



Wisconsin Public Service Corporation

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

[www.wisconsinpublicservice.com](http://www.wisconsinpublicservice.com)

July 27, 2021

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

**RE: Recent Sampling Results**

Wisconsin Public Service Corporation – Former Green Bay Manufactured Gas Plant (MGP)  
700 North Adams Street, BRRTS# 0205000254

Dear Mr. Weyers,

WEC Business Services (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 700 North Adams Street is providing results of groundwater samples collected as part of routine monitoring (MW-401BR and MW-402R) collected in May of 2021, as part routine monitoring. Similar to other recent sampling events, no samples were collected from MW-401AR due to the presence of dense non-aqueous phase liquid (DNAPL). The presence of DNAPL in MW-401AR is not a recent occurrence, nor does it present a risk to people using the parking lot. Wisconsin Administrative Code Chapter NR716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

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

We appreciate your cooperation with routine groundwater sampling activities on your property. If you need additional information, please contact Sarah Krueger from the WDNR at 920-662-5443 or myself at 414-221-2156.

Sincerely,

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

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

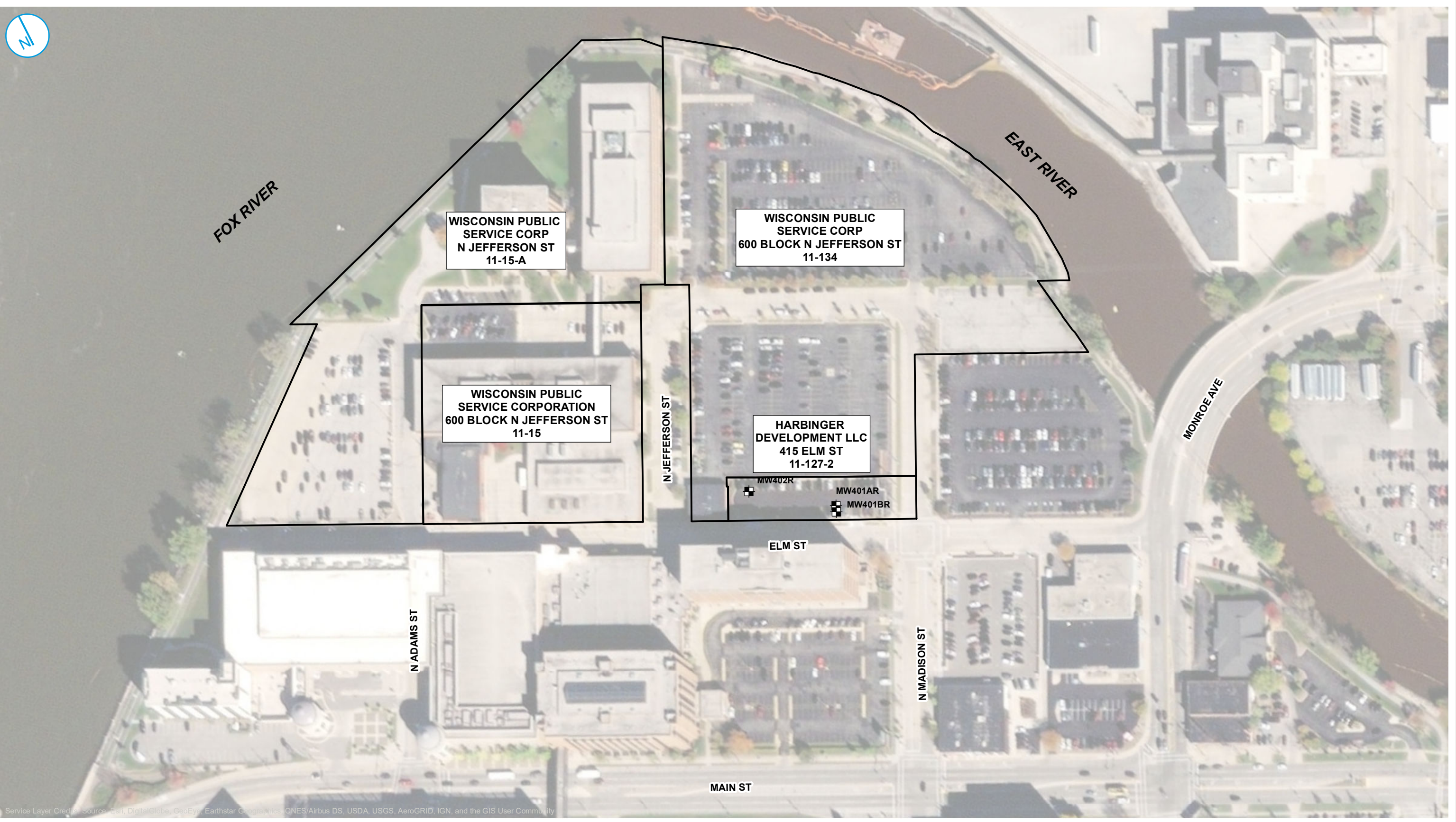
Enc: Figure 1. Harbinger Development, LLC

Mr. Jeffery Weyers  
Harbinger Development,  
LLC July 27, 2021  
Page 2



Table 1. May 2021 Groundwater Analytical Results for Harbinger Development, LLC.  
Laboratory Data Report – 40227545\_frc

cc: USEPA RPM – Sarah Rolfes (via email)  
WDNR PM – Sarah Krueger (via US Mail and email)  
WDNR Northeast Region (via email to DNRRRNER@wisconsin.gov)  
Ms. Staci Goetz, Ramboll (via email)

## FIGURES



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  MONITORING WELL LOCATION
-  PROPERTY LINE



**HARBINGER DEVELOPMENT, LLC**  
 BRRTS# 02-05-000254

**FORMER GREEN BAY MANUFACTURED GAS PLANT**  
**WISCONSIN PUBLIC SERVICE CORPORATION**  
 GREEN BAY, WISCONSIN

**FIGURE 01**



## TABLES





**Table 1. May 2021 Groundwater Analytical Results for the Harbinger Development, LLC.**

June 2021 Third Party Notification  
 Wisconsin Public Service Corporation  
 Green Bay Former Manufactured Gas Plant Site  
 700 N Adams St, Green Bay, Wisconsin  
 BRRTS#: 02-05-000254 USEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	Metal		Metal		Metal		Metal		Metal		Metal		Metal		Inorganic		Inorganic		Organic		Field		Field		Field		Field		Field										
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag									
Reporting Units:			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		mg/L		feet		millivolts		s.u.		µS/cm		Deg C		NTUs						
<b>WI Groundwater ES:</b>			<b>10</b>		<b>2,000</b>		<b>5</b>		<b>100</b>		<b>300</b>		<b>15</b>		<b>300</b>		<b>2</b>		<b>50</b>		<b>50</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>						
<b>WI Groundwater PAL:</b>			<b>1</b>		<b>400</b>		<b>0.5</b>		<b>10</b>		<b>150</b>		<b>1.5</b>		<b>60</b>		<b>0.2</b>		<b>10</b>		<b>10</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>						
052521020	MW-402R	05/25/2021	<u>1.7</u>	J	<u>762</u>		0.30	U	2.0	U	<b>4,320</b>		0.47	U	<b>325</b>		0.066	U	1.2	J	0.25	U	160	J	<u>152,000</u>		208		0.24		4.11		-47.5		7.03		9063.4		17.38		0.00
052521021	MW-401BR	05/25/2021	0.77	J	66.7		0.30	U	2.0	U	116	U	0.47	U	<b>326</b>		0.066	U	0.63	U	0.25	U	370		<b>1,030,000</b>		5.5		0.36		8.72		61.8		7.12		3757.5		18.46		0.00

[O:CMD 7/13/21, C:LDH 7/13/2021, C:SIM 7/14/21]

Sorted by 9-digit Code

<b>Bold</b>	attains or exceeds the WI Groundwater ES
<u>Underline</u>	attains or exceeds the WI Groundwater PAL

**Results & Flags:**

\* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria  
 J = Estimated Concentration  
 U = Concentration was not detected above the reported limit

**Acronyms:**

µg/L = micrograms per liter  
 BRRTS = Bureau for Remediation and Redevelopment Tracking System (Wisconsin Department of Natural Resources (WDNR))  
 ES = Enforcement Standard  
 NO2 + NO3 = nitrite plus nitrate  
 NS = No Standard  
 PAH = Polycyclic Aromatic Hydrocarbon  
 PAL = Preventive Action Limit  
 PVOC = Petroleum Volatile Organic Compound  
 USEPA = United States Environmental Protection Agency  
 VOC = Volatile Organic Compound  
 WI = Wisconsin

**Superscripts:**

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

**Screening Levels:**

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020.

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

## **LABORATORY REPORTS**



June 10, 2021

Staci Goetz  
Ramboll US Consulting, Inc.  
234 W. Florida Street  
Fifth Floor  
Milwaukee, WI 53204

RE: Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

Dear Staci Goetz:

Enclosed are the analytical results for sample(s) received by the laboratory on May 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



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

Enclosures

cc: Phil Brochocki, Ramboll  
NRT Data, Ramboll  
Eric Hritsuk, OBG  
Robert Paulson, We Energies  
Kyle Schaefer, Ramboll Americas  
Dan Vachon, O'Brien & Gere Engineers, Inc Integrys WI  
Steve Wiskes, Ramboll



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
40227545001	052521020	Water	05/25/21 15:51	05/26/21 10:42
40227545002	052521021	Water	05/25/21 16:25	05/26/21 10:42

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40227545001	052521020	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	9
		EPA 7470	AJT	1
		EPA 8270E by SIM	JJB	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40227545002	052521021	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	9
		EPA 7470	AJT	1
		EPA 8270E by SIM	JJB	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

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**Method:** EPA 8015B Modified

**Description:** Methane, Ethane, Ethene GCV

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

2 samples were analyzed for EPA 8015B Modified by Pace Analytical Services Green Bay. 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.

**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: 70712 GREEN BAY MGP

Pace Project No.: 40227545

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

2 samples were analyzed for EPA 6020 by Pace Analytical Services Green Bay. 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: 386743

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

- 052521020 (Lab ID: 40227545001)
  - Silver
  - Arsenic
  - Cadmium
  - Chromium
  - Lead
  - Selenium
- 052521021 (Lab ID: 40227545002)
  - Silver
  - Arsenic

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

Analyte Comments:

QC Batch: 386743

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

- 052521021 (Lab ID: 40227545002)
  - Cadmium
  - Chromium
  - Iron
  - Lead
  - Selenium

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

---

**Method:** EPA 7470

**Description:** 7470 Mercury

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

2 samples were analyzed for EPA 7470 by Pace Analytical Services Green Bay. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

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**Method:** EPA 8270E by SIM

**Description:** 8270E MSSV PAH

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

2 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Green Bay. 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: 70712 GREEN BAY MGP

Pace Project No.: 40227545

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**Method:** EPA 8260

**Description:** 8260 MSV UST

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

2 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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: 386492

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40227535021

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

- MSD (Lab ID: 2230311)
  - Ethylbenzene

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

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**Method:** EPA 300.0

**Description:** 300.0 IC Anions

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

2 samples were analyzed for EPA 300.0 by Pace Analytical Services Green Bay. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

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**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

2 samples were analyzed for EPA 353.2 by Pace Analytical Services Green Bay. 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: 387271

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40227543003,50288421004

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

- MS (Lab ID: 2234151)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>
- MSD (Lab ID: 2234152)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>

