



Wisconsin Public Service Corporation

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001

www.wisconsinpublicservice.com

January 29, 2018

Mr. Tauren Beggs
Hydrogeologist
Wisconsin Dept. of Natural Resources
Green Bay Service Center
2984 Shawano Avenue
Green Bay, WI 54313-6727

**Subject: Former WPSC Green Bay MGP Site - 700 N. Adams St., Green Bay, WI
(BRRTS Activity # 02-05-000254)
Transmittal of 3rd Party 10-Day Notification Materials**

Dear Mr. Beggs:

In accordance with WAC Ch. NR 716.14, attached please find copies of 3rd party 10-day notification materials provided to abutting off-site property owners for routine groundwater sampling recently completed at the above referenced site.

Please feel free to contact me at your convenience with any questions or if further information may be needed.

Sincerely,

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

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

Encl.

Cc: Project file
Brian Hennings, OBG



Wisconsin Public Service Corporation

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001

www.wisconsinpublicservice.com

January 29, 2018

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

**Subject: Recent Sampling Results
Wisconsin Public Service Corporation – Former Green Bay MGP Site
700 North Adams Street (WDNR BRRTS Activity # 02-05-000254)**

Dear Ms. Hazuka:

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 700 North Adams Street is providing results of groundwater samples (MW414, MW415A, MW415B, MW416) collected as part of routine monitoring in November of 2017. Wisconsin Administrative Code Chapter NR 716.14 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 groundwater 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 for the site and are also reported to WDNR and USEPA in monthly progress reports.

We appreciate your ongoing cooperation in this matter.

If you need additional information, please contact me at 414-221-2156 or via email at frank.dombrowski@we-energies.com or Mr. Tauren Beggs, WDNR project manager, at 920-662-5178.

Sincerely,

A handwritten signature in black ink, appearing to read 'Frank Dombrowski', written over a faint, larger version of the same signature.

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

Ms. Hazuka
Associated Bank
January 29, 2018
Page 2

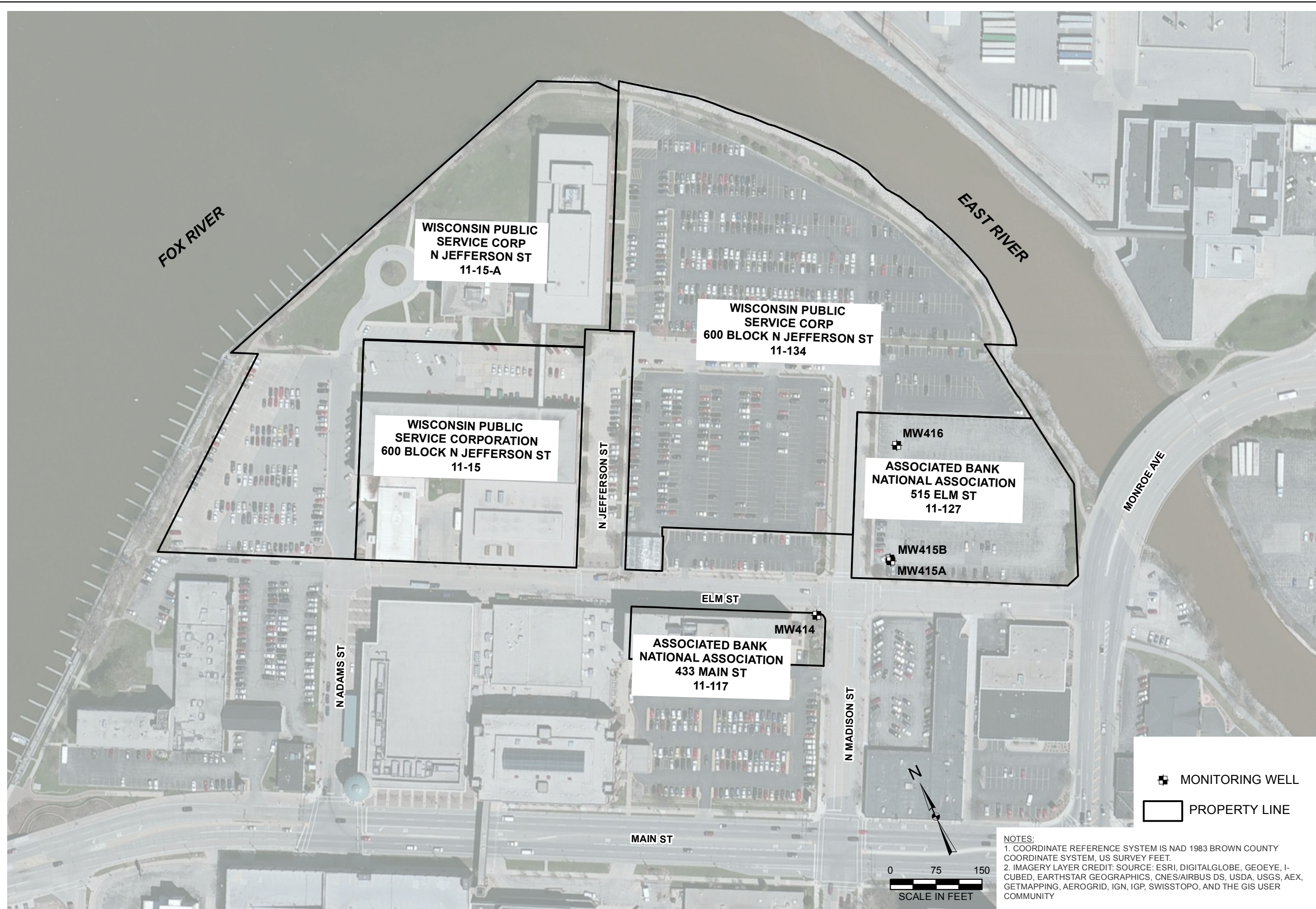
Encl: Figure 1. Associated Bank
Table 1. Groundwater Analytical Results for Associated Bank (Nov 2017)
Table 2. Sample Key for Associated Bank (Nov 2017)
Laboratory Reports - 40161287_frc



CC: Ms. Margaret Gielniewski, USEPA
Mr. Tauren Beggs, WDNR



Figures

Y:\GIS\Projects\1511584\MXD\WEC Adjacent Prop Data Maps\Figure 1_Associated Bank.mxd Author: dtd\ds Date/Time: 4/25/2016 10:59:11 AM



 MONITORING WELL
 PROPERTY LINE

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, AEROGRIID, 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

November 2017 Sample Results Notification
 Wisconsin Public Service Corporation
 Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin
 BRRS#: 02-05-000254 UPSEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	
			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	µg/L
WI Groundwater PAL:			<u>NS</u>	<u>NS</u>	<u>NS</u>	<u>NS</u>	600	<u>NS</u>	<u>0.02</u>	<u>0.02</u>	<u>NS</u>	<u>NS</u>	<u>0.02</u>	<u>NS</u>	80	80	<u>NS</u>	10	<u>NS</u>	50
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
112117012	MW-414	11/21/2017	<0.0062 U	<0.0052 U	<0.0064 U	<0.0052 U	<0.011 U	<0.0079 U	<0.011 U	<0.0060 U	<0.0071 U	<0.0079 U	<0.014 U	<0.011 U	<0.011 U	<0.0084 U	<0.019 U	<0.019 U	<0.015 U	<0.0081 U
112117013	MW-415A	11/21/2017	<0.0060 U	<0.0049 U	<0.0061 U	<0.0050 U	<0.011 U	0.0079 J	<u>0.041 J</u>	<u>0.075</u>	0.051	0.045	<u>0.091</u>	<0.010 U	0.15	<0.0081 U	0.049 J	<0.019 U	0.034 J	0.12
112117014	MW-415A Dup	11/21/2017	<0.0061 U	<0.0051 U	<0.0063 U	<0.0052 U	<0.011 U	<0.0079 U	<u>0.045 J</u>	<u>0.088</u>	0.056	0.056	<u>0.11</u>	<0.010 U	0.17	<0.0083 U	0.054 J	<0.019 U	0.038 J	0.13
112117015	MW-415B	11/21/2017	<0.0061 U	<0.0051 U	<0.0063 U	<0.0051 U	<0.011 U	<0.0078 U	<0.011 U	0.0068 J	<0.0070 U	<0.0078 U	<0.013 U	<0.010 U	0.013 J	<0.0082 U	<0.018 U	<0.019 U	<0.014 U	0.013 J
112117016	MW-416	11/21/2017	<0.0060 U	<0.0050 U	<0.0062 U	<0.0051 U	<0.011 U	<0.0077 U	<0.011 U	<0.0059 U	<0.0069 U	<0.0077 U	<0.013 U	<0.010 U	<0.011 U	<0.0081 U	<0.018 U	<0.019 U	<0.014 U	<0.0078 U

Notes:
Underline = concentration that attains or exceeds WDNR PAL
BOLD = concentration that attains or exceeds WDNR ES
 * = Level of Detection (LOD) meets or exceeds the Pal and/or the ES Groundwater Criteria
 < = Concentration is less than reported limit
 J = Concentration estimated
 U = Not detected
 Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.
 Dup = Quality Control Field Duplicate Sample
 µg/L = micrograms per liter
 BTEX = benzene, toluene, ethylbenzene and xylenes
 NO2 + NO3 = nitrite plus nitrate
 PAH = polycyclic aromatic hydrocarbons
 VOC = Volatile Organic Compound
 ES = Enforcement Standard
 PAL = Preventive Action Limit
 PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.
 NS = A groundwater quality standard has not been established.

- Total trimethylbenzenes were calculated by OBG as follows:
 - Where no detections were observed, the sum of the reporting limits is presented.
 - Where detections were observed, the detected results were added together for the total summation.
 - The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.



Table 1. Groundwater Analytical Results for Associated Bank

November 2017 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 UPSEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	VOC	VOC	VOC	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	
			Ethylbenzene	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	µg/L	
WI Groundwater PAL:			<u>0.5</u>	<u>140</u>	<u>160</u>	<u>NS</u>	<u>NS</u>	<u>400</u>	<u>NS</u>	<u>NS</u>	<u>96</u>	<u>1</u>	<u>400</u>	<u>0.5</u>	<u>10</u>	<u>150</u>	<u>1.5</u>	<u>25</u>	<u>0.2</u>	<u>10</u>	<u>10</u>	<u>2,000</u>	<u>125,000</u>
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
112117012	MW-414	11/21/2017	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<2.8 U*	272	<0.81 U*	<10.2 U*	<1,110 U*	<2.0 U*	627	<0.50 U*	<3.2 U	<1.0 U	500	<100,000 U
112117013	MW-415A	11/21/2017	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<0.56 U	107	<0.16 U	<2.0 U	<221 U*	<0.39 U	11.8 J	<0.50 U*	<0.63 U	<0.20 U	<95 U	274,000 J
112117014	MW-415A Dup	11/21/2017	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<0.56 U	106	<0.16 U	<5.1 U	<553 U*	<0.39 U	<13.5 U	<0.50 U*	<0.63 U	<0.20 U	<95 U	270,000 J
112117015	MW-415B	11/21/2017	<0.50 U*	<0.50 U	0.88 J	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<u><1.4 U</u>	22.3	<0.40 U	<5.1 U	<553 U*	<0.98 U	<13.5 U	<0.13 U	<1.6 U	<0.50 U	200 J	1,780,000
112117016	MW-416	11/21/2017	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<5.6 U*	326	<1.6 U*	<20.4 U*	<2,210 U*	<3.9 U*	3,370	<0.50 U*	<6.3 U	<2.0 U	<95 U	385,000

[O:ECK C:ECK 1/24/18 C: TWL 1/25/18][U:ECK 1/26/17]

Notes:

Underline = concentration that attains or exceeds WDNR PAL

BOLD = concentration that attains or exceeds WDNR ES

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

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Dup = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

NO2 + NO3 = nitrite plus nitrate

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

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

NS = A groundwater quality standard has not been established.

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, the detected results were added together for the total summation.
- c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.



Table 2. Sample Key for Associated Bank

November 2017 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 UPSEPA#: WIN000509948

PACE Lab Report	9-digit code	Location ID Name	Duplicate of	Matrix	Date
40161287	112117012	MW-414		Groundwater	11/21/2017
40161287	112117013	MW-415A		Groundwater	11/21/2017
40161287	112117014	MW-415A Dup	MW-415A	Groundwater	11/21/2017
40161287	112117015	MW-415B		Groundwater	11/21/2017
40161287	112117016	MW-416		Groundwater	11/21/2017

[O:ECK C:ECK 1/24/18 C: TWL 1/25/18]

Notes:

Sorted by: Matrix, Lab Report #, 9-digit code, Location Name, and Date

Dup = Quality Control Field Duplicate Sample





Laboratory Data Reports

January 09, 2018

Eric Hritsuk
Natural Resource Technologies

RE: Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

Dear Eric Hritsuk:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: Phil Brochocki, Natural Resources Technologies
NRT Data, Natural Resource Technologies
Brian Hennings, NATURAL RESOURCE TECHNOLOGY
Robert Paulson, We Energies
Steve Wiskes, Natural Resources Technologies



REPORT OF LABORATORY ANALYSIS

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

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40161287001	112117012	Water	11/21/17 08:24	11/22/17 08:50
40161287002	112117013	Water	11/21/17 09:23	11/22/17 08:50
40161287003	112117014	Water	11/21/17 09:33	11/22/17 08:50
40161287004	112117015	Water	11/21/17 10:11	11/22/17 08:50
40161287005	112117016	Water	11/21/17 10:50	11/22/17 08:50

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SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40161287001	112117012	EPA 6020	SDW	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
40161287002	112117013	EPA 6020	SDW	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
40161287003	112117014	EPA 6020	SDW	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
40161287004	112117015	EPA 6020	SDW	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
40161287005	112117016	EPA 6020	SDW	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

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

Client: Natural Resource Technology Integrys WI

Date: January 09, 2018

General Information:

5 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: 275901

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

- 112117012 (Lab ID: 40161287001)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Iron, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved
- 112117013 (Lab ID: 40161287002)
 - Silver, Dissolved
 - Arsenic, Dissolved

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

Client: Natural Resource Technology Integrys WI

Date: January 09, 2018

Analyte Comments:

QC Batch: 275901

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

- 112117013 (Lab ID: 40161287002)
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Iron, Dissolved
 - Manganese, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved
- 112117014 (Lab ID: 40161287003)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Iron, Dissolved
 - Manganese, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved
- 112117015 (Lab ID: 40161287004)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Iron, Dissolved
 - Manganese, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved
- 112117016 (Lab ID: 40161287005)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Iron, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 7470

Description: 7470 Mercury, Dissolved

Client: Natural Resource Technology Integrys WI

Date: January 09, 2018

General Information:

5 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:

Analyte Comments:

QC Batch: 276418

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

- 112117012 (Lab ID: 40161287001)
 - Mercury, Dissolved
- 112117013 (Lab ID: 40161287002)
 - Mercury, Dissolved
- 112117014 (Lab ID: 40161287003)
 - Mercury, Dissolved
- 112117016 (Lab ID: 40161287005)
 - Mercury, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 8270 by HVI

Description: 8270 MSSV PAH by HVI

Client: Natural Resource Technology Integrys WI

Date: January 09, 2018

General Information:

5 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

Method: EPA 8260
Description: 8260 MSV UST
Client: Natural Resource Technology Integrys WI
Date: January 09, 2018

General Information:

5 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.

QC Batch: 275528

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40161286018

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

- MS (Lab ID: 1620594)
 - Benzene
 - Ethylbenzene
 - Toluene
 - m&p-Xylene
 - o-Xylene
- MSD (Lab ID: 1620595)
 - Benzene
 - Ethylbenzene
 - o-Xylene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 8260

Description: 8260 MSV UST

Client: Natural Resource Technology Integrys WI

Date: January 09, 2018

Analyte Comments:

QC Batch: 275528

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1620594)
 - Benzene
- MSD (Lab ID: 1620595)
 - Benzene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: Natural Resource Technology Integrys WI
Date: January 09, 2018

General Information:

5 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: 275924

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40161286005,40161287001

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

- MS (Lab ID: 1623209)
 - Sulfate
- MS (Lab ID: 1623211)
 - Sulfate
- MSD (Lab ID: 1623210)
 - Sulfate
- MSD (Lab ID: 1623212)
 - Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 275924

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

- 112117012 (Lab ID: 40161287001)
 - Sulfate
- 112117013 (Lab ID: 40161287002)
 - Sulfate
- 112117014 (Lab ID: 40161287003)
 - Sulfate

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

Client: Natural Resource Technology Integrys WI

Date: January 09, 2018

General Information:

5 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Project No.: 40161287

Sample: 112117012 Lab ID: 40161287001 Collected: 11/21/17 08:24 Received: 11/22/17 08:50 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	12/05/17 06:50	12/14/17 04:02	7440-38-2	D3
Barium, Dissolved	272	ug/L	11.4	3.4	10	12/05/17 06:50	12/14/17 04:02	7440-39-3	
Cadmium, Dissolved	<0.81	ug/L	10.0	0.81	10	12/05/17 06:50	12/14/17 04:02	7440-43-9	D3
Chromium, Dissolved	<10.2	ug/L	34.0	10.2	10	12/05/17 06:50	12/14/17 04:02	7440-47-3	D3
Iron, Dissolved	<1110	ug/L	3680	1110	10	12/05/17 06:50	12/14/17 04:02	7439-89-6	D3
Lead, Dissolved	<2.0	ug/L	10.0	2.0	10	12/05/17 06:50	12/14/17 04:02	7439-92-1	D3
Manganese, Dissolved	627	ug/L	90.0	27.0	10	12/05/17 06:50	12/14/17 04:02	7439-96-5	
Selenium, Dissolved	<3.2	ug/L	10.6	3.2	10	12/05/17 06:50	12/14/17 04:02	7782-49-2	D3
Silver, Dissolved	<1.0	ug/L	5.0	1.0	10	12/05/17 06:50	12/14/17 04:02	7440-22-4	D3
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.50	ug/L	1.7	0.50	1	12/07/17 08:55	12/08/17 10:31	7439-97-6	D3
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0064	ug/L	0.032	0.0064	1	11/28/17 10:53	11/29/17 13:03	83-32-9	
Acenaphthylene	<0.0052	ug/L	0.026	0.0052	1	11/28/17 10:53	11/29/17 13:03	208-96-8	
Anthracene	<0.011	ug/L	0.055	0.011	1	11/28/17 10:53	11/29/17 13:03	120-12-7	
Benzo(a)anthracene	<0.0079	ug/L	0.040	0.0079	1	11/28/17 10:53	11/29/17 13:03	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.055	0.011	1	11/28/17 10:53	11/29/17 13:03	50-32-8	
Benzo(b)fluoranthene	<0.0060	ug/L	0.030	0.0060	1	11/28/17 10:53	11/29/17 13:03	205-99-2	
Benzo(g,h,i)perylene	<0.0071	ug/L	0.036	0.0071	1	11/28/17 10:53	11/29/17 13:03	191-24-2	
Benzo(k)fluoranthene	<0.0079	ug/L	0.040	0.0079	1	11/28/17 10:53	11/29/17 13:03	207-08-9	
Chrysene	<0.014	ug/L	0.069	0.014	1	11/28/17 10:53	11/29/17 13:03	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.053	0.011	1	11/28/17 10:53	11/29/17 13:03	53-70-3	
Fluoranthene	<0.011	ug/L	0.056	0.011	1	11/28/17 10:53	11/29/17 13:03	206-44-0	
Fluorene	<0.0084	ug/L	0.042	0.0084	1	11/28/17 10:53	11/29/17 13:03	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.019	ug/L	0.093	0.019	1	11/28/17 10:53	11/29/17 13:03	193-39-5	
1-Methylnaphthalene	<0.0062	ug/L	0.031	0.0062	1	11/28/17 10:53	11/29/17 13:03	90-12-0	
2-Methylnaphthalene	<0.0052	ug/L	0.026	0.0052	1	11/28/17 10:53	11/29/17 13:03	91-57-6	
Naphthalene	<0.019	ug/L	0.096	0.019	1	11/28/17 10:53	11/29/17 13:03	91-20-3	
Phenanthrene	<0.015	ug/L	0.073	0.015	1	11/28/17 10:53	11/29/17 13:03	85-01-8	
Pyrene	<0.0081	ug/L	0.040	0.0081	1	11/28/17 10:53	11/29/17 13:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	35-84		1	11/28/17 10:53	11/29/17 13:03	321-60-8	
Terphenyl-d14 (S)	67	%	10-129		1	11/28/17 10:53	11/29/17 13:03	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		11/27/17 21:37	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 21:37	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		11/27/17 21:37	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 21:37	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 21:37	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/27/17 21:37	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/27/17 21:37	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/27/17 21:37	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Lab Project No.: 40161287

Sample: 112117012 Lab ID: 40161287001 Collected: 11/21/17 08:24 Received: 11/22/17 08:50 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	99	%	67-130		1		11/27/17 21:37	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/27/17 21:37	2037-26-5	
4-Bromofluorobenzene (S)	101	%	61-130		1		11/27/17 21:37	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	<100	mg/L	300	100	100		12/19/17 04:53	14808-79-8	D3,M0
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.50	mg/L	0.25	0.095	1		11/30/17 12:34		

Sample: 112117013 Lab ID: 40161287002 Collected: 11/21/17 09:23 Received: 11/22/17 08:50 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	<0.56	ug/L	2.0	0.56	2	12/05/17 06:50	12/14/17 04:32	7440-38-2	D3
Barium, Dissolved	107	ug/L	2.3	0.68	2	12/05/17 06:50	12/14/17 04:32	7440-39-3	
Cadmium, Dissolved	<0.16	ug/L	2.0	0.16	2	12/05/17 06:50	12/14/17 04:32	7440-43-9	D3
Chromium, Dissolved	<2.0	ug/L	6.8	2.0	2	12/05/17 06:50	12/14/17 04:32	7440-47-3	D3
Iron, Dissolved	<221	ug/L	737	221	2	12/05/17 06:50	12/14/17 04:32	7439-89-6	D3
Lead, Dissolved	<0.39	ug/L	2.0	0.39	2	12/05/17 06:50	12/14/17 04:32	7439-92-1	D3
Manganese, Dissolved	11.8J	ug/L	18.0	5.4	2	12/05/17 06:50	12/14/17 04:32	7439-96-5	D3
Selenium, Dissolved	<0.63	ug/L	2.1	0.63	2	12/05/17 06:50	12/14/17 04:32	7782-49-2	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	12/05/17 06:50	12/14/17 04:32	7440-22-4	D3
7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.50	ug/L	1.7	0.50	1	12/07/17 08:55	12/08/17 10:38	7439-97-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0061	ug/L	0.031	0.0061	1	11/28/17 10:53	11/30/17 16:59	83-32-9	
Acenaphthylene	<0.0050	ug/L	0.025	0.0050	1	11/28/17 10:53	11/30/17 16:59	208-96-8	
Anthracene	<0.011	ug/L	0.053	0.011	1	11/28/17 10:53	11/30/17 16:59	120-12-7	
Benzo(a)anthracene	0.0079J	ug/L	0.038	0.0076	1	11/28/17 10:53	11/30/17 16:59	56-55-3	
Benzo(a)pyrene	0.041J	ug/L	0.053	0.011	1	11/28/17 10:53	11/30/17 16:59	50-32-8	
Benzo(b)fluoranthene	0.075	ug/L	0.029	0.0058	1	11/28/17 10:53	11/30/17 16:59	205-99-2	
Benzo(g,h,i)perylene	0.051	ug/L	0.034	0.0068	1	11/28/17 10:53	11/30/17 16:59	191-24-2	
Benzo(k)fluoranthene	0.045	ug/L	0.038	0.0076	1	11/28/17 10:53	11/30/17 16:59	207-08-9	
Chrysene	0.091	ug/L	0.066	0.013	1	11/28/17 10:53	11/30/17 16:59	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.051	0.010	1	11/28/17 10:53	11/30/17 16:59	53-70-3	
Fluoranthene	0.15	ug/L	0.054	0.011	1	11/28/17 10:53	11/30/17 16:59	206-44-0	
Fluorene	<0.0081	ug/L	0.040	0.0081	1	11/28/17 10:53	11/30/17 16:59	86-73-7	
Indeno(1,2,3-cd)pyrene	0.049J	ug/L	0.089	0.018	1	11/28/17 10:53	11/30/17 16:59	193-39-5	
1-Methylnaphthalene	<0.0060	ug/L	0.030	0.0060	1	11/28/17 10:53	11/30/17 16:59	90-12-0	

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Sample: 112117013 Lab ID: 40161287002 Collected: 11/21/17 09:23 Received: 11/22/17 08:50 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	11/28/17 10:53	11/30/17 16:59	91-57-6	
Naphthalene	<0.019	ug/L	0.093	0.019	1	11/28/17 10:53	11/30/17 16:59	91-20-3	
Phenanthrene	0.034J	ug/L	0.070	0.014	1	11/28/17 10:53	11/30/17 16:59	85-01-8	
Pyrene	0.12	ug/L	0.039	0.0077	1	11/28/17 10:53	11/30/17 16:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	35-84		1	11/28/17 10:53	11/30/17 16:59	321-60-8	
Terphenyl-d14 (S)	69	%	10-129		1	11/28/17 10:53	11/30/17 16:59	1718-51-0	
8260 MSV UST		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		11/29/17 12:43	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/29/17 12:43	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		11/29/17 12:43	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/29/17 12:43	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/29/17 12:43	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/29/17 12:43	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/29/17 12:43	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/29/17 12:43	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	67-130		1		11/29/17 12:43	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/29/17 12:43	2037-26-5	
4-Bromofluorobenzene (S)	100	%	61-130		1		11/29/17 12:43	460-00-4	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate	274J	mg/L	300	100	100		12/19/17 13:00	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/30/17 12:37		

Sample: 112117014 Lab ID: 40161287003 Collected: 11/21/17 09:33 Received: 11/22/17 08:50 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	<0.56	ug/L	2.0	0.56	2	12/05/17 06:50	12/14/17 04:39	7440-38-2	D3
Barium, Dissolved	106	ug/L	2.3	0.68	2	12/05/17 06:50	12/14/17 04:39	7440-39-3	
Cadmium, Dissolved	<0.16	ug/L	2.0	0.16	2	12/05/17 06:50	12/14/17 04:39	7440-43-9	D3
Chromium, Dissolved	<5.1	ug/L	17.0	5.1	5	12/05/17 06:50	12/14/17 11:18	7440-47-3	D3
Iron, Dissolved	<553	ug/L	1840	553	5	12/05/17 06:50	12/14/17 11:18	7439-89-6	D3
Lead, Dissolved	<0.39	ug/L	2.0	0.39	2	12/05/17 06:50	12/14/17 04:39	7439-92-1	D3
Manganese, Dissolved	<13.5	ug/L	45.0	13.5	5	12/05/17 06:50	12/14/17 11:18	7439-96-5	D3
Selenium, Dissolved	<0.63	ug/L	2.1	0.63	2	12/05/17 06:50	12/14/17 04:39	7782-49-2	D3
Silver, Dissolved	<0.20	ug/L	1.0	0.20	2	12/05/17 06:50	12/14/17 04:39	7440-22-4	D3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Sample: 112117014 Lab ID: 40161287003 Collected: 11/21/17 09:33 Received: 11/22/17 08:50 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	<0.50	ug/L	1.7	0.50	1	12/07/17 08:55	12/08/17 10:40	7439-97-6	D3
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0063	ug/L	0.032	0.0063	1	11/28/17 10:53	11/30/17 17:18	83-32-9	
Acenaphthylene	<0.0052	ug/L	0.026	0.0052	1	11/28/17 10:53	11/30/17 17:18	208-96-8	
Anthracene	<0.011	ug/L	0.054	0.011	1	11/28/17 10:53	11/30/17 17:18	120-12-7	
Benzo(a)anthracene	<0.0079	ug/L	0.039	0.0079	1	11/28/17 10:53	11/30/17 17:18	56-55-3	
Benzo(a)pyrene	0.045J	ug/L	0.055	0.011	1	11/28/17 10:53	11/30/17 17:18	50-32-8	
Benzo(b)fluoranthene	0.088	ug/L	0.030	0.0060	1	11/28/17 10:53	11/30/17 17:18	205-99-2	
Benzo(g,h,i)perylene	0.056	ug/L	0.035	0.0071	1	11/28/17 10:53	11/30/17 17:18	191-24-2	
Benzo(k)fluoranthene	0.056	ug/L	0.039	0.0079	1	11/28/17 10:53	11/30/17 17:18	207-08-9	
Chrysene	0.11	ug/L	0.068	0.014	1	11/28/17 10:53	11/30/17 17:18	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.052	0.010	1	11/28/17 10:53	11/30/17 17:18	53-70-3	
Fluoranthene	0.17	ug/L	0.056	0.011	1	11/28/17 10:53	11/30/17 17:18	206-44-0	
Fluorene	<0.0083	ug/L	0.042	0.0083	1	11/28/17 10:53	11/30/17 17:18	86-73-7	
Indeno(1,2,3-cd)pyrene	0.054J	ug/L	0.092	0.018	1	11/28/17 10:53	11/30/17 17:18	193-39-5	
1-Methylnaphthalene	<0.0061	ug/L	0.031	0.0061	1	11/28/17 10:53	11/30/17 17:18	90-12-0	
2-Methylnaphthalene	<0.0051	ug/L	0.026	0.0051	1	11/28/17 10:53	11/30/17 17:18	91-57-6	
Naphthalene	<0.019	ug/L	0.095	0.019	1	11/28/17 10:53	11/30/17 17:18	91-20-3	
Phenanthrene	0.038J	ug/L	0.072	0.014	1	11/28/17 10:53	11/30/17 17:18	85-01-8	
Pyrene	0.13	ug/L	0.040	0.0080	1	11/28/17 10:53	11/30/17 17:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	35-84		1	11/28/17 10:53	11/30/17 17:18	321-60-8	
Terphenyl-d14 (S)	71	%	10-129		1	11/28/17 10:53	11/30/17 17:18	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		11/27/17 22:45	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 22:45	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		11/27/17 22:45	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 22:45	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 22:45	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/27/17 22:45	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/27/17 22:45	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/27/17 22:45	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	67-130		1		11/27/17 22:45	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/27/17 22:45	2037-26-5	
4-Bromofluorobenzene (S)	98	%	61-130		1		11/27/17 22:45	460-00-4	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Sulfate	270J	mg/L	300	100	100		12/19/17 13:12	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/30/17 12:39		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Project No.: 40161287

Sample: 112117015 Lab ID: 40161287004 Collected: 11/21/17 10:11 Received: 11/22/17 08:50 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	<1.4	ug/L	5.0	1.4	5	12/05/17 06:50	12/14/17 05:02	7440-38-2	D3
Barium, Dissolved	22.3	ug/L	5.7	1.7	5	12/05/17 06:50	12/14/17 05:02	7440-39-3	
Cadmium, Dissolved	<0.40	ug/L	5.0	0.40	5	12/05/17 06:50	12/14/17 05:02	7440-43-9	D3
Chromium, Dissolved	<5.1	ug/L	17.0	5.1	5	12/05/17 06:50	12/14/17 05:02	7440-47-3	D3
Iron, Dissolved	<553	ug/L	1840	553	5	12/05/17 06:50	12/14/17 05:02	7439-89-6	D3
Lead, Dissolved	<0.98	ug/L	5.0	0.98	5	12/05/17 06:50	12/14/17 05:02	7439-92-1	D3
Manganese, Dissolved	<13.5	ug/L	45.0	13.5	5	12/05/17 06:50	12/14/17 05:02	7439-96-5	D3
Selenium, Dissolved	<1.6	ug/L	5.3	1.6	5	12/05/17 06:50	12/14/17 05:02	7782-49-2	D3
Silver, Dissolved	<0.50	ug/L	2.5	0.50	5	12/05/17 06:50	12/14/17 05:02	7440-22-4	D3
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.13	ug/L	0.42	0.13	1	12/07/17 08:55	12/08/17 10:47	7439-97-6	
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0063	ug/L	0.031	0.0063	1	11/28/17 10:53	11/30/17 17:36	83-32-9	
Acenaphthylene	<0.0051	ug/L	0.026	0.0051	1	11/28/17 10:53	11/30/17 17:36	208-96-8	
Anthracene	<0.011	ug/L	0.054	0.011	1	11/28/17 10:53	11/30/17 17:36	120-12-7	
Benzo(a)anthracene	<0.0078	ug/L	0.039	0.0078	1	11/28/17 10:53	11/30/17 17:36	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.054	0.011	1	11/28/17 10:53	11/30/17 17:36	50-32-8	
Benzo(b)fluoranthene	0.0068J	ug/L	0.030	0.0059	1	11/28/17 10:53	11/30/17 17:36	205-99-2	
Benzo(g,h,i)perylene	<0.0070	ug/L	0.035	0.0070	1	11/28/17 10:53	11/30/17 17:36	191-24-2	
Benzo(k)fluoranthene	<0.0078	ug/L	0.039	0.0078	1	11/28/17 10:53	11/30/17 17:36	207-08-9	
Chrysene	<0.013	ug/L	0.067	0.013	1	11/28/17 10:53	11/30/17 17:36	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.052	0.010	1	11/28/17 10:53	11/30/17 17:36	53-70-3	
Fluoranthene	0.013J	ug/L	0.055	0.011	1	11/28/17 10:53	11/30/17 17:36	206-44-0	
Fluorene	<0.0082	ug/L	0.041	0.0082	1	11/28/17 10:53	11/30/17 17:36	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.091	0.018	1	11/28/17 10:53	11/30/17 17:36	193-39-5	
1-Methylnaphthalene	<0.0061	ug/L	0.030	0.0061	1	11/28/17 10:53	11/30/17 17:36	90-12-0	
2-Methylnaphthalene	<0.0051	ug/L	0.025	0.0051	1	11/28/17 10:53	11/30/17 17:36	91-57-6	
Naphthalene	<0.019	ug/L	0.094	0.019	1	11/28/17 10:53	11/30/17 17:36	91-20-3	
Phenanthrene	<0.014	ug/L	0.071	0.014	1	11/28/17 10:53	11/30/17 17:36	85-01-8	
Pyrene	0.013J	ug/L	0.039	0.0079	1	11/28/17 10:53	11/30/17 17:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	35-84		1	11/28/17 10:53	11/30/17 17:36	321-60-8	
Terphenyl-d14 (S)	74	%	10-129		1	11/28/17 10:53	11/30/17 17:36	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		11/27/17 23:07	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 23:07	100-41-4	
Toluene	0.88J	ug/L	1.0	0.50	1		11/27/17 23:07	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 23:07	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 23:07	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/27/17 23:07	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/27/17 23:07	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/27/17 23:07	95-47-6	

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Lab Project No.: 40161287

Sample: 112117015 Lab ID: 40161287004 Collected: 11/21/17 10:11 Received: 11/22/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	101	%	67-130		1		11/27/17 23:07	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/27/17 23:07	2037-26-5	
4-Bromofluorobenzene (S)	100	%	61-130		1		11/27/17 23:07	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	1780	mg/L	300	100	100		12/19/17 13:24	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.20J	mg/L	0.25	0.095	1		11/30/17 12:40		

Sample: 112117016 Lab ID: 40161287005 Collected: 11/21/17 10:50 Received: 11/22/17 08:50 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	12/05/17 06:50	12/14/17 05:09	7440-38-2	D3
Barium, Dissolved	326	ug/L	22.8	6.8	20	12/05/17 06:50	12/14/17 05:09	7440-39-3	
Cadmium, Dissolved	<1.6	ug/L	20.0	1.6	20	12/05/17 06:50	12/14/17 05:09	7440-43-9	D3
Chromium, Dissolved	<20.4	ug/L	68.0	20.4	20	12/05/17 06:50	12/14/17 05:09	7440-47-3	D3
Iron, Dissolved	<2210	ug/L	7370	2210	20	12/05/17 06:50	12/14/17 05:09	7439-89-6	D3
Lead, Dissolved	<3.9	ug/L	20.0	3.9	20	12/05/17 06:50	12/14/17 05:09	7439-92-1	D3
Manganese, Dissolved	3370	ug/L	180	54.0	20	12/05/17 06:50	12/14/17 05:09	7439-96-5	
Selenium, Dissolved	<6.3	ug/L	21.2	6.3	20	12/05/17 06:50	12/14/17 05:09	7782-49-2	D3
Silver, Dissolved	<2.0	ug/L	10.0	2.0	20	12/05/17 06:50	12/14/17 05:09	7440-22-4	D3
7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.50	ug/L	1.7	0.50	1	12/07/17 08:55	12/08/17 10:50	7439-97-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0062	ug/L	0.031	0.0062	1	11/28/17 10:53	11/30/17 17:54	83-32-9	
Acenaphthylene	<0.0051	ug/L	0.025	0.0051	1	11/28/17 10:53	11/30/17 17:54	208-96-8	
Anthracene	<0.011	ug/L	0.053	0.011	1	11/28/17 10:53	11/30/17 17:54	120-12-7	
Benzo(a)anthracene	<0.0077	ug/L	0.039	0.0077	1	11/28/17 10:53	11/30/17 17:54	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.054	0.011	1	11/28/17 10:53	11/30/17 17:54	50-32-8	
Benzo(b)fluoranthene	<0.0059	ug/L	0.029	0.0059	1	11/28/17 10:53	11/30/17 17:54	205-99-2	
Benzo(g,h,i)perylene	<0.0069	ug/L	0.035	0.0069	1	11/28/17 10:53	11/30/17 17:54	191-24-2	
Benzo(k)fluoranthene	<0.0077	ug/L	0.039	0.0077	1	11/28/17 10:53	11/30/17 17:54	207-08-9	
Chrysene	<0.013	ug/L	0.067	0.013	1	11/28/17 10:53	11/30/17 17:54	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.051	0.010	1	11/28/17 10:53	11/30/17 17:54	53-70-3	
Fluoranthene	<0.011	ug/L	0.054	0.011	1	11/28/17 10:53	11/30/17 17:54	206-44-0	
Fluorene	<0.0081	ug/L	0.041	0.0081	1	11/28/17 10:53	11/30/17 17:54	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.090	0.018	1	11/28/17 10:53	11/30/17 17:54	193-39-5	
1-Methylnaphthalene	<0.0060	ug/L	0.030	0.0060	1	11/28/17 10:53	11/30/17 17:54	90-12-0	

