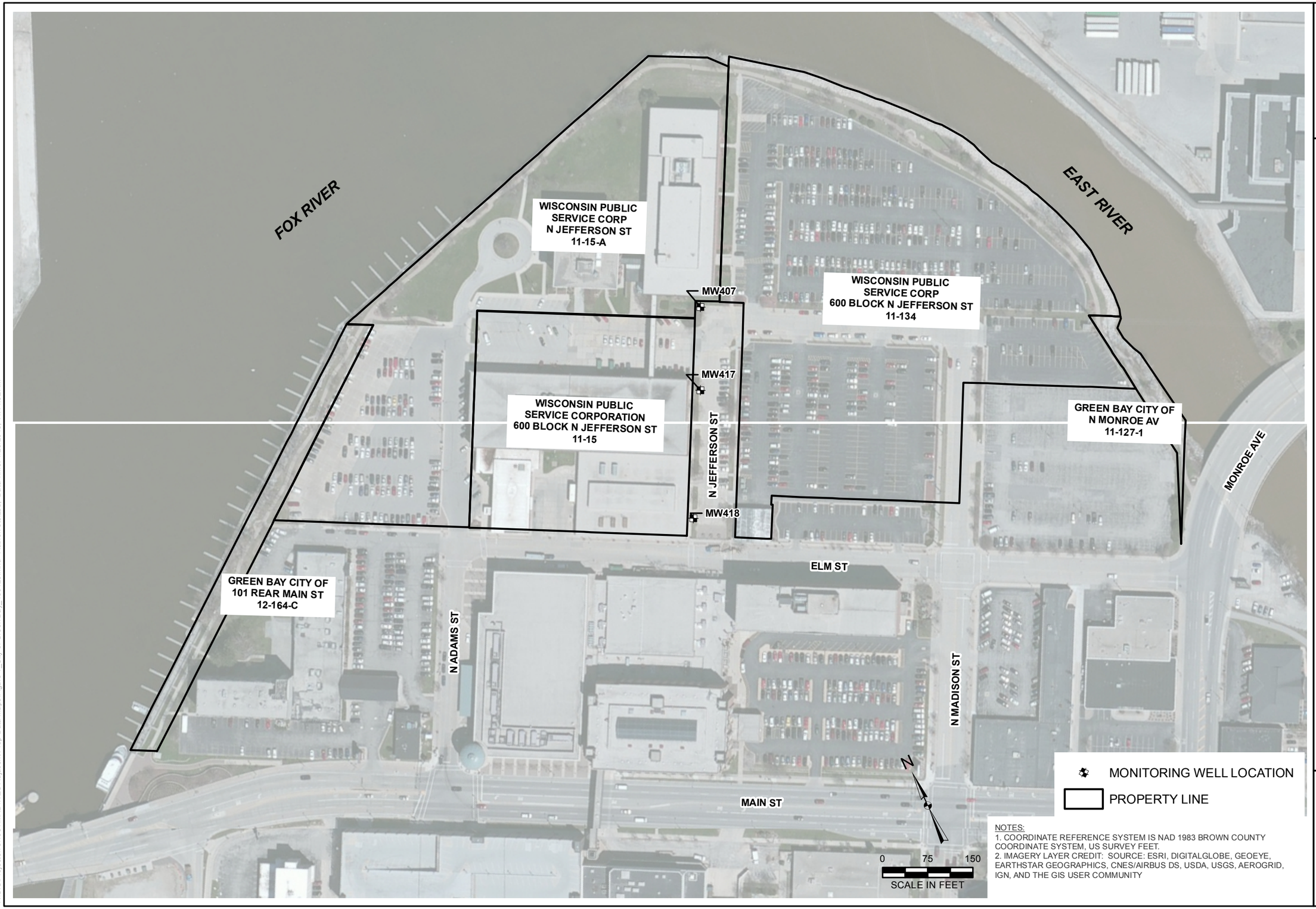
Sincerely,

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

Encl: Figure 1 - City of Green Bay
Table 1 - Groundwater Analytical Results for City of Green Bay (May 2019)
Laboratory Data Reports - 40188497_frc

CC: Project file
USEPA RPM – Sarah Rolfes (via email)
WDNR PM – Tauren Beggs (via US Mail and email)
WDNR Northeast Region (via email to DNRRRNER@wisconsin.gov)
Ms. Staci Goetz, OBG (via email)
WPSC – Bob Laskowski (via email)

Figures



NOTES:
1. COORDINATE REFERENCE SYSTEM IS NAD 1983 BROWN COUNTY COORDINATE SYSTEM, US SURVEY FEET.
2. IMAGERY LAYER CREDIT: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

DRAWN BY/DATE: SDS 1/26/18
REVIEWED BY/DATE: BGH 1/26/18
APPROVED BY/DATE: BGH 1/26/18

CITY OF GREEN BAY

FORMER GREEN BAY MANUFACTURED GAS PLANT
WISCONSIN PUBLIC SERVICE CORPORATION
GREEN BAY, WISCONSIN
BRRTS# 0205000254

PROJECT NO: 67983

FIGURE NO: 1

Tables

Table 1. Groundwater Analytical Results for the City of Green Bay

May 2019 Sample Results Notification
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin
BRRTS#: 02-05-000254 USEPA#: WIN000509948

			PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH	
9-digit Code	Sample Location	Sample Date	1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
	Reporting Units:	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
	WI Groundwater ES:		**NS**		**NS**		**NS**		**NS**		**3,000**		**NS**		**0.2**		**0.2**		**NS**		**NS**		**0.2**		**NS**		**400**		**400**		**NS**		**100**		**NS**		**250**	
	WI Groundwater PAL:		NS		NS		NS		NS		600		NS		0.02		0.02		NS		NS		0.02		NS		80		80		NS		10		NS		50	
052819003	MW-407	05/28/2019	0.0077	J	0.0090	J	<0.0071	U	<0.0058	U	<0.012	U	<0.0088	U	<0.012	U	0.0095	J	<0.0079	U	0.011	J	<0.015	U	<0.012	U	0.016	J	<0.0093	U	<0.021	U	<0.021	U	0.022	J	0.021	J
052819002	MW-417	05/28/2019	0.0076	J	0.0069	J	<0.0065	U	<0.0053	U	<0.011	U	<0.0080	U	<0.011	U	0.0071	J	<0.0072	U	<0.0080	U	<0.014	U	<0.011	U	<0.011	U	<0.0085	U	<0.019	U	<0.020	U	0.016	J	0.013	J
052819001	MW-418	05/28/2019	0.0077	J	0.0095	J	<0.0067	U	<0.0055	U	<0.012	U	0.038	J	<0.012	U	0.015	J	0.0096	J	0.014	J	0.017	J	<0.011	U	0.026	J	<0.0089	U	<0.020	U	<0.020	U	0.026	J	0.027	J

Notes:
BOLD = concentration that attains or exceeds WDNR ES
Underline = concentration that attains or exceeds WDNR PAL
* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

< = Concentration is less than reported limit
µg/L = micrograms per liter
BTEX = benzene, toluene, ethylbenzene and xylenes
ES = Enforcement Standard
J = Concentration estimated
NO2 + NO3 = nitrite plus nitrate
NS = A groundwater quality standard has not been established.
PAH = polycyclic aromatic hydrocarbons
PAL = Preventive Action Limit
U = Not detected
VOC = Volatile Organic Compound

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.
PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

1. Total trimethylbenzenes were calculated by OBG 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 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

Table 1. Groundwater Analytical Results for the City of Green Bay

May 2019 Sample Results Notification
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin
BRRTS#: 02-05-000254 USEPA#: WIN000509948

			BTEX		BTEX		BTEX		BTEX		BTEX		VOC		VOC		VOC		Metal		Metal		Metal		Metal		Metal		Metal		Metal		Metal		Metal		Inorganic		Inorganic	
9-digit Code	Sample Location	Sample Date	Benzene		Ethylbenzene		Toluene		Xylene, o		Xylenes, m + p		Xylenes, Total		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		Trimethylbenzenes, Total[1]		Arsenic, Dissolved		Barium, Dissolved		Cadmium, Dissolved		Chromium, Dissolved		Iron, Dissolved		Lead, Dissolved		Manganese, Dissolved		Mercury, Dissolved		Selenium, Dissolved		Silver, Dissolved		Nitrogen, NO2 + NO3, 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		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
WI Groundwater ES:			**5**		**700**		**800**		**NS**		**NS**		**2,000**		NS		NS		**480**		**10**		**2,000**		**5**		**100**		**300**		**15**		**50**		**2**		**50**		**50**		**10,000**		**250,000**	
WI Groundwater PAL:			0.5		140		160		NS		NS		400		NS		NS		96		1		400		0.5		10		150		1.5		25		0.2		10		10		2,000		125,000	
052819003	MW-407	05/28/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.84	U	<0.87	U	<1.71	U	<2.8*	U	412		<1.5*	U	<10.2*	U	**6,220**		<2.4*	U	**342**		<0.084	U	<3.2	U	<1.0	U	<95	U	165,000	
052819002	MW-417	05/28/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.84	U	<0.87	U	<1.71	U	3.1	J	469		<1.5*	U	<10.2*	U	**6,580**		<2.4*	U	**590**		<0.084	U	<3.2	U	<1.0	U	2,000		108,000	
052819001	MW-418	05/28/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.84	U	<0.87	U	<1.71	U	0.44	J	227		<0.15	U	<1.0	U	<111	U	<0.24	U	**185**		<0.084	U	10.7		<0.10	U	5,600		86,800	

[O:MGP 6/24/19, C:SGW 6/25/19, QA:JLG 6/17/19]

Notes:
BOLD = concentration that attains or exceeds WDNR ES
Underline = concentration that attains or exceeds WDNR PAL
* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

< = Concentration is less than reported limit
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VOC = Volatile Organic Compound

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.
PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