**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: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

**Sample: 052521020**      **Lab ID: 40227545001**      Collected: 05/25/21 15:51      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	<b>208</b>	ug/L	5.6	1.2	2		06/03/21 11:33	74-82-8	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic	<b>1.7J</b>	ug/L	2.0	0.56	2	06/01/21 07:00	06/03/21 02:52	7440-38-2	D3
Barium	<b>762</b>	ug/L	4.7	1.4	2	06/01/21 07:00	06/03/21 02:52	7440-39-3	
Cadmium	<b>&lt;0.30</b>	ug/L	2.0	0.30	2	06/01/21 07:00	06/03/21 02:52	7440-43-9	D3
Chromium	<b>&lt;2.0</b>	ug/L	6.8	2.0	2	06/01/21 07:00	06/03/21 02:52	7440-47-3	D3
Iron	<b>4320</b>	ug/L	500	116	2	06/01/21 07:00	06/03/21 02:52	7439-89-6	
Lead	<b>&lt;0.47</b>	ug/L	2.0	0.47	2	06/01/21 07:00	06/03/21 02:52	7439-92-1	D3
Manganese	<b>325</b>	ug/L	8.1	2.4	2	06/01/21 07:00	06/03/21 02:52	7439-96-5	
Selenium	<b>1.2J</b>	ug/L	2.1	0.63	2	06/01/21 07:00	06/03/21 02:52	7782-49-2	D3
Silver	<b>&lt;0.25</b>	ug/L	1.0	0.25	2	06/01/21 07:00	06/03/21 02:52	7440-22-4	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<b>&lt;0.066</b>	ug/L	0.20	0.066	1	06/03/21 10:45	06/04/21 09:27	7439-97-6	
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	<b>15.9</b>	ug/L	0.65	0.13	20	05/31/21 09:36	06/02/21 15:56	83-32-9	
Acenaphthylene	<b>0.99</b>	ug/L	0.54	0.11	20	05/31/21 09:36	06/02/21 15:56	208-96-8	
Anthracene	<b>0.67J</b>	ug/L	1.1	0.22	20	05/31/21 09:36	06/02/21 15:56	120-12-7	
Benzo(a)anthracene	<b>&lt;0.16</b>	ug/L	0.81	0.16	20	05/31/21 09:36	06/02/21 15:56	56-55-3	
Benzo(a)pyrene	<b>&lt;0.23</b>	ug/L	1.1	0.23	20	05/31/21 09:36	06/02/21 15:56	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.12</b>	ug/L	0.62	0.12	20	05/31/21 09:36	06/02/21 15:56	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.15</b>	ug/L	0.73	0.15	20	05/31/21 09:36	06/02/21 15:56	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.16</b>	ug/L	0.81	0.16	20	05/31/21 09:36	06/02/21 15:56	207-08-9	
Chrysene	<b>&lt;0.28</b>	ug/L	1.4	0.28	20	05/31/21 09:36	06/02/21 15:56	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.22</b>	ug/L	1.1	0.22	20	05/31/21 09:36	06/02/21 15:56	53-70-3	
Fluoranthene	<b>0.45J</b>	ug/L	1.1	0.23	20	05/31/21 09:36	06/02/21 15:56	206-44-0	
Fluorene	<b>6.6</b>	ug/L	0.86	0.17	20	05/31/21 09:36	06/02/21 15:56	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.38</b>	ug/L	1.9	0.38	20	05/31/21 09:36	06/02/21 15:56	193-39-5	
1-Methylnaphthalene	<b>50.0</b>	ug/L	0.63	0.13	20	05/31/21 09:36	06/02/21 15:56	90-12-0	
2-Methylnaphthalene	<b>2.6</b>	ug/L	0.53	0.11	20	05/31/21 09:36	06/02/21 15:56	91-57-6	
Naphthalene	<b>77.2</b>	ug/L	2.0	0.39	20	05/31/21 09:36	06/02/21 15:56	91-20-3	
Phenanthrene	<b>3.5</b>	ug/L	1.5	0.30	20	05/31/21 09:36	06/02/21 15:56	85-01-8	
Pyrene	<b>0.51J</b>	ug/L	0.82	0.16	20	05/31/21 09:36	06/02/21 15:56	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58	%	39-120		20	05/31/21 09:36	06/02/21 15:56	321-60-8	
Terphenyl-d14 (S)	70	%	10-159		20	05/31/21 09:36	06/02/21 15:56	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<b>167</b>	ug/L	2.0	0.59	2		05/28/21 09:41	71-43-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

**Sample: 052521020**      **Lab ID: 40227545001**      Collected: 05/25/21 15:51      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Ethylbenzene	17.0	ug/L	2.0	0.65	2		05/28/21 09:41	100-41-4	
Toluene	3.3	ug/L	2.0	0.58	2		05/28/21 09:41	108-88-3	
1,2,4-Trimethylbenzene	15.2	ug/L	2.0	0.90	2		05/28/21 09:41	95-63-6	
1,3,5-Trimethylbenzene	<0.71	ug/L	2.0	0.71	2		05/28/21 09:41	108-67-8	
Xylene (Total)	28.4	ug/L	6.0	2.1	2		05/28/21 09:41	1330-20-7	
m&p-Xylene	17.1	ug/L	4.0	1.4	2		05/28/21 09:41	179601-23-1	
o-Xylene	11.3	ug/L	2.0	0.70	2		05/28/21 09:41	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	100	%	70-130		2		05/28/21 09:41	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		2		05/28/21 09:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		2		05/28/21 09:41	2199-69-1	

**300.0 IC Anions**

Analytical Method: EPA 300.0  
Pace Analytical Services - Green Bay

Sulfate	152	mg/L	10.0	2.2	5		06/09/21 16:42	14808-79-8	
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**353.2 Nitrogen, NO2/NO3 pres.**

Analytical Method: EPA 353.2  
Pace Analytical Services - Green Bay

Nitrogen, NO2 plus NO3	0.16J	mg/L	0.25	0.059	1		06/07/21 13:17		
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**Sample: 052521021**      **Lab ID: 40227545002**      Collected: 05/25/21 16:25      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	5.5	ug/L	2.8	0.58	1		06/03/21 10:11	74-82-8	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic	0.77J	ug/L	2.0	0.56	2	06/01/21 07:00	06/03/21 02:59	7440-38-2	D3
Barium	66.7	ug/L	4.7	1.4	2	06/01/21 07:00	06/03/21 02:59	7440-39-3	
Cadmium	<0.30	ug/L	2.0	0.30	2	06/01/21 07:00	06/03/21 02:59	7440-43-9	D3
Chromium	<2.0	ug/L	6.8	2.0	2	06/01/21 07:00	06/03/21 02:59	7440-47-3	D3
Iron	<116	ug/L	500	116	2	06/01/21 07:00	06/03/21 02:59	7439-89-6	D3
Lead	<0.47	ug/L	2.0	0.47	2	06/01/21 07:00	06/03/21 02:59	7439-92-1	D3
Manganese	326	ug/L	8.1	2.4	2	06/01/21 07:00	06/03/21 02:59	7439-96-5	
Selenium	<0.63	ug/L	2.1	0.63	2	06/01/21 07:00	06/03/21 02:59	7782-49-2	D3
Silver	<0.25	ug/L	1.0	0.25	2	06/01/21 07:00	06/03/21 02:59	7440-22-4	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/21 10:45	06/04/21 09:30	7439-97-6	

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

**Sample: 052521021**      **Lab ID: 40227545002**      Collected: 05/25/21 16:25      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM      Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>0.017J</b>	ug/L	0.030	0.0060	1	05/31/21 09:36	06/02/21 10:25	83-32-9	
Acenaphthylene	<b>0.043</b>	ug/L	0.025	0.0049	1	05/31/21 09:36	06/02/21 10:25	208-96-8	
Anthracene	<b>0.037J</b>	ug/L	0.052	0.010	1	05/31/21 09:36	06/02/21 10:25	120-12-7	
Benzo(a)anthracene	<b>0.094</b>	ug/L	0.037	0.0075	1	05/31/21 09:36	06/02/21 10:25	56-55-3	
Benzo(a)pyrene	<b>0.099</b>	ug/L	0.052	0.010	1	05/31/21 09:36	06/02/21 10:25	50-32-8	
Benzo(b)fluoranthene	<b>0.17</b>	ug/L	0.028	0.0057	1	05/31/21 09:36	06/02/21 10:25	205-99-2	
Benzo(g,h,i)perylene	<b>0.11</b>	ug/L	0.034	0.0067	1	05/31/21 09:36	06/02/21 10:25	191-24-2	
Benzo(k)fluoranthene	<b>0.066</b>	ug/L	0.037	0.0075	1	05/31/21 09:36	06/02/21 10:25	207-08-9	
Chrysene	<b>0.20</b>	ug/L	0.065	0.013	1	05/31/21 09:36	06/02/21 10:25	218-01-9	
Dibenz(a,h)anthracene	<b>0.016J</b>	ug/L	0.050	0.0099	1	05/31/21 09:36	06/02/21 10:25	53-70-3	
Fluoranthene	<b>0.32</b>	ug/L	0.053	0.011	1	05/31/21 09:36	06/02/21 10:25	206-44-0	
Fluorene	<b>0.045</b>	ug/L	0.039	0.0079	1	05/31/21 09:36	06/02/21 10:25	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.081J</b>	ug/L	0.087	0.017	1	05/31/21 09:36	06/02/21 10:25	193-39-5	
1-Methylnaphthalene	<b>0.26</b>	ug/L	0.029	0.0058	1	05/31/21 09:36	06/02/21 10:25	90-12-0	
2-Methylnaphthalene	<b>0.30</b>	ug/L	0.024	0.0049	1	05/31/21 09:36	06/02/21 10:25	91-57-6	
Naphthalene	<b>1.9</b>	ug/L	0.091	0.018	1	05/31/21 09:36	06/02/21 10:25	91-20-3	
Phenanthrene	<b>0.16</b>	ug/L	0.068	0.014	1	05/31/21 09:36	06/02/21 10:25	85-01-8	
Pyrene	<b>0.30</b>	ug/L	0.038	0.0076	1	05/31/21 09:36	06/02/21 10:25	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	54	%	39-120		1	05/31/21 09:36	06/02/21 10:25	321-60-8	
Terphenyl-d14 (S)	66	%	10-159		1	05/31/21 09:36	06/02/21 10:25	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<b>&lt;0.30</b>	ug/L	1.0	0.30	1		05/28/21 02:25	71-43-2	
Ethylbenzene	<b>&lt;0.33</b>	ug/L	1.0	0.33	1		05/28/21 02:25	100-41-4	
Toluene	<b>&lt;0.29</b>	ug/L	1.0	0.29	1		05/28/21 02:25	108-88-3	
1,2,4-Trimethylbenzene	<b>&lt;0.45</b>	ug/L	1.0	0.45	1		05/28/21 02:25	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;0.36</b>	ug/L	1.0	0.36	1		05/28/21 02:25	108-67-8	
Xylene (Total)	<b>&lt;1.0</b>	ug/L	3.0	1.0	1		05/28/21 02:25	1330-20-7	
m&p-Xylene	<b>&lt;0.70</b>	ug/L	2.0	0.70	1		05/28/21 02:25	179601-23-1	
o-Xylene	<b>&lt;0.35</b>	ug/L	1.0	0.35	1		05/28/21 02:25	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	100	%	70-130		1		05/28/21 02:25	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		05/28/21 02:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		05/28/21 02:25	2199-69-1	
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	<b>1030</b>	mg/L	100	22.2	50		06/10/21 11:14	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<b>0.37</b>	mg/L	0.25	0.059	1		06/07/21 13:18		

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

QC Batch: 387029      Analysis Method: EPA 8015B Modified  
QC Batch Method: EPA 8015B Modified      Analysis Description: Methane, Ethane, Ethene GCV  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40227545001, 40227545002

METHOD BLANK: 2232604      Matrix: Water  
Associated Lab Samples: 40227545001, 40227545002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.58	2.8	06/03/21 08:37	

LABORATORY CONTROL SAMPLE & LCSD: 2232605      2232606

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	25.8	26.2	90	92	80-121	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2232607      2232608

Parameter	Units	40227543003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	472	286	286	1010	1040	190	198	10-200	2	20	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

QC Batch: 387040

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227545001, 40227545002

METHOD BLANK: 2232645

Matrix: Water

Associated Lab Samples: 40227545001, 40227545002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	06/04/21 08:37	

LABORATORY CONTROL SAMPLE: 2232646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2232647 2232648

Parameter	Units	2232647		2232648		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40227542001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	<0.066	5	5	4.6	4.7	93	94	85-115	1	20

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

QC Batch: 386743 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227545001, 40227545002

METHOD BLANK: 2231669 Matrix: Water

Associated Lab Samples: 40227545001, 40227545002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.28	1.0	06/03/21 01:37	
Barium	ug/L	<0.70	2.3	06/03/21 01:37	
Cadmium	ug/L	<0.15	1.0	06/03/21 01:37	
Chromium	ug/L	<1.0	3.4	06/03/21 01:37	
Iron	ug/L	<58.0	250	06/03/21 01:37	
Lead	ug/L	<0.24	1.0	06/03/21 01:37	
Manganese	ug/L	<1.2	4.0	06/03/21 01:37	
Selenium	ug/L	<0.32	1.1	06/03/21 01:37	
Silver	ug/L	<0.13	0.50	06/03/21 01:37	

LABORATORY CONTROL SAMPLE: 2231670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	457	91	80-120	
Barium	ug/L	500	457	91	80-120	
Cadmium	ug/L	500	487	97	80-120	
Chromium	ug/L	500	470	94	80-120	
Iron	ug/L	5000	4970	99	80-120	
Lead	ug/L	500	440	88	80-120	
Manganese	ug/L	500	452	90	80-120	
Selenium	ug/L	500	478	96	80-120	
Silver	ug/L	250	228	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2231671 2231672

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40227543003 Result	Spike Conc.	Spike Conc.	Conc.								
Arsenic	ug/L	3.0	500	500	474	474	94	94	75-125	0	20		
Barium	ug/L	301	500	500	764	760	93	92	75-125	1	20		
Cadmium	ug/L	0.56J	500	500	475	474	95	95	75-125	0	20		
Chromium	ug/L	<2.0	500	500	480	478	96	95	75-125	1	20		
Iron	ug/L	9950	5000	5000	14900	14700	98	94	75-125	1	20		
Lead	ug/L	0.60J	500	500	455	453	91	91	75-125	0	20		
Manganese	ug/L	671	500	500	1120	1100	90	86	75-125	2	20		
Selenium	ug/L	0.94J	500	500	478	477	95	95	75-125	0	20		
Silver	ug/L	<0.25	250	250	216	216	86	86	75-125	0	20		