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Sample: 112117016 **Lab ID: 40161287005** Collected: 11/21/17 10:50 Received: 11/22/17 08:50 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	<0.0050	ug/L	0.025	0.0050	1	11/28/17 10:53	11/30/17 17:54	91-57-6	
Naphthalene	<0.019	ug/L	0.094	0.019	1	11/28/17 10:53	11/30/17 17:54	91-20-3	
Phenanthrene	<0.014	ug/L	0.070	0.014	1	11/28/17 10:53	11/30/17 17:54	85-01-8	
Pyrene	<0.0078	ug/L	0.039	0.0078	1	11/28/17 10:53	11/30/17 17:54	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	35-84		1	11/28/17 10:53	11/30/17 17:54	321-60-8	
Terphenyl-d14 (S)	80	%	10-129		1	11/28/17 10:53	11/30/17 17:54	1718-51-0	
8260 MSV UST		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		11/30/17 15:21	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/30/17 15:21	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		11/30/17 15:21	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/30/17 15:21	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/30/17 15:21	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/30/17 15:21	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/30/17 15:21	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/30/17 15:21	95-47-6	
Surrogates									
Dibromofluoromethane (S)	117	%	67-130		1		11/30/17 15:21	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/30/17 15:21	2037-26-5	
4-Bromofluorobenzene (S)	95	%	61-130		1		11/30/17 15:21	460-00-4	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate	385	mg/L	300	100	100		12/19/17 13:36	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		11/30/17 12:44		

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

QC Batch: 276418 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

METHOD BLANK: 1625781 Matrix: Water
Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	12/08/17 10:27	

LABORATORY CONTROL SAMPLE: 1625782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1625783 1625784

Parameter	Units	1625783		1625784		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161287001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury, Dissolved	ug/L	<0.50	20	20	19.4	19.2	97	96	85-115	1	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.

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

QC Batch: 275901 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

METHOD BLANK: 1622806 Matrix: Water
Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	12/14/17 02:02	
Barium, Dissolved	ug/L	<0.34	1.1	12/14/17 02:02	
Cadmium, Dissolved	ug/L	<0.081	1.0	12/14/17 02:02	
Chromium, Dissolved	ug/L	<1.0	3.4	12/14/17 02:02	
Iron, Dissolved	ug/L	<111	368	12/14/17 02:02	
Lead, Dissolved	ug/L	<0.20	1.0	12/14/17 02:02	
Manganese, Dissolved	ug/L	<2.7	9.0	12/14/17 02:02	
Selenium, Dissolved	ug/L	<0.32	1.1	12/14/17 02:02	
Silver, Dissolved	ug/L	<0.10	0.50	12/14/17 02:02	

LABORATORY CONTROL SAMPLE: 1622807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	491	98	80-120	
Barium, Dissolved	ug/L	500	486	97	80-120	
Cadmium, Dissolved	ug/L	500	493	99	80-120	
Chromium, Dissolved	ug/L	500	481	96	80-120	
Iron, Dissolved	ug/L	5000	4860	97	80-120	
Lead, Dissolved	ug/L	500	479	96	80-120	
Manganese, Dissolved	ug/L	500	492	98	80-120	
Selenium, Dissolved	ug/L	500	516	103	80-120	
Silver, Dissolved	ug/L	250	249	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622808 1622809

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40161271001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic, Dissolved	ug/L	3.1	500	500	506	504	101	100	75-125	0	20	
Barium, Dissolved	ug/L	59.7	500	500	545	540	97	96	75-125	1	20	
Cadmium, Dissolved	ug/L	0.18J	500	500	491	490	98	98	75-125	0	20	
Chromium, Dissolved	ug/L	<1.0	500	500	476	477	95	95	75-125	0	20	
Iron, Dissolved	ug/L	182J	5000	5000	4880	4880	94	94	75-125	0	20	
Lead, Dissolved	ug/L	2.1	500	500	491	493	98	98	75-125	0	20	
Manganese, Dissolved	ug/L	101	500	500	575	577	95	95	75-125	0	20	
Selenium, Dissolved	ug/L	0.55J	500	500	526	523	105	104	75-125	1	20	
Silver, Dissolved	ug/L	<0.10	250	250	238	235	95	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622823		1622824		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40161287001 Result	MS Spike Conc.	MSD Spike Conc.									
Arsenic, Dissolved	ug/L	<2.8	500	500	517	510	103	102	75-125	1	20		
Barium, Dissolved	ug/L	272	500	500	760	769	98	99	75-125	1	20		
Cadmium, Dissolved	ug/L	<0.81	500	500	512	514	102	103	75-125	0	20		
Chromium, Dissolved	ug/L	<10.2	500	500	491	498	98	100	75-125	2	20		
Iron, Dissolved	ug/L	<1110	5000	5000	4910	4980	98	99	75-125	1	20		
Lead, Dissolved	ug/L	<2.0	500	500	490	496	98	99	75-125	1	20		
Manganese, Dissolved	ug/L	627	500	500	1120	1150	98	104	75-125	3	20		
Selenium, Dissolved	ug/L	<3.2	500	500	531	539	106	108	75-125	1	20		
Silver, Dissolved	ug/L	<1.0	250	250	250	251	100	101	75-125	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

QC Batch: 275242 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40161287001, 40161287003, 40161287004

METHOD BLANK: 1619400 Matrix: Water
Associated Lab Samples: 40161287001, 40161287003, 40161287004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	11/27/17 17:06	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	11/27/17 17:06	
Benzene	ug/L	<0.50	1.0	11/27/17 17:06	
Ethylbenzene	ug/L	<0.50	1.0	11/27/17 17:06	
m&p-Xylene	ug/L	<1.0	2.0	11/27/17 17:06	
o-Xylene	ug/L	<0.50	1.0	11/27/17 17:06	
Toluene	ug/L	<0.50	1.0	11/27/17 17:06	
Xylene (Total)	ug/L	<1.5	3.0	11/27/17 17:06	
4-Bromofluorobenzene (S)	%	94	61-130	11/27/17 17:06	
Dibromofluoromethane (S)	%	108	67-130	11/27/17 17:06	
Toluene-d8 (S)	%	98	70-130	11/27/17 17:06	

LABORATORY CONTROL SAMPLE: 1619401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	49.6	47.4	95	73-145	
Ethylbenzene	ug/L	49.6	56.5	114	87-129	
m&p-Xylene	ug/L	99.2	112	113	70-130	
o-Xylene	ug/L	49.6	52.9	107	70-130	
Toluene	ug/L	49.6	53.3	107	82-130	
Xylene (Total)	ug/L	149	165	111	70-130	
4-Bromofluorobenzene (S)	%			113	61-130	
Dibromofluoromethane (S)	%			104	67-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619402 1619403

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161287001 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<0.50	49.6	49.6	47.0	46.2	95	93	73-145	2	20
Ethylbenzene	ug/L	<0.50	49.6	49.6	56.8	51.8	114	104	87-129	9	20
m&p-Xylene	ug/L	<1.0	99.2	99.2	111	105	112	106	70-130	6	20
o-Xylene	ug/L	<0.50	49.6	49.6	51.8	49.8	104	100	70-130	4	20
Toluene	ug/L	<0.50	49.6	49.6	55.1	52.0	110	104	82-131	6	20
Xylene (Total)	ug/L	<1.5	149	149	163	155	109	104	70-130	5	20
4-Bromofluorobenzene (S)	%						112	104	61-130		
Dibromofluoromethane (S)	%						100	103	67-130		
Toluene-d8 (S)	%						102	100	70-130		

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

QC Batch: 275528 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40161287002

METHOD BLANK: 1620472 Matrix: Water
Associated Lab Samples: 40161287002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	11/29/17 07:21	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	11/29/17 07:21	
Benzene	ug/L	<0.50	1.0	11/29/17 07:21	
Ethylbenzene	ug/L	<0.50	1.0	11/29/17 07:21	
m&p-Xylene	ug/L	<1.0	2.0	11/29/17 07:21	
o-Xylene	ug/L	<0.50	1.0	11/29/17 07:21	
Toluene	ug/L	<0.50	1.0	11/29/17 07:21	
Xylene (Total)	ug/L	<1.5	3.0	11/29/17 07:21	
4-Bromofluorobenzene (S)	%	105	61-130	11/29/17 07:21	
Dibromofluoromethane (S)	%	105	67-130	11/29/17 07:21	
Toluene-d8 (S)	%	104	70-130	11/29/17 07:21	

LABORATORY CONTROL SAMPLE: 1620473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.4	103	73-145	
Ethylbenzene	ug/L	50	57.2	114	87-129	
m&p-Xylene	ug/L	100	108	108	70-130	
o-Xylene	ug/L	50	53.4	107	70-130	
Toluene	ug/L	50	55.2	110	82-130	
Xylene (Total)	ug/L	150	161	108	70-130	
4-Bromofluorobenzene (S)	%			106	61-130	
Dibromofluoromethane (S)	%			99	67-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620594 1620595

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161286018 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	1070	50	50	1220	1150	307	169	73-145	6	20 E,M1
Ethylbenzene	ug/L	64.0	50	50	140	137	152	146	87-129	2	20 M1
m&p-Xylene	ug/L	50.1	100	100	182	171	132	121	70-130	6	20 M1
o-Xylene	ug/L	50.9	50	50	122	117	143	132	70-130	5	20 M1
Toluene	ug/L	25.5	50	50	92.8	90.5	135	130	82-131	3	20 M1
Xylene (Total)	ug/L	101	150	150	305	288	136	125	70-130	6	20 MS
4-Bromofluorobenzene (S)	%						106	106	61-130		
Dibromofluoromethane (S)	%						110	112	67-130		
Toluene-d8 (S)	%						104	105	70-130		

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

QC Batch: 275619 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40161287005

METHOD BLANK: 1620983 Matrix: Water
Associated Lab Samples: 40161287005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	11/30/17 08:46	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	11/30/17 08:46	
Benzene	ug/L	<0.50	1.0	11/30/17 08:46	
Ethylbenzene	ug/L	<0.50	1.0	11/30/17 08:46	
m&p-Xylene	ug/L	<1.0	2.0	11/30/17 08:46	
o-Xylene	ug/L	<0.50	1.0	11/30/17 08:46	
Toluene	ug/L	<0.50	1.0	11/30/17 08:46	
Xylene (Total)	ug/L	<1.5	3.0	11/30/17 08:46	
4-Bromofluorobenzene (S)	%	91	61-130	11/30/17 08:46	
Dibromofluoromethane (S)	%	116	67-130	11/30/17 08:46	
Toluene-d8 (S)	%	96	70-130	11/30/17 08:46	

LABORATORY CONTROL SAMPLE: 1620984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	54.7	109	73-145	
Ethylbenzene	ug/L	50	54.7	109	87-129	
m&p-Xylene	ug/L	100	113	113	70-130	
o-Xylene	ug/L	50	53.2	106	70-130	
Toluene	ug/L	50	53.2	106	82-130	
Xylene (Total)	ug/L	150	166	111	70-130	
4-Bromofluorobenzene (S)	%			98	61-130	
Dibromofluoromethane (S)	%			118	67-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620985 1620986

Parameter	Units	40161434001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Benzene	ug/L	<0.50	50	50	51.4	54.1	103	108	73-145	5	20	
Ethylbenzene	ug/L	<0.50	50	50	52.5	52.3	105	105	87-129	0	20	
m&p-Xylene	ug/L	<1.0	100	100	111	109	111	109	70-130	2	20	
o-Xylene	ug/L	<0.50	50	50	52.7	51.1	105	102	70-130	3	20	
Toluene	ug/L	<0.50	50	50	54.1	51.3	108	103	82-131	5	20	
Xylene (Total)	ug/L	<1.5	150	150	164	161	109	107	70-130	2	20	
4-Bromofluorobenzene (S)	%						100	96	61-130			
Dibromofluoromethane (S)	%						113	116	67-130			
Toluene-d8 (S)	%						101	94	70-130			

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

QC Batch: 275368 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

METHOD BLANK: 1619786 Matrix: Water
Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	11/29/17 10:35	
2-Methylnaphthalene	ug/L	<0.0049	0.024	11/29/17 10:35	
Acenaphthene	ug/L	<0.0061	0.030	11/29/17 10:35	
Acenaphthylene	ug/L	<0.0050	0.025	11/29/17 10:35	
Anthracene	ug/L	<0.010	0.052	11/29/17 10:35	
Benzo(a)anthracene	ug/L	<0.0076	0.038	11/29/17 10:35	
Benzo(a)pyrene	ug/L	<0.011	0.053	11/29/17 10:35	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	11/29/17 10:35	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	11/29/17 10:35	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	11/29/17 10:35	
Chrysene	ug/L	<0.013	0.065	11/29/17 10:35	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	11/29/17 10:35	
Fluoranthene	ug/L	<0.011	0.053	11/29/17 10:35	
Fluorene	ug/L	<0.0080	0.040	11/29/17 10:35	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	11/29/17 10:35	
Naphthalene	ug/L	<0.018	0.092	11/29/17 10:35	
Phenanthrene	ug/L	<0.014	0.069	11/29/17 10:35	
Pyrene	ug/L	<0.0076	0.038	11/29/17 10:35	
2-Fluorobiphenyl (S)	%	42	35-84	11/29/17 10:35	
Terphenyl-d14 (S)	%	65	10-129	11/29/17 10:35	

LABORATORY CONTROL SAMPLE: 1619787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	68	39-83	
2-Methylnaphthalene	ug/L	2	1.3	67	38-86	
Acenaphthene	ug/L	2	1.3	64	35-85	
Acenaphthylene	ug/L	2	1.3	66	31-88	
Anthracene	ug/L	2	1.6	79	47-104	
Benzo(a)anthracene	ug/L	2	1.4	70	36-105	
Benzo(a)pyrene	ug/L	2	1.5	77	69-117	
Benzo(b)fluoranthene	ug/L	2	1.4	68	54-107	
Benzo(g,h,i)perylene	ug/L	2	0.77	38	13-86	
Benzo(k)fluoranthene	ug/L	2	1.5	77	63-128	
Chrysene	ug/L	2	1.8	90	69-150	
Dibenz(a,h)anthracene	ug/L	2	0.68	34	10-87	
Fluoranthene	ug/L	2	1.7	84	57-103	
Fluorene	ug/L	2	1.4	70	38-85	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	71	40-111	
Naphthalene	ug/L	2	1.2	59	39-82	

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

LABORATORY CONTROL SAMPLE: 1619787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.4	72	46-96	
Pyrene	ug/L	2	1.6	82	57-110	
2-Fluorobiphenyl (S)	%			61	35-84	
Terphenyl-d14 (S)	%			76	10-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619788 1619789

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161287001 Result	Spike Conc.	Spike Conc.	MS Result						
1-Methylnaphthalene	ug/L	<0.0062	2.1	2	1.3	62	66	27-86	5	29	
2-Methylnaphthalene	ug/L	<0.0052	2.1	2	1.2	58	63	30-86	7	35	
Acenaphthene	ug/L	<0.0064	2.1	2	1.2	56	60	28-85	4	29	
Acenaphthylene	ug/L	<0.0052	2.1	2	1.2	56	60	27-88	4	29	
Anthracene	ug/L	<0.011	2.1	2	1.9	93	95	38-104	1	35	
Benzo(a)anthracene	ug/L	<0.0079	2.1	2	0.61	29	34	10-105	11	28	
Benzo(a)pyrene	ug/L	<0.011	2.1	2	1.1	55	56	10-130	0	26	
Benzo(b)fluoranthene	ug/L	<0.0060	2.1	2	0.84	41	44	10-115	6	25	
Benzo(g,h,i)perylene	ug/L	<0.0071	2.1	2	0.49	23	27	10-87	12	42	
Benzo(k)fluoranthene	ug/L	<0.0079	2.1	2	1.5	73	65	10-133	13	25	
Chrysene	ug/L	<0.014	2.1	2	2.0	98	97	17-150	3	24	
Dibenz(a,h)anthracene	ug/L	<0.011	2.1	2	0.41	20	22	10-89	10	49	
Fluoranthene	ug/L	<0.011	2.1	2	1.8	84	93	41-103	8	32	
Fluorene	ug/L	<0.0084	2.1	2	1.2	57	61	32-85	5	28	
Indeno(1,2,3-cd)pyrene	ug/L	<0.019	2.1	2	0.89	43	48	10-111	9	37	
Naphthalene	ug/L	<0.019	2.1	2	1.1	54	59	23-88	6	28	
Phenanthrene	ug/L	<0.015	2.1	2	1.1	54	62	33-96	12	25	
Pyrene	ug/L	<0.0081	2.1	2	1.6	77	81	38-110	2	28	
2-Fluorobiphenyl (S)	%					55	58	35-84			
Terphenyl-d14 (S)	%					63	66	10-129			

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

QC Batch: 275924 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

METHOD BLANK: 1623207 Matrix: Water
Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	12/18/17 23:52	

LABORATORY CONTROL SAMPLE: 1623208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.0	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623209 1623210

Parameter	Units	40161286005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	<100	2000	2000	2240	2310	111	115	90-110	3	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623211 1623212