1. Total trimethylbenzenes were calculated by OBG 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 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

Laboratory Data Reports

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

June 11, 2019

Staci Goetz
O'Brien & Gere Engineers, Inc

,

RE: Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Dear Staci Goetz:
Enclosed are the analytical results for sample(s) received by the laboratory on May 30, 2019. 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,

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

Enclosures

cc: Phil Brochocki, OBG
NRT Data, OBG
Eric Hritsuk, OBG
Robert Paulson, We Energies
Steve Wiskes, OBG

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

CERTIFICATIONS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40188497001	**052819001**	Water	05/28/19 12:04	05/30/19 11:00
40188497002	**052819002**	Water	05/28/19 13:00	05/30/19 11:00
40188497003	**052819003**	Water	05/28/19 13:55	05/30/19 11:00

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40188497001	**052819001**	EPA 6020	DS1, KXS	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40188497002	**052819002**	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40188497003	**052819003**	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

Pace Analytical Services, LLC
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(920)469-2436

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
3 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 322901

1q: Analyte was measured in the associated method blank at -0.12 ug/L.
- 052819001 (Lab ID: 40188497001)
  - Silver, Dissolved
- 052819002 (Lab ID: 40188497002)
  - Silver, Dissolved
- 052819003 (Lab ID: 40188497003)
  - Silver, Dissolved

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- 052819002 (Lab ID: 40188497002)
  - Silver, Dissolved
  - Arsenic, Dissolved

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

Analyte Comments:

QC Batch: 322901

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

- 052819002 (Lab ID: 40188497002)
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved
- 052819003 (Lab ID: 40188497003)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Lead, Dissolved
  - Selenium, Dissolved

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
3 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Method: **EPA 8270 by HVI**
Description: 8270 MSSV PAH by HVI
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
3 samples were analyzed for EPA 8270 by HVI. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Method: **EPA 8260**
Description: 8260 MSV UST
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
3 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
3 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Sample: 052819001 **Lab ID: 40188497001** Collected: 05/28/19 12:04 Received: 05/30/19 11:00 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	**0.44J**	ug/L	1.0	0.28	1	05/31/19 06:35	06/06/19 21:46	7440-38-2	
Barium, Dissolved	**227**	ug/L	4.9	1.5	1	05/31/19 06:35	06/06/19 21:46	7440-39-3	
Cadmium, Dissolved	**<0.15**	ug/L	1.0	0.15	1	05/31/19 06:35	06/06/19 21:46	7440-43-9	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	05/31/19 06:35	06/07/19 19:25	7440-47-3	
Iron, Dissolved	**<111**	ug/L	368	111	1	05/31/19 06:35	06/06/19 21:46	7439-89-6	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	05/31/19 06:35	06/07/19 19:25	7439-92-1	
Manganese, Dissolved	**185**	ug/L	9.0	2.7	1	05/31/19 06:35	06/06/19 21:46	7439-96-5	
Selenium, Dissolved	**10.7**	ug/L	1.1	0.32	1	05/31/19 06:35	06/06/19 21:46	7782-49-2	
Silver, Dissolved	**<0.10**	ug/L	0.50	0.10	1	05/31/19 06:35	06/06/19 21:46	7440-22-4	1q
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	06/05/19 10:20	06/06/19 09:07	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0067**	ug/L	0.034	0.0067	1	06/03/19 08:13	06/03/19 18:23	83-32-9	
Acenaphthylene	**<0.0055**	ug/L	0.028	0.0055	1	06/03/19 08:13	06/03/19 18:23	208-96-8	
Anthracene	**<0.012**	ug/L	0.058	0.012	1	06/03/19 08:13	06/03/19 18:23	120-12-7	
Benzo(a)anthracene	**0.038J**	ug/L	0.042	0.0084	1	06/03/19 08:13	06/03/19 18:23	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.058	0.012	1	06/03/19 08:13	06/03/19 18:23	50-32-8	
Benzo(b)fluoranthene	**0.015J**	ug/L	0.032	0.0064	1	06/03/19 08:13	06/03/19 18:23	205-99-2	
Benzo(g,h,i)perylene	**0.0096J**	ug/L	0.038	0.0075	1	06/03/19 08:13	06/03/19 18:23	191-24-2	
Benzo(k)fluoranthene	**0.014J**	ug/L	0.042	0.0084	1	06/03/19 08:13	06/03/19 18:23	207-08-9	
Chrysene	**0.017J**	ug/L	0.072	0.014	1	06/03/19 08:13	06/03/19 18:23	218-01-9	
Dibenz(a,h)anthracene	**<0.011**	ug/L	0.056	0.011	1	06/03/19 08:13	06/03/19 18:23	53-70-3	
Fluoranthene	**0.026J**	ug/L	0.059	0.012	1	06/03/19 08:13	06/03/19 18:23	206-44-0	
Fluorene	**<0.0089**	ug/L	0.044	0.0089	1	06/03/19 08:13	06/03/19 18:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.020**	ug/L	0.098	0.020	1	06/03/19 08:13	06/03/19 18:23	193-39-5	
1-Methylnaphthalene	**0.0077J**	ug/L	0.033	0.0066	1	06/03/19 08:13	06/03/19 18:23	90-12-0	
2-Methylnaphthalene	**0.0095J**	ug/L	0.027	0.0054	1	06/03/19 08:13	06/03/19 18:23	91-57-6	
Naphthalene	**<0.020**	ug/L	0.10	0.020	1	06/03/19 08:13	06/03/19 18:23	91-20-3	
Phenanthrene	**0.026J**	ug/L	0.077	0.015	1	06/03/19 08:13	06/03/19 18:23	85-01-8	
Pyrene	**0.027J**	ug/L	0.043	0.0085	1	06/03/19 08:13	06/03/19 18:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	30-85		1	06/03/19 08:13	06/03/19 18:23	321-60-8	
Terphenyl-d14 (S)	83	%	10-120		1	06/03/19 08:13	06/03/19 18:23	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/31/19 14:54	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/31/19 14:54	100-41-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/31/19 14:54	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/31/19 14:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/31/19 14:54	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/31/19 14:54	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		05/31/19 14:54	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		05/31/19 14:54	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Sample: 052819001 **Lab ID: 40188497001** Collected: 05/28/19 12:04 Received: 05/30/19 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		1		05/31/19 14:54	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		05/31/19 14:54	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		05/31/19 14:54	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Sulfate	**86.8**	mg/L	15.0	5.0	5		06/11/19 10:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**5.6**	mg/L	0.25	0.095	1		06/04/19 15:17		

Sample: 052819002 **Lab ID: 40188497002** Collected: 05/28/19 13:00 Received: 05/30/19 11:00 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	**3.1J**	ug/L	10.0	2.8	10	05/31/19 06:35	06/07/19 19:31	7440-38-2	D3
Barium, Dissolved	**469**	ug/L	48.7	14.6	10	05/31/19 06:35	06/07/19 19:31	7440-39-3	
Cadmium, Dissolved	**<1.5**	ug/L	10.0	1.5	10	05/31/19 06:35	06/07/19 19:31	7440-43-9	D3
Chromium, Dissolved	**<10.2**	ug/L	34.0	10.2	10	05/31/19 06:35	06/07/19 19:31	7440-47-3	D3
Iron, Dissolved	**6580**	ug/L	3680	1110	10	05/31/19 06:35	06/07/19 19:31	7439-89-6	
Lead, Dissolved	**<2.4**	ug/L	10.0	2.4	10	05/31/19 06:35	06/07/19 19:31	7439-92-1	D3
Manganese, Dissolved	**590**	ug/L	90.0	27.0	10	05/31/19 06:35	06/07/19 19:31	7439-96-5	
Selenium, Dissolved	**<3.2**	ug/L	10.6	3.2	10	05/31/19 06:35	06/07/19 19:31	7782-49-2	D3
Silver, Dissolved	**<1.0**	ug/L	5.0	1.0	10	05/31/19 06:35	06/07/19 19:31	7440-22-4	1q,D3
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	06/05/19 10:20	06/06/19 09:14	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0065**	ug/L	0.032	0.0065	1	06/03/19 08:13	06/03/19 18:42	83-32-9	
Acenaphthylene	**<0.0053**	ug/L	0.026	0.0053	1	06/03/19 08:13	06/03/19 18:42	208-96-8	
Anthracene	**<0.011**	ug/L	0.056	0.011	1	06/03/19 08:13	06/03/19 18:42	120-12-7	
Benzo(a)anthracene	**<0.0080**	ug/L	0.040	0.0080	1	06/03/19 08:13	06/03/19 18:42	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.056	0.011	1	06/03/19 08:13	06/03/19 18:42	50-32-8	
Benzo(b)fluoranthene	**0.0071J**	ug/L	0.031	0.0061	1	06/03/19 08:13	06/03/19 18:42	205-99-2	
Benzo(g,h,i)perylene	**<0.0072**	ug/L	0.036	0.0072	1	06/03/19 08:13	06/03/19 18:42	191-24-2	
Benzo(k)fluoranthene	**<0.0080**	ug/L	0.040	0.0080	1	06/03/19 08:13	06/03/19 18:42	207-08-9	
Chrysene	**<0.014**	ug/L	0.069	0.014	1	06/03/19 08:13	06/03/19 18:42	218-01-9	
Dibenz(a,h)anthracene	**<0.011**	ug/L	0.053	0.011	1	06/03/19 08:13	06/03/19 18:42	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.057	0.011	1	06/03/19 08:13	06/03/19 18:42	206-44-0	
Fluorene	**<0.0085**	ug/L	0.042	0.0085	1	06/03/19 08:13	06/03/19 18:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.019**	ug/L	0.094	0.019	1	06/03/19 08:13	06/03/19 18:42	193-39-5	
1-Methylnaphthalene	**0.0076J**	ug/L	0.031	0.0063	1	06/03/19 08:13	06/03/19 18:42	90-12-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Sample: 052819002 **Lab ID: 40188497002** Collected: 05/28/19 13:00 Received: 05/30/19 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
2-Methylnaphthalene	**0.0069J**	ug/L	0.026	0.0052	1	06/03/19 08:13	06/03/19 18:42	91-57-6	
Naphthalene	**<0.020**	ug/L	0.097	0.020	1	06/03/19 08:13	06/03/19 18:42	91-20-3	
Phenanthrene	**0.016J**	ug/L	0.073	0.015	1	06/03/19 08:13	06/03/19 18:42	85-01-8	
Pyrene	**0.013J**	ug/L	0.041	0.0081	1	06/03/19 08:13	06/03/19 18:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	30-85		1	06/03/19 08:13	06/03/19 18:42	321-60-8	
Terphenyl-d14 (S)	79	%	10-120		1	06/03/19 08:13	06/03/19 18:42	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/31/19 15:17	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/31/19 15:17	100-41-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/31/19 15:17	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/31/19 15:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/31/19 15:17	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/31/19 15:17	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		05/31/19 15:17	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		05/31/19 15:17	95-47-6	
Surrogates									
Dibromofluoromethane (S)	107	%	70-130		1		05/31/19 15:17	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		05/31/19 15:17	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		05/31/19 15:17	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Sulfate	**108**	mg/L	15.0	5.0	5		06/10/19 21:20	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**2.0**	mg/L	0.25	0.095	1		06/04/19 15:21		