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

QC Batch: 386490 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227545001

METHOD BLANK: 2230140 Matrix: Water  
Associated Lab Samples: 40227545001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/28/21 07:44	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/28/21 07:44	
Benzene	ug/L	<0.30	1.0	05/28/21 07:44	
Ethylbenzene	ug/L	<0.33	1.0	05/28/21 07:44	
m&p-Xylene	ug/L	<0.70	2.0	05/28/21 07:44	
o-Xylene	ug/L	<0.35	1.0	05/28/21 07:44	
Toluene	ug/L	<0.29	1.0	05/28/21 07:44	
Xylene (Total)	ug/L	<1.0	3.0	05/28/21 07:44	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130	05/28/21 07:44	
4-Bromofluorobenzene (S)	%	104	70-130	05/28/21 07:44	
Toluene-d8 (S)	%	99	70-130	05/28/21 07:44	

LABORATORY CONTROL SAMPLE: 2230141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	58.8	118	70-132	
Ethylbenzene	ug/L	50	61.0	122	80-123	
m&p-Xylene	ug/L	100	123	123	70-130	
o-Xylene	ug/L	50	59.1	118	70-130	
Toluene	ug/L	50	58.0	116	80-121	
Xylene (Total)	ug/L	150	182	121	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230142 2230143

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40227543003 Result	Spike Conc.	Spike Conc.	Result						
Benzene	ug/L	<0.30	50	50	58.0	59.1	116	118 70-132	2	20	
Ethylbenzene	ug/L	<0.33	50	50	61.3	61.4	123	123 80-123	0	20	
m&p-Xylene	ug/L	<0.70	100	100	120	121	120	121 70-130	1	20	
o-Xylene	ug/L	<0.35	50	50	57.9	59.1	116	118 70-130	2	20	
Toluene	ug/L	<0.29	50	50	57.9	57.3	116	115 80-121	1	20	
Xylene (Total)	ug/L	<1.0	150	150	178	180	119	120 70-130	1	20	
1,2-Dichlorobenzene-d4 (S)	%						102	99 70-130			
4-Bromofluorobenzene (S)	%						111	109 70-130			

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230142 2230143												
Parameter	Units	40227543003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Toluene-d8 (S)	%						98	98	70-130			

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

QC Batch: 386492      Analysis Method: EPA 8260  
QC Batch Method: EPA 8260      Analysis Description: 8260 MSV UST-WATER  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227545002

METHOD BLANK: 2230146      Matrix: Water  
Associated Lab Samples: 40227545002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/27/21 17:34	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/27/21 17:34	
Benzene	ug/L	<0.30	1.0	05/27/21 17:34	
Ethylbenzene	ug/L	<0.33	1.0	05/27/21 17:34	
m&p-Xylene	ug/L	<0.70	2.0	05/27/21 17:34	
o-Xylene	ug/L	<0.35	1.0	05/27/21 17:34	
Toluene	ug/L	<0.29	1.0	05/27/21 17:34	
Xylene (Total)	ug/L	<1.0	3.0	05/27/21 17:34	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	05/27/21 17:34	
4-Bromofluorobenzene (S)	%	101	70-130	05/27/21 17:34	
Toluene-d8 (S)	%	100	70-130	05/27/21 17:34	

LABORATORY CONTROL SAMPLE: 2230147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	57.8	116	70-132	
Ethylbenzene	ug/L	50	61.5	123	80-123	
m&p-Xylene	ug/L	100	120	120	70-130	
o-Xylene	ug/L	50	58.7	117	70-130	
Toluene	ug/L	50	57.1	114	80-121	
Xylene (Total)	ug/L	150	179	119	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230310      2230311

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40227535021 Result	Spike Conc.	Spike Conc.	Result							Result
Benzene	ug/L	<0.30	50	50	54.6	58.7	109	117	70-132	7	20	
Ethylbenzene	ug/L	<0.33	50	50	57.1	63.0	114	126	80-123	10	20	M1
m&p-Xylene	ug/L	<0.70	100	100	113	124	113	124	70-130	9	20	
o-Xylene	ug/L	<0.35	50	50	55.2	61.2	110	122	70-130	10	20	
Toluene	ug/L	<0.29	50	50	53.5	58.6	107	117	80-121	9	20	
Xylene (Total)	ug/L	<1.0	150	150	168	185	112	124	70-130	10	20	
1,2-Dichlorobenzene-d4 (S)	%						101	98	70-130			
4-Bromofluorobenzene (S)	%						106	104	70-130			

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227545

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230310 2230311												
Parameter	Units	40227535021 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Toluene-d8 (S)	%							97	98	70-130		

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

QC Batch: 386717 Analysis Method: EPA 8270E by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270E Water PAH  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227545001, 40227545002

METHOD BLANK: 2231609 Matrix: Water

Associated Lab Samples: 40227545001, 40227545002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/01/21 08:36	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/01/21 08:36	
Acenaphthene	ug/L	<0.0061	0.030	06/01/21 08:36	
Acenaphthylene	ug/L	<0.0050	0.025	06/01/21 08:36	
Anthracene	ug/L	<0.010	0.052	06/01/21 08:36	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/01/21 08:36	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/01/21 08:36	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/01/21 08:36	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/01/21 08:36	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/01/21 08:36	
Chrysene	ug/L	<0.013	0.065	06/01/21 08:36	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/01/21 08:36	
Fluoranthene	ug/L	<0.011	0.053	06/01/21 08:36	
Fluorene	ug/L	<0.0080	0.040	06/01/21 08:36	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/01/21 08:36	
Naphthalene	ug/L	<0.018	0.092	06/01/21 08:36	
Phenanthrene	ug/L	<0.014	0.069	06/01/21 08:36	
Pyrene	ug/L	<0.0076	0.038	06/01/21 08:36	
2-Fluorobiphenyl (S)	%	54	39-120	06/01/21 08:36	
Terphenyl-d14 (S)	%	85	10-159	06/01/21 08:36	

LABORATORY CONTROL SAMPLE: 2231610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.5	74	37-120	
2-Methylnaphthalene	ug/L	2	1.5	74	38-120	
Acenaphthene	ug/L	2	1.4	72	49-120	
Acenaphthylene	ug/L	2	1.4	71	43-85	
Anthracene	ug/L	2	1.3	67	57-110	
Benzo(a)anthracene	ug/L	2	1.5	73	47-118	
Benzo(a)pyrene	ug/L	2	1.6	78	70-120	
Benzo(b)fluoranthene	ug/L	2	1.5	75	54-97	
Benzo(g,h,i)perylene	ug/L	2	0.59	29	26-74	
Benzo(k)fluoranthene	ug/L	2	1.7	85	73-126	
Chrysene	ug/L	2	1.8	89	75-151	
Dibenz(a,h)anthracene	ug/L	2	0.45	22	13-72	
Fluoranthene	ug/L	2	1.7	85	63-120	
Fluorene	ug/L	2	1.5	74	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.2	62	51-101	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

LABORATORY CONTROL SAMPLE: 2231610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.5	73	41-120	
Phenanthrene	ug/L	2	1.6	79	47-100	
Pyrene	ug/L	2	1.7	86	70-128	
2-Fluorobiphenyl (S)	%			72	39-120	
Terphenyl-d14 (S)	%			106	10-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2231611 2231612

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40227690005 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/L	<0.0054	1.9	1.9	1.0	0.98	56	53	16-120	7	28	
2-Methylnaphthalene	ug/L	<0.0045	1.9	1.9	1.1	0.98	56	53	29-120	7	31	
Acenaphthene	ug/L	<0.0056	1.9	1.9	1.1	1.0	57	55	33-120	5	30	
Acenaphthylene	ug/L	<0.0046	1.9	1.9	1.1	0.98	56	53	21-85	8	26	
Anthracene	ug/L	<0.0096	1.9	1.9	1.2	1.1	64	57	16-114	13	36	
Benzo(a)anthracene	ug/L	<0.0069	1.9	1.9	1.1	1.0	60	56	10-118	8	35	
Benzo(a)pyrene	ug/L	<0.0097	1.9	1.9	1.1	0.99	58	54	10-120	9	37	
Benzo(b)fluoranthene	ug/L	<0.0053	1.9	1.9	1.1	1.0	57	55	10-97	6	36	
Benzo(g,h,i)perylene	ug/L	<0.0062	1.9	1.9	0.42	0.39	22	21	10-74	5	45	
Benzo(k)fluoranthene	ug/L	<0.0069	1.9	1.9	1.1	0.97	57	53	10-126	9	41	
Chrysene	ug/L	<0.012	1.9	1.9	1.3	1.2	71	67	10-161	9	30	
Dibenz(a,h)anthracene	ug/L	<0.0092	1.9	1.9	0.42	0.40	22	21	10-72	5	50	
Fluoranthene	ug/L	<0.0098	1.9	1.9	1.3	1.2	68	64	35-120	8	33	
Fluorene	ug/L	<0.0073	1.9	1.9	1.1	1.1	59	58	17-120	3	33	
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	1.9	1.9	0.74	0.68	39	37	10-101	9	41	
Naphthalene	ug/L	<0.017	1.9	1.9	1.0	0.93	55	50	24-120	11	30	
Phenanthrene	ug/L	<0.013	1.9	1.9	1.2	1.2	64	62	15-100	5	30	
Pyrene	ug/L	<0.0070	1.9	1.9	1.4	1.3	72	68	14-137	8	31	
2-Fluorobiphenyl (S)	%						57	61	39-120			
Terphenyl-d14 (S)	%						80	78	10-159			

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

QC Batch: 387453	Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227545001, 40227545002

METHOD BLANK: 2234911 Matrix: Water

Associated Lab Samples: 40227545001, 40227545002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	06/09/21 09:59	

LABORATORY CONTROL SAMPLE: 2234912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.4	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234913 2234914

Parameter	Units	40227539010		2234913		2234914		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Sulfate	mg/L	138	200	200	200	350	350	106	106	90-110	0	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234915 2234916

Parameter	Units	40227543003		2234915		2234916		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Sulfate	mg/L	46.5	100	100	100	151	149	105	103	90-110	1	15

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

QC Batch: 387271	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrate + Nitrite, preserved
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227545001, 40227545002

METHOD BLANK: 2234149 Matrix: Water  
Associated Lab Samples: 40227545001, 40227545002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	06/07/21 13:05	

LABORATORY CONTROL SAMPLE: 2234150

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234151 2234152

Parameter	Units	40227543003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.1	2.1	86	85	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234153 2234154

Parameter	Units	50288421004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	9.2	2.5	2.5	11.6	11.6	96	97	90-110	0	20	

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## QUALIFIERS

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

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

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227545

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40227545001	052521020	EPA 8015B Modified	387029		
40227545002	052521021	EPA 8015B Modified	387029		
40227545001	052521020	EPA 3010	386743	EPA 6020	386850
40227545002	052521021	EPA 3010	386743	EPA 6020	386850
40227545001	052521020	EPA 7470	387040	EPA 7470	387083
40227545002	052521021	EPA 7470	387040	EPA 7470	387083
40227545001	052521020	EPA 3510	386717	EPA 8270E by SIM	386724
40227545002	052521021	EPA 3510	386717	EPA 8270E by SIM	386724
40227545001	052521020	EPA 8260	386490		
40227545002	052521021	EPA 8260	386492		
40227545001	052521020	EPA 300.0	387453		
40227545002	052521021	EPA 300.0	387453		
40227545001	052521020	EPA 353.2	387271		
40227545002	052521021	EPA 353.2	387271		

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

### Sample Condition Upon Receipt Form (SCUR)

Client Name: Ramboll

Project #: \_\_\_\_\_

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walto  
 Client  Pace Other: \_\_\_\_\_

WO#: **40227545**



Tracking #: \_\_\_\_\_  
 Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
 Custody Seal on Samples Present:  yes  no Seals intact:  yes  no  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer Used SR - 90 Type of Ice:  Wet  Blue  Dry  None

Cooler Temperature Uncorr: 5.0 / Corr: 4.5  Samples on ice, cooling process has begun

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

Person examining contents:  
 Date: 5/26/21 / Initials: [Signature]  
 Labeled By Initials: [Signature]

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

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

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

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



Wisconsin Public Service Corporation

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

[www.wisconsinpublicservice.com](http://www.wisconsinpublicservice.com)

July 27, 2021

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

**RE:** Recent Sampling Results  
Wisconsin Public Service Corporation – Former Green Bay Manufactured Gas Plant  
(MGP)  
700 North Adams Street, BRRTS# 0205000254

Dear Ms. Hazuka,

WEC Business Services (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 700 North Adams Street is providing results of groundwater samples collected as part of routine monitoring (MW414, MW415A, MW415B, MW416) collected in May of 2021, as part of site characterization. Wisconsin Administrative Code Chapter NR716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

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

We appreciate your ongoing cooperation with groundwater sampling activities on your property. If you need additional information, please contact Sarah Krueger from the WDNR at 920-662-5443 or myself at 414-221-2156.

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 Business Services - Environmental Dept.