Parameter	Units	40161287001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	<100	2000	2000	2520	2460	123	120	90-110	2	15	M0

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161287

QC Batch: 275722 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

METHOD BLANK: 1621596 Matrix: Water
Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	11/30/17 12:31	

LABORATORY CONTROL SAMPLE: 1621597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1621598 1621599

Parameter	Units	1621598		1621599		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		40161287001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Nitrogen, NO2 plus NO3	mg/L	0.50	2.5	2.5	3.0	3.0	99	99	99	90-110	0	20	

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QUALIFIERS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

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

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161287001	112117012	EPA 3010	275901	EPA 6020	276201
40161287002	112117013	EPA 3010	275901	EPA 6020	276201
40161287003	112117014	EPA 3010	275901	EPA 6020	276201
40161287004	112117015	EPA 3010	275901	EPA 6020	276201
40161287005	112117016	EPA 3010	275901	EPA 6020	276201
40161287001	112117012	EPA 7470	276418	EPA 7470	276483
40161287002	112117013	EPA 7470	276418	EPA 7470	276483
40161287003	112117014	EPA 7470	276418	EPA 7470	276483
40161287004	112117015	EPA 7470	276418	EPA 7470	276483
40161287005	112117016	EPA 7470	276418	EPA 7470	276483
40161287001	112117012	EPA 3510	275368	EPA 8270 by HVI	275504
40161287002	112117013	EPA 3510	275368	EPA 8270 by HVI	275504
40161287003	112117014	EPA 3510	275368	EPA 8270 by HVI	275504
40161287004	112117015	EPA 3510	275368	EPA 8270 by HVI	275504
40161287005	112117016	EPA 3510	275368	EPA 8270 by HVI	275504
40161287001	112117012	EPA 8260	275242		
40161287002	112117013	EPA 8260	275528		
40161287003	112117014	EPA 8260	275242		
40161287004	112117015	EPA 8260	275242		
40161287005	112117016	EPA 8260	275619		
40161287001	112117012	EPA 300.0	275924		
40161287002	112117013	EPA 300.0	275924		
40161287003	112117014	EPA 300.0	275924		
40161287004	112117015	EPA 300.0	275924		
40161287005	112117016	EPA 300.0	275924		
40161287001	112117012	EPA 353.2	275722		
40161287002	112117013	EPA 353.2	275722		
40161287003	112117014	EPA 353.2	275722		
40161287004	112117015	EPA 353.2	275722		
40161287005	112117016	EPA 353.2	275722		

REPORT OF LABORATORY ANALYSIS

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



QC: J. M. / J. B. 11/22/17
Dropped at Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

40161287

CO# 1584-117-001

RMV JH

Section A Required Client Information: Company: Natural Resource Technology Address: 234 W. Florida St Milwaukee, WI Email To: GDSdata@OBG.com Phone: 262-719-5286 Fax: Requested Due Date/TAT: standard		Section B Required Project Information: Report To: GDSdata@OBG.com Copy To: Brian Hennings Purchase Order No.: Project Name: Green Bay Former MGP Project Number: 1584/22.2		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 <input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
				Site Location STATE: WI	

ITEM #	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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)								Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test #	BTEX (8260)	1,2,4-Trimethylbenzene**	1,3,5-Trimethylbenzene**	PAHs (8270) SIM	Metals (6020)*		
1	112017001		CW	G			11-22-17	1211	8	X	X	X	X					X	X	X	X	X	X	X	X	X		
2	112017002								8	X	X	X	X					X	X	X	X	X	X	X	X	X		
3	112017003								24	X	X	X	X					X	X	X	X	X	X	X	X	X		
4	112017004								8	X	X	X	X					X	X	X	X	X	X	X	X	X		
5	112017005								8	X	X	X	X					X	X	X	X	X	X	X	X	X		
6	112017006								8	X	X	X	X					X	X	X	X	X	X	X	X	X		
7	112017007								8	X	X	X	X					X	X	X	X	X	X	X	X	X		
8	112017008								8	X	X	X	X					X	X	X	X	X	X	X	X	X		
9	112017009								8	X	X	X	X					X	X	X	X	X	X	X	X	X		
10	112117010						11-21-17	0704	8	X	X	X	X					X	X	X	X	X	X	X	X	X		
11	112117011								8	X	X	X	X					X	X	X	X	X	X	X	X	X		
12	112117012 9-40mL B 9-250mL B 8-100mL B								24	X	X	X	X					X	X	X	X	X	X	X	X	X		

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Melissa Marron							
SIGNATURE of SAMPLER: Melissa Marron			DATE Signed (MM/DD/YY): 11-22-17				

40161287

Sampling Parameters
Green Bay MGP Quarterly Groundwater Sampling

BTEX (USEPA 8260)

- Benzene
- Toluene
- Ethylbenzene
- Xylene
- 1,2,4- Trimethylbenzene
- 1,3,5- Trimethylbenzene

PAHs (USEPA 8270 SIM)

- Full List

Metals (USEPA 6020)

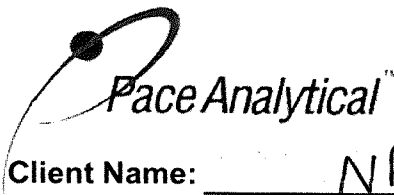
- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Mercury
- Selenium
- Silver
- Iron
- Manganese

Other Inorganics

- Sulfate (EPA 300.0)
- Nitrate + Nitrite (EPA 353.2)
- Methane (EPA 8015B) – **SPRING ONLY**

Available Cyanides go to Test America

- Method OIA-1677



Sample Condition Upon Receipt

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

Project #:

WO#: 40161287



Client Name: NRT

Courier: Fed Ex UPS Client Pace Other:

Tracking #:

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 201 / Corr: Biological Tissue is Frozen: yes

Temp Blank Present: yes no

Person examining contents:
Date: 11-22-17
Initials: KR

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

Comments:

Table with 15 rows of inspection criteria and checkboxes. Includes items like Chain of Custody Present, Short Hold Time Analysis, and Headspace in Vials.

Client Notification/ Resolution:
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: [Signature] Date: 11/22/17
F-GB-C-031-Rev.04 (12Dec2016) SCUR.xls
Pace Analytical Services LLC. - Green Bay WI
Page 35 of 35



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

January 29, 2018

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 MGP Site
700 North Adams Street, (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 site at 700 North Adams Street is providing results of groundwater samples (MW-407, MW-417, MW-418) collected as part of routine monitoring in November of 2017. Wisconsin Administrative Code Chapter NR 716.14 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 applicable State groundwater 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 and are also reported to WDNR and USEPA in monthly progress reports.

We appreciate your ongoing cooperation in this matter.

If you need additional information, please me at 414-221-2156 or via email at frank.dombrowski@we-energies.com or Mr. Tauren Beggs, WDNR project manager, at 920-662-5178.

Sincerely,

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

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

Mr. Steven M. Grenier, P.E.
City of Green Bay
January 29, 2018
Page 2

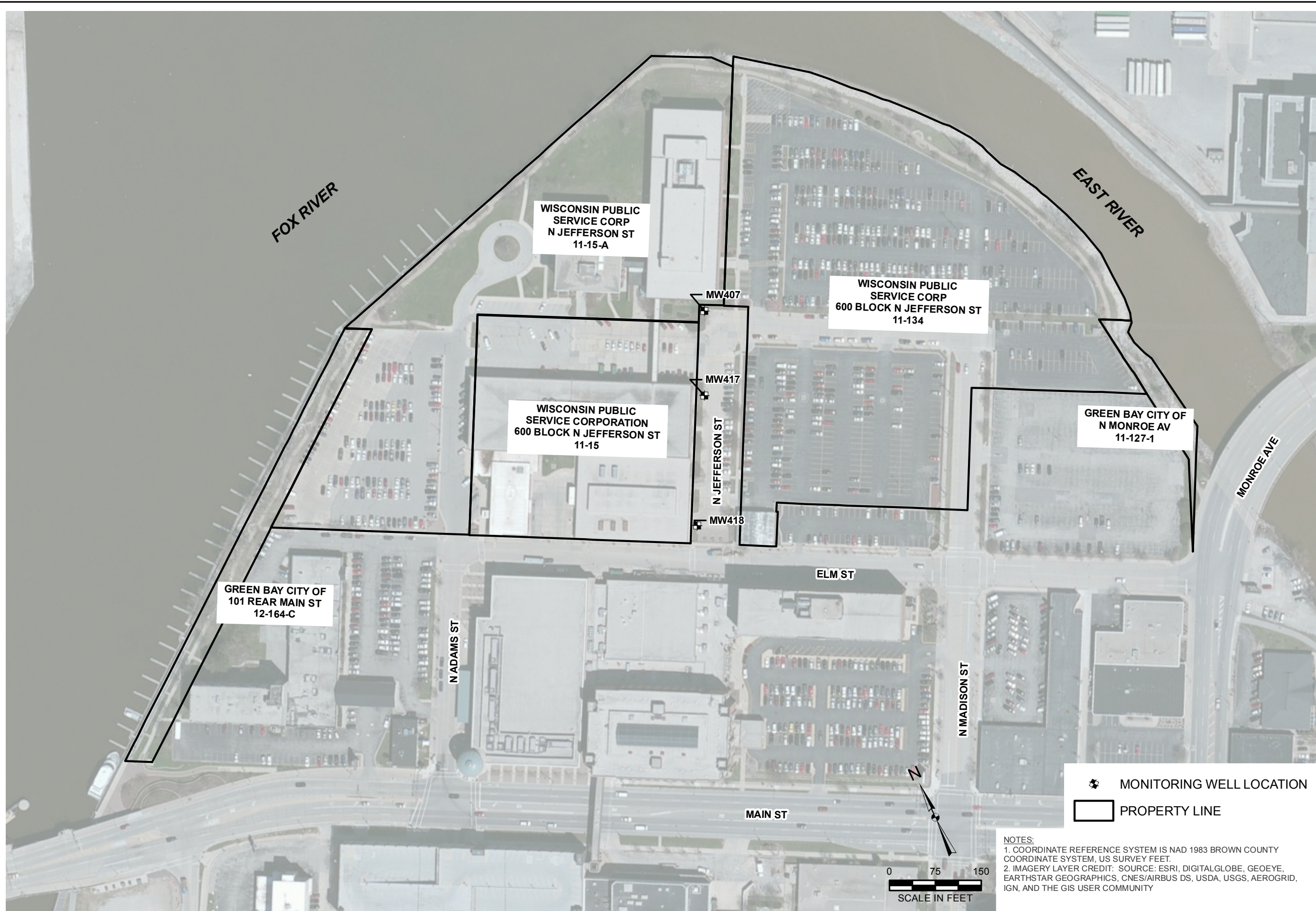
Encl: Figure 1. City of Green Bay
Table 1. Groundwater Analytical Results for City of Green Bay (Nov 2017)
Table 2. Sample Key for the City of Green Bay (Nov 2017)
Laboratory Data Reports - 40161286_frc

CC: Ms. Margaret Gielniewski, USEPA
Mr. Tauren Beggs, WDNR
Mr. Bob Laskowski, WPSC



Figures

Y:\GIS\Projects\151584\MXD\WEC Adjacent Prop Data Maps\Figure 1_City of Green Bay_180126.mxd Author: slc/isd Date/Time: 1/26/2018, 11:14:32 AM



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
BRTS# 0205000254

PROJECT NO: 67983

FIGURE NO: 1





Tables

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

November 2017 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 UPSEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	
			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	µg/L
WI Groundwater PAL:			NS	NS	NS	NS	<u>600</u>	NS	<u>0.02</u>	<u>0.02</u>	NS	NS	<u>0.02</u>	NS	<u>80</u>	<u>80</u>	NS	<u>10</u>	NS	<u>50</u>
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
112017001	MW-418	11/20/2017	<0.0061 U	<0.0051 U	0.0076 J	<0.0051 U	<0.011 U	<0.0078 U	<0.011 U	0.0060 J	<0.0070 U	<0.0078 U	<0.013 U	<0.010 U	<0.011 U	<0.0082 U	<0.018 U	<0.019 U	<0.014 U	0.011 J
112017002	MW-417	11/20/2017	<0.0063 U	<0.0053 U	<0.0065 U	<0.0054 U	<0.011 U	<0.0081 U	<0.011 U	<0.0062 U	<0.0073 U	<0.0081 U	<0.014 U	<0.011 U	<0.011 U	<0.0086 U	<0.019 U	<0.020 U	<0.015 U	<0.0082 U
112017003	MW-407	11/20/2017	<0.0065 U	<0.0054 U	<0.0067 U	<0.0055 U	<0.011 U	<0.0083 U	<0.012 U	<0.0063 U	<0.0075 U	<0.0083 U	<0.014 U	<0.011 U	<0.012 U	<0.0088 U	<0.019 U	<0.020 U	<0.015 U	0.010 J

Notes:
Underline = concentration that attains or exceeds WDNR PAL
BOLD = concentration that attains or exceeds WDNR ES
 * = Level of Detection (LOD) meets or exceeds the Pal and/or the ES Groundwater Criteria
 < = Concentration is less than reported limit
 J = Concentration estimated
 U = Not detected
 Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.
 µg/L = micrograms per liter
 BTEX = benzene, toluene, ethylbenzene and xylenes
 NO2 + NO3 = nitrite plus nitrate
 PAH = polycyclic aromatic hydrocarbons
 VOC = Volatile Organic Compound
 ES = Enforcement Standard
 PAL = Preventive Action Limit
 PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective February 2017.
 NS = A groundwater quality standard has not been established.
 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, the detected results were added together for the total summation.
 c. The list of 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

November 2017 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 UPSEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	VOC	VOC	VOC	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	
			Ethylbenzene	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	µg/L	
WI Groundwater PAL:			<u>0.5</u>	<u>140</u>	<u>160</u>	<u>NS</u>	<u>NS</u>	<u>400</u>	<u>NS</u>	<u>NS</u>	<u>96</u>	<u>1</u>	<u>400</u>	<u>0.5</u>	<u>10</u>	<u>150</u>	<u>1.5</u>	<u>25</u>	<u>0.2</u>	<u>10</u>	<u>10</u>	<u>2,000</u>	<u>125,000</u>
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
112017001	MW-418	11/20/2017	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<1.4 U*	396	<u>0.50 J</u>	<5.1 U	<553 U*	<0.98 U	556	<0.50 U*	<1.6 U	<0.50 U	<u>2,100</u>	<100,000 U
112017002	MW-417	11/20/2017	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<2.8 U*	<u>678</u>	<0.81 U*	<10.2 U*	12,000	<2.0 U*	916	<0.50 U*	<3.2 U	<1.0 U	<95 U	<100,000 U
112017003	MW-407	11/20/2017	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<u>3.7 J</u>	344	<0.40 U	<5.1 U	12,000	<0.98 U	488	<0.50 U*	<1.6 U	<0.50 U	<95 U	<100,000 U

[O:ECK C:ECK 1/24/18 C: TWL 1/25/18][U:ECK 1/26/17]

Notes:

Underline = concentration that attains or exceeds WDNR PAL

BOLD = concentration that attains or exceeds WDNR ES

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

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

NO2 + NO3 = nitrite plus nitrate

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

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

NS = A groundwater quality standard has not been established.

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, the detected results were added together for the total summation.
- c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.



Table 2. Sample Key for the City of Green Bay

November 2017 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 UPSEPA#: WIN000509948

PACE Lab Report	9-digit code	Location ID Name	Matrix	Date
40161286	112017001	MW-418	Groundwater	11/20/2017
40161286	112017002	MW-417	Groundwater	11/20/2017
40161286	112017003	MW-407	Groundwater	11/20/2017

[O:ECK C:ECK 1/24/18 C:TWL 1/25/18]

Notes:

Sorted by: Matrix, Lab Report #, 9-digit code, Location Name, and Date





Laboratory Data Reports

This report has been modified to remove sample information that was collected from another property.

December 21, 2017

Eric Hritsuk
Natural Resource Technologies

RE: Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161286

Dear Eric Hritsuk:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: Phil Brochocki, Natural Resources Technologies
NRT Data, Natural Resource Technologies
Brian Hennings, NATURAL RESOURCE TECHNOLOGY
Robert Paulson, We Energies
Steve Wiskes, Natural Resources Technologies



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40161286001	112017001	Water	11/20/17 12:11	11/22/17 08:50
40161286002	112017002	Water	11/20/17 12:58	11/22/17 08:50
40161286003	112017003	Water	11/20/17 13:44	11/22/17 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40161286001	112017001	EPA 6020	SDW	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
40161286002	112017002	EPA 6020	SDW	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
40161286003	112017003	EPA 6020	SDW	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

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SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
--------	-----------	--------	----------	-------------------

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
--------	-----------	--------	----------	-------------------

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
--------	-----------	--------	----------	-------------------

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Date: December 21, 2017

112017003 (Lab ID: 40161286003)

- The Sulfate sample for 112017003 was run 1 day past hold due to instrument issue in the lab. Sample was received with sufficient time to analyze.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

General Information:

19 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: 276133

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

- 112017001 (Lab ID: 40161286001)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Iron, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved
- 112017002 (Lab ID: 40161286002)
 - Silver, Dissolved
 - Arsenic, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

Analyte Comments:

QC Batch: 276133

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

- 112017002 (Lab ID: 40161286002)
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved
- 112017003 (Lab ID: 40161286003)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

Analyte Comments:

QC Batch: 276133

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

Analyte Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 7470

Description: 7470 Mercury, Dissolved

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

General Information:

19 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:

Analyte Comments:

QC Batch: 276417

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

- 112017001 (Lab ID: 40161286001)
 - Mercury, Dissolved
- 112017002 (Lab ID: 40161286002)
 - Mercury, Dissolved
- 112017003 (Lab ID: 40161286003)
 - Mercury, Dissolved

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 7470

Description: 7470 Mercury, Dissolved

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

Analyte Comments:

QC Batch: 276417

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161286

Method: EPA 8270 by HVI
Description: 8270 MSSV PAH by HVI
Client: Natural Resource Technology Integrys WI
Date: December 21, 2017

General Information:

19 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.

QC Batch: 275221

B: Analyte was detected in the associated method blank.

- BLANK for HBN 275221 [OEXT/373 (Lab ID: 1619351)
 - 2-Methylnaphthalene
 - Acenaphthene

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 275221

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

- LCS (Lab ID: 1619352)
 - Benzo(a)pyrene

QC Batch: 275222

R1: RPD value was outside control limits.