Sample: 052819003 **Lab ID: 40188497003** Collected: 05/28/19 13:55 Received: 05/30/19 11:00 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	**<2.8**	ug/L	10.0	2.8	10	05/31/19 06:35	06/07/19 19:52	7440-38-2	D3
Barium, Dissolved	**412**	ug/L	48.7	14.6	10	05/31/19 06:35	06/07/19 19:52	7440-39-3	
Cadmium, Dissolved	**<1.5**	ug/L	10.0	1.5	10	05/31/19 06:35	06/07/19 19:52	7440-43-9	D3
Chromium, Dissolved	**<10.2**	ug/L	34.0	10.2	10	05/31/19 06:35	06/07/19 19:52	7440-47-3	D3
Iron, Dissolved	**6220**	ug/L	3680	1110	10	05/31/19 06:35	06/07/19 19:52	7439-89-6	
Lead, Dissolved	**<2.4**	ug/L	10.0	2.4	10	05/31/19 06:35	06/07/19 19:52	7439-92-1	D3
Manganese, Dissolved	**342**	ug/L	90.0	27.0	10	05/31/19 06:35	06/07/19 19:52	7439-96-5	
Selenium, Dissolved	**<3.2**	ug/L	10.6	3.2	10	05/31/19 06:35	06/07/19 19:52	7782-49-2	D3
Silver, Dissolved	**<1.0**	ug/L	5.0	1.0	10	05/31/19 06:35	06/07/19 19:52	7440-22-4	1q,D3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Sample: 052819003 **Lab ID: 40188497003** Collected: 05/28/19 13:55 Received: 05/30/19 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	06/05/19 10:20	06/06/19 09:16	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0071**	ug/L	0.035	0.0071	1	06/03/19 08:13	06/03/19 19:00	83-32-9	
Acenaphthylene	**<0.0058**	ug/L	0.029	0.0058	1	06/03/19 08:13	06/03/19 19:00	208-96-8	
Anthracene	**<0.012**	ug/L	0.061	0.012	1	06/03/19 08:13	06/03/19 19:00	120-12-7	
Benzo(a)anthracene	**<0.0088**	ug/L	0.044	0.0088	1	06/03/19 08:13	06/03/19 19:00	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.061	0.012	1	06/03/19 08:13	06/03/19 19:00	50-32-8	
Benzo(b)fluoranthene	**0.0095J**	ug/L	0.033	0.0067	1	06/03/19 08:13	06/03/19 19:00	205-99-2	
Benzo(g,h,i)perylene	**<0.0079**	ug/L	0.039	0.0079	1	06/03/19 08:13	06/03/19 19:00	191-24-2	
Benzo(k)fluoranthene	**0.011J**	ug/L	0.044	0.0088	1	06/03/19 08:13	06/03/19 19:00	207-08-9	
Chrysene	**<0.015**	ug/L	0.076	0.015	1	06/03/19 08:13	06/03/19 19:00	218-01-9	
Dibenz(a,h)anthracene	**<0.012**	ug/L	0.058	0.012	1	06/03/19 08:13	06/03/19 19:00	53-70-3	
Fluoranthene	**0.016J**	ug/L	0.062	0.012	1	06/03/19 08:13	06/03/19 19:00	206-44-0	
Fluorene	**<0.0093**	ug/L	0.046	0.0093	1	06/03/19 08:13	06/03/19 19:00	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.021**	ug/L	0.10	0.021	1	06/03/19 08:13	06/03/19 19:00	193-39-5	
1-Methylnaphthalene	**0.0077J**	ug/L	0.034	0.0069	1	06/03/19 08:13	06/03/19 19:00	90-12-0	
2-Methylnaphthalene	**0.0090J**	ug/L	0.028	0.0057	1	06/03/19 08:13	06/03/19 19:00	91-57-6	
Naphthalene	**<0.021**	ug/L	0.11	0.021	1	06/03/19 08:13	06/03/19 19:00	91-20-3	
Phenanthrene	**0.022J**	ug/L	0.080	0.016	1	06/03/19 08:13	06/03/19 19:00	85-01-8	
Pyrene	**0.021J**	ug/L	0.044	0.0089	1	06/03/19 08:13	06/03/19 19:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	30-85		1	06/03/19 08:13	06/03/19 19:00	321-60-8	
Terphenyl-d14 (S)	88	%	10-120		1	06/03/19 08:13	06/03/19 19:00	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/31/19 15:40	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/31/19 15:40	100-41-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/31/19 15:40	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/31/19 15:40	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/31/19 15:40	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/31/19 15:40	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		05/31/19 15:40	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		05/31/19 15:40	95-47-6	
Surrogates									
Dibromofluoromethane (S)	110	%	70-130		1		05/31/19 15:40	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		05/31/19 15:40	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		05/31/19 15:40	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Sulfate	**165**	mg/L	30.0	10.0	10		06/11/19 10:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		06/04/19 15:22		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

QC Batch: 323400 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40188497001, 40188497002, 40188497003

METHOD BLANK: 1877944 Matrix: Water
Associated Lab Samples: 40188497001, 40188497002, 40188497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.084	0.28	06/06/19 09:02	

LABORATORY CONTROL SAMPLE: 1877945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1877946 1877947

Parameter	Units	40188497001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.084	5	5	5.0	5.0	100	99	85-115	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

QC Batch: 322901 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40188497001, 40188497002, 40188497003

METHOD BLANK: 1875466 Matrix: Water
Associated Lab Samples: 40188497001, 40188497002, 40188497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	06/06/19 19:56	
Barium, Dissolved	ug/L	<1.5	4.9	06/06/19 19:56	
Cadmium, Dissolved	ug/L	<0.15	1.0	06/06/19 19:56	
Chromium, Dissolved	ug/L	<1.0	3.4	06/07/19 18:30	
Iron, Dissolved	ug/L	<111	368	06/06/19 19:56	
Lead, Dissolved	ug/L	<0.24	1.0	06/07/19 18:30	
Manganese, Dissolved	ug/L	<2.7	9.0	06/06/19 19:56	
Selenium, Dissolved	ug/L	<0.32	1.1	06/06/19 19:56	
Silver, Dissolved	ug/L	<0.10	0.50	06/06/19 19:56	

LABORATORY CONTROL SAMPLE: 1875467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	486	97	80-120	
Barium, Dissolved	ug/L	500	485	97	80-120	
Cadmium, Dissolved	ug/L	500	512	102	80-120	
Chromium, Dissolved	ug/L	500	495	99	80-120	
Iron, Dissolved	ug/L	5000	4940	99	80-120	
Lead, Dissolved	ug/L	500	465	93	80-120	
Manganese, Dissolved	ug/L	500	465	93	80-120	
Selenium, Dissolved	ug/L	500	527	105	80-120	
Silver, Dissolved	ug/L	250	244	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1875468 1875469

Parameter	Units	40188246003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	0.83J	500	500	488	494	97	99	75-125	1	20	
Barium, Dissolved	ug/L	30.8	500	500	514	522	97	98	75-125	2	20	
Cadmium, Dissolved	ug/L	0.62J	500	500	504	508	101	101	75-125	1	20	
Chromium, Dissolved	ug/L	<1.0	500	500	485	498	97	99	75-125	2	20	
Iron, Dissolved	ug/L	<111	5000	5000	4910	5020	98	100	75-125	2	20	
Lead, Dissolved	ug/L	0.24J	500	500	452	466	90	93	75-125	3	20	
Manganese, Dissolved	ug/L	3.4J	500	500	465	475	92	94	75-125	2	20	
Selenium, Dissolved	ug/L	2.8	500	500	526	526	105	105	75-125	0	20	
Silver, Dissolved	ug/L	0.20J	250	250	234	239	94	96	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

QC Batch: 322918 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40188497001, 40188497002, 40188497003

METHOD BLANK: 1875537 Matrix: Water
Associated Lab Samples: 40188497001, 40188497002, 40188497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/31/19 10:14	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/31/19 10:14	
Benzene	ug/L	<0.25	1.0	05/31/19 10:14	
Ethylbenzene	ug/L	<0.22	1.0	05/31/19 10:14	
m&p-Xylene	ug/L	<0.47	2.0	05/31/19 10:14	
o-Xylene	ug/L	<0.26	1.0	05/31/19 10:14	
Toluene	ug/L	<0.17	5.0	05/31/19 10:14	
Xylene (Total)	ug/L	<1.5	3.0	05/31/19 10:14	
4-Bromofluorobenzene (S)	%	89	70-130	05/31/19 10:14	
Dibromofluoromethane (S)	%	99	70-130	05/31/19 10:14	
Toluene-d8 (S)	%	94	70-130	05/31/19 10:14	