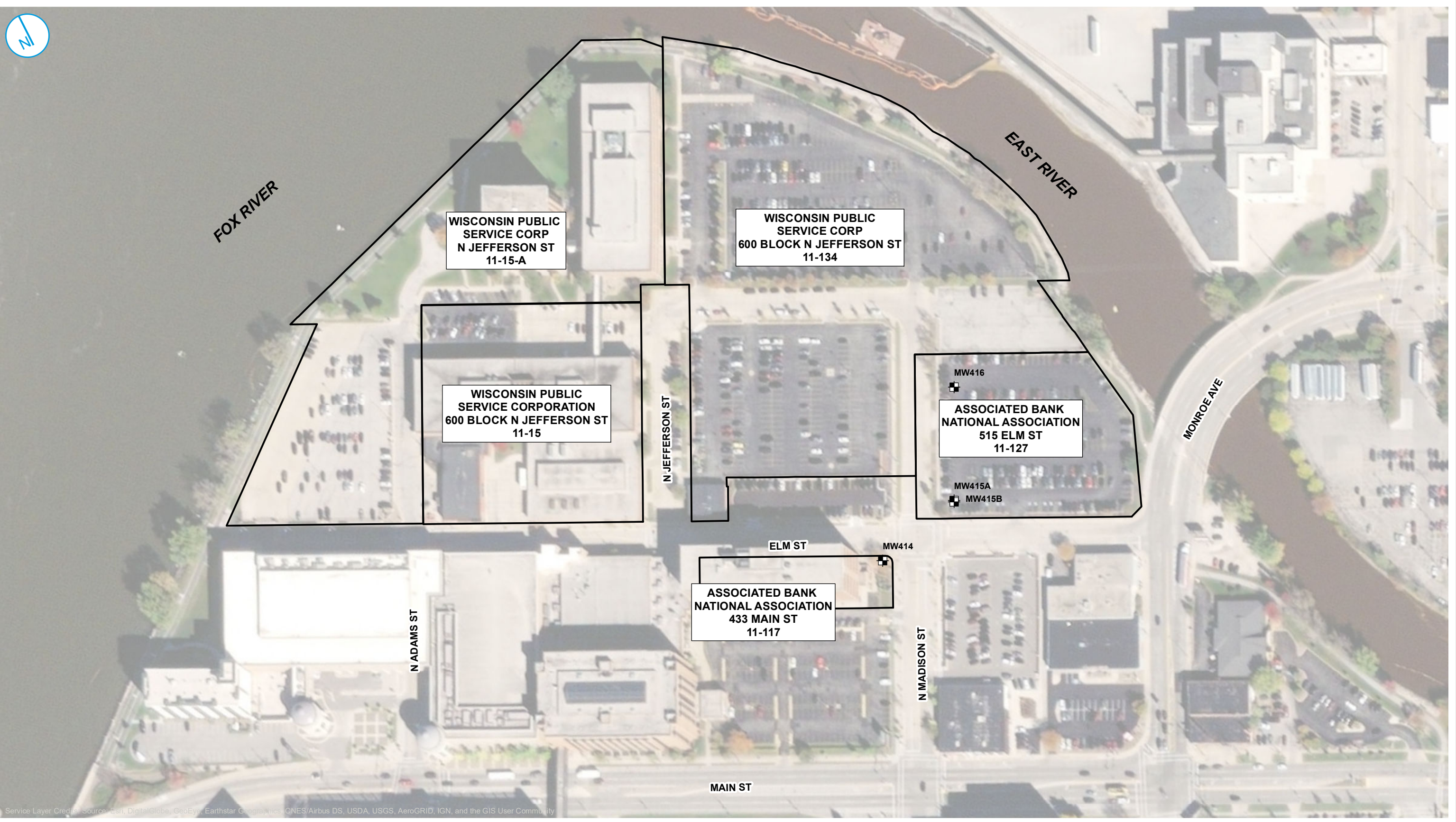
Enc: Figure 1. Associated Bank  
Table 1. May 2021 Groundwater Analytical Results for Associated Bank  
Laboratory Report – 40227542\_frc

Ms. Hazuka  
Associated Bank  
July 27, 2021  
Page 2



cc: Project File  
USEPA RPM – Sarah Rolfes (via email)  
WDNR PM – Sarah Krueger (via US Mail and email)  
WDNR Northeast Region (via email to [DNRRRNER@wisconsin.gov](mailto:DNRRRNER@wisconsin.gov))  
Ms. Staci Goetz, Ramboll (via email)

## FIGURES





Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  MONITORING WELL LOCATION
-  PROPERTY LINE



**ASSOCIATED BANK**  
BRRTS# 02-05-00254

**FIGURE 01**

**FORMER GREEN BAY MANUFACTURED GAS PLANT**  
**WISCONSIN PUBLIC SERVICE CORPORATION**  
GREEN BAY, WISCONSIN

RAMBOLL US CORPORATION  
A RAMBOLL COMPANY



## TABLES





**Table 1. May 2021 Groundwater Analytical Results for Associated Bank**

June 2021 Third Party Notification  
 Wisconsin Public Service Corporation  
 Green Bay Former Manufactured Gas Plant Site  
 700 N Adams St, Green Bay, Wisconsin  
 BRRTS#: 02-05-000254 USEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	Metal		Metal		Metal		Metal		Metal		Metal		Metal		Inorganic		Inorganic		Organic		Field		Field		Field		Field		Field											
			Arsenic, Total		Barium, Total		Cadmium, Total		Chromium, Total		Iron, Total		Lead, Total		Manganese, Total		Mercury, Total		Selenium, Total		Silver, Total		Nitrogen, NO2 + NO3, Total		Sulfate, Total		Methane		Dissolved oxygen		Groundwater, depth to		Oxidation Reduction Potential		pH, Field		Specific Conductance, Field		Temperature, Water		Turbidity, Quantitative	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag						
Reporting Units:			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		mg/L		feet		millivolts		s.u.		µS/cm		Deg C		NTUs					
<b>WI Groundwater ES:</b>			<b>10</b>		<b>2,000</b>		<b>5</b>		<b>100</b>		<b>300</b>		<b>15</b>		<b>300</b>		<b>2</b>		<b>50</b>		<b>50</b>		<b>10,000</b>		<b>250,000</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>					
<b>WI Groundwater PAL:</b>			<u>1</u>		<u>400</u>		<u>0.5</u>		<u>10</u>		<u>150</u>		<u>1.5</u>		<u>60</u>		<u>0.2</u>		<u>10</u>		<u>10</u>		<u>2,000</u>		<u>125,000</u>		<u>NS</u>		<u>NS</u>		<u>NS</u>		<u>NS</u>		<u>NS</u>		<u>NS</u>		<u>NS</u>			
052521016	MW-416	05/25/2021	5.6*	U	233		3.0*	U	20.4*	U	<b>5,900</b>		4.7*	U	<b>2,060</b>		0.066	U	6.3	U	2.5	U	59	U	<b>322,000</b>		21.3		0.34		3.21		24.3		6.46		24783.7		19.07		0.00	
052521017	MW-415A	05/25/2021	0.56	U	106		0.30	U	2.0	U	116	U	0.47	U	4.7	J	0.066	U	0.63	U	0.25	U	190	J	<b>253,000</b>		0.58	U	0.31		2.97		99.0		6.82		5974.2		18.95		58.08	
052521018	MW-415B	05/25/2021	0.56	U	22.2		0.30	U	2.0	U	116	U	0.47	U	2.4	U	0.066	U	0.63	U	0.25	U	250		<b>1,620,000</b>		0.58	U	2.29		6.14		99.2		7.44		2422.4		17.24		0.00	
052521019	MW-414	05/25/2021	1.4*	U	279		0.76*	U	5.1	U	290*	U	1.2	U	<u>116</u>		0.066	U	1.6	U	0.64	U	470		104,000		2.6	J	0.51		4.66		122.2		7.03		8445.1		16.93		0.00	

[O:CMD 7/13/21, CLDH 7/13/2021, C:SIM 7/14/21]

Sorted by 9-digit Code

<b>Bold</b>	attains or exceeds the WI Groundwater ES
<u>Underline</u>	attains or exceeds the WI Groundwater PAL

**Results & Flags:**

\* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria  
 J = Estimated Concentration  
 U = Concentration was not detected above the reported limit

**Acronyms:**

µg/L = micrograms per liter  
 BRRTS = Bureau for Remediation and Redevelopment Tracking System (Wisconsin Department of Natural Resources (WDNR))  
 ES = Enforcement Standard  
 NO2 + NO3 = nitrite plus nitrate  
 NS = No Standard  
 PAH = Polycyclic Aromatic Hydrocarbon  
 PAL = Preventive Action Limit  
 PVOOC = Petroleum Volatile Organic Compound  
 USEPA = United States Environmental Protection Agency  
 VOC = Volatile Organic Compound  
 WI = Wisconsin

**Superscripts:**

1. Total Trimethylbenzenes were calculated by Ramboll as follows:
  - a. Where no detections were observed, the sum of the reporting limits is presented.
  - b. Where detections were observed, only the detected results were added together for the total summation.
  - c. Analytes used for the calculation are 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

**Screening Levels:**

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020.

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

## **LABORATORY REPORTS**

June 10, 2021

Staci Goetz  
Ramboll US Consulting, Inc.  
234 W. Florida Street  
Fifth Floor  
Milwaukee, WI 53204

RE: Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

Dear Staci Goetz:

Enclosed are the analytical results for sample(s) received by the laboratory on May 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



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

Enclosures

cc: Phil Brochocki, Ramboll  
NRT Data, Ramboll  
Eric Hritsuk, OBG  
Robert Paulson, We Energies  
Kyle Schaefer, Ramboll Americas  
Dan Vachon, O'Brien & Gere Engineers, Inc Integrys WI  
Steve Wiskes, Ramboll



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40227542001	052521016	Water	05/25/21 13:03	05/26/21 10:42
40227542002	052521017	Water	05/25/21 13:39	05/26/21 10:42
40227542003	052521018	Water	05/25/21 14:08	05/26/21 10:42
40227542004	052521019	Water	05/25/21 14:59	05/26/21 10:42

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40227542001	052521016	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	9
		EPA 7470	AJT	1
		EPA 8270E by SIM	JJB	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40227542002	052521017	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	9
		EPA 7470	AJT	1
		EPA 8270E by SIM	JJB	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40227542003	052521018	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	9
		EPA 7470	AJT	1
		EPA 8270E by SIM	JJB	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40227542004	052521019	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	9
		EPA 7470	AJT	1
		EPA 8270E by SIM	JJB	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 8015B Modified

**Description:** Methane, Ethane, Ethene GCV

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 8015B Modified by Pace Analytical Services Green Bay. 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.

**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: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

---

**Method:** EPA 6020  
**Description:** 6020 MET ICPMS  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** June 10, 2021

### General Information:

4 samples were analyzed for EPA 6020 by Pace Analytical Services Green Bay. 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: 386501

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

- 052521016 (Lab ID: 40227542001)
  - Silver
  - Arsenic
  - Cadmium
  - Chromium
  - Lead
  - Selenium
- 052521017 (Lab ID: 40227542002)
  - Silver
  - Arsenic

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

Analyte Comments:

QC Batch: 386501

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

- 052521017 (Lab ID: 40227542002)

- Cadmium
- Chromium
- Iron
- Manganese
- Lead
- Selenium

- 052521018 (Lab ID: 40227542003)

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

- 052521019 (Lab ID: 40227542004)

- Silver
- Arsenic
- Cadmium
- Chromium
- Iron
- Lead
- Selenium

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 7470

**Description:** 7470 Mercury

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 7470 by Pace Analytical Services Green Bay. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 8270E by SIM

**Description:** 8270E MSSV PAH

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Green Bay. 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: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 8260

**Description:** 8260 MSV UST

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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: 386492

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40227535021

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

- MSD (Lab ID: 2230311)
  - Ethylbenzene

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 300.0

**Description:** 300.0 IC Anions

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 300.0 by Pace Analytical Services Green Bay. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 353.2 by Pace Analytical Services Green Bay. 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: 387271

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40227543003,50288421004

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

- MS (Lab ID: 2234151)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>
- MSD (Lab ID: 2234152)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>