- LCSD (Lab ID: 1619357)
 - Anthracene

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 8270 by HVI

Description: 8270 MSSV PAH by HVI

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

Matrix Spikes:

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

QC Batch: 275221

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40161286003

R1: RPD value was outside control limits.

- MSD (Lab ID: 1619354)
- Anthracene

QC Batch: 275222

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

QC Batch: 275367

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40161271001

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

- MS (Lab ID: 1619784)
 - Acenaphthene
 - Anthracene
 - Benzo(b)fluoranthene
 - Benzo(g,h,i)perylene
 - Chrysene
 - Fluoranthene
 - Fluorene
 - Phenanthrene
 - Pyrene
- MSD (Lab ID: 1619785)
 - Acenaphthene
 - Anthracene
 - Benzo(b)fluoranthene
 - Benzo(g,h,i)perylene
 - Fluoranthene
 - Phenanthrene
 - Pyrene

Additional Comments:

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161286

Method: EPA 8260
Description: 8260 MSV UST
Client: Natural Resource Technology Integrys WI
Date: December 21, 2017

General Information:

20 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.

QC Batch: 275528

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40161286018

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

- MS (Lab ID: 1620594)
 - Benzene
 - Ethylbenzene
 - Toluene
 - m&p-Xylene
 - o-Xylene
- MSD (Lab ID: 1620595)
 - Benzene
 - Ethylbenzene
 - o-Xylene

Additional Comments:

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 8260

Description: 8260 MSV UST

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

Analyte Comments:

QC Batch: 275528

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1620594)
 - Benzene
- MSD (Lab ID: 1620595)
 - Benzene

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

General Information:

19 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.

H1: Analysis conducted outside the recognized method holding time.

- 112017003 (Lab ID: 40161286003)

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: 275924

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40161286005,40161287001

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

- MS (Lab ID: 1623209)
 - Sulfate
- MS (Lab ID: 1623211)
 - Sulfate
- MSD (Lab ID: 1623210)
 - Sulfate
- MSD (Lab ID: 1623212)
 - Sulfate

QC Batch: 277171

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40161275002

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

- MSD (Lab ID: 1629425)
 - Sulfate

QC Batch: 277302

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40161286003

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

- MS (Lab ID: 1630516)
 - Sulfate
- MSD (Lab ID: 1630517)
 - Sulfate

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

Additional Comments:

Analyte Comments:

QC Batch: 275924

QC Batch: 277171

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

- 112017001 (Lab ID: 40161286001)
 - Sulfate
- 112017002 (Lab ID: 40161286002)
 - Sulfate

QC Batch: 277302

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

- 112017003 (Lab ID: 40161286003)
 - Sulfate

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

Client: Natural Resource Technology Integrys WI

Date: December 21, 2017

General Information:

19 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Sample: 112017001 **Lab ID: 40161286001** Collected: 11/20/17 12:11 Received: 11/22/17 08:50 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	<1.4	ug/L	5.0	1.4	5	12/05/17 09:48	12/14/17 09:18	7440-38-2	D3
Barium, Dissolved	396	ug/L	5.7	1.7	5	12/05/17 09:48	12/14/17 09:18	7440-39-3	
Cadmium, Dissolved	0.50J	ug/L	5.0	0.40	5	12/05/17 09:48	12/14/17 09:18	7440-43-9	D3
Chromium, Dissolved	<5.1	ug/L	17.0	5.1	5	12/05/17 09:48	12/14/17 09:18	7440-47-3	D3
Iron, Dissolved	<553	ug/L	1840	553	5	12/05/17 09:48	12/14/17 09:18	7439-89-6	D3
Lead, Dissolved	<0.98	ug/L	5.0	0.98	5	12/05/17 09:48	12/14/17 09:18	7439-92-1	D3
Manganese, Dissolved	556	ug/L	45.0	13.5	5	12/05/17 09:48	12/14/17 09:18	7439-96-5	
Selenium, Dissolved	<1.6	ug/L	5.3	1.6	5	12/05/17 09:48	12/14/17 09:18	7782-49-2	D3
Silver, Dissolved	<0.50	ug/L	2.5	0.50	5	12/05/17 09:48	12/14/17 09:18	7440-22-4	D3
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.50	ug/L	1.7	0.50	1	12/07/17 08:55	12/08/17 09:36	7439-97-6	D3
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.0076J	ug/L	0.031	0.0063	1	11/27/17 10:40	11/30/17 11:45	83-32-9	B
Acenaphthylene	<0.0051	ug/L	0.026	0.0051	1	11/27/17 10:40	11/30/17 11:45	208-96-8	
Anthracene	<0.011	ug/L	0.054	0.011	1	11/27/17 10:40	11/30/17 11:45	120-12-7	
Benzo(a)anthracene	<0.0078	ug/L	0.039	0.0078	1	11/27/17 10:40	11/30/17 11:45	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.054	0.011	1	11/27/17 10:40	11/30/17 11:45	50-32-8	L2
Benzo(b)fluoranthene	0.0060J	ug/L	0.030	0.0059	1	11/27/17 10:40	11/30/17 11:45	205-99-2	
Benzo(g,h,i)perylene	<0.0070	ug/L	0.035	0.0070	1	11/27/17 10:40	11/30/17 11:45	191-24-2	
Benzo(k)fluoranthene	<0.0078	ug/L	0.039	0.0078	1	11/27/17 10:40	11/30/17 11:45	207-08-9	
Chrysene	<0.013	ug/L	0.067	0.013	1	11/27/17 10:40	11/30/17 11:45	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.052	0.010	1	11/27/17 10:40	11/30/17 11:45	53-70-3	
Fluoranthene	<0.011	ug/L	0.055	0.011	1	11/27/17 10:40	11/30/17 11:45	206-44-0	
Fluorene	<0.0082	ug/L	0.041	0.0082	1	11/27/17 10:40	11/30/17 11:45	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.018	ug/L	0.091	0.018	1	11/27/17 10:40	11/30/17 11:45	193-39-5	
1-Methylnaphthalene	<0.0061	ug/L	0.030	0.0061	1	11/27/17 10:40	11/30/17 11:45	90-12-0	
2-Methylnaphthalene	<0.0051	ug/L	0.025	0.0051	1	11/27/17 10:40	11/30/17 11:45	91-57-6	
Naphthalene	<0.019	ug/L	0.094	0.019	1	11/27/17 10:40	11/30/17 11:45	91-20-3	
Phenanthrene	<0.014	ug/L	0.071	0.014	1	11/27/17 10:40	11/30/17 11:45	85-01-8	
Pyrene	0.011J	ug/L	0.039	0.0079	1	11/27/17 10:40	11/30/17 11:45	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	35-84		1	11/27/17 10:40	11/30/17 11:45	321-60-8	
Terphenyl-d14 (S)	80	%	10-129		1	11/27/17 10:40	11/30/17 11:45	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:14	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:14	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:14	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:14	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:14	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/27/17 20:14	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/27/17 20:14	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:14	95-47-6	

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Lab Project No.: 40161286

Sample: 112017001 Lab ID: 40161286001 Collected: 11/20/17 12:11 Received: 11/22/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	111	%	67-130		1		11/27/17 20:14	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		11/27/17 20:14	2037-26-5	
4-Bromofluorobenzene (S)	87	%	61-130		1		11/27/17 20:14	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	<100	mg/L	300	100	100		12/14/17 19:57	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	2.1	mg/L	0.25	0.095	1		12/01/17 09:07		

Sample: 112017002 Lab ID: 40161286002 Collected: 11/20/17 12:58 Received: 11/22/17 08:50 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	12/05/17 09:48	12/14/17 09:48	7440-38-2	D3
Barium, Dissolved	678	ug/L	11.4	3.4	10	12/05/17 09:48	12/14/17 09:48	7440-39-3	
Cadmium, Dissolved	<0.81	ug/L	10.0	0.81	10	12/05/17 09:48	12/14/17 09:48	7440-43-9	D3
Chromium, Dissolved	<10.2	ug/L	34.0	10.2	10	12/05/17 09:48	12/14/17 09:48	7440-47-3	D3
Iron, Dissolved	12000	ug/L	3680	1110	10	12/05/17 09:48	12/14/17 09:48	7439-89-6	
Lead, Dissolved	<2.0	ug/L	10.0	2.0	10	12/05/17 09:48	12/14/17 09:48	7439-92-1	D3
Manganese, Dissolved	916	ug/L	90.0	27.0	10	12/05/17 09:48	12/14/17 09:48	7439-96-5	
Selenium, Dissolved	<3.2	ug/L	10.6	3.2	10	12/05/17 09:48	12/14/17 09:48	7782-49-2	D3
Silver, Dissolved	<1.0	ug/L	5.0	1.0	10	12/05/17 09:48	12/14/17 09:48	7440-22-4	D3
7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.50	ug/L	1.7	0.50	1	12/07/17 08:55	12/08/17 09:38	7439-97-6	D3
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0065	ug/L	0.033	0.0065	1	11/27/17 10:40	11/30/17 12:04	83-32-9	
Acenaphthylene	<0.0054	ug/L	0.027	0.0054	1	11/27/17 10:40	11/30/17 12:04	208-96-8	
Anthracene	<0.011	ug/L	0.056	0.011	1	11/27/17 10:40	11/30/17 12:04	120-12-7	
Benzo(a)anthracene	<0.0081	ug/L	0.041	0.0081	1	11/27/17 10:40	11/30/17 12:04	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.057	0.011	1	11/27/17 10:40	11/30/17 12:04	50-32-8	L2
Benzo(b)fluoranthene	<0.0062	ug/L	0.031	0.0062	1	11/27/17 10:40	11/30/17 12:04	205-99-2	
Benzo(g,h,i)perylene	<0.0073	ug/L	0.036	0.0073	1	11/27/17 10:40	11/30/17 12:04	191-24-2	
Benzo(k)fluoranthene	<0.0081	ug/L	0.041	0.0081	1	11/27/17 10:40	11/30/17 12:04	207-08-9	
Chrysene	<0.014	ug/L	0.070	0.014	1	11/27/17 10:40	11/30/17 12:04	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.054	0.011	1	11/27/17 10:40	11/30/17 12:04	53-70-3	
Fluoranthene	<0.011	ug/L	0.057	0.011	1	11/27/17 10:40	11/30/17 12:04	206-44-0	
Fluorene	<0.0086	ug/L	0.043	0.0086	1	11/27/17 10:40	11/30/17 12:04	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.019	ug/L	0.095	0.019	1	11/27/17 10:40	11/30/17 12:04	193-39-5	
1-Methylnaphthalene	<0.0063	ug/L	0.032	0.0063	1	11/27/17 10:40	11/30/17 12:04	90-12-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Sample: 112017002 **Lab ID: 40161286002** Collected: 11/20/17 12:58 Received: 11/22/17 08:50 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	<0.0053	ug/L	0.026	0.0053	1	11/27/17 10:40	11/30/17 12:04	91-57-6	
Naphthalene	<0.020	ug/L	0.099	0.020	1	11/27/17 10:40	11/30/17 12:04	91-20-3	
Phenanthrene	<0.015	ug/L	0.074	0.015	1	11/27/17 10:40	11/30/17 12:04	85-01-8	
Pyrene	<0.0082	ug/L	0.041	0.0082	1	11/27/17 10:40	11/30/17 12:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	35-84		1	11/27/17 10:40	11/30/17 12:04	321-60-8	
Terphenyl-d14 (S)	81	%	10-129		1	11/27/17 10:40	11/30/17 12:04	1718-51-0	
8260 MSV UST		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:37	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:37	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:37	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:37	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:37	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/27/17 20:37	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/27/17 20:37	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/27/17 20:37	95-47-6	
Surrogates									
Dibromofluoromethane (S)	112	%	67-130		1		11/27/17 20:37	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/27/17 20:37	2037-26-5	
4-Bromofluorobenzene (S)	86	%	61-130		1		11/27/17 20:37	460-00-4	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate	<100	mg/L	300	100	100		12/14/17 20:12	14808-79-8	D3
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		12/01/17 09:08		

Sample: 112017003 **Lab ID: 40161286003** Collected: 11/20/17 13:44 Received: 11/22/17 08:50 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	3.7J	ug/L	5.0	1.4	5	12/05/17 09:48	12/14/17 18:34	7440-38-2	D3
Barium, Dissolved	344	ug/L	5.7	1.7	5	12/05/17 09:48	12/14/17 18:34	7440-39-3	
Cadmium, Dissolved	<0.40	ug/L	5.0	0.40	5	12/05/17 09:48	12/14/17 18:34	7440-43-9	D3
Chromium, Dissolved	<5.1	ug/L	17.0	5.1	5	12/05/17 09:48	12/14/17 18:34	7440-47-3	D3
Iron, Dissolved	12000	ug/L	1840	553	5	12/05/17 09:48	12/14/17 18:34	7439-89-6	
Lead, Dissolved	<0.98	ug/L	5.0	0.98	5	12/05/17 09:48	12/14/17 18:34	7439-92-1	D3
Manganese, Dissolved	488	ug/L	45.0	13.5	5	12/05/17 09:48	12/14/17 18:34	7439-96-5	
Selenium, Dissolved	<1.6	ug/L	5.3	1.6	5	12/05/17 09:48	12/14/17 18:34	7782-49-2	D3
Silver, Dissolved	<0.50	ug/L	2.5	0.50	5	12/05/17 09:48	12/14/17 18:34	7440-22-4	D3

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Sample: 112017003 Lab ID: 40161286003 Collected: 11/20/17 13:44 Received: 11/22/17 08:50 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	<0.50	ug/L	1.7	0.50	1	12/07/17 08:55	12/08/17 09:29	7439-97-6	D3
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0067	ug/L	0.033	0.0067	1	11/27/17 10:40	11/28/17 10:41	83-32-9	
Acenaphthylene	<0.0055	ug/L	0.027	0.0055	1	11/27/17 10:40	11/28/17 10:41	208-96-8	
Anthracene	<0.011	ug/L	0.057	0.011	1	11/27/17 10:40	11/28/17 10:41	120-12-7	R1
Benzo(a)anthracene	<0.0083	ug/L	0.041	0.0083	1	11/27/17 10:40	11/28/17 10:41	56-55-3	
Benzo(a)pyrene	<0.012	ug/L	0.058	0.012	1	11/27/17 10:40	11/28/17 10:41	50-32-8	L2
Benzo(b)fluoranthene	<0.0063	ug/L	0.032	0.0063	1	11/27/17 10:40	11/28/17 10:41	205-99-2	
Benzo(g,h,i)perylene	<0.0075	ug/L	0.037	0.0075	1	11/27/17 10:40	11/28/17 10:41	191-24-2	
Benzo(k)fluoranthene	<0.0083	ug/L	0.041	0.0083	1	11/27/17 10:40	11/28/17 10:41	207-08-9	
Chrysene	<0.014	ug/L	0.072	0.014	1	11/27/17 10:40	11/28/17 10:41	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.055	0.011	1	11/27/17 10:40	11/28/17 10:41	53-70-3	
Fluoranthene	<0.012	ug/L	0.059	0.012	1	11/27/17 10:40	11/28/17 10:41	206-44-0	
Fluorene	<0.0088	ug/L	0.044	0.0088	1	11/27/17 10:40	11/28/17 10:41	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.019	ug/L	0.097	0.019	1	11/27/17 10:40	11/28/17 10:41	193-39-5	
1-Methylnaphthalene	<0.0065	ug/L	0.032	0.0065	1	11/27/17 10:40	11/28/17 10:41	90-12-0	
2-Methylnaphthalene	<0.0054	ug/L	0.027	0.0054	1	11/27/17 10:40	11/28/17 10:41	91-57-6	
Naphthalene	<0.020	ug/L	0.10	0.020	1	11/27/17 10:40	11/28/17 10:41	91-20-3	
Phenanthrene	<0.015	ug/L	0.076	0.015	1	11/27/17 10:40	11/28/17 10:41	85-01-8	
Pyrene	0.010J	ug/L	0.042	0.0084	1	11/27/17 10:40	11/28/17 10:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	35-84		1	11/27/17 10:40	11/28/17 10:41	321-60-8	
Terphenyl-d14 (S)	77	%	10-129		1	11/27/17 10:40	11/28/17 10:41	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		11/28/17 09:05	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/28/17 09:05	100-41-4	
Toluene	<0.50	ug/L	1.0	0.50	1		11/28/17 09:05	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/28/17 09:05	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/28/17 09:05	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/28/17 09:05	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/28/17 09:05	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/28/17 09:05	95-47-6	
Surrogates									
Dibromofluoromethane (S)	111	%	67-130		1		11/28/17 09:05	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/28/17 09:05	2037-26-5	
4-Bromofluorobenzene (S)	88	%	61-130		1		11/28/17 09:05	460-00-4	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Sulfate	<100	mg/L	300	100	100		12/19/17 10:40	14808-79-8	D3,H1, MO
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		12/01/17 09:09		

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Project: 1584/22.2 GREEN BAY FORMER MGP

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

QC Batch: 276417

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury Dissolved

Associated Lab Samples: 40161286001, 40161286002, 40161286003.

METHOD BLANK: 1625777

Matrix: Water

Associated Lab Samples: 40161286001, 40161286002, 40161286003.

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	12/08/17 09:24	

LABORATORY CONTROL SAMPLE: 1625778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1625779 1625780

Parameter	Units	40161286003 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	<0.50	20	20	19.8	19.5	99	97	85-115	2	20	

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161286

QC Batch: 276133 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40161286001, 40161286002, 40161286003.

METHOD BLANK: 1624190 Matrix: Water
Associated Lab Samples: 40161286001, 40161286002, 40161286003.