LABORATORY CONTROL SAMPLE: 1875538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.4	103	70-130	
Ethylbenzene	ug/L	50	53.2	106	80-124	
m&p-Xylene	ug/L	100	108	108	70-130	
o-Xylene	ug/L	50	50.8	102	70-130	
Toluene	ug/L	50	51.6	103	80-126	
Xylene (Total)	ug/L	150	159	106	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1875840 1875841

Parameter	Units	40188491006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	53.2	54.0	106	108	70-130	2	20	
Ethylbenzene	ug/L	<0.22	50	50	53.2	52.0	106	104	80-125	2	20	
m&p-Xylene	ug/L	<0.47	100	100	110	106	110	106	70-130	3	20	
o-Xylene	ug/L	<0.26	50	50	51.5	51.2	103	102	70-130	0	20	
Toluene	ug/L	<0.17	50	50	52.3	52.1	105	104	80-131	0	20	
Xylene (Total)	ug/L	<1.5	150	150	161	158	107	105	70-130	2	20	
4-Bromofluorobenzene (S)	%						97	96	70-130			
Dibromofluoromethane (S)	%						101	104	70-130			
Toluene-d8 (S)	%						96	98	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

QC Batch: 323076 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40188497001, 40188497002, 40188497003

METHOD BLANK: 1876579 Matrix: Water
Associated Lab Samples: 40188497001, 40188497002, 40188497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/03/19 11:57	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/03/19 11:57	
Acenaphthene	ug/L	<0.0061	0.030	06/03/19 11:57	
Acenaphthylene	ug/L	<0.0050	0.025	06/03/19 11:57	
Anthracene	ug/L	<0.010	0.052	06/03/19 11:57	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/03/19 11:57	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/03/19 11:57	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/03/19 11:57	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/03/19 11:57	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/03/19 11:57	
Chrysene	ug/L	<0.013	0.065	06/03/19 11:57	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/03/19 11:57	
Fluoranthene	ug/L	<0.011	0.053	06/03/19 11:57	
Fluorene	ug/L	<0.0080	0.040	06/03/19 11:57	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/03/19 11:57	
Naphthalene	ug/L	<0.018	0.092	06/03/19 11:57	
Phenanthrene	ug/L	<0.014	0.069	06/03/19 11:57	
Pyrene	ug/L	<0.0076	0.038	06/03/19 11:57	
2-Fluorobiphenyl (S)	%	78	30-85	06/03/19 11:57	
Terphenyl-d14 (S)	%	109	10-120	06/03/19 11:57	

LABORATORY CONTROL SAMPLE: 1876580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	59	39-88	
2-Methylnaphthalene	ug/L	2	1.2	60	40-93	
Acenaphthene	ug/L	2	1.3	67	43-102	
Acenaphthylene	ug/L	2	1.3	67	42-103	
Anthracene	ug/L	2	1.6	81	52-105	
Benzo(a)anthracene	ug/L	2	1.7	84	39-120	
Benzo(a)pyrene	ug/L	2	1.4	69	57-117	
Benzo(b)fluoranthene	ug/L	2	1.4	68	54-117	
Benzo(g,h,i)perylene	ug/L	2	0.98	49	32-82	
Benzo(k)fluoranthene	ug/L	2	1.5	75	56-123	
Chrysene	ug/L	2	1.5	77	63-122	
Dibenz(a,h)anthracene	ug/L	2	0.88	44	23-76	
Fluoranthene	ug/L	2	1.3	67	52-112	
Fluorene	ug/L	2	1.3	66	46-116	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.2	61	49-110	
Naphthalene	ug/L	2	1.2	61	37-84	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

LABORATORY CONTROL SAMPLE: 1876580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.3	64	50-104	
Pyrene	ug/L	2	1.7	84	57-123	
2-Fluorobiphenyl (S)	%			82	30-85	
Terphenyl-d14 (S)	%			108	10-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1876581 1876582

Parameter	Units	40188527001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.0069	2.2	2.1	1.2	1.2	53	56	35-90	1	27	
2-Methylnaphthalene	ug/L	0.011J	2.2	2.1	1.2	1.2	52	55	40-93	1	26	
Acenaphthene	ug/L	<0.0071	2.2	2.1	1.3	1.3	58	61	30-106	1	30	
Acenaphthylene	ug/L	<0.0058	2.2	2.1	1.3	1.2	56	58	37-103	2	27	
Anthracene	ug/L	0.018J	2.2	2.1	1.4	1.4	61	64	27-107	1	34	
Benzo(a)anthracene	ug/L	0.042J	2.2	2.1	1.3	1.2	56	56	10-120	4	50	
Benzo(a)pyrene	ug/L	<0.012	2.2	2.1	0.97	1.1	43	50	10-117	9	50	
Benzo(b)fluoranthene	ug/L	0.0094J	2.2	2.1	0.97	0.96	43	45	10-121	1	49	
Benzo(g,h,i)perylene	ug/L	0.012J	2.2	2.1	0.46	0.49	20	23	10-82	7	50	
Benzo(k)fluoranthene	ug/L	0.015J	2.2	2.1	1.2	1.2	52	54	10-123	0	50	
Chrysene	ug/L	<0.015	2.2	2.1	1.6	1.5	71	70	17-122	5	36	
Dibenz(a,h)anthracene	ug/L	<0.012	2.2	2.1	0.37	0.42	16	20	10-76	15	50	
Fluoranthene	ug/L	<0.012	2.2	2.1	1.3	1.2	56	56	27-112	5	42	
Fluorene	ug/L	<0.0093	2.2	2.1	1.4	1.3	62	62	38-116	4	29	
Indeno(1,2,3-cd)pyrene	ug/L	<0.021	2.2	2.1	0.66	0.69	29	32	10-110	5	50	
Naphthalene	ug/L	<0.021	2.2	2.1	1.2	1.2	54	57	35-85	2	28	
Phenanthrene	ug/L	0.024J	2.2	2.1	1.2	1.2	53	53	31-106	5	42	
Pyrene	ug/L	<0.0089	2.2	2.1	1.6	1.5	70	70	30-123	4	31	
2-Fluorobiphenyl (S)	%						68	68	30-85			
Terphenyl-d14 (S)	%						81	79	10-120			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

QC Batch: 323659 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40188497001, 40188497002, 40188497003

METHOD BLANK: 1879181 Matrix: Water
Associated Lab Samples: 40188497001, 40188497002, 40188497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	06/10/19 14:25	

LABORATORY CONTROL SAMPLE: 1879182

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1879183 1879184

Parameter	Units	40188521005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	41.1	100	100	149	148	108	107	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1879185 1879186

Parameter	Units	40188499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	842	2000	2000	2880	2850	102	101	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

QC Batch: 323306 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 40188497001, 40188497002, 40188497003

METHOD BLANK: 1877475 Matrix: Water
Associated Lab Samples: 40188497001, 40188497002, 40188497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	06/04/19 15:08	

LABORATORY CONTROL SAMPLE: 1877476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1877477 1877478

Parameter	Units	40188497001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	5.6	2.5	2.5	8.0	8.0	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1877479 1877480

Parameter	Units	40188525001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.48	12.5	12.5	12.1	11.9	96	94	90-110	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

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

1q	Analyte was measured in the associated method blank at -0.12 ug/L.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40188497001	**052819001**	EPA 3010	322901	EPA 6020	323024
40188497002	**052819002**	EPA 3010	322901	EPA 6020	323024
40188497003	**052819003**	EPA 3010	322901	EPA 6020	323024
40188497001	**052819001**	EPA 7470	323400	EPA 7470	323482
40188497002	**052819002**	EPA 7470	323400	EPA 7470	323482
40188497003	**052819003**	EPA 7470	323400	EPA 7470	323482
40188497001	**052819001**	EPA 3510	323076	EPA 8270 by HVI	323159
40188497002	**052819002**	EPA 3510	323076	EPA 8270 by HVI	323159
40188497003	**052819003**	EPA 3510	323076	EPA 8270 by HVI	323159
40188497001	**052819001**	EPA 8260	322918		
40188497002	**052819002**	EPA 8260	322918		
40188497003	**052819003**	EPA 8260	322918		
40188497001	**052819001**	EPA 300.0	323659		
40188497002	**052819002**	EPA 300.0	323659		
40188497003	**052819003**	EPA 300.0	323659		
40188497001	**052819001**	EPA 353.2	323306		
40188497002	**052819002**	EPA 353.2	323306		
40188497003	**052819003**	EPA 353.2	323306		

Pace Analytical™ www.pacelabs.com

Pace Drop off

QC: ABB 5/30/19

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC#: 70712-0519-009

40188497

Page: 1 of 3

Section A Required Client Information:

Company:	O'Brien & Gere
Address:	234 W. Florida St
	Milwaukee, WI
Email To:	GDSdata@OBG.com
Phone: 414-335-3563	Fax:
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	GDSdata@OBG.com
Copy To:	Staci Goetz
Purchase Order No.:	
Project Name:	Green Bay Former MGP
Project Number:	70712/232

Section C Invoice Information:

Attention:	Accounts Payable
Company Name:	WEC Business Services, LLC
Address:	PO Box 19800, Green Bay, WI 54307
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX (8260)	1,2,4- Trimethylbenzene**	1,3,5- Trimethylbenzene**	PAHs (8270) HVI	Metals (6020)*	NO2+NO3 (353.2)	Sulfate (300.0)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	052819001	GW	G			5-28-19	1204		8	X	X	X	X					N	X	X	X	X	X	X	X		3 001
2	052819002						1300		8	X	X	X	X					N	X	X	X	X	X	X	X		3 002
3	052819003						1355		8	X	X	X	X					N	X	X	X	X	X	X	X		3 003
4	052819004						1500		24	X	X	X	X					N	X	X	X	X	X	X	X		8 MS/MSD
5	052819005						1605		8	X	X	X	X					N	X	X	X	X	X	X	X		8
6	052819006						1651		8	X	X	X	Y					N	X	X	X	X	X	X	X		8
7	052819007						1758		8	X	X	X	Y					N	X	X	X	X	X	X	X		8
8	~~052819008~~						1820		6	X	X	X	X					N	X	X	X	X	X	X	X		1 MS/MSD
9	052819008	DW	G				1820		6	X		X	X					N	X			X	X				8
10	052919009	GW	G			5-29-19	0735		8	X	X	X	X					N	X	X	X	X	X	X	X		8
11	052819010						0824		8	X	X	X	X					N	X	X	X	X	X	X	X		8
12	052919011						0829		8	X	X	X	X					N	X	X	X	X	X	X	X		8

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2 MS/MSD	OBG	5-30-19	1100		5/30/19	1100	RW	Y	N	Y
*Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn										
**1,2,4- Trimethylbenzene (8260)										
**1,3,5- Trimethylbenzene (8260)										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Melissa Marra		
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	5/29/19

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Drop off

QC: ABB 5/30/19

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC: 70712-0519-002

40188497

Section A — Required Client Information:

Company:	O'Brien & Gere
Address:	234 W. Florida St
	Milwaukee, WI
Email To:	GDSdata@OBG.com
Phone: 414-335-3563	Fax:
Requested Due Date/TAT:	standard

Section B — Required Project Information:

Report To:	GDSdata@OBG.com
Copy To:	Staci Goetz
Purchase Order No.:	
Project Name:	Green Bay Former MGP
Project Number:	70712/232

Section C — Invoice Information:

Attention:	Accounts Payable
Company Name:	WEC Business Services, LLC
Address:	PO Box 19800, Green Bay, WI 54307
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX (8260)	1,2,4- Trimethylbenzene**	1,3,5- Trimethylbenzene**	PAHs (8270) HVI	Metals (6020)*	NO2+NO3 (353.2)	Sulfate (300.0)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N	N	N	N	Y	N	N		
1	052919012	GW	G			5-29-19	0921		8	X	X	X	X	X					X	X	X	X	X	X	X		1
2	052919013						1006		8	X	X	X	X	X					X	X	X	X	X	X	X		1
3	052919014						1042		8	X	X	X	X						X	X	X	X	X	X	X		1
4	052919015						1123		8	X	X	X	X						X	X	X	X	X	X	X		2
5	052919016						1244		8	X	X	X	X						X	X	X	X	X	X	X		2
6	~~052919017~~ was 052919017						1343		8	X	X	X	X						X	X	X	X	X	X	X		2
7	052919018						1426		8	X	X	X	X						X	X	X	X	X	X	X		2
8	052919019						1504		8	X	X	X	X						X	X	X	X	X	X	X		1
9	052919020						1550		8	X	X	X	X						X	X	X	X	X	X	X		1
10	052919021						1555		8	X	X	X	X						X	X	X	X	X	X	X		1
11	052919022						1658		8	X	X	X	X						X	X	X	X	X	X	X		1
12	052919023	D1					1720		6	X			X	X					X			X	X				1

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2	OBG	5-30-19	1100		5/30/19	1100	ROF	Y	N	Y
*Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn										
**1,2,4- Trimethylbenzene (8260)										
**1,3,5- Trimethylbenzene (8260)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Melissa Marra

SIGNATURE of SAMPLER: Melissa Marra DATE Signed (MM/DD/YY): 05/29/19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical™ www.pacelabs.com

Pace Drop off

QC: ABB 5/30/19

CHAIN-OF-CUSTODY / Analytical Request Document

COC: 70712-0519-003

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

4018849?

Page: 3 of 3

Section A Required Client Information:

Company:	O'Brien & Gere
Address:	234 W. Florida St
	Milwaukee, WI
Email To:	GDSdata@OBG.com
Phone: 414-335-3563	Fax:
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	GDSdata@OBG.com
Copy To:	Staci Goetz
Purchase Order No.:	
Project Name:	Green Bay Former MGP
Project Number:	70712/232

Section C Invoice Information:

Attention:	Accounts Payable
Company Name:	WEC Business Services, LLC
Address:	PO Box 19800, Green Bay, WI 54307
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX (8260)	1,2,4- Trimethylbenzene**	1,3,5- Trimethylbenzene**	PAHs (8270) HVI	Metals (6020)*	NO2+NO3 (353.2)	Sulfate (300.0)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		N	N	N	N	N	Y	N	N	
1	053019024	GW	G			5-30-19	0826		8	X	X	X	X					X	X	X	X	X	X	X		(1)
2	053019025	DI	↓			↓	0900		6	X		X	X					X			X	X				(1)
3	053019026	↓	↓			↓	—		2				X					X	X	X						(1)
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

MJM 5.30.19

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2 wsm	OBG	5-30-19	1100	Pace	5/30/19	1100	R01	Y	N	Y
*Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn										
**1,2,4- Trimethylbenzene (8260)										
**1,3,5- Trimethylbenzene (8260)										

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Melissa Marra			
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	5/30/19	

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

Sample Preservation Receipt Form

Client Name: OBG

Project # 40188497

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

Lab Lot# of pH paper: 10453581 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SKW Date/ Time:

Pace Lab #	Glass: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001					2						1		1	1				3										X			X		2.5 / 5 / 10
002					2						1		1	1				3										X			X		2.5 / 5 / 10
003					2						1		1	1				3										X			X		2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																5 3 0 1 4 SKW																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: OBG

Project # **WO# : 40188497**

40188497

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

Tracking #: _____

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

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

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

Thermometer Used SR - N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: _____

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

Person examining contents:
Date: 5-30-19
Initials: SCW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☑Yes ☒No STAT 95cw	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 5-30-19

Wisconsin Public Service Corporation
700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.wisconsinpublicservice.com

July 3, 2019

Mr. Jeffery Weyers
Harbinger Development, LLC
111 North Washington Street, # 400
Green Bay, WI, 54301

RE: Recent Sampling Results
Wisconsin Public Service Corporation – Former Green Bay Manufactured Gas Plant
700 North Adams Street, Green Bay, WI
WDNR BRRTS Activity# 02-05-000254

Dear Mr. Weyers,

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant (MGP) site at 700 North Adams Street is providing results of groundwater sample (MW-401BR) collected on your property in May of 2019, as part routine monitoring. Similar to other recent sampling events, no samples were collected from MW-401AR due to the presence of dense non-aqueous phase liquid (DNAPL). The presence of DNAPL in MW-401AR is not a recent occurrence, nor does it present a risk to people using the parking lot. Monitoring well MW-402R was inaccessible during this event due to asphalt pavement being installed over the top of the flush mount cap. Wisconsin Administrative Code Chapter NR716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

Results of the sampling are summarized in the attached documents. This includes summary tables of the results compared to State standards. Copies of the relevant portions of the associated laboratory reports and a figure showing the locations of samples collected on your property are also included. The results will be presented in a future Remedial Investigation Report.

We appreciate your ongoing cooperation with routine groundwater sampling activities on your property. If you need additional information, please contact Tauren Beggs from the WDNR at 920-662-5178 or myself at 414-221-2156.