**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: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

**Sample: 052521016**      **Lab ID: 40227542001**      Collected: 05/25/21 13:03      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	21.3	ug/L	2.8	0.58	1		06/03/21 09:14	74-82-8	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic	<5.6	ug/L	20.0	5.6	20	05/27/21 05:51	06/03/21 01:03	7440-38-2	D3
Barium	233	ug/L	46.6	14.0	20	05/27/21 05:51	06/03/21 01:03	7440-39-3	
Cadmium	<3.0	ug/L	20.0	3.0	20	05/27/21 05:51	06/03/21 01:03	7440-43-9	D3
Chromium	<20.4	ug/L	68.0	20.4	20	05/27/21 05:51	06/03/21 01:03	7440-47-3	D3
Iron	5900	ug/L	5000	1160	20	05/27/21 05:51	06/03/21 01:03	7439-89-6	
Lead	<4.7	ug/L	20.0	4.7	20	05/27/21 05:51	06/03/21 01:03	7439-92-1	D3
Manganese	2060	ug/L	81.0	24.3	20	05/27/21 05:51	06/03/21 01:03	7439-96-5	
Selenium	<6.3	ug/L	21.2	6.3	20	05/27/21 05:51	06/03/21 01:03	7782-49-2	D3
Silver	<2.5	ug/L	10.0	2.5	20	05/27/21 05:51	06/03/21 01:03	7440-22-4	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/21 10:45	06/04/21 08:41	7439-97-6	
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	<0.0054	ug/L	0.027	0.0054	1	05/28/21 13:25	06/01/21 19:02	83-32-9	
Acenaphthylene	<0.0044	ug/L	0.022	0.0044	1	05/28/21 13:25	06/01/21 19:02	208-96-8	
Anthracene	<0.0093	ug/L	0.047	0.0093	1	05/28/21 13:25	06/01/21 19:02	120-12-7	
Benzo(a)anthracene	0.0087J	ug/L	0.034	0.0067	1	05/28/21 13:25	06/01/21 19:02	56-55-3	
Benzo(a)pyrene	0.010J	ug/L	0.047	0.0094	1	05/28/21 13:25	06/01/21 19:02	50-32-8	
Benzo(b)fluoranthene	0.030	ug/L	0.026	0.0051	1	05/28/21 13:25	06/01/21 19:02	205-99-2	
Benzo(g,h,i)perylene	0.020J	ug/L	0.030	0.0061	1	05/28/21 13:25	06/01/21 19:02	191-24-2	
Benzo(k)fluoranthene	0.012J	ug/L	0.034	0.0067	1	05/28/21 13:25	06/01/21 19:02	207-08-9	
Chrysene	0.027J	ug/L	0.058	0.012	1	05/28/21 13:25	06/01/21 19:02	218-01-9	
Dibenz(a,h)anthracene	<0.0089	ug/L	0.045	0.0089	1	05/28/21 13:25	06/01/21 19:02	53-70-3	
Fluoranthene	0.048	ug/L	0.048	0.0095	1	05/28/21 13:25	06/01/21 19:02	206-44-0	
Fluorene	<0.0071	ug/L	0.036	0.0071	1	05/28/21 13:25	06/01/21 19:02	86-73-7	
Indeno(1,2,3-cd)pyrene	0.016J	ug/L	0.079	0.016	1	05/28/21 13:25	06/01/21 19:02	193-39-5	
1-Methylnaphthalene	0.0068J	ug/L	0.026	0.0053	1	05/28/21 13:25	06/01/21 19:02	90-12-0	
2-Methylnaphthalene	<0.0044	ug/L	0.022	0.0044	1	05/28/21 13:25	06/01/21 19:02	91-57-6	
Naphthalene	<0.016	ug/L	0.082	0.016	1	05/28/21 13:25	06/01/21 19:02	91-20-3	
Phenanthrene	0.017J	ug/L	0.062	0.012	1	05/28/21 13:25	06/01/21 19:02	85-01-8	
Pyrene	0.037	ug/L	0.034	0.0068	1	05/28/21 13:25	06/01/21 19:02	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	46	%	39-120		1	05/28/21 13:25	06/01/21 19:02	321-60-8	
Terphenyl-d14 (S)	67	%	10-159		1	05/28/21 13:25	06/01/21 19:02	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		05/28/21 01:06	71-43-2	

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 052521016      Lab ID: 40227542001      Collected: 05/25/21 13:03      Received: 05/26/21 10:42      Matrix: Water</b>									
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 01:06	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/28/21 01:06	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/28/21 01:06	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 01:06	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/28/21 01:06	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/28/21 01:06	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/28/21 01:06	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	98	%	70-130		1		05/28/21 01:06	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		05/28/21 01:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		05/28/21 01:06	2199-69-1	
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	322	mg/L	40.0	8.9	20		06/10/21 02:07	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		06/07/21 13:10		

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: 052521017      Lab ID: 40227542002      Collected: 05/25/21 13:39      Received: 05/26/21 10:42      Matrix: Water</b>									
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	<0.58	ug/L	2.8	0.58	1		06/03/21 09:21	74-82-8	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic	<0.56	ug/L	2.0	0.56	2	05/27/21 05:51	06/03/21 01:10	7440-38-2	D3
Barium	106	ug/L	4.7	1.4	2	05/27/21 05:51	06/03/21 01:10	7440-39-3	
Cadmium	<0.30	ug/L	2.0	0.30	2	05/27/21 05:51	06/03/21 01:10	7440-43-9	D3
Chromium	<2.0	ug/L	6.8	2.0	2	05/27/21 05:51	06/03/21 01:10	7440-47-3	D3
Iron	<116	ug/L	500	116	2	05/27/21 05:51	06/03/21 01:10	7439-89-6	D3
Lead	<0.47	ug/L	2.0	0.47	2	05/27/21 05:51	06/03/21 01:10	7439-92-1	D3
Manganese	4.7J	ug/L	8.1	2.4	2	05/27/21 05:51	06/03/21 01:10	7439-96-5	D3
Selenium	<0.63	ug/L	2.1	0.63	2	05/27/21 05:51	06/03/21 01:10	7782-49-2	D3
Silver	<0.25	ug/L	1.0	0.25	2	05/27/21 05:51	06/03/21 01:10	7440-22-4	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/21 10:45	06/04/21 08:48	7439-97-6	

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

**Sample: 052521017**      **Lab ID: 40227542002**      Collected: 05/25/21 13:39      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM      Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acenaphthene	<0.0061	ug/L	0.030	0.0061	1	05/28/21 13:25	06/02/21 09:30	83-32-9	
Acenaphthylene	0.017J	ug/L	0.025	0.0050	1	05/28/21 13:25	06/02/21 09:30	208-96-8	
Anthracene	<0.010	ug/L	0.052	0.010	1	05/28/21 13:25	06/02/21 09:30	120-12-7	
Benzo(a)anthracene	0.037J	ug/L	0.038	0.0076	1	05/28/21 13:25	06/02/21 09:30	56-55-3	
Benzo(a)pyrene	0.058	ug/L	0.053	0.011	1	05/28/21 13:25	06/02/21 09:30	50-32-8	
Benzo(b)fluoranthene	0.13	ug/L	0.029	0.0057	1	05/28/21 13:25	06/02/21 09:30	205-99-2	
Benzo(g,h,i)perylene	0.079	ug/L	0.034	0.0068	1	05/28/21 13:25	06/02/21 09:30	191-24-2	
Benzo(k)fluoranthene	0.064	ug/L	0.038	0.0076	1	05/28/21 13:25	06/02/21 09:30	207-08-9	
Chrysene	0.12	ug/L	0.065	0.013	1	05/28/21 13:25	06/02/21 09:30	218-01-9	
Dibenz(a,h)anthracene	0.011J	ug/L	0.050	0.010	1	05/28/21 13:25	06/02/21 09:30	53-70-3	
Fluoranthene	0.20	ug/L	0.053	0.011	1	05/28/21 13:25	06/02/21 09:30	206-44-0	
Fluorene	0.0096J	ug/L	0.040	0.0080	1	05/28/21 13:25	06/02/21 09:30	86-73-7	
Indeno(1,2,3-cd)pyrene	0.065J	ug/L	0.088	0.018	1	05/28/21 13:25	06/02/21 09:30	193-39-5	
1-Methylnaphthalene	0.0081J	ug/L	0.030	0.0059	1	05/28/21 13:25	06/02/21 09:30	90-12-0	
2-Methylnaphthalene	0.0063J	ug/L	0.024	0.0049	1	05/28/21 13:25	06/02/21 09:30	91-57-6	
Naphthalene	0.027J	ug/L	0.092	0.018	1	05/28/21 13:25	06/02/21 09:30	91-20-3	
Phenanthrene	0.083	ug/L	0.069	0.014	1	05/28/21 13:25	06/02/21 09:30	85-01-8	
Pyrene	0.15	ug/L	0.038	0.0076	1	05/28/21 13:25	06/02/21 09:30	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	50	%	39-120		1	05/28/21 13:25	06/02/21 09:30	321-60-8	
Terphenyl-d14 (S)	83	%	10-159		1	05/28/21 13:25	06/02/21 09:30	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		05/28/21 01:26	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 01:26	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/28/21 01:26	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/28/21 01:26	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 01:26	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/28/21 01:26	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/28/21 01:26	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/28/21 01:26	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	97	%	70-130		1		05/28/21 01:26	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		05/28/21 01:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/28/21 01:26	2199-69-1	
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	253	mg/L	100	22.2	50		06/10/21 02:21	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.19J	mg/L	0.25	0.059	1		06/07/21 13:10		

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

**Sample: 052521018**      **Lab ID: 40227542003**      Collected: 05/25/21 14:08      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	<0.58	ug/L	2.8	0.58	1		06/03/21 09:28	74-82-8	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic	<0.56	ug/L	2.0	0.56	2	05/27/21 05:51	06/03/21 01:17	7440-38-2	D3
Barium	22.2	ug/L	4.7	1.4	2	05/27/21 05:51	06/03/21 01:17	7440-39-3	
Cadmium	<0.30	ug/L	2.0	0.30	2	05/27/21 05:51	06/03/21 01:17	7440-43-9	D3
Chromium	<2.0	ug/L	6.8	2.0	2	05/27/21 05:51	06/03/21 01:17	7440-47-3	D3
Iron	<116	ug/L	500	116	2	05/27/21 05:51	06/03/21 01:17	7439-89-6	D3
Lead	<0.47	ug/L	2.0	0.47	2	05/27/21 05:51	06/03/21 01:17	7439-92-1	D3
Manganese	<2.4	ug/L	8.1	2.4	2	05/27/21 05:51	06/03/21 01:17	7439-96-5	D3
Selenium	<0.63	ug/L	2.1	0.63	2	05/27/21 05:51	06/03/21 01:17	7782-49-2	D3
Silver	<0.25	ug/L	1.0	0.25	2	05/27/21 05:51	06/03/21 01:17	7440-22-4	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/21 10:45	06/04/21 08:55	7439-97-6	
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	<0.0063	ug/L	0.032	0.0063	1	05/31/21 09:36	06/02/21 09:48	83-32-9	
Acenaphthylene	<0.0052	ug/L	0.026	0.0052	1	05/31/21 09:36	06/02/21 09:48	208-96-8	
Anthracene	<0.011	ug/L	0.054	0.011	1	05/31/21 09:36	06/02/21 09:48	120-12-7	
Benzo(a)anthracene	0.011J	ug/L	0.039	0.0079	1	05/31/21 09:36	06/02/21 09:48	56-55-3	
Benzo(a)pyrene	0.014J	ug/L	0.055	0.011	1	05/31/21 09:36	06/02/21 09:48	50-32-8	
Benzo(b)fluoranthene	0.037	ug/L	0.030	0.0060	1	05/31/21 09:36	06/02/21 09:48	205-99-2	
Benzo(g,h,i)perylene	0.026J	ug/L	0.035	0.0071	1	05/31/21 09:36	06/02/21 09:48	191-24-2	
Benzo(k)fluoranthene	0.013J	ug/L	0.039	0.0079	1	05/31/21 09:36	06/02/21 09:48	207-08-9	
Chrysene	0.031J	ug/L	0.068	0.014	1	05/31/21 09:36	06/02/21 09:48	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.052	0.010	1	05/31/21 09:36	06/02/21 09:48	53-70-3	
Fluoranthene	0.056	ug/L	0.056	0.011	1	05/31/21 09:36	06/02/21 09:48	206-44-0	
Fluorene	<0.0083	ug/L	0.042	0.0083	1	05/31/21 09:36	06/02/21 09:48	86-73-7	
Indeno(1,2,3-cd)pyrene	0.019J	ug/L	0.092	0.018	1	05/31/21 09:36	06/02/21 09:48	193-39-5	
1-Methylnaphthalene	<0.0061	ug/L	0.031	0.0061	1	05/31/21 09:36	06/02/21 09:48	90-12-0	
2-Methylnaphthalene	<0.0051	ug/L	0.026	0.0051	1	05/31/21 09:36	06/02/21 09:48	91-57-6	
Naphthalene	<0.019	ug/L	0.095	0.019	1	05/31/21 09:36	06/02/21 09:48	91-20-3	
Phenanthrene	0.019J	ug/L	0.072	0.014	1	05/31/21 09:36	06/02/21 09:48	85-01-8	
Pyrene	0.042	ug/L	0.040	0.0080	1	05/31/21 09:36	06/02/21 09:48	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	39-120		1	05/31/21 09:36	06/02/21 09:48	321-60-8	
Terphenyl-d14 (S)	88	%	10-159		1	05/31/21 09:36	06/02/21 09:48	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		05/28/21 01:46	71-43-2	

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

**Sample: 052521018**      **Lab ID: 40227542003**      Collected: 05/25/21 14:08      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 01:46	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/28/21 01:46	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/28/21 01:46	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 01:46	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/28/21 01:46	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/28/21 01:46	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/28/21 01:46	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	98	%	70-130		1		05/28/21 01:46	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		05/28/21 01:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/28/21 01:46	2199-69-1	

<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	1620	mg/L	100	22.2	50		06/10/21 02:36	14808-79-8	

<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.25	mg/L	0.25	0.059	1		06/07/21 13:11		