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	12/14/17 08:18	
Barium, Dissolved	ug/L	<0.34	1.1	12/14/17 08:18	
Cadmium, Dissolved	ug/L	<0.081	1.0	12/14/17 08:18	
Chromium, Dissolved	ug/L	<1.0	3.4	12/14/17 08:18	
Iron, Dissolved	ug/L	<111	368	12/14/17 08:18	
Lead, Dissolved	ug/L	<0.20	1.0	12/14/17 08:18	
Manganese, Dissolved	ug/L	<2.7	9.0	12/14/17 08:18	
Selenium, Dissolved	ug/L	<0.32	1.1	12/14/17 08:18	
Silver, Dissolved	ug/L	<0.10	0.50	12/14/17 08:18	

LABORATORY CONTROL SAMPLE: 1624191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	509	102	80-120	
Barium, Dissolved	ug/L	500	513	103	80-120	
Cadmium, Dissolved	ug/L	500	531	106	80-120	
Chromium, Dissolved	ug/L	500	504	101	80-120	
Iron, Dissolved	ug/L	5000	4990	100	80-120	
Lead, Dissolved	ug/L	500	504	101	80-120	
Manganese, Dissolved	ug/L	500	507	101	80-120	
Selenium, Dissolved	ug/L	500	537	107	80-120	
Silver, Dissolved	ug/L	250	256	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624192 1624193

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161286003 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic, Dissolved	ug/L	3.7J	500	500	522	524	104	104	75-125	1	20
Barium, Dissolved	ug/L	344	500	500	864	852	104	102	75-125	1	20
Cadmium, Dissolved	ug/L	<0.40	500	500	515	519	103	104	75-125	1	20
Chromium, Dissolved	ug/L	<5.1	500	500	503	487	101	97	75-125	3	20
Iron, Dissolved	ug/L	12000	5000	5000	17800	17000	116	99	75-125	5	20
Lead, Dissolved	ug/L	<0.98	500	500	503	487	101	97	75-125	3	20
Manganese, Dissolved	ug/L	488	500	500	1030	985	109	99	75-125	5	20
Selenium, Dissolved	ug/L	<1.6	500	500	545	538	109	107	75-125	1	20

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624192		1624193		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40161286003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									
Silver, Dissolved	ug/L	<0.50	250	250	241	242	96	97	75-125	1	20			

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161286

QC Batch: 275199 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40161286001, 40161286002

METHOD BLANK: 1619280 Matrix: Water
Associated Lab Samples: 40161286001, 40161286002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	11/27/17 14:38	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	11/27/17 14:38	
Benzene	ug/L	<0.50	1.0	11/27/17 14:38	
Ethylbenzene	ug/L	<0.50	1.0	11/27/17 14:38	
m&p-Xylene	ug/L	<1.0	2.0	11/27/17 14:38	
o-Xylene	ug/L	<0.50	1.0	11/27/17 14:38	
Toluene	ug/L	<0.50	1.0	11/27/17 14:38	
Xylene (Total)	ug/L	<1.5	3.0	11/27/17 14:38	
4-Bromofluorobenzene (S)	%	87	61-130	11/27/17 14:38	
Dibromofluoromethane (S)	%	111	67-130	11/27/17 14:38	
Toluene-d8 (S)	%	96	70-130	11/27/17 14:38	

LABORATORY CONTROL SAMPLE: 1619281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	44.8	90	73-145	
Ethylbenzene	ug/L	50	51.1	102	87-129	
m&p-Xylene	ug/L	100	105	105	70-130	
o-Xylene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	50.9	102	82-130	
Xylene (Total)	ug/L	150	156	104	70-130	
4-Bromofluorobenzene (S)	%			104	61-130	
Dibromofluoromethane (S)	%			105	67-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619282 1619283

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161238001 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	407	500	500	835	858	86	90	73-145	3	20
Ethylbenzene	ug/L	2200	500	500	2720	2670	104	96	87-129	2	20
m&p-Xylene	ug/L	47.2	1000	1000	1130	1100	108	105	70-130	3	20
o-Xylene	ug/L	<10.0	500	500	515	505	103	101	70-130	2	20
Toluene	ug/L	<10.0	500	500	517	508	102	101	82-131	2	20
Xylene (Total)	ug/L	47.2	1500	1500	1640	1600	106	104	70-130	2	20
4-Bromofluorobenzene (S)	%						105	103	61-130		
Dibromofluoromethane (S)	%						104	105	67-130		
Toluene-d8 (S)	%						98	98	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161286

QC Batch: 275200 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40161286003.

METHOD BLANK: 1619284 Matrix: Water
Associated Lab Samples: 40161286003.

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	11/28/17 07:13	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	11/28/17 07:13	
Benzene	ug/L	<0.50	1.0	11/28/17 07:13	
Ethylbenzene	ug/L	<0.50	1.0	11/28/17 07:13	
m&p-Xylene	ug/L	<1.0	2.0	11/28/17 07:13	
o-Xylene	ug/L	<0.50	1.0	11/28/17 07:13	
Toluene	ug/L	<0.50	1.0	11/28/17 07:13	
Xylene (Total)	ug/L	<1.5	3.0	11/28/17 07:13	
4-Bromofluorobenzene (S)	%	88	61-130	11/28/17 07:13	
Dibromofluoromethane (S)	%	113	67-130	11/28/17 07:13	
Toluene-d8 (S)	%	95	70-130	11/28/17 07:13	

LABORATORY CONTROL SAMPLE: 1619285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	44.6	89	73-145	
Ethylbenzene	ug/L	50	51.3	103	87-129	
m&p-Xylene	ug/L	100	106	106	70-130	
o-Xylene	ug/L	50	50.3	101	70-130	
Toluene	ug/L	50	51.1	102	82-130	
Xylene (Total)	ug/L	150	156	104	70-130	
4-Bromofluorobenzene (S)	%			106	61-130	
Dibromofluoromethane (S)	%			104	67-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619286 1619287

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161286003 Result	Spike Conc.	Spike Conc.	Result						
Benzene	ug/L	<0.50	50	50	43.9	44.4	88	89	73-145	1	20
Ethylbenzene	ug/L	<0.50	50	50	51.2	51.7	102	103	87-129	1	20
m&p-Xylene	ug/L	<1.0	100	100	105	105	105	105	70-130	0	20
o-Xylene	ug/L	<0.50	50	50	50.1	51.0	100	102	70-130	2	20
Toluene	ug/L	<0.50	50	50	50.8	51.3	101	102	82-131	1	20
Xylene (Total)	ug/L	<1.5	150	150	155	156	103	104	70-130	1	20

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619286		1619287		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40161286003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
4-Bromofluorobenzene (S)	%					104	104	61-130			
Dibromofluoromethane (S)	%					104	104	67-130			
Toluene-d8 (S)	%					97	97	70-130			

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

QC Batch: 275221 Analysis Method: EPA 8270 by HVI
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
 Associated Lab Samples: 40161286001, 40161286002, 40161286003,

METHOD BLANK: 1619351 Matrix: Water

Associated Lab Samples: 40161286001, 40161286002, 40161286003,

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.020J	0.030	11/28/17 11:37	
2-Methylnaphthalene	ug/L	0.023J	0.024	11/28/17 11:37	
Acenaphthene	ug/L	0.013J	0.030	11/28/17 11:37	
Acenaphthylene	ug/L	<0.0050	0.025	11/28/17 11:37	
Anthracene	ug/L	<0.010	0.052	11/28/17 11:37	
Benzo(a)anthracene	ug/L	<0.0076	0.038	11/28/17 11:37	
Benzo(a)pyrene	ug/L	<0.011	0.053	11/28/17 11:37	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	11/28/17 11:37	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	11/28/17 11:37	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	11/28/17 11:37	
Chrysene	ug/L	<0.013	0.065	11/28/17 11:37	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	11/28/17 11:37	
Fluoranthene	ug/L	<0.011	0.053	11/28/17 11:37	
Fluorene	ug/L	<0.0080	0.040	11/28/17 11:37	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	11/28/17 11:37	
Naphthalene	ug/L	0.031J	0.092	11/28/17 11:37	
Phenanthrene	ug/L	<0.014	0.069	11/28/17 11:37	
Pyrene	ug/L	<0.0076	0.038	11/28/17 11:37	
2-Fluorobiphenyl (S)	%	58	35-84	11/28/17 11:37	
Terphenyl-d14 (S)	%	89	10-129	11/28/17 11:37	

LABORATORY CONTROL SAMPLE: 1619352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	61	39-83	
2-Methylnaphthalene	ug/L	2	1.2	59	38-86	
Acenaphthene	ug/L	2	1.1	56	35-85	
Acenaphthylene	ug/L	2	1.1	57	31-88	
Anthracene	ug/L	2	1.4	70	47-104	
Benzo(a)anthracene	ug/L	2	1.1	57	36-105	
Benzo(a)pyrene	ug/L	2	1.3	66	69-117 L2	
Benzo(b)fluoranthene	ug/L	2	1.2	58	54-107	
Benzo(g,h,i)perylene	ug/L	2	0.65	32	13-86	
Benzo(k)fluoranthene	ug/L	2	1.3	65	63-128	
Chrysene	ug/L	2	1.6	80	69-150	
Dibenz(a,h)anthracene	ug/L	2	0.46	23	10-87	
Fluoranthene	ug/L	2	1.5	73	57-103	
Fluorene	ug/L	2	1.2	59	38-85	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.1	55	40-111	
Naphthalene	ug/L	2	1.1	53	39-82	

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

LABORATORY CONTROL SAMPLE: 1619352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.2	60	46-96	
Pyrene	ug/L	2	1.5	74	57-110	
2-Fluorobiphenyl (S)	%			54	35-84	
Terphenyl-d14 (S)	%			67	10-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619353 1619354

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161286003 Result	Spike Conc.	Spike Conc.	Conc.								
1-Methylnaphthalene	ug/L	<0.0065	2.2	2.1	2.1	1.6	1.4	74	68	27-86	10	29	
2-Methylnaphthalene	ug/L	<0.0054	2.2	2.1	2.1	1.5	1.4	71	64	30-86	10	35	
Acenaphthene	ug/L	<0.0067	2.2	2.1	2.1	1.5	1.3	70	61	28-85	15	29	
Acenaphthylene	ug/L	<0.0055	2.2	2.1	2.1	1.5	1.3	70	61	27-88	16	29	
Anthracene	ug/L	<0.011	2.2	2.1	2.1	1.2	1.8	54	87	38-104	46	35 R1	
Benzo(a)anthracene	ug/L	<0.0083	2.2	2.1	2.1	1.1	1.1	50	50	10-105	2	28	
Benzo(a)pyrene	ug/L	<0.012	2.2	2.1	2.1	1.3	1.4	62	65	10-130	4	26	
Benzo(b)fluoranthene	ug/L	<0.0063	2.2	2.1	2.1	1.1	1.1	49	52	10-115	4	25	
Benzo(g,h,i)perylene	ug/L	<0.0075	2.2	2.1	2.1	0.62	0.62	29	29	10-87	1	42	
Benzo(k)fluoranthene	ug/L	<0.0083	2.2	2.1	2.1	1.4	1.6	64	75	10-133	15	25	
Chrysene	ug/L	<0.014	2.2	2.1	2.1	2.0	2.1	91	97	17-150	5	24	
Dibenz(a,h)anthracene	ug/L	<0.011	2.2	2.1	2.1	0.60	0.62	28	29	10-89	3	49	
Fluoranthene	ug/L	<0.012	2.2	2.1	2.1	1.8	1.9	84	88	41-103	4	32	
Fluorene	ug/L	<0.0088	2.2	2.1	2.1	1.6	1.4	73	64	32-85	15	28	
Indeno(1,2,3-cd)pyrene	ug/L	<0.019	2.2	2.1	2.1	0.99	1.0	46	48	10-111	3	37	
Naphthalene	ug/L	<0.020	2.2	2.1	2.1	1.3	1.3	62	59	23-88	7	28	
Phenanthrene	ug/L	<0.015	2.2	2.1	2.1	1.5	1.5	69	69	33-96	1	25	
Pyrene	ug/L	0.010J	2.2	2.1	2.1	1.8	1.7	82	81	38-110	2	28	
2-Fluorobiphenyl (S)	%							67	60	35-84			
Terphenyl-d14 (S)	%							67	71	10-129			

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161286

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

QC Batch: 277171 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40161286001, 40161286002,

METHOD BLANK: 1629422 Matrix: Water

Associated Lab Samples: 40161286001, 40161286002,

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	12/14/17 17:44	

LABORATORY CONTROL SAMPLE: 1629423

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.0	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629424 1629425

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40161275002	Result	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Sulfate	mg/L	54.2	200	200	265	276	105	111	90-110	4	15	M0	

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

QC Batch:	277302	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	40161286003		

METHOD BLANK: 1630514 Matrix: Water
Associated Lab Samples: 40161286003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	12/19/17 10:18	

LABORATORY CONTROL SAMPLE: 1630515

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: 1630516 1630517

Parameter	Units	1630516		1630517		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161286003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Sulfate	mg/L	<100	2000	2000	2250	2280	112	113	90-110	2	15 M0

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161286

QC Batch: 275800 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 40161286001, 40161286002, 40161286003.

METHOD BLANK: 1622296 Matrix: Water
Associated Lab Samples: 40161286001, 40161286002, 40161286003.

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	12/01/17 09:05	

LABORATORY CONTROL SAMPLE: 1622297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622298 1622299

Parameter	Units	40161286003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.4	2.5	2.4	95	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622300 1622301

Parameter	Units	40161434001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	<0.095	2.5	2.5	2.5	2.5	100	100	90-110	0	20	

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QUALIFIERS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 40161286003

[1] The Sulfate sample for 112017003 was run 1 day past hold due to instrument issue in the lab. Sample was received with sufficient time to analyze.

BATCH QUALIFIERS

Batch: 275348

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

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H1 Analysis conducted outside the recognized method holding time.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

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

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

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161286001	112017001	EPA 3010	276133	EPA 6020	276240
40161286002	112017002	EPA 3010	276133	EPA 6020	276240
40161286003	112017003	EPA 3010	276133	EPA 6020	276240
40161286001	112017001	EPA 7470	276417	EPA 7470	276482
40161286002	112017002	EPA 7470	276417	EPA 7470	276482
40161286003	112017003	EPA 7470	276417	EPA 7470	276482
40161286001	112017001	EPA 3510	275221	EPA 8270 by HVI	275347
40161286002	112017002	EPA 3510	275221	EPA 8270 by HVI	275347
40161286003	112017003	EPA 3510	275221	EPA 8270 by HVI	275347

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
--------	-----------	-----------------	----------	-------------------	------------------

40161286001	112017001	EPA 8260	275199		
40161286002	112017002	EPA 8260	275199		
40161286003	112017003	EPA 8260	275200		

40161286001	112017001	EPA 300.0	277171		
40161286002	112017002	EPA 300.0	277171		
40161286003	112017003	EPA 300.0	277302		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161286001	112017001	EPA 353.2	275800		
40161286002	112017002	EPA 353.2	275800		
40161286003	112017003	EPA 353.2	275800		

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QC: *JM/KR* 11/22/17
Dropped off at Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

40161286
COC#: 1584-117-001

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Natural Resource Technology		Report To: GDSdata@OBG.com		Attention: Accounts Payable	
Address: 234 W. Florida St		Copy To: Brian Hennings		Company Name: WEC Business Services, LLC	
Milwaukee, WI				Address: PO Box 19800, Green Bay, WI 54307	
Email To: GDSdata@OBG.com		Purchase Order No.:		REGULATORY AGENCY	
Phone: 262-719-5286		Project Name: Green Bay Former MGP		<input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Requested Due Date/TAT: standard		Project Number: 1584/22.2		Site Location: WI	

ITEM #	Section D Required Client Information	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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.						
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	N	Z					Z	N	Y	N	N	
					DATE	TIME	DATE	TIME																						
1	112017001	2-100mlag ^A 3-250mlp ^{ACD}	CW	G			11-20-17	1211	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	3-40mL ^B	①	001
2	112017002							1258	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	①	002	
3	112017003	6-100mlag ^A 9-250mlp ^{AAA}						1344	24	X	X	X	X					X	X	X	X	X	X	X	X	X	X	9-40mL ^B	MS/MSD ①	003
4	112017004							1438	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X		①	004
5	112017005							1448	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X		①	005
6	112017006							1522	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X		①	006
7	112017007							1606	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X		①	007
8	112017008							1648	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X		①	008
9	112017009							1710	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X		①	009
10	112117010						11-21-17	0704	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X		①	
11	112117011							0737	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X		①	
12	112117012							0824	24	X	X	X	X					X	X	X	X	X	X	X	X	X	X		①	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2	<i>Melissa Moran</i>	11-22-17	0550	<i>Rachel W. Pace</i>	11/22/17	0650	ROI	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		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Melissa Moran</i>					
SIGNATURE of SAMPLER: <i>Melissa Moran</i>					

40161286

Sampling Parameters

Green Bay MGP Quarterly Groundwater Sampling

BTEX (USEPA 8260)

- Benzene
- Toluene
- Ethylbenzene
- Xylene
- 1,2,4- Trimethylbenzene
- 1,3,5- Trimethylbenzene

PAHs (USEPA 8270 SIM)

- Full List

Metals (USEPA 6020)

- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Mercury
- Selenium
- Silver
- Iron
- Manganese

Other Inorganics

- Sulfate (EPA 300.0)
- Nitrate + Nitrite (EPA 353.2)
- Methane (EPA 8015B) – **SPRING ONLY**

Available Cyanides go to Test America

- Method OIA-1677



Sample Condition Upon Receipt

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

Project #:

WO#: 40161286



Client Name: NRT

Courier: Fed Ex UPS Client Pace Other:

Tracking #:

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 201 /Corr: Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 11-22-17
Initials: KR

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

Comments:

Table with 15 rows of checklist items and checkboxes. Items include Chain of Custody Present, Short Hold Time Analysis, Rush Turn Around Time Requested, etc.

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review:

Date: 11/22/17



Wisconsin Public Service Corporation

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001

www.wisconsinpublicservice.com

January 29, 2018

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

**Subject: Recent Sampling Results
Wisconsin Public Service Corporation – Former Green Bay MGP Site
700 North Adams Street (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 site at 700 North Adams Street is providing results of groundwater samples (MW-401BR, MW-402R) collected in November of 2017, 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) in the well casing. The presence of DNAPL in MW-401AR is not a recent occurrence, nor does it present a direct risk to people using the parking lot. Wisconsin Administrative Code Chapter NR 716.14 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 applicable State groundwater 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 for the site and are also reported to WDNR and USEPA in monthly progress reports.

We appreciate your ongoing cooperation in this matter.

If you need additional information, please contact me at 414-221-2156 or via email at frank.dombrowski@we-energies.com, or Mr. Tauren Beggs, WDNR project manager at 920-662-5178.

Sincerely,

A handwritten signature in black ink, appearing to read 'Frank Dombrowski', is written over a faint, larger version of the same signature.

Frank Dombrowski
Principal Environmental Consultant
WEC Energy Group – Business Services

Mr. Jeffery Weyers
Harbinger Development, LLC
January 29, 2018
Page 2

Environmental Dept.