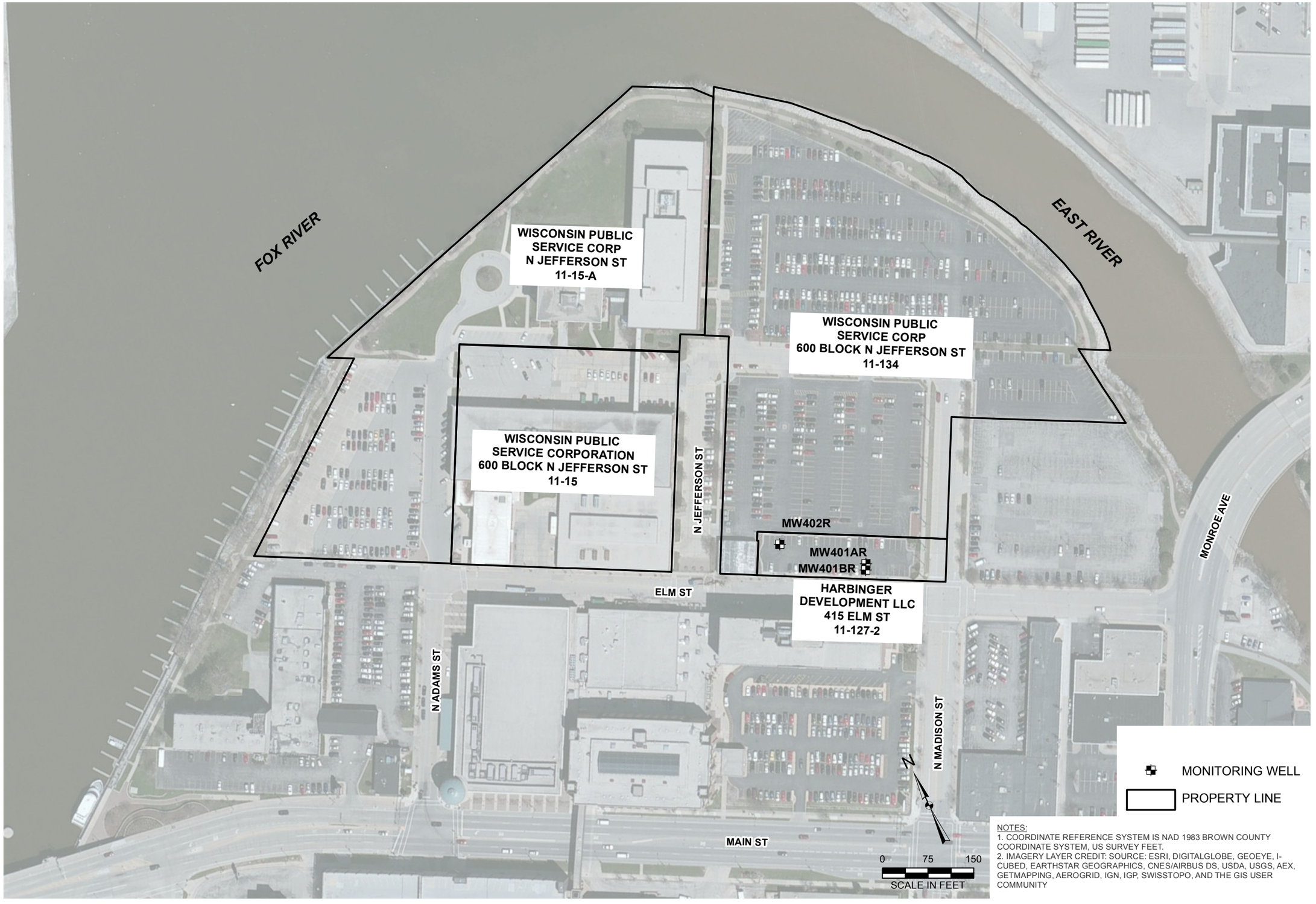
Sincerely,

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

Enc: Figure 1. Harbinger Development, LLC
Table 1. Groundwater Analytical Results for Harbinger Development, LLC. (May 2019)
Laboratory Data Reports - 40188499_frc

CC: USEPA RPM – Sarah Rolfes (via email)
WDNR PM – Tauren Beggs (via US Mail and email)
WDNR Northeast Region (via email to DNRRRNER@wisconsin.gov)
Ms. Staci Goetz, OBG (via email)

Figures



NOTES:
1. COORDINATE REFERENCE SYSTEM IS NAD 1983 BROWN COUNTY COORDINATE SYSTEM, US SURVEY FEET.
2. IMAGERY LAYER CREDIT: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY

DRAWN BY/DATE: DMD 03/10/16
REVIEWED BY/DATE: ANS .
APPROVED BY/DATE: KRM .

HARBINGER DEVELOPMENT, LLC

RECENT SAMPLING RESULTS
FORMER GREEN BAY MANUFACTURED GAS PLANT
WISCONSIN PUBLIC SERVICE CORPORATION
GREEN BAY, WISCONSIN
BRRTS# 0205000254

PROJECT NO: 67983

FIGURE NO: 1

Tables

Table 1. Groundwater Analytical Results for the Harbinger Development, LLC.
May 2019 Sample Results Notification
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin
BRRTS#: 02-05-000254 USEPA#: WIN000509948

			PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH	
9-digit Code	Sample Location	Sample Date	1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
		Reporting Units:	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
		WI Groundwater ES:	**NS**		**NS**		**NS**		**NS**		**3,000**		**NS**		**0.2**		**0.2**		**NS**		**NS**		**0.2**		**NS**		**400**		**400**		**NS**		**100**		**NS**		**250**	
		WI Groundwater PAL:	NS		NS		NS		NS		600		NS		0.02		0.02		NS		NS		0.02		NS		80		80		NS		10		NS		50	
052919009	MW-401BR	05/29/2019	0.12		0.027	J	<0.025	U	0.050	J	0.24		0.23		0.10	J	**0.23**		0.17		0.14	J	**0.24**	J	<0.042	U	0.43		0.051	J	0.10	J	<0.076	U	0.17	J	0.89	

Notes:
BOLD = concentration that attains or exceeds WDNR ES
Underline = concentration that attains or exceeds WDNR PAL
* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

< = Concentration is less than reported limit
µg/L = micrograms per liter
BTEX = benzene, toluene, ethylbenzene and xylenes
ES = Enforcement Standard
J = Concentration estimated
NO2 + NO3 = nitrite plus nitrate
NS = A groundwater quality standard has not been established.
PAH = polycyclic aromatic hydrocarbons
PAL = Preventive Action Limit
U = Not detected
VOC = Volatile Organic Compound

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.
PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

1. Total trimethylbenzenes were calculated by OBG 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 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

Table 1. Groundwater Analytical Results for the Harbinger Development, LLC.
May 2019 Sample Results Notification
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin
BRRTS#: 02-05-000254 USEPA#: WIN000509948

			BTEX		BTEX		BTEX		BTEX		BTEX		VOC		VOC		VOC		Metal		Metal		Metal		Metal		Metal		Metal		Metal		Metal		Metal		Inorganic		Inorganic	
9-digit Code	Sample Location	Sample Date	Benzene		Ethylbenzene		Toluene		Xylene, o		Xylenes, m + p		Xylenes, Total		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		Trimethylbenzenes, Total[1]		Arsenic, Dissolved		Barium, Dissolved		Cadmium, Dissolved		Chromium, Dissolved		Iron, Dissolved		Lead, Dissolved		Manganese, Dissolved		Mercury, Dissolved		Selenium, Dissolved		Silver, Dissolved		Nitrogen, NO2 + NO3, 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		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
WI Groundwater ES:			**5**		**700**		**800**		**NS**		**NS**		**2,000**		NS		NS		**480**		**10**		**2,000**		**5**		**100**		**300**		**15**		**50**		**2**		**50**		**50**		**10,000**		**250,000**	
WI Groundwater PAL:			0.5		140		160		NS		NS		400		NS		NS		96		1		400		0.5		10		150		1.5		25		0.2		10		10		2,000		125,000	
052919009	MW-401BR	05/29/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.84	U	<0.87	U	<1.71	U	<2.8*	U	35.7	J	<1.5*	U	<10.2*	U	**1,420**	J	<2.4*	U	**366**		<0.084	U	<3.2	U	<1.0	U	<95	U	**842,000**	

[O:MGP 6/24/19, C:SGW 6/25/19, QA:JLG 6/27/19]

Notes:
BOLD = concentration that attains or exceeds WDNR ES
Underline = concentration that attains or exceeds WDNR PAL
* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria

< = Concentration is less than reported limit
µg/L = micrograms per liter
BTEX = benzene, toluene, ethylbenzene and xylenes
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PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.

1. Total trimethylbenzenes were calculated by OBG 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 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

Laboratory Data Reports

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

June 11, 2019

Staci Goetz
O'Brien & Gere Engineers, Inc

,

RE: Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Dear Staci Goetz:
Enclosed are the analytical results for sample(s) received by the laboratory on May 30, 2019. 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,

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

Enclosures

cc: Phil Brochocki, OBG
NRT Data, OBG
Eric Hritsuk, OBG
Robert Paulson, We Energies
Steve Wiskes, OBG

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

CERTIFICATIONS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40188499001	**052919009**	Water	05/29/19 07:35	05/30/19 11:00

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

SAMPLE ANALYTE COUNT

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40188499001	**052919009**	EPA 6020	DS1	9
		EPA 7470	AJT	1
		EPA 8270 by HVI	TPO	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

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(920)469-2436

PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
1 sample was analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 322901

1q: Analyte was measured in the associated method blank at -0.12 ug/L.
- 052919009 (Lab ID: 40188499001)
  - Silver, Dissolved

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- 052919009 (Lab ID: 40188499001)
  - Silver, Dissolved
  - Arsenic, Dissolved
  - Barium, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Iron, Dissolved

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PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Method: **EPA 6020**
Description: 6020 MET ICPMS, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

Analyte Comments:

QC Batch: 322901

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

- 052919009 (Lab ID: 40188499001)
  - Lead, Dissolved
  - Selenium, Dissolved

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PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
1 sample was analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Method: **EPA 8270 by HVI**
Description: 8270 MSSV PAH by HVI
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
1 sample was analyzed for EPA 8270 by HVI. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 323077

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 323077

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

- 052919009 (Lab ID: 40188499001)
  - Naphthalene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Method: **EPA 8260**
Description: 8260 MSV UST
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: O'Brien & Gere Engineers, Inc Integrys WI
Date: June 11, 2019