**Sample: 052521019**      **Lab ID: 40227542004**      Collected: 05/25/21 14:59      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	2.6J	ug/L	2.8	0.58	1		06/03/21 09:35	74-82-8	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic	<1.4	ug/L	5.0	1.4	5	05/27/21 05:51	06/03/21 01:24	7440-38-2	D3
Barium	279	ug/L	11.6	3.5	5	05/27/21 05:51	06/03/21 01:24	7440-39-3	
Cadmium	<0.76	ug/L	5.0	0.76	5	05/27/21 05:51	06/03/21 01:24	7440-43-9	D3
Chromium	<5.1	ug/L	17.0	5.1	5	05/27/21 05:51	06/03/21 01:24	7440-47-3	D3
Iron	<290	ug/L	1250	290	5	05/27/21 05:51	06/03/21 01:24	7439-89-6	D3
Lead	<1.2	ug/L	5.0	1.2	5	05/27/21 05:51	06/03/21 01:24	7439-92-1	D3
Manganese	116	ug/L	20.2	6.1	5	05/27/21 05:51	06/03/21 01:24	7439-96-5	
Selenium	<1.6	ug/L	5.3	1.6	5	05/27/21 05:51	06/03/21 01:24	7782-49-2	D3
Silver	<0.64	ug/L	2.5	0.64	5	05/27/21 05:51	06/03/21 01:24	7440-22-4	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/21 10:45	06/04/21 08:57	7439-97-6	

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

**Sample: 052521019**      **Lab ID: 40227542004**      Collected: 05/25/21 14:59      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM      Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acenaphthene	<0.0059	ug/L	0.029	0.0059	1	05/31/21 09:36	06/02/21 10:07	83-32-9	
Acenaphthylene	<0.0048	ug/L	0.024	0.0048	1	05/31/21 09:36	06/02/21 10:07	208-96-8	
Anthracene	<0.010	ug/L	0.051	0.010	1	05/31/21 09:36	06/02/21 10:07	120-12-7	
Benzo(a)anthracene	<0.0073	ug/L	0.037	0.0073	1	05/31/21 09:36	06/02/21 10:07	56-55-3	
Benzo(a)pyrene	<0.010	ug/L	0.051	0.010	1	05/31/21 09:36	06/02/21 10:07	50-32-8	
Benzo(b)fluoranthene	0.012J	ug/L	0.028	0.0056	1	05/31/21 09:36	06/02/21 10:07	205-99-2	
Benzo(g,h,i)perylene	<0.0066	ug/L	0.033	0.0066	1	05/31/21 09:36	06/02/21 10:07	191-24-2	
Benzo(k)fluoranthene	<0.0073	ug/L	0.037	0.0073	1	05/31/21 09:36	06/02/21 10:07	207-08-9	
Chrysene	<0.013	ug/L	0.063	0.013	1	05/31/21 09:36	06/02/21 10:07	218-01-9	
Dibenz(a,h)anthracene	<0.0097	ug/L	0.049	0.0097	1	05/31/21 09:36	06/02/21 10:07	53-70-3	
Fluoranthene	0.023J	ug/L	0.052	0.010	1	05/31/21 09:36	06/02/21 10:07	206-44-0	
Fluorene	<0.0077	ug/L	0.039	0.0077	1	05/31/21 09:36	06/02/21 10:07	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.017	ug/L	0.086	0.017	1	05/31/21 09:36	06/02/21 10:07	193-39-5	
1-Methylnaphthalene	<0.0057	ug/L	0.029	0.0057	1	05/31/21 09:36	06/02/21 10:07	90-12-0	
2-Methylnaphthalene	<0.0048	ug/L	0.024	0.0048	1	05/31/21 09:36	06/02/21 10:07	91-57-6	
Naphthalene	<0.018	ug/L	0.089	0.018	1	05/31/21 09:36	06/02/21 10:07	91-20-3	
Phenanthrene	<0.013	ug/L	0.067	0.013	1	05/31/21 09:36	06/02/21 10:07	85-01-8	
Pyrene	0.017J	ug/L	0.037	0.0074	1	05/31/21 09:36	06/02/21 10:07	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	62	%	39-120		1	05/31/21 09:36	06/02/21 10:07	321-60-8	
Terphenyl-d14 (S)	85	%	10-159		1	05/31/21 09:36	06/02/21 10:07	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		05/28/21 02:05	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 02:05	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/28/21 02:05	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/28/21 02:05	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 02:05	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/28/21 02:05	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/28/21 02:05	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/28/21 02:05	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	97	%	70-130		1		05/28/21 02:05	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		05/28/21 02:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/28/21 02:05	2199-69-1	
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	104	mg/L	20.0	4.4	10		06/10/21 02:51	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.47	mg/L	0.25	0.059	1		06/07/21 13:13		

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 387029 Analysis Method: EPA 8015B Modified  
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2232604 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.58	2.8	06/03/21 08:37	

LABORATORY CONTROL SAMPLE & LCSD: 2232605 2232606

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	25.8	26.2	90	92	80-121	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2232607 2232608

Parameter	Units	40227543003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	472	286	286	1010	1040	190	198	10-200	2	20	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

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QC Batch:	387040	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

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METHOD BLANK: 2232645 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	06/04/21 08:37	

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LABORATORY CONTROL SAMPLE: 2232646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	85-115	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2232647 2232648

Parameter	Units	40227542001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.066	5	5	4.6	4.7	93	94	85-115	1	20	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 386501 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2230154 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.28	1.0	06/02/21 22:07	
Barium	ug/L	<0.70	2.3	06/02/21 22:07	
Cadmium	ug/L	<0.15	1.0	06/02/21 22:07	
Chromium	ug/L	<1.0	3.4	06/02/21 22:07	
Iron	ug/L	<58.0	250	06/02/21 22:07	
Lead	ug/L	<0.24	1.0	06/02/21 22:07	
Manganese	ug/L	<1.2	4.0	06/02/21 22:07	
Selenium	ug/L	<0.32	1.1	06/02/21 22:07	
Silver	ug/L	<0.13	0.50	06/02/21 22:07	

LABORATORY CONTROL SAMPLE: 2230155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	506	101	80-120	
Barium	ug/L	500	515	103	80-120	
Cadmium	ug/L	500	531	106	80-120	
Chromium	ug/L	500	511	102	80-120	
Iron	ug/L	5000	5210	104	80-120	
Lead	ug/L	500	480	96	80-120	
Manganese	ug/L	500	500	100	80-120	
Selenium	ug/L	500	520	104	80-120	
Silver	ug/L	250	248	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230156 2230157

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40227539001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic	ug/L	4.5J	500	500	513	499	102	99	75-125	3	20	
Barium	ug/L	544	500	500	1050	1020	101	96	75-125	3	20	
Cadmium	ug/L	0.79J	500	500	508	501	102	100	75-125	1	20	
Chromium	ug/L	<5.1	500	500	510	505	102	101	75-125	1	20	
Iron	ug/L	47100	5000	5000	52200	51400	102	86	75-125	2	20	
Lead	ug/L	<1.2	500	500	499	494	100	99	75-125	1	20	
Manganese	ug/L	2160	500	500	2640	2600	96	88	75-125	1	20	
Selenium	ug/L	<1.6	500	500	515	506	103	101	75-125	2	20	
Silver	ug/L	<0.64	250	250	233	229	93	92	75-125	2	20	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 386492 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2230146 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/27/21 17:34	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/27/21 17:34	
Benzene	ug/L	<0.30	1.0	05/27/21 17:34	
Ethylbenzene	ug/L	<0.33	1.0	05/27/21 17:34	
m&p-Xylene	ug/L	<0.70	2.0	05/27/21 17:34	
o-Xylene	ug/L	<0.35	1.0	05/27/21 17:34	
Toluene	ug/L	<0.29	1.0	05/27/21 17:34	
Xylene (Total)	ug/L	<1.0	3.0	05/27/21 17:34	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	05/27/21 17:34	
4-Bromofluorobenzene (S)	%	101	70-130	05/27/21 17:34	
Toluene-d8 (S)	%	100	70-130	05/27/21 17:34	

LABORATORY CONTROL SAMPLE: 2230147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	57.8	116	70-132	
Ethylbenzene	ug/L	50	61.5	123	80-123	
m&p-Xylene	ug/L	100	120	120	70-130	
o-Xylene	ug/L	50	58.7	117	70-130	
Toluene	ug/L	50	57.1	114	80-121	
Xylene (Total)	ug/L	150	179	119	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230310 2230311

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40227535021 Result	Spike Conc.	Spike Conc.	MS Result								
Benzene	ug/L	<0.30	50	50	54.6	58.7	109	117	70-132	7	20		
Ethylbenzene	ug/L	<0.33	50	50	57.1	63.0	114	126	80-123	10	20	M1	
m&p-Xylene	ug/L	<0.70	100	100	113	124	113	124	70-130	9	20		
o-Xylene	ug/L	<0.35	50	50	55.2	61.2	110	122	70-130	10	20		
Toluene	ug/L	<0.29	50	50	53.5	58.6	107	117	80-121	9	20		
Xylene (Total)	ug/L	<1.0	150	150	168	185	112	124	70-130	10	20		
1,2-Dichlorobenzene-d4 (S)	%						101	98	70-130				
4-Bromofluorobenzene (S)	%						106	104	70-130				

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230310 2230311													
Parameter	Units	40227535021 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.		Result		Result					
Toluene-d8 (S)	%							97	98	70-130			

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 386669 Analysis Method: EPA 8270E by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270E Water PAH  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227542001, 40227542002

METHOD BLANK: 2231110 Matrix: Water

Associated Lab Samples: 40227542001, 40227542002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/01/21 07:59	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/01/21 07:59	
Acenaphthene	ug/L	<0.0061	0.030	06/01/21 07:59	
Acenaphthylene	ug/L	<0.0050	0.025	06/01/21 07:59	
Anthracene	ug/L	<0.010	0.052	06/01/21 07:59	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/01/21 07:59	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/01/21 07:59	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/01/21 07:59	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/01/21 07:59	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/01/21 07:59	
Chrysene	ug/L	<0.013	0.065	06/01/21 07:59	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/01/21 07:59	
Fluoranthene	ug/L	<0.011	0.053	06/01/21 07:59	
Fluorene	ug/L	<0.0080	0.040	06/01/21 07:59	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/01/21 07:59	
Naphthalene	ug/L	<0.018	0.092	06/01/21 07:59	
Phenanthrene	ug/L	<0.014	0.069	06/01/21 07:59	
Pyrene	ug/L	<0.0076	0.038	06/01/21 07:59	
2-Fluorobiphenyl (S)	%	62	39-120	06/01/21 07:59	
Terphenyl-d14 (S)	%	97	10-159	06/01/21 07:59	

LABORATORY CONTROL SAMPLE: 2231111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.5	77	37-120	
2-Methylnaphthalene	ug/L	2	1.5	77	38-120	
Acenaphthene	ug/L	2	1.5	76	49-120	
Acenaphthylene	ug/L	2	1.5	74	43-85	
Anthracene	ug/L	2	1.5	73	57-110	
Benzo(a)anthracene	ug/L	2	1.6	80	47-118	
Benzo(a)pyrene	ug/L	2	1.6	81	70-120	
Benzo(b)fluoranthene	ug/L	2	1.6	82	54-97	
Benzo(g,h,i)perylene	ug/L	2	0.63	32	26-74	
Benzo(k)fluoranthene	ug/L	2	1.8	91	73-126	
Chrysene	ug/L	2	1.9	95	75-151	
Dibenz(a,h)anthracene	ug/L	2	0.47	24	13-72	
Fluoranthene	ug/L	2	1.8	89	63-120	
Fluorene	ug/L	2	1.6	78	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	69	51-101	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

LABORATORY CONTROL SAMPLE: 2231111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.5	76	41-120	
Phenanthrene	ug/L	2	1.7	83	47-100	
Pyrene	ug/L	2	1.8	90	70-128	
2-Fluorobiphenyl (S)	%			79	39-120	
Terphenyl-d14 (S)	%			106	10-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2231112 2231113

Parameter	Units	40227543003		2231112		2231113		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1-Methylnaphthalene	ug/L	<0.0056	2	1.9	1.1	1.1	53	57	16-120	5	28		
2-Methylnaphthalene	ug/L	0.0048J	2	1.9	1.0	1.1	52	56	29-120	4	31		
Acenaphthene	ug/L	<0.0058	2	1.9	1.1	1.1	55	59	33-120	3	30		
Acenaphthylene	ug/L	<0.0047	2	1.9	1.0	1.1	53	56	21-85	3	26		
Anthracene	ug/L	<0.010	2	1.9	1.1	1.1	55	55	16-114	4	36		
Benzo(a)anthracene	ug/L	<0.0072	2	1.9	1.2	1.1	60	57	10-118	7	35		
Benzo(a)pyrene	ug/L	<0.010	2	1.9	1.1	1.1	56	58	10-120	1	37		
Benzo(b)fluoranthene	ug/L	<0.0055	2	1.9	1.1	1.1	58	56	10-97	5	36		
Benzo(g,h,i)perylene	ug/L	<0.0065	2	1.9	0.48	0.44	24	23	10-74	9	45		
Benzo(k)fluoranthene	ug/L	<0.0072	2	1.9	1.2	1.2	61	62	10-126	1	41		
Chrysene	ug/L	<0.012	2	1.9	1.4	1.4	70	72	10-161	0	30		
Dibenz(a,h)anthracene	ug/L	<0.0095	2	1.9	0.44	0.43	22	23	10-72	2	50		
Fluoranthene	ug/L	<0.010	2	1.9	1.4	1.3	69	68	35-120	5	33		
Fluorene	ug/L	<0.0076	2	1.9	1.1	1.1	57	59	17-120	0	33		
Indeno(1,2,3-cd)pyrene	ug/L	<0.017	2	1.9	0.82	0.76	42	39	10-101	8	41		
Naphthalene	ug/L	<0.017	2	1.9	1.0	1.1	52	56	24-120	4	30		
Phenanthrene	ug/L	<0.013	2	1.9	1.3	1.2	65	64	15-100	4	30		
Pyrene	ug/L	0.011J	2	1.9	1.4	1.4	70	70	14-137	4	31		
2-Fluorobiphenyl (S)	%						57	60	39-120				
Terphenyl-d14 (S)	%						81	79	10-159				