Encl: Figure 1. Harbinger Development, LLC

Table 1. Groundwater Analytical Results for Harbinger Development, LLC (Nov 2017)

Table 2. Sample Key for Harbinger Development, LLC (Nov 2017)

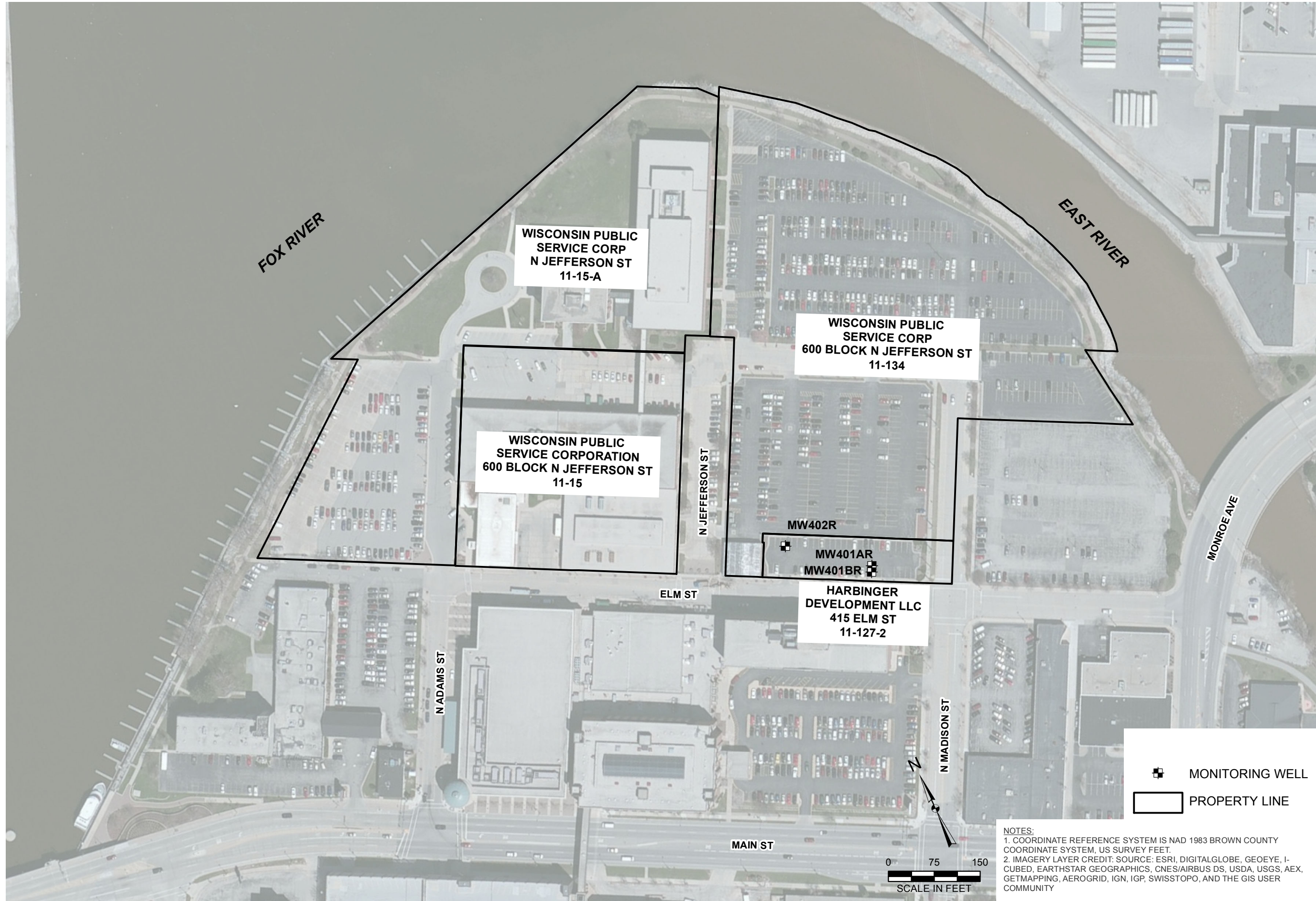
Laboratory Reports - 40161289_frc


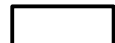
CC: Ms. Margaret Gielniewski, USEPA
Mr. Tauren Beggs, WDNR



Figures

Y:\GIS\Projects\151584\MXD\WEC_Adjacent_Prop_Data_Maps\Figure_1_Harbinger_Development, LLC.mxd_Author: dduda; Date/Time: 4/25/2016, 12:05:11 PM



 MONITORING WELL
 PROPERTY LINE

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, AEROGRIID, 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 Harbinger Development, LLC.

November 2017 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 UPSEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	
			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	µg/L
WI Groundwater PAL:			NS	NS	NS	NS	<u>600</u>	NS	<u>0.02</u>	<u>0.02</u>	NS	NS	<u>0.02</u>	NS	<u>80</u>	<u>80</u>	NS	<u>10</u>	NS	<u>50</u>
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
112117010	MW-402R	11/21/2017	186	26.9	29.4	3.4	1.2 J	<0.79 U	<1.1 U*	<0.60 U*	<0.71 U	<0.79 U	<1.4 U*	<1.1 U	2.0 J	25.1	<1.9 U	588	14.2	2.5 J
112117011	MW-401BR	11/21/2017	<0.0063 U	<0.0053 U	<0.0065 U	<0.0054 U	<0.011 U	<0.0081 U	<0.011 U	0.0071 J	<0.0073 U	<0.0081 U	<0.014 U	<0.011 U	0.016 J	<0.0086 U	<0.019 U	<0.020 U	<0.015 U	0.018 J

Notes:

Underline = concentration that attains or exceeds WDNR PAL

BOLD = concentration that attains or exceeds WDNR ES

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

-- = Analysis not performed

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Dup = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

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

NS = A groundwater quality standard has not been established.

NO2 + NO3 = nitrite plus nitrate

1. Total trimethylbenzenes were calculated by NRT, an OBG Company, as follows:

- a. Where no detections were observed, the sum of the reporting limits is presented.
- b. Where detections were observed, the detected results were added together for the total summation.
- c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.



Table 1. Groundwater Analytical Results for Harbinger Development, LLC.

November 2017 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 UPSEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	BTEX	BTEX	BTEX	BTEX	BTEX	BTEX	VOC	VOC	VOC	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Inorganic	Inorganic	
			Ethylbenzene	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, NO ₂ + NO ₃ , 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	µg/L	
WI Groundwater PAL:			<u>0.5</u>	<u>140</u>	<u>160</u>	NS	NS	<u>400</u>	NS	NS	<u>96</u>	1	<u>400</u>	<u>0.5</u>	<u>10</u>	<u>150</u>	<u>1.5</u>	<u>25</u>	<u>0.2</u>	<u>10</u>	<u>10</u>	<u>2,000</u>	<u>125,000</u>
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
112117010	MW-402R	11/21/2017	<u>1,090</u>	<u>148</u>	64.6	77.7	93.5	171	62.3	<5.0 U	62.3	<u>2.3 J</u>	<u>924</u>	<0.40 U	<5.1 U	<u>5,980</u>	<0.98 U	<u>438</u>	<0.50 U*	<1.6 U	<0.50 U	<95 U	29,100
112117011	MW-401BR	11/21/2017	<0.50 U*	<0.50 U	0.81 J	<0.50 U	<1.0 U	<1.5 U	<0.50 U	<0.50 U	<1.00 U	<1.4 U*	25.3	<0.40 U	<5.1 U	<553 U*	<0.98 U	<13.5 U	<0.13 U	<1.6 U	<0.50 U	180 J	<u>1,380,000</u>

[O:ECK C:ECK 1/24/18 C: TWL 1/25/18][U:ECK 1/26/17]

Notes:

Underline = concentration that attains or exceeds WDNR PAL

BOLD = concentration that attains or exceeds WDNR ES

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

-- = Analysis not performed

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Dup = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

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

NS = A groundwater quality standard has not been established.

NO₂ + NO₃ = nitrite plus nitrate

1. Total trimethylbenzenes were calculated by NRT, an OBG Company, as follows:

- a. Where no detections were observed, the sum of the reporting limits is presented.
- b. Where detections were observed, the detected results were added together for the total summation.
- c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.



Table 2. Sample Key for Harbinger Development, LLC.

November 2017 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 UPSEPA#: WIN000509948

PACE Lab Report	9-digit code	Location ID Name	Matrix	Date
40161289	112117010	MW-402R	Groundwater	11/21/2017
40161289	112117011	MW-401BR	Groundwater	11/21/2017

[O:ECK C:ECK 1/24/18 C: TWL 1/25/18]

Notes:

Sorted by: Matrix, Lab Report #, 9-digit code, Location Name, and Date





Laboratory Data Reports

December 15, 2017

Eric Hritsuk
Natural Resource Technologies

RE: Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161289

Dear Eric Hritsuk:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: Phil Brochocki, Natural Resources Technologies
NRT Data, Natural Resource Technologies
Brian Hennings, NATURAL RESOURCE TECHNOLOGY
Robert Paulson, We Energies
Steve Wiskes, Natural Resources Technologies



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40161289001	112117010	Water	11/21/17 07:04	11/22/17 08:50
40161289002	112117011	Water	11/21/17 07:37	11/22/17 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40161289001	112117010	EPA 6020	SDW	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
40161289002	112117011	EPA 6020	SDW	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

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161289

Method: EPA 6020
Description: 6020 MET ICPMS, Dissolved
Client: Natural Resource Technology Integrys WI
Date: December 15, 2017

General Information:

2 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: 275901

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

- 112117010 (Lab ID: 40161289001)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved
- 112117011 (Lab ID: 40161289002)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 6020

Description: 6020 MET ICPMS, Dissolved

Client: Natural Resource Technology Integrys WI

Date: December 15, 2017

Analyte Comments:

QC Batch: 275901

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

- 112117011 (Lab ID: 40161289002)
 - Chromium, Dissolved
 - Iron, Dissolved
 - Manganese, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 7470

Description: 7470 Mercury, Dissolved

Client: Natural Resource Technology Integrys WI

Date: December 15, 2017

General Information:

2 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:

Analyte Comments:

QC Batch: 276418

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

- 112117010 (Lab ID: 40161289001)
 - Mercury, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161289

Method: EPA 8270 by HVI
Description: 8270 MSSV PAH by HVI
Client: Natural Resource Technology Integrys WI
Date: December 15, 2017

General Information:

2 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 8260

Description: 8260 MSV UST

Client: Natural Resource Technology Integrys WI

Date: December 15, 2017

General Information:

2 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Natural Resource Technology Integrys WI

Date: December 15, 2017

General Information:

2 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: 276066

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40161289001,40161339001

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

- MS (Lab ID: 1623957)
 - Sulfate
- MSD (Lab ID: 1623958)
 - Sulfate

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 353.2

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

Client: Natural Resource Technology Integrys WI

Date: December 15, 2017

General Information:

2 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Sample: 112117010 **Lab ID: 40161289001** Collected: 11/21/17 07:04 Received: 11/22/17 08:50 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	2.3J	ug/L	5.0	1.4	5	12/05/17 06:50	12/14/17 05:17	7440-38-2	D3
Barium, Dissolved	924	ug/L	5.7	1.7	5	12/05/17 06:50	12/14/17 05:17	7440-39-3	
Cadmium, Dissolved	<0.40	ug/L	5.0	0.40	5	12/05/17 06:50	12/14/17 05:17	7440-43-9	D3
Chromium, Dissolved	<5.1	ug/L	17.0	5.1	5	12/05/17 06:50	12/14/17 05:17	7440-47-3	D3
Iron, Dissolved	5980	ug/L	1840	553	5	12/05/17 06:50	12/14/17 05:17	7439-89-6	
Lead, Dissolved	<0.98	ug/L	5.0	0.98	5	12/05/17 06:50	12/14/17 05:17	7439-92-1	D3
Manganese, Dissolved	438	ug/L	45.0	13.5	5	12/05/17 06:50	12/14/17 05:17	7439-96-5	
Selenium, Dissolved	<1.6	ug/L	5.3	1.6	5	12/05/17 06:50	12/14/17 05:17	7782-49-2	D3
Silver, Dissolved	<0.50	ug/L	2.5	0.50	5	12/05/17 06:50	12/14/17 05:17	7440-22-4	D3
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.50	ug/L	1.7	0.50	1	12/07/17 08:55	12/08/17 10:52	7439-97-6	D3
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	29.4	ug/L	3.2	0.64	100	11/28/17 10:53	11/29/17 18:51	83-32-9	
Acenaphthylene	3.4	ug/L	2.6	0.52	100	11/28/17 10:53	11/29/17 18:51	208-96-8	
Anthracene	1.2J	ug/L	5.5	1.1	100	11/28/17 10:53	11/29/17 18:51	120-12-7	
Benzo(a)anthracene	<0.79	ug/L	4.0	0.79	100	11/28/17 10:53	11/29/17 18:51	56-55-3	
Benzo(a)pyrene	<1.1	ug/L	5.5	1.1	100	11/28/17 10:53	11/29/17 18:51	50-32-8	
Benzo(b)fluoranthene	<0.60	ug/L	3.0	0.60	100	11/28/17 10:53	11/29/17 18:51	205-99-2	
Benzo(g,h,i)perylene	<0.71	ug/L	3.6	0.71	100	11/28/17 10:53	11/29/17 18:51	191-24-2	
Benzo(k)fluoranthene	<0.79	ug/L	4.0	0.79	100	11/28/17 10:53	11/29/17 18:51	207-08-9	
Chrysene	<1.4	ug/L	6.9	1.4	100	11/28/17 10:53	11/29/17 18:51	218-01-9	
Dibenz(a,h)anthracene	<1.1	ug/L	5.3	1.1	100	11/28/17 10:53	11/29/17 18:51	53-70-3	
Fluoranthene	2.0J	ug/L	5.6	1.1	100	11/28/17 10:53	11/29/17 18:51	206-44-0	
Fluorene	25.1	ug/L	4.2	0.84	100	11/28/17 10:53	11/29/17 18:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.9	ug/L	9.3	1.9	100	11/28/17 10:53	11/29/17 18:51	193-39-5	
1-Methylnaphthalene	186	ug/L	3.1	0.62	100	11/28/17 10:53	11/29/17 18:51	90-12-0	
2-Methylnaphthalene	26.9	ug/L	2.6	0.52	100	11/28/17 10:53	11/29/17 18:51	91-57-6	
Naphthalene	588	ug/L	9.6	1.9	100	11/28/17 10:53	11/29/17 18:51	91-20-3	
Phenanthrene	14.2	ug/L	7.3	1.5	100	11/28/17 10:53	11/29/17 18:51	85-01-8	
Pyrene	2.5J	ug/L	4.0	0.81	100	11/28/17 10:53	11/29/17 18:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	37	%	35-84		100	11/28/17 10:53	11/29/17 18:51	321-60-8	
Terphenyl-d14 (S)	38	%	10-129		100	11/28/17 10:53	11/29/17 18:51	1718-51-0	
8260 MSV UST									
Analytical Method: EPA 8260									
Benzene	1090	ug/L	10.0	5.0	10		11/28/17 16:36	71-43-2	
Ethylbenzene	148	ug/L	10.0	5.0	10		11/28/17 16:36	100-41-4	
Toluene	64.6	ug/L	10.0	5.0	10		11/28/17 16:36	108-88-3	
1,2,4-Trimethylbenzene	62.3	ug/L	10.0	5.0	10		11/28/17 16:36	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		11/28/17 16:36	108-67-8	
Xylene (Total)	171	ug/L	30.0	15.0	10		11/28/17 16:36	1330-20-7	
m&p-Xylene	93.5	ug/L	20.0	10.0	10		11/28/17 16:36	179601-23-1	
o-Xylene	77.7	ug/L	10.0	5.0	10		11/28/17 16:36	95-47-6	

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Sample Project No.: 40161289

Sample: 112117010 **Lab ID: 40161289001** Collected: 11/21/17 07:04 Received: 11/22/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	113	%	67-130		10		11/28/17 16:36	1868-53-7	
Toluene-d8 (S)	94	%	70-130		10		11/28/17 16:36	2037-26-5	
4-Bromofluorobenzene (S)	96	%	61-130		10		11/28/17 16:36	460-00-4	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	29.1	mg/L	15.0	5.0	5		12/07/17 20:57	14808-79-8	M0
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	<0.095	mg/L	0.25	0.095	1		11/30/17 12:45		

Sample: 112117011 **Lab ID: 40161289002** Collected: 11/21/17 07:37 Received: 11/22/17 08:50 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	<1.4	ug/L	5.0	1.4	5	12/05/17 06:50	12/14/17 05:24	7440-38-2	D3
Barium, Dissolved	25.3	ug/L	5.7	1.7	5	12/05/17 06:50	12/14/17 05:24	7440-39-3	
Cadmium, Dissolved	<0.40	ug/L	5.0	0.40	5	12/05/17 06:50	12/14/17 05:24	7440-43-9	D3
Chromium, Dissolved	<5.1	ug/L	17.0	5.1	5	12/05/17 06:50	12/14/17 05:24	7440-47-3	D3
Iron, Dissolved	<553	ug/L	1840	553	5	12/05/17 06:50	12/14/17 05:24	7439-89-6	D3
Lead, Dissolved	<0.98	ug/L	5.0	0.98	5	12/05/17 06:50	12/14/17 05:24	7439-92-1	D3
Manganese, Dissolved	<13.5	ug/L	45.0	13.5	5	12/05/17 06:50	12/14/17 05:24	7439-96-5	D3
Selenium, Dissolved	<1.6	ug/L	5.3	1.6	5	12/05/17 06:50	12/14/17 05:24	7782-49-2	D3
Silver, Dissolved	<0.50	ug/L	2.5	0.50	5	12/05/17 06:50	12/14/17 05:24	7440-22-4	D3
7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury, Dissolved	<0.13	ug/L	0.42	0.13	1	12/07/17 08:55	12/08/17 10:54	7439-97-6	
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0065	ug/L	0.033	0.0065	1	11/28/17 10:53	11/30/17 18:13	83-32-9	
Acenaphthylene	<0.0054	ug/L	0.027	0.0054	1	11/28/17 10:53	11/30/17 18:13	208-96-8	
Anthracene	<0.011	ug/L	0.056	0.011	1	11/28/17 10:53	11/30/17 18:13	120-12-7	
Benzo(a)anthracene	<0.0081	ug/L	0.041	0.0081	1	11/28/17 10:53	11/30/17 18:13	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.057	0.011	1	11/28/17 10:53	11/30/17 18:13	50-32-8	
Benzo(b)fluoranthene	0.0071J	ug/L	0.031	0.0062	1	11/28/17 10:53	11/30/17 18:13	205-99-2	
Benzo(g,h,i)perylene	<0.0073	ug/L	0.036	0.0073	1	11/28/17 10:53	11/30/17 18:13	191-24-2	
Benzo(k)fluoranthene	<0.0081	ug/L	0.041	0.0081	1	11/28/17 10:53	11/30/17 18:13	207-08-9	
Chrysene	<0.014	ug/L	0.070	0.014	1	11/28/17 10:53	11/30/17 18:13	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.054	0.011	1	11/28/17 10:53	11/30/17 18:13	53-70-3	
Fluoranthene	0.016J	ug/L	0.057	0.011	1	11/28/17 10:53	11/30/17 18:13	206-44-0	
Fluorene	<0.0086	ug/L	0.043	0.0086	1	11/28/17 10:53	11/30/17 18:13	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.019	ug/L	0.095	0.019	1	11/28/17 10:53	11/30/17 18:13	193-39-5	
1-Methylnaphthalene	<0.0063	ug/L	0.032	0.0063	1	11/28/17 10:53	11/30/17 18:13	90-12-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Sample: 112117011 **Lab ID: 40161289002** Collected: 11/21/17 07:37 Received: 11/22/17 08:50 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	<0.0053	ug/L	0.026	0.0053	1	11/28/17 10:53	11/30/17 18:13	91-57-6	
Naphthalene	<0.020	ug/L	0.099	0.020	1	11/28/17 10:53	11/30/17 18:13	91-20-3	
Phenanthrene	<0.015	ug/L	0.074	0.015	1	11/28/17 10:53	11/30/17 18:13	85-01-8	
Pyrene	0.018J	ug/L	0.041	0.0082	1	11/28/17 10:53	11/30/17 18:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	35-84		1	11/28/17 10:53	11/30/17 18:13	321-60-8	
Terphenyl-d14 (S)	71	%	10-129		1	11/28/17 10:53	11/30/17 18:13	1718-51-0	
8260 MSV UST		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		11/28/17 16:14	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		11/28/17 16:14	100-41-4	
Toluene	0.81J	ug/L	1.0	0.50	1		11/28/17 16:14	108-88-3	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/28/17 16:14	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		11/28/17 16:14	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/28/17 16:14	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		11/28/17 16:14	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		11/28/17 16:14	95-47-6	
Surrogates									
Dibromofluoromethane (S)	110	%	67-130		1		11/28/17 16:14	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		11/28/17 16:14	2037-26-5	
4-Bromofluorobenzene (S)	87	%	61-130		1		11/28/17 16:14	460-00-4	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Sulfate	1380	mg/L	300	100	100		12/12/17 18:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.18J	mg/L	0.25	0.095	1		11/30/17 12:46		