General Information:
1 sample was analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Sample: 052919009 **Lab ID: 40188499001** Collected: 05/29/19 07:35 Received: 05/30/19 11:00 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	**<2.8**	ug/L	10.0	2.8	10	05/31/19 06:35	06/07/19 19:59	7440-38-2	D3
Barium, Dissolved	**35.7J**	ug/L	48.7	14.6	10	05/31/19 06:35	06/07/19 19:59	7440-39-3	D3
Cadmium, Dissolved	**<1.5**	ug/L	10.0	1.5	10	05/31/19 06:35	06/07/19 19:59	7440-43-9	D3
Chromium, Dissolved	**<10.2**	ug/L	34.0	10.2	10	05/31/19 06:35	06/07/19 19:59	7440-47-3	D3
Iron, Dissolved	**1420J**	ug/L	3680	1110	10	05/31/19 06:35	06/07/19 19:59	7439-89-6	D3
Lead, Dissolved	**<2.4**	ug/L	10.0	2.4	10	05/31/19 06:35	06/07/19 19:59	7439-92-1	D3
Manganese, Dissolved	**366**	ug/L	90.0	27.0	10	05/31/19 06:35	06/07/19 19:59	7439-96-5	
Selenium, Dissolved	**<3.2**	ug/L	10.6	3.2	10	05/31/19 06:35	06/07/19 19:59	7782-49-2	D3
Silver, Dissolved	**<1.0**	ug/L	5.0	1.0	10	05/31/19 06:35	06/07/19 19:59	7440-22-4	1q,D3
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	**<0.084**	ug/L	0.28	0.084	1	06/05/19 10:20	06/06/19 09:23	7439-97-6	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.025**	ug/L	0.13	0.025	4	06/03/19 12:08	06/05/19 20:59	83-32-9	
Acenaphthylene	**0.050J**	ug/L	0.10	0.021	4	06/03/19 12:08	06/05/19 20:59	208-96-8	
Anthracene	**0.24**	ug/L	0.22	0.044	4	06/03/19 12:08	06/05/19 20:59	120-12-7	
Benzo(a)anthracene	**0.23**	ug/L	0.16	0.031	4	06/03/19 12:08	06/05/19 20:59	56-55-3	
Benzo(a)pyrene	**0.10J**	ug/L	0.22	0.044	4	06/03/19 12:08	06/05/19 20:59	50-32-8	
Benzo(b)fluoranthene	**0.23**	ug/L	0.12	0.024	4	06/03/19 12:08	06/05/19 20:59	205-99-2	
Benzo(g,h,i)perylene	**0.17**	ug/L	0.14	0.028	4	06/03/19 12:08	06/05/19 20:59	191-24-2	
Benzo(k)fluoranthene	**0.14J**	ug/L	0.16	0.031	4	06/03/19 12:08	06/05/19 20:59	207-08-9	
Chrysene	**0.24J**	ug/L	0.27	0.054	4	06/03/19 12:08	06/05/19 20:59	218-01-9	
Dibenz(a,h)anthracene	**<0.042**	ug/L	0.21	0.042	4	06/03/19 12:08	06/05/19 20:59	53-70-3	
Fluoranthene	**0.43**	ug/L	0.22	0.044	4	06/03/19 12:08	06/05/19 20:59	206-44-0	
Fluorene	**0.051J**	ug/L	0.17	0.033	4	06/03/19 12:08	06/05/19 20:59	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.10J**	ug/L	0.37	0.074	4	06/03/19 12:08	06/05/19 20:59	193-39-5	
1-Methylnaphthalene	**0.12**	ug/L	0.12	0.025	4	06/03/19 12:08	06/05/19 20:59	90-12-0	
2-Methylnaphthalene	**0.027J**	ug/L	0.10	0.020	4	06/03/19 12:08	06/05/19 20:59	91-57-6	
Naphthalene	**<0.076**	ug/L	0.38	0.076	4	06/03/19 12:08	06/05/19 20:59	91-20-3	D3
Phenanthrene	**0.17J**	ug/L	0.29	0.057	4	06/03/19 12:08	06/05/19 20:59	85-01-8	
Pyrene	**0.89**	ug/L	0.16	0.032	4	06/03/19 12:08	06/05/19 20:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	44	%	30-85		4	06/03/19 12:08	06/05/19 20:59	321-60-8	
Terphenyl-d14 (S)	49	%	10-120		4	06/03/19 12:08	06/05/19 20:59	1718-51-0	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		05/31/19 16:03	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		05/31/19 16:03	100-41-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		05/31/19 16:03	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		05/31/19 16:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		05/31/19 16:03	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		05/31/19 16:03	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		05/31/19 16:03	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		05/31/19 16:03	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Sample: 052919009 **Lab ID: 40188499001** Collected: 05/29/19 07:35 Received: 05/30/19 11:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Dibromofluoromethane (S)	114	%	70-130		1		05/31/19 16:03	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		05/31/19 16:03	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		05/31/19 16:03	460-00-4	
300.0 IC Anions	Analytical Method: EPA 300.0								
Sulfate	**842**	mg/L	300	100	100		06/11/19 11:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**<0.095**	mg/L	0.25	0.095	1		06/04/19 15:23		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

QC Batch: 323400 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40188499001

METHOD BLANK: 1877944 Matrix: Water
Associated Lab Samples: 40188499001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.084	0.28	06/06/19 09:02	

LABORATORY CONTROL SAMPLE: 1877945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1877946 1877947

Parameter	Units	40188497001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.084	5	5	5.0	5.0	100	99	85-115	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

QC Batch: 322901
QC Batch Method: EPA 3010
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40188499001

METHOD BLANK: 1875466 Matrix: Water
Associated Lab Samples: 40188499001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	06/06/19 19:56	
Barium, Dissolved	ug/L	<1.5	4.9	06/06/19 19:56	
Cadmium, Dissolved	ug/L	<0.15	1.0	06/06/19 19:56	
Chromium, Dissolved	ug/L	<1.0	3.4	06/07/19 18:30	
Iron, Dissolved	ug/L	<111	368	06/06/19 19:56	
Lead, Dissolved	ug/L	<0.24	1.0	06/07/19 18:30	
Manganese, Dissolved	ug/L	<2.7	9.0	06/06/19 19:56	
Selenium, Dissolved	ug/L	<0.32	1.1	06/06/19 19:56	
Silver, Dissolved	ug/L	<0.10	0.50	06/06/19 19:56	

LABORATORY CONTROL SAMPLE: 1875467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	486	97	80-120	
Barium, Dissolved	ug/L	500	485	97	80-120	
Cadmium, Dissolved	ug/L	500	512	102	80-120	
Chromium, Dissolved	ug/L	500	495	99	80-120	
Iron, Dissolved	ug/L	5000	4940	99	80-120	
Lead, Dissolved	ug/L	500	465	93	80-120	
Manganese, Dissolved	ug/L	500	465	93	80-120	
Selenium, Dissolved	ug/L	500	527	105	80-120	
Silver, Dissolved	ug/L	250	244	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1875468 1875469

Parameter	Units	40188246003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	0.83J	500	500	488	494	97	99	75-125	1	20	
Barium, Dissolved	ug/L	30.8	500	500	514	522	97	98	75-125	2	20	
Cadmium, Dissolved	ug/L	0.62J	500	500	504	508	101	101	75-125	1	20	
Chromium, Dissolved	ug/L	<1.0	500	500	485	498	97	99	75-125	2	20	
Iron, Dissolved	ug/L	<111	5000	5000	4910	5020	98	100	75-125	2	20	
Lead, Dissolved	ug/L	0.24J	500	500	452	466	90	93	75-125	3	20	
Manganese, Dissolved	ug/L	3.4J	500	500	465	475	92	94	75-125	2	20	
Selenium, Dissolved	ug/L	2.8	500	500	526	526	105	105	75-125	0	20	
Silver, Dissolved	ug/L	0.20J	250	250	234	239	94	96	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

QC Batch: 322918 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40188499001

METHOD BLANK: 1875537 Matrix: Water
Associated Lab Samples: 40188499001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/31/19 10:14	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/31/19 10:14	
Benzene	ug/L	<0.25	1.0	05/31/19 10:14	
Ethylbenzene	ug/L	<0.22	1.0	05/31/19 10:14	
m&p-Xylene	ug/L	<0.47	2.0	05/31/19 10:14	
o-Xylene	ug/L	<0.26	1.0	05/31/19 10:14	
Toluene	ug/L	<0.17	5.0	05/31/19 10:14	
Xylene (Total)	ug/L	<1.5	3.0	05/31/19 10:14	
4-Bromofluorobenzene (S)	%	89	70-130	05/31/19 10:14	
Dibromofluoromethane (S)	%	99	70-130	05/31/19 10:14	
Toluene-d8 (S)	%	94	70-130	05/31/19 10:14	

LABORATORY CONTROL SAMPLE: 1875538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.4	103	70-130	
Ethylbenzene	ug/L	50	53.2	106	80-124	
m&p-Xylene	ug/L	100	108	108	70-130	
o-Xylene	ug/L	50	50.8	102	70-130	
Toluene	ug/L	50	51.6	103	80-126	
Xylene (Total)	ug/L	150	159	106	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1875840 1875841

Parameter	Units	40188491006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	53.2	54.0	106	108	70-130	2	20	
Ethylbenzene	ug/L	<0.22	50	50	53.2	52.0	106	104	80-125	2	20	
m&p-Xylene	ug/L	<0.47	100	100	110	106	110	106	70-130	3	20	
o-Xylene	ug/L	<0.26	50	50	51.5	51.2	103	102	70-130	0	20	
Toluene	ug/L	<0.17	50	50	52.3	52.1	105	104	80-131	0	20	
Xylene (Total)	ug/L	<1.5	150	150	161	158	107	105	70-130	2	20	
4-Bromofluorobenzene (S)	%						97	96	70-130			
Dibromofluoromethane (S)	%						101	104	70-130			
Toluene-d8 (S)	%						96	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

QC Batch: 323077
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by HVI
Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40188499001

METHOD BLANK: 1876583
Matrix: Water
Associated Lab Samples: 40188499001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/04/19 14:30	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/04/19 14:30	
Acenaphthene	ug/L	<0.0061	0.030	06/04/19 14:30	
Acenaphthylene	ug/L	<0.0050	0.025	06/04/19 14:30	
Anthracene	ug/L	<0.010	0.052	06/04/19 14:30	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/04/19 14:30	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/04/19 14:30	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/04/19 14:30	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/04/19 14:30	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/04/19 14:30	
Chrysene	ug/L	<0.013	0.065	06/04/19 14:30	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/04/19 14:30	
Fluoranthene	ug/L	<0.011	0.053	06/04/19 14:30	
Fluorene	ug/L	<0.0080	0.040	06/04/19 14:30	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/04/19 14:30	
Naphthalene	ug/L	<0.018	0.092	06/04/19 14:30	
Phenanthrene	ug/L	<0.014	0.069	06/04/19 14:30	
Pyrene	ug/L	<0.0076	0.038	06/04/19 14:30	
2-Fluorobiphenyl (S)	%	72	30-85	06/04/19 14:30	
Terphenyl-d14 (S)	%	110	10-120	06/04/19 14:30	