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 386717 Analysis Method: EPA 8270E by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270E Water PAH  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227542003, 40227542004

METHOD BLANK: 2231609 Matrix: Water

Associated Lab Samples: 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/01/21 08:36	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/01/21 08:36	
Acenaphthene	ug/L	<0.0061	0.030	06/01/21 08:36	
Acenaphthylene	ug/L	<0.0050	0.025	06/01/21 08:36	
Anthracene	ug/L	<0.010	0.052	06/01/21 08:36	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/01/21 08:36	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/01/21 08:36	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/01/21 08:36	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/01/21 08:36	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/01/21 08:36	
Chrysene	ug/L	<0.013	0.065	06/01/21 08:36	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/01/21 08:36	
Fluoranthene	ug/L	<0.011	0.053	06/01/21 08:36	
Fluorene	ug/L	<0.0080	0.040	06/01/21 08:36	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/01/21 08:36	
Naphthalene	ug/L	<0.018	0.092	06/01/21 08:36	
Phenanthrene	ug/L	<0.014	0.069	06/01/21 08:36	
Pyrene	ug/L	<0.0076	0.038	06/01/21 08:36	
2-Fluorobiphenyl (S)	%	54	39-120	06/01/21 08:36	
Terphenyl-d14 (S)	%	85	10-159	06/01/21 08:36	

LABORATORY CONTROL SAMPLE: 2231610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.5	74	37-120	
2-Methylnaphthalene	ug/L	2	1.5	74	38-120	
Acenaphthene	ug/L	2	1.4	72	49-120	
Acenaphthylene	ug/L	2	1.4	71	43-85	
Anthracene	ug/L	2	1.3	67	57-110	
Benzo(a)anthracene	ug/L	2	1.5	73	47-118	
Benzo(a)pyrene	ug/L	2	1.6	78	70-120	
Benzo(b)fluoranthene	ug/L	2	1.5	75	54-97	
Benzo(g,h,i)perylene	ug/L	2	0.59	29	26-74	
Benzo(k)fluoranthene	ug/L	2	1.7	85	73-126	
Chrysene	ug/L	2	1.8	89	75-151	
Dibenz(a,h)anthracene	ug/L	2	0.45	22	13-72	
Fluoranthene	ug/L	2	1.7	85	63-120	
Fluorene	ug/L	2	1.5	74	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.2	62	51-101	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

LABORATORY CONTROL SAMPLE: 2231610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.5	73	41-120	
Phenanthrene	ug/L	2	1.6	79	47-100	
Pyrene	ug/L	2	1.7	86	70-128	
2-Fluorobiphenyl (S)	%			72	39-120	
Terphenyl-d14 (S)	%			106	10-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2231611 2231612

Parameter	Units	40227690005		2231611		2231612		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
1-Methylnaphthalene	ug/L	<0.0054	1.9	1.9	1.0	0.98	56	53	16-120	7	28		
2-Methylnaphthalene	ug/L	<0.0045	1.9	1.9	1.1	0.98	56	53	29-120	7	31		
Acenaphthene	ug/L	<0.0056	1.9	1.9	1.1	1.0	57	55	33-120	5	30		
Acenaphthylene	ug/L	<0.0046	1.9	1.9	1.1	0.98	56	53	21-85	8	26		
Anthracene	ug/L	<0.0096	1.9	1.9	1.2	1.1	64	57	16-114	13	36		
Benzo(a)anthracene	ug/L	<0.0069	1.9	1.9	1.1	1.0	60	56	10-118	8	35		
Benzo(a)pyrene	ug/L	<0.0097	1.9	1.9	1.1	0.99	58	54	10-120	9	37		
Benzo(b)fluoranthene	ug/L	<0.0053	1.9	1.9	1.1	1.0	57	55	10-97	6	36		
Benzo(g,h,i)perylene	ug/L	<0.0062	1.9	1.9	0.42	0.39	22	21	10-74	5	45		
Benzo(k)fluoranthene	ug/L	<0.0069	1.9	1.9	1.1	0.97	57	53	10-126	9	41		
Chrysene	ug/L	<0.012	1.9	1.9	1.3	1.2	71	67	10-161	9	30		
Dibenz(a,h)anthracene	ug/L	<0.0092	1.9	1.9	0.42	0.40	22	21	10-72	5	50		
Fluoranthene	ug/L	<0.0098	1.9	1.9	1.3	1.2	68	64	35-120	8	33		
Fluorene	ug/L	<0.0073	1.9	1.9	1.1	1.1	59	58	17-120	3	33		
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	1.9	1.9	0.74	0.68	39	37	10-101	9	41		
Naphthalene	ug/L	<0.017	1.9	1.9	1.0	0.93	55	50	24-120	11	30		
Phenanthrene	ug/L	<0.013	1.9	1.9	1.2	1.2	64	62	15-100	5	30		
Pyrene	ug/L	<0.0070	1.9	1.9	1.4	1.3	72	68	14-137	8	31		
2-Fluorobiphenyl (S)	%						57	61	39-120				
Terphenyl-d14 (S)	%						80	78	10-159				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 387453 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2234911 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	06/09/21 09:59	

LABORATORY CONTROL SAMPLE: 2234912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.4	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234913 2234914

Parameter	Units	40227539010		2234913		2234914		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Sulfate	mg/L	138	200	200	200	350	350	106	106	90-110	0	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234915 2234916

Parameter	Units	40227543003		2234915		2234916		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Sulfate	mg/L	46.5	100	100	100	151	149	105	103	90-110	1	15

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 387271 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2234149 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	06/07/21 13:05	

LABORATORY CONTROL SAMPLE: 2234150

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234151 2234152

Parameter	Units	2234151		2234152		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40227543003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.1	2.1	86	85	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234153 2234154

Parameter	Units	2234153		2234154		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		50288421004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Nitrogen, NO2 plus NO3	mg/L	9.2	2.5	2.5	11.6	11.6	96	97	90-110	0	20	

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## QUALIFIERS

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

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

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40227542001	052521016	EPA 8015B Modified	387029		
40227542002	052521017	EPA 8015B Modified	387029		
40227542003	052521018	EPA 8015B Modified	387029		
40227542004	052521019	EPA 8015B Modified	387029		
40227542001	052521016	EPA 3010	386501	EPA 6020	386565
40227542002	052521017	EPA 3010	386501	EPA 6020	386565
40227542003	052521018	EPA 3010	386501	EPA 6020	386565
40227542004	052521019	EPA 3010	386501	EPA 6020	386565
40227542001	052521016	EPA 7470	387040	EPA 7470	387083
40227542002	052521017	EPA 7470	387040	EPA 7470	387083
40227542003	052521018	EPA 7470	387040	EPA 7470	387083
40227542004	052521019	EPA 7470	387040	EPA 7470	387083
40227542001	052521016	EPA 3510	386669	EPA 8270E by SIM	386705
40227542002	052521017	EPA 3510	386669	EPA 8270E by SIM	386705
40227542003	052521018	EPA 3510	386717	EPA 8270E by SIM	386724
40227542004	052521019	EPA 3510	386717	EPA 8270E by SIM	386724
40227542001	052521016	EPA 8260	386492		
40227542002	052521017	EPA 8260	386492		
40227542003	052521018	EPA 8260	386492		
40227542004	052521019	EPA 8260	386492		
40227542001	052521016	EPA 300.0	387453		
40227542002	052521017	EPA 300.0	387453		
40227542003	052521018	EPA 300.0	387453		
40227542004	052521019	EPA 300.0	387453		
40227542001	052521016	EPA 353.2	387271		
40227542002	052521017	EPA 353.2	387271		
40227542003	052521018	EPA 353.2	387271		
40227542004	052521019	EPA 353.2	387271		

### REPORT OF LABORATORY ANALYSIS

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Dropoff  
AT  
Pace

# CHAIN-OF-CUSTODY / Analytical Request Document

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

70712.0524.001

40227542

Page 32 of 34

**Section A**

**Required Client Information:**

Company: Ramboll  
 Address: 234 W. Florida St, 5th Floor  
 Milwaukee, WI 53204  
 Email: dglasford@ramboll.com  
 Phone: 262-749-4512  
 Requested Due Date: 4/4-3/5-3/3

**Section B**

**Required Project Information:**

Report To: Glasford, Duncan  
 Copy To: [Handwritten]  
 Purchase Order #: [Blank]  
 Project Name: Green Bay MGP  
 Project #: [Blank]

**Section C**

**Invoice Information:**

Attention: Accounts Payable / Frank Dombrowski  
 Company Name: WEC Business Services LLC  
 Address: 10 BOX 19800, Green Bay WI 54307  
 Pace Quote: [Blank]  
 Pace Project Manager: brian.basten@pacelabs.com  
 Pace Profile #: 4543

414-221-2156

Page: 2 of 3

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPI)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)			
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	BTEX-TMB's	PAH by B270 SIM (low vol)	Nitrate + Nitrite	Metals	Sulfate	Methane by 8016B		Trip BLANK		
				DATE	TIME	DATE	TIME																					
1	052521013	WT6			5-25	1121	11	X	X	X	X						X	X	X	X	X							
2	052521014					1126	11	X	X	X	X						X	X	X	X	X							0
3	052521015					1157	11	X	X	X	X						X	X	X	X	X							0
4	052521016					1303	11	X	X	X	X						X	X	X	X	X							0
5	052521017					1339	11	X	X	X	X						X	X	X	X	X							001
6	052521018					1408	11	X	X	X	X						X	X	X	X	X							002
7	052521019					1459	11	X	X	X	X						X	X	X	X	X							003
8	052521020					1551	11	X	X	X	X						X	X	X	X	X							004
9	052521021					1625	11	X	X	X	X						X	X	X	X	X							4
10	052521022					1700	6	X		X	X						X	X	X	X	X							4
1	052621023					753	11	X	X	X	X						X	X	X	X	X							1
2	052621024					832	11	X	X	X	X						X	X	X	X	X							1

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
Level 2 Metals - As, B, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn 1,4-Trimethylbenzene 3,5-Trimethylbenzene	R. Dombrowski (Ramboll)	5-26-21	1042	[Signature]	5/26/21	1042	4.5	Y	N	Y	

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Nate Puder  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed: 5-26-21

TEMP in C  
 Received on ice (Y/N)  
 Custody Sealed (Y/N)  
 Cooler (Y/N)  
 Samples Intact (Y/N)





Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document No.:  
**ENV-FRM-GBAY-0014-Rev.00**

Document Revised: 26Mar2020  
 Author:  
 Pace Green Bay Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

Client Name: Ramboll

Project #: \_\_\_\_\_

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_

**WO#: 40227542**



Tracking #: \_\_\_\_\_  
 Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
 Custody Seal on Samples Present:  yes  no Seals intact:  yes  no  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer Used SR-90 Type of Ice:  Wet  Blue  Dry  None  
 Cooler Temperature Uncorr: 5.0 / Corr: 4.5  Samples on ice, cooling process has begun

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

Person examining contents:  
 Date: 5/26/21 / Initials: [Signature]  
 Labeled By Initials: [Signature]

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

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

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

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



Wisconsin Public Service Corporation

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

[www.wisconsinpublicservice.com](http://www.wisconsinpublicservice.com)

July 27, 2021

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

**RE: Recent Sampling Results**

Wisconsin Public Service Corporation – Former Green Bay Manufactured Gas Plant (MGP)  
700 North Adams Street, BRRTS# 0205000254

Dear Mr. Grenier,

WEC Business Services (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 700 North Adams Street is providing results of groundwater samples collected as part of routine monitoring (MW-407, MW-417, MW-418) collected in May of 2021, as part of site characterization. Wisconsin Administrative Code Chapter NR716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

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

We appreciate your cooperation with environmental sampling activities on your property. If you need additional information, please contact Sarah Krueger from the WDNR at 920-662-5443 or myself at 414-221-2156.