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

QC Batch: 276418

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury Dissolved

Associated Lab Samples: 40161289001, 40161289002

METHOD BLANK: 1625781

Matrix: Water

Associated Lab Samples: 40161289001, 40161289002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.13	0.42	12/08/17 10:27	

LABORATORY CONTROL SAMPLE: 1625782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1625783 1625784

Parameter	Units	1625783		1625784		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161287001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury, Dissolved	ug/L	<0.50	20	20	19.4	19.2	97	96	85-115	1	20

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161289

QC Batch: 275901 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 40161289001, 40161289002

METHOD BLANK: 1622806 Matrix: Water
Associated Lab Samples: 40161289001, 40161289002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	12/14/17 02:02	
Barium, Dissolved	ug/L	<0.34	1.1	12/14/17 02:02	
Cadmium, Dissolved	ug/L	<0.081	1.0	12/14/17 02:02	
Chromium, Dissolved	ug/L	<1.0	3.4	12/14/17 02:02	
Iron, Dissolved	ug/L	<111	368	12/14/17 02:02	
Lead, Dissolved	ug/L	<0.20	1.0	12/14/17 02:02	
Manganese, Dissolved	ug/L	<2.7	9.0	12/14/17 02:02	
Selenium, Dissolved	ug/L	<0.32	1.1	12/14/17 02:02	
Silver, Dissolved	ug/L	<0.10	0.50	12/14/17 02:02	

LABORATORY CONTROL SAMPLE: 1622807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	491	98	80-120	
Barium, Dissolved	ug/L	500	486	97	80-120	
Cadmium, Dissolved	ug/L	500	493	99	80-120	
Chromium, Dissolved	ug/L	500	481	96	80-120	
Iron, Dissolved	ug/L	5000	4860	97	80-120	
Lead, Dissolved	ug/L	500	479	96	80-120	
Manganese, Dissolved	ug/L	500	492	98	80-120	
Selenium, Dissolved	ug/L	500	516	103	80-120	
Silver, Dissolved	ug/L	250	249	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622808 1622809

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40161271001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic, Dissolved	ug/L	3.1	500	500	506	504	101	100	75-125	0	20	
Barium, Dissolved	ug/L	59.7	500	500	545	540	97	96	75-125	1	20	
Cadmium, Dissolved	ug/L	0.18J	500	500	491	490	98	98	75-125	0	20	
Chromium, Dissolved	ug/L	<1.0	500	500	476	477	95	95	75-125	0	20	
Iron, Dissolved	ug/L	182J	5000	5000	4880	4880	94	94	75-125	0	20	
Lead, Dissolved	ug/L	2.1	500	500	491	493	98	98	75-125	0	20	
Manganese, Dissolved	ug/L	101	500	500	575	577	95	95	75-125	0	20	
Selenium, Dissolved	ug/L	0.55J	500	500	526	523	105	104	75-125	1	20	
Silver, Dissolved	ug/L	<0.10	250	250	238	235	95	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622823		1622824		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40161287001 Result	MS Spike Conc.	MSD Spike Conc.									
Arsenic, Dissolved	ug/L	<2.8	500	500	517	510	103	102	75-125	1	20		
Barium, Dissolved	ug/L	272	500	500	760	769	98	99	75-125	1	20		
Cadmium, Dissolved	ug/L	<0.81	500	500	512	514	102	103	75-125	0	20		
Chromium, Dissolved	ug/L	<10.2	500	500	491	498	98	100	75-125	2	20		
Iron, Dissolved	ug/L	<1110	5000	5000	4910	4980	98	99	75-125	1	20		
Lead, Dissolved	ug/L	<2.0	500	500	490	496	98	99	75-125	1	20		
Manganese, Dissolved	ug/L	627	500	500	1120	1150	98	104	75-125	3	20		
Selenium, Dissolved	ug/L	<3.2	500	500	531	539	106	108	75-125	1	20		
Silver, Dissolved	ug/L	<1.0	250	250	250	251	100	101	75-125	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161289

QC Batch: 275200 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40161289001, 40161289002

METHOD BLANK: 1619284 Matrix: Water
Associated Lab Samples: 40161289001, 40161289002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	11/28/17 07:13	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	11/28/17 07:13	
Benzene	ug/L	<0.50	1.0	11/28/17 07:13	
Ethylbenzene	ug/L	<0.50	1.0	11/28/17 07:13	
m&p-Xylene	ug/L	<1.0	2.0	11/28/17 07:13	
o-Xylene	ug/L	<0.50	1.0	11/28/17 07:13	
Toluene	ug/L	<0.50	1.0	11/28/17 07:13	
Xylene (Total)	ug/L	<1.5	3.0	11/28/17 07:13	
4-Bromofluorobenzene (S)	%	88	61-130	11/28/17 07:13	
Dibromofluoromethane (S)	%	113	67-130	11/28/17 07:13	
Toluene-d8 (S)	%	95	70-130	11/28/17 07:13	

LABORATORY CONTROL SAMPLE: 1619285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	44.6	89	73-145	
Ethylbenzene	ug/L	50	51.3	103	87-129	
m&p-Xylene	ug/L	100	106	106	70-130	
o-Xylene	ug/L	50	50.3	101	70-130	
Toluene	ug/L	50	51.1	102	82-130	
Xylene (Total)	ug/L	150	156	104	70-130	
4-Bromofluorobenzene (S)	%			106	61-130	
Dibromofluoromethane (S)	%			104	67-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619286 1619287

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40161286003 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<0.50	50	50	43.9	44.4	88	89	73-145	1	20
Ethylbenzene	ug/L	<0.50	50	50	51.2	51.7	102	103	87-129	1	20
m&p-Xylene	ug/L	<1.0	100	100	105	105	105	105	70-130	0	20
o-Xylene	ug/L	<0.50	50	50	50.1	51.0	100	102	70-130	2	20
Toluene	ug/L	<0.50	50	50	50.8	51.3	101	102	82-131	1	20
Xylene (Total)	ug/L	<1.5	150	150	155	156	103	104	70-130	1	20
4-Bromofluorobenzene (S)	%						104	104	61-130		
Dibromofluoromethane (S)	%						104	104	67-130		
Toluene-d8 (S)	%						97	97	70-130		

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161289

QC Batch: 275368 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40161289001, 40161289002

METHOD BLANK: 1619786 Matrix: Water
Associated Lab Samples: 40161289001, 40161289002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	11/29/17 10:35	
2-Methylnaphthalene	ug/L	<0.0049	0.024	11/29/17 10:35	
Acenaphthene	ug/L	<0.0061	0.030	11/29/17 10:35	
Acenaphthylene	ug/L	<0.0050	0.025	11/29/17 10:35	
Anthracene	ug/L	<0.010	0.052	11/29/17 10:35	
Benzo(a)anthracene	ug/L	<0.0076	0.038	11/29/17 10:35	
Benzo(a)pyrene	ug/L	<0.011	0.053	11/29/17 10:35	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	11/29/17 10:35	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	11/29/17 10:35	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	11/29/17 10:35	
Chrysene	ug/L	<0.013	0.065	11/29/17 10:35	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	11/29/17 10:35	
Fluoranthene	ug/L	<0.011	0.053	11/29/17 10:35	
Fluorene	ug/L	<0.0080	0.040	11/29/17 10:35	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	11/29/17 10:35	
Naphthalene	ug/L	<0.018	0.092	11/29/17 10:35	
Phenanthrene	ug/L	<0.014	0.069	11/29/17 10:35	
Pyrene	ug/L	<0.0076	0.038	11/29/17 10:35	
2-Fluorobiphenyl (S)	%	42	35-84	11/29/17 10:35	
Terphenyl-d14 (S)	%	65	10-129	11/29/17 10:35	

LABORATORY CONTROL SAMPLE: 1619787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	68	39-83	
2-Methylnaphthalene	ug/L	2	1.3	67	38-86	
Acenaphthene	ug/L	2	1.3	64	35-85	
Acenaphthylene	ug/L	2	1.3	66	31-88	
Anthracene	ug/L	2	1.6	79	47-104	
Benzo(a)anthracene	ug/L	2	1.4	70	36-105	
Benzo(a)pyrene	ug/L	2	1.5	77	69-117	
Benzo(b)fluoranthene	ug/L	2	1.4	68	54-107	
Benzo(g,h,i)perylene	ug/L	2	0.77	38	13-86	
Benzo(k)fluoranthene	ug/L	2	1.5	77	63-128	
Chrysene	ug/L	2	1.8	90	69-150	
Dibenz(a,h)anthracene	ug/L	2	0.68	34	10-87	
Fluoranthene	ug/L	2	1.7	84	57-103	
Fluorene	ug/L	2	1.4	70	38-85	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	71	40-111	
Naphthalene	ug/L	2	1.2	59	39-82	

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

LABORATORY CONTROL SAMPLE: 1619787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.4	72	46-96	
Pyrene	ug/L	2	1.6	82	57-110	
2-Fluorobiphenyl (S)	%			61	35-84	
Terphenyl-d14 (S)	%			76	10-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619788 1619789

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40161287001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
1-Methylnaphthalene	ug/L	<0.0062	2.1	2	1.3	1.3	62	66	27-86	5	29		
2-Methylnaphthalene	ug/L	<0.0052	2.1	2	1.2	1.3	58	63	30-86	7	35		
Acenaphthene	ug/L	<0.0064	2.1	2	1.2	1.2	56	60	28-85	4	29		
Acenaphthylene	ug/L	<0.0052	2.1	2	1.2	1.2	56	60	27-88	4	29		
Anthracene	ug/L	<0.011	2.1	2	1.9	1.9	93	95	38-104	1	35		
Benzo(a)anthracene	ug/L	<0.0079	2.1	2	0.61	0.68	29	34	10-105	11	28		
Benzo(a)pyrene	ug/L	<0.011	2.1	2	1.1	1.1	55	56	10-130	0	26		
Benzo(b)fluoranthene	ug/L	<0.0060	2.1	2	0.84	0.90	41	44	10-115	6	25		
Benzo(g,h,i)perylene	ug/L	<0.0071	2.1	2	0.49	0.55	23	27	10-87	12	42		
Benzo(k)fluoranthene	ug/L	<0.0079	2.1	2	1.5	1.3	73	65	10-133	13	25		
Chrysene	ug/L	<0.014	2.1	2	2.0	2.0	98	97	17-150	3	24		
Dibenz(a,h)anthracene	ug/L	<0.011	2.1	2	0.41	0.46	20	22	10-89	10	49		
Fluoranthene	ug/L	<0.011	2.1	2	1.8	1.9	84	93	41-103	8	32		
Fluorene	ug/L	<0.0084	2.1	2	1.2	1.3	57	61	32-85	5	28		
Indeno(1,2,3-cd)pyrene	ug/L	<0.019	2.1	2	0.89	0.97	43	48	10-111	9	37		
Naphthalene	ug/L	<0.019	2.1	2	1.1	1.2	54	59	23-88	6	28		
Phenanthrene	ug/L	<0.015	2.1	2	1.1	1.3	54	62	33-96	12	25		
Pyrene	ug/L	<0.0081	2.1	2	1.6	1.7	77	81	38-110	2	28		
2-Fluorobiphenyl (S)	%						55	58	35-84				
Terphenyl-d14 (S)	%						63	66	10-129				

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP
Pace Project No.: 40161289

QC Batch: 276066 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40161289001, 40161289002

METHOD BLANK: 1623955 Matrix: Water
Associated Lab Samples: 40161289001, 40161289002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	12/07/17 20:32	

LABORATORY CONTROL SAMPLE: 1623956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.9	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623957 1623958

Parameter	Units	40161289001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Sulfate	mg/L	29.1	100	100	140	141	111	112	90-110	0	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623959 1623960

Parameter	Units	40161339001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Sulfate	mg/L	36.1	100	100	141	140	105	103	90-110	1	15	

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

QC Batch: 275722

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Associated Lab Samples: 40161289001, 40161289002

METHOD BLANK: 1621596

Matrix: Water

Associated Lab Samples: 40161289001, 40161289002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.095	0.25	11/30/17 12:31	

LABORATORY CONTROL SAMPLE: 1621597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1621598 1621599

Parameter	Units	1621598		1621599		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40161287001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	0.50	2.5	2.5	3.0	3.0	99	99	90-110	0	20	

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QUALIFIERS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161289001	112117010	EPA 3010	275901	EPA 6020	276201
40161289002	112117011	EPA 3010	275901	EPA 6020	276201
40161289001	112117010	EPA 7470	276418	EPA 7470	276483
40161289002	112117011	EPA 7470	276418	EPA 7470	276483
40161289001	112117010	EPA 3510	275368	EPA 8270 by HVI	275504
40161289002	112117011	EPA 3510	275368	EPA 8270 by HVI	275504
40161289001	112117010	EPA 8260	275200		
40161289002	112117011	EPA 8260	275200		
40161289001	112117010	EPA 300.0	276066		
40161289002	112117011	EPA 300.0	276066		
40161289001	112117010	EPA 353.2	275722		
40161289002	112117011	EPA 353.2	275722		

REPORT OF LABORATORY ANALYSIS

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QC *[Signature]* 11/22/17
Dropped def at Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

40161289

CO# 1584-1117-001

RMV

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Natural Resource Technology		Report To: GDSdata@OBG.com		Attention: Accounts Payable	
Address: 234 W. Florida St Milwaukee, WI		Copy To: Brian Hennings		Company Name: WEC Business Services, LLC	
Email To: GDSdata@OBG.com		Purchase Order No.:		Address: PO Box 19800, Green Bay, WI 54307	
Phone: 262-719-5286 Fax:		Project Name: Green Bay Former MGP		Pace Quote Reference	
Requested Due Date/TAT: standard		Project Number: 1584/22.2		Pace Project Manager	
				Pace Profile #:	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
				Site Location	
				STATE: WI	

Page: 1 of 3

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.						
						UNPRESERVED	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	BTEX (8260)	1,2,4-Trimethylbenzene**	1,3,5-Trimethylbenzene**			PAHs (8270) SIM	Metals (6020)*	NO ₂ +NO ₃ (353.2)	Sulfate (300.0)	PVOCs (8260)	
1	112017001	GW	11-20-17 12:11	8	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
2	112017002		1258	8	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
3	112017003		1344	24	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
4	112017004		1438	8	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
5	112017005		1448	8	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
6	112017006		1522	8	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
7	112017007		1606	8	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
8	112017008		1648	8	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
9	112017009		1710	8	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
10	112117010 2-100ml log ^A 3-40ml v ^B 3-250ml p ^C	GW	11-21-17 0704	8	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
11	112117011		0737	8	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	
12	112117012		0824	24	8	X	X	X	X					X	X	X	X	X	X	X	X	X	X	

ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2				<i>Melissa Marron</i>		11-22-17	0850	<i>26 (H) LW) Pace</i>		11/22/17	0850	ROI	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		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Melissa Marron</i>					
SIGNATURE of SAMPLER: <i>Melissa Marron</i>					
DATE Signed (MM/DD/YY): 11-22-17					

40161289

Sampling Parameters
Green Bay MGP Quarterly Groundwater Sampling

BTEX (USEPA 8260)

- Benzene
- Toluene
- Ethylbenzene
- Xylene
- 1,2,4- Trimethylbenzene
- 1,3,5- Trimethylbenzene

PAHs (USEPA 8270 SIM)

- Full List

Metals (USEPA 6020)

- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Mercury
- Selenium
- Silver
- Iron
- Manganese

Other Inorganics

- Sulfate (EPA 300.0)
- Nitrate + Nitrite (EPA 353.2)
- Methane (EPA 8015B) – **SPRING ONLY**

Available Cyanides go to Test America

- Method OIA-1677

Sample Condition Upon Receipt

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



Project #: **WO#: 40161289**

Client Name: NRT



Courier: Fed Ex UPS Client Pace Other: _____

Tracking #: _____

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

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

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 201 / Corr: _____ Biological Tissue is Frozen: yes

Temp Blank Present: yes no no

Person examining contents:
Date: 11-22-17
Initials: KR

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

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<u>11-22-17 KR</u> <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>No MS/MSD vol.</u> <u>11-22-17 KR</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>KR</u> Lab Std #/ID of preservative: _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 11/22/17