LABORATORY CONTROL SAMPLE & LCSD: 1876584 1876585

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	1.1	58	56	39-88	3	29	
2-Methylnaphthalene	ug/L	2	1.1	1.1	57	56	40-93	2	29	
Acenaphthene	ug/L	2	1.4	1.3	68	65	43-102	4	30	
Acenaphthylene	ug/L	2	1.2	1.2	62	61	42-103	3	31	
Anthracene	ug/L	2	1.5	1.4	74	69	52-105	8	36	
Benzo(a)anthracene	ug/L	2	1.4	1.3	68	66	39-120	3	39	
Benzo(a)pyrene	ug/L	2	1.6	1.5	78	76	57-117	2	39	
Benzo(b)fluoranthene	ug/L	2	1.3	1.3	64	64	54-117	0	41	
Benzo(g,h,i)perylene	ug/L	2	0.70	0.80	35	40	32-82	13	44	
Benzo(k)fluoranthene	ug/L	2	1.9	1.9	95	93	56-123	2	39	
Chrysene	ug/L	2	1.9	1.9	95	93	63-122	2	38	
Dibenz(a,h)anthracene	ug/L	2	0.61	0.66	31	33	23-76	8	46	
Fluoranthene	ug/L	2	1.3	1.4	67	70	52-112	4	35	
Fluorene	ug/L	2	1.4	1.4	68	70	46-116	3	33	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	1.4	71	69	49-110	3	32	
Naphthalene	ug/L	2	1.2	1.2	60	59	37-84	1	29	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

LABORATORY CONTROL SAMPLE & LCSD: 1876584 1876585

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Phenanthrene	ug/L	2	1.3	1.2	65	62	50-104	4	36	
Pyrene	ug/L	2	1.6	1.6	82	79	57-123	4	36	
2-Fluorobiphenyl (S)	%				61	64	30-85			
Terphenyl-d14 (S)	%				101	99	10-120			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

QC Batch: 323659 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40188499001

METHOD BLANK: 1879181 Matrix: Water
Associated Lab Samples: 40188499001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	06/10/19 14:25	

LABORATORY CONTROL SAMPLE: 1879182

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1879183 1879184

Parameter	Units	40188521005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	41.1	100	100	149	148	108	107	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1879185 1879186

Parameter	Units	40188499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	842	2000	2000	2880	2850	102	101	90-110	1	15	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

QC Batch: 323306 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 40188499001

METHOD BLANK: 1877475 Matrix: Water
Associated Lab Samples: 40188499001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	06/04/19 15:08	

LABORATORY CONTROL SAMPLE: 1877476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1877477 1877478

Parameter	Units	40188497001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	5.6	2.5	2.5	8.0	8.0	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1877479 1877480

Parameter	Units	40188525001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.48	12.5	12.5	12.1	11.9	96	94	90-110	2	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

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.

BATCH QUALIFIERS

Batch: 323199

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1q Analyte was measured in the associated method blank at -0.12 ug/L.

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70712/232 GREEN BAY FORMER MGP
Pace Project No.: 40188499

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40188499001	**052919009**	EPA 3010	322901	EPA 6020	323024
40188499001	**052919009**	EPA 7470	323400	EPA 7470	323482
40188499001	**052919009**	EPA 3510	323077	EPA 8270 by HVI	323199
40188499001	**052919009**	EPA 8260	322918		
40188499001	**052919009**	EPA 300.0	323659		
40188499001	**052919009**	EPA 353.2	323306		

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QC: ABB 5/30/19

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC#: 70712-0519-001

4018499

Page: 1 of 3

MSC

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	O'Brien & Gere	Report To:	GDSdata@OBG.com	Attention:	Accounts Payable
Address:	234 W. Florida St	Copy To:	Staci Goetz	Company Name:	WEC Business Services, LLC
	Milwaukee, WI			Address:	PO Box 19800, Green Bay, WI 54307
Email To:	GDSdata@OBG.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	414-335-3563 Fax:	Project Name:	Green Bay Former MGP	Pace Project Manager:	
Requested Due Date/TAT:	standard	Project Number:	70712/232	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / , -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	BTEX (8260)	1,2,4- Trimethylbenzene**	1,3,5- Trimethylbenzene**	PAHs (8270) HVI	Metals (6020)*	NO2+NO3 (353.2)	Sulfate (300.0)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
	Analysis Test ↓																	Y/N ↓	N	N	N	N	Y	N	N		
1	052819001	GW	G			5.28.19	1204		8	X	X	X	X						X	X	X	X	X	X	X		(3)
2	052819002						1300		8	X	X	X	X						X	X	X	X	X	X	X		(3)
3	052819003						1355		8	X	X	X	X						X	X	X	X	X	X	X		(3)
4	052819004						1500		24	X	X	X	X						X	X	X	X	X	X	X		(4) MS/MSD
5	052819005						1605		8	X	X	X	X						X	X	X	X	X	X	X		(4)
6	052819006						1651		8	X	X	X	X						X	X	X	X	X	X	X		(4)
7	052819007						1758		8	X	X	X	X						X	X	X	X	X	X	X		(4)
8	~~052819008~~						1820		8	X	X	X	X						X	X	X	X	X	X	X		(4) MS/MSD
9	052819008	DW	G				1820		6	X			X	X					X			X	X				(4) 001
10	052919009	GW	G			5.29.19	0735		8	X	X	X	X						X	X	X	X	X	X	X		(4)
11	052819010						0824		8	X	X	X	X						X	X	X	X	X	X	X		(4)
12	052919011						0859		8	X	X	X	X						X	X	X	X	X	X	X		(4)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2 MSM							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Melissa Marra OBG	5.30.19	1100		5/30/19	1100	RW	Y	N	Y

*Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn

**1,2,4- Trimethylbenzene (8260)

**1,3,5- Trimethylbenzene (8260)

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Melissa Marra	
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 5/29/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Pace Drop off

QC: ABB 5/30/19

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC: 70712-0519-002

40188499

Page: 2 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	O'Brien & Gere	Report To:	GDSdata@OBG.com	Attention:	Accounts Payable
Address:	234 W. Florida St	Copy To:	Staci Goetz	Company Name:	WEC Business Services, LLC
	Milwaukee, WI			Address:	PO Box 19800, Green Bay, WI 54307
Email To:	GDSdata@OBG.com	Purchase Order No.:		Pace Quote Reference:	
Phone: 414-335-3563	Fax:	Project Name:	Green Bay Former MGP	Pace Project Manager:	
Requested Due Date/TAT:	standard	Project Number:	70712/232	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): BTEX N; 1,2,4-Trimethylbenzene N; 1,3,5-Trimethylbenzene N; PAHs N; Metals Y; NO2+NO3 N; Sulfate N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX (8260)	1,2,4- Trimethylbenzene**	1,3,5- Trimethylbenzene**	PAHs (8270) HVI	Metals (6020)*	NO2+NO3 (353.2)	Sulfate (300.0)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	052919012	GW	G			5-29-19	0921		8	X	X	X	X	X				X	X	X	X	X	X	X		1
2	052919013						1006		8	X	X	X	X	X				X	X	X	X	X	X	X		1
3	052919014						1042		8	X	X	X	X					X	X	X	X	X	X	X		1
4	052919015						1123		8	X	X	X	X					X	X	X	X	X	X	X		2
5	052919016						1244		8	X	X	X	X					X	X	X	X	X	X	X		2
6	~~052919016~~ wm 052919017						1343		8	X	X	X	X					X	X	X	X	X	X	X		2
7	052919018						1426		8	X	X	X	X					X	X	X	X	X	X	X		2
8	052919019						1504		8	X	X	X	X					X	X	X	X	X	X	X		1
9	052919020						1550		8	X	X	X	X					X	X	X	X	X	X	X		1
10	052919021						1555		8	X	X	X	X					X	X	X	X	X	X	X		1
11	052919022						1658		8	X	X	X	X					X	X	X	X	X	X	X		1
12	052919023	DI					1720		6	X		X	X					X			X	X				1

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2	[signature] OBG	5-30-19	1100	[signature]	5/30/19	1100	R01	Y	N	Y
*Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn										
**1,2,4- Trimethylbenzene (8260)										
**1,3,5- Trimethylbenzene (8260)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Melissa Marra

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/29/19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Pace Drop off

QC: AOB 5/30/19

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC: 70712-0519-003

401 88499

Section A — Required Client Information:

Company:	O'Brien & Gere
Address:	234 W. Florida St
	Milwaukee, WI
Email To:	GDSdata@OBG.com
Phone: 414-335-3563	Fax:
Requested Due Date/TAT:	standard

Section B — Required Project Information:

Report To:	GDSdata@OBG.com
Copy To:	Staci Goetz
Purchase Order No.:	
Project Name:	Green Bay Former MGP
Project Number:	70712/232

Section C — Invoice Information:

Attention:	Accounts Payable
Company Name:	WEC Business Services, LLC
Address:	PO Box 19800, Green Bay, WI 54307
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX (8260)	1,2,4- Trimethylbenzene**	1,3,5- Trimethylbenzene**	PAHs (8270) HVI	Metals (6020)*	NO2+NO3 (353.2)	Sulfate (300.0)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START												Y/N	N	N	N	N	Y	N	N		
1	053019024	GW	G				8	X	X	X	X						X	X	X	X	X	X	X		1
2	053019025	DI	↓		0900		6	X		X	X						X			X	X				1
3	053019026	↓	↓	↓	—		2				X						X	X	X						1
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

MM 5-30-19

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2 MSM	OBG	5-30-19	1100	Pace	5/30/19	1100	R01	Y	N	Y
*Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn										
**1,2,4- Trimethylbenzene (8260)										
**1,3,5- Trimethylbenzene (8260)										

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Melissa Marra		Temp in °C	Received on Ice (Y/N)
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 5/30/19	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

Sample Preservation Receipt Form

Client Name: OBG

Project # 401884499

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

Initial when completed: SW Date/Time:

Lab Lot# of pH paper: 10153581 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	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001					2						1		1	1				3										X			X		2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
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5/30/19 SW

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	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: OBG

Project #: **WO# : 40188499**

40188499

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

Tracking #: _____

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

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

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

Thermometer Used SR - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: _____

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

Person examining contents:
Date: 5-30-19
Initials: _____

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☑Yes ☐No 5/30/19	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 5-30-19