Sincerely,

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

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

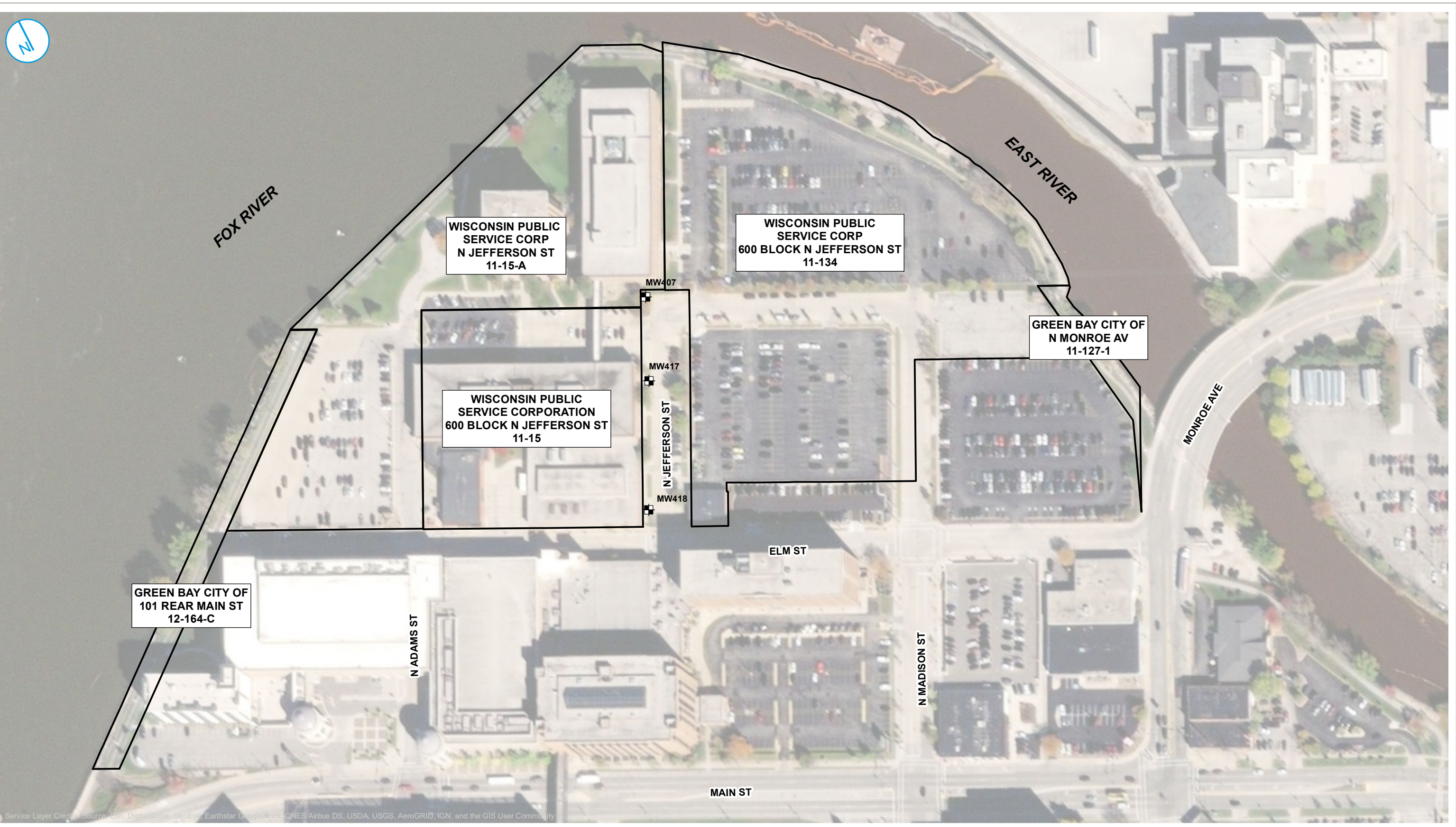
Enc: Figure 1. City of Green Bay  
Table 1. May 2021 Groundwater Analytical Results for City of Green Bay  
Laboratory Data Reports – 40227542\_frc





Mr. Steven M. Grenier, P.E.  
City of Green Bay  
July 27, 2021  
Page 2

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

## FIGURES



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  MONITORING WELL LOCATION
-  PROPERTY LINE



**CITY OF GREEN BAY**  
 BRRTS# 02-05-000254

**FIGURE 01**

**FORMER GREEN BAY MANUFACTURED GAS PLANT**  
**WISCONSIN PUBLIC SERVICE CORPORATION**  
 GREEN BAY, WISCONSIN

RAMBOLL US CORPORATION  
 A RAMBOLL COMPANY



## TABLES





**Table 1. May 2021 Groundwater Analytical Results for the City of Green Bay**

June 2021 Third Party Notification  
 Wisconsin Public Service Corporation  
 Green Bay Former Manufactured Gas Plant Site  
 700 N Adams St, Green Bay, Wisconsin  
 BRRTS#: 02-05-000254 USEPA#: WIN000509948

9-digit Code	Sample Location	Sample Date	Metal		Metal		Metal		Metal		Metal		Metal		Metal		Inorganic		Inorganic		Organic		Field		Field		Field		Field		Field		Field									
			Arsenic, Total		Barium, Total		Cadmium, Total		Chromium, Total		Iron, Total		Lead, Total		Manganese, Total		Mercury, Total		Selenium, Total		Silver, Total		Nitrogen, NO2 + NO3, Total		Sulfate, Total		Methane		Dissolved oxygen		Groundwater, depth to		Oxidation Reduction Potential		pH, Field		Specific Conductance, Field		Temperature, Water		Turbidity, Quantitative	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag				
Reporting Units:			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		mg/L		feet		millivolts		s.u.		µS/cm		Deg C		NTUs					
<b>WI Groundwater ES:</b>			<b>10</b>		<b>2,000</b>		<b>5</b>		<b>100</b>		<b>300</b>		<b>15</b>		<b>300</b>		<b>2</b>		<b>50</b>		<b>50</b>		<b>10,000</b>		<b>250,000</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>			
<b>WI Groundwater PAL:</b>			<u>1</u>		<u>400</u>		<u>0.5</u>		<u>10</u>		<u>150</u>		<u>1.5</u>		<u>60</u>		<u>0.2</u>		<u>10</u>		<u>10</u>		<u>2,000</u>		<u>125,000</u>		<u>NS</u>		<u>NS</u>		<u>NS</u>		<u>NS</u>		<u>NS</u>		<u>NS</u>		<u>NS</u>			
052421001	MW-418	05/24/2021	<u>1.1</u>	J	307		<u>0.55</u>	J	2.0	U	116	U	0.72	J	<b>389</b>		0.066	U	5.1		0.25	U	<u>2,700</u>		70,500		30.0		6.81		6.14		200.2		6.76		4956.7		16.23		0.00	
052421002	MW-417	05/24/2021	<u>1.2</u>	J	<u>473</u>		0.30	U	2.0	U	<b>7,740</b>		0.47	U	<b>689</b>		0.066	U	0.63	U	0.25	U	59	U	16,000		262		0.87		4.97		-70.5		6.80		10661.9		16.23		101.31	
052421003	MW-407	05/24/2021	<u>3.0</u>		301		<u>0.56</u>	J	2.0	U	<b>9,950</b>		0.60	J	<b>671</b>		0.066	U	0.94	J	0.25	U	59	U	46,500		472		0.54		3.75		-95.5		7.06		4243.7		16.11		0.00	

[O:CMD 7/13/21, C:LDH 7/13/2021, C:SJM 7/14/21]

Sorted by 9-digit Code

<b>Bold</b>	attains or exceeds the WI Groundwater ES
<u>Underline</u>	attains or exceeds the WI Groundwater PAL

**Results & Flags:**

\* = Level of Detection (LOD) meets or exceeds the PAL and/or the ES Groundwater Criteria  
 J = Estimated Concentration  
 U = Concentration was not detected above the reported limit

**Acronyms:**

µg/L = micrograms per liter  
 BRRTS = Bureau for Remediation and Redevelopment Tracking System (Wisconsin Department of Natural Resources (WDNR))  
 ES = Enforcement Standard  
 NO2 + NO3 = nitrite plus nitrate  
 NS = No Standard  
 PAH = Polycyclic Aromatic Hydrocarbon  
 PAL = Preventive Action Limit  
 PVOC = Petroleum Volatile Organic Compound  
 USEPA = United States Environmental Protection Agency  
 VOC = Volatile Organic Compound  
 WI = Wisconsin

**Superscripts:**

1. Total Trimethylbenzenes were calculated by Ramboll as follows:
  - a. Where no detections were observed, the sum of the reporting limits is presented.
  - b. Where detections were observed, only the detected results were added together for the total summation.
  - c. Analytes used for the calculation are 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

**Screening Levels:**

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020.

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

## **LABORATORY REPORTS**

June 10, 2021

Staci Goetz  
Ramboll US Consulting, Inc.  
234 W. Florida Street  
Fifth Floor  
Milwaukee, WI 53204

RE: Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

Dear Staci Goetz:

Enclosed are the analytical results for sample(s) received by the laboratory on May 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



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

Enclosures

cc: Phil Brochocki, Ramboll  
NRT Data, Ramboll  
Eric Hritsuk, OBG  
Robert Paulson, We Energies  
Kyle Schaefer, Ramboll Americas  
Dan Vachon, O'Brien & Gere Engineers, Inc Integrys WI  
Steve Wiskes, Ramboll



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
40227542001	052521016	Water	05/25/21 13:03	05/26/21 10:42
40227542002	052521017	Water	05/25/21 13:39	05/26/21 10:42
40227542003	052521018	Water	05/25/21 14:08	05/26/21 10:42
40227542004	052521019	Water	05/25/21 14:59	05/26/21 10:42

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40227542001	052521016	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	9
		EPA 7470	AJT	1
		EPA 8270E by SIM	JJB	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40227542002	052521017	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	9
		EPA 7470	AJT	1
		EPA 8270E by SIM	JJB	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40227542003	052521018	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	9
		EPA 7470	AJT	1
		EPA 8270E by SIM	JJB	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1
40227542004	052521019	EPA 8015B Modified	ALD	1
		EPA 6020	KXS	9
		EPA 7470	AJT	1
		EPA 8270E by SIM	JJB	20
		EPA 8260	LAP	11
		EPA 300.0	HMB	1
		EPA 353.2	DAW	1

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 8015B Modified

**Description:** Methane, Ethane, Ethene GCV

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 8015B Modified by Pace Analytical Services Green Bay. 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.

**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: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

---

**Method:** EPA 6020  
**Description:** 6020 MET ICPMS  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** June 10, 2021

### General Information:

4 samples were analyzed for EPA 6020 by Pace Analytical Services Green Bay. 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: 386501

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

- 052521016 (Lab ID: 40227542001)
  - Silver
  - Arsenic
  - Cadmium
  - Chromium
  - Lead
  - Selenium
- 052521017 (Lab ID: 40227542002)
  - Silver
  - Arsenic

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 6020

**Description:** 6020 MET ICPMS

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

Analyte Comments:

QC Batch: 386501

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

- 052521017 (Lab ID: 40227542002)

- Cadmium
- Chromium
- Iron
- Manganese
- Lead
- Selenium

- 052521018 (Lab ID: 40227542003)

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

- 052521019 (Lab ID: 40227542004)

- Silver
- Arsenic
- Cadmium
- Chromium
- Iron
- Lead
- Selenium

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

---

**Method:** EPA 7470  
**Description:** 7470 Mercury  
**Client:** O'Brien & Gere Engineers, Inc Integrys WI  
**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 7470 by Pace Analytical Services Green Bay. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 8270E by SIM

**Description:** 8270E MSSV PAH

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Green Bay. 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: 70712 GREEN BAY MGP

Pace Project No.: 40227542

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**Method:** EPA 8260

**Description:** 8260 MSV UST

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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: 386492

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40227535021

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

- MSD (Lab ID: 2230311)
  - Ethylbenzene

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 300.0

**Description:** 300.0 IC Anions

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

**General Information:**

4 samples were analyzed for EPA 300.0 by Pace Analytical Services Green Bay. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

---

**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.

**Client:** O'Brien & Gere Engineers, Inc Integrys WI

**Date:** June 10, 2021

### General Information:

4 samples were analyzed for EPA 353.2 by Pace Analytical Services Green Bay. 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: 387271

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40227543003,50288421004

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

- MS (Lab ID: 2234151)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>
- MSD (Lab ID: 2234152)
  - Nitrogen, NO<sub>2</sub> plus NO<sub>3</sub>

### 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: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

**Sample: 052521016**      **Lab ID: 40227542001**      Collected: 05/25/21 13:03      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	21.3	ug/L	2.8	0.58	1		06/03/21 09:14	74-82-8	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic	<5.6	ug/L	20.0	5.6	20	05/27/21 05:51	06/03/21 01:03	7440-38-2	D3
Barium	233	ug/L	46.6	14.0	20	05/27/21 05:51	06/03/21 01:03	7440-39-3	
Cadmium	<3.0	ug/L	20.0	3.0	20	05/27/21 05:51	06/03/21 01:03	7440-43-9	D3
Chromium	<20.4	ug/L	68.0	20.4	20	05/27/21 05:51	06/03/21 01:03	7440-47-3	D3
Iron	5900	ug/L	5000	1160	20	05/27/21 05:51	06/03/21 01:03	7439-89-6	
Lead	<4.7	ug/L	20.0	4.7	20	05/27/21 05:51	06/03/21 01:03	7439-92-1	D3
Manganese	2060	ug/L	81.0	24.3	20	05/27/21 05:51	06/03/21 01:03	7439-96-5	
Selenium	<6.3	ug/L	21.2	6.3	20	05/27/21 05:51	06/03/21 01:03	7782-49-2	D3
Silver	<2.5	ug/L	10.0	2.5	20	05/27/21 05:51	06/03/21 01:03	7440-22-4	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/21 10:45	06/04/21 08:41	7439-97-6	
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	<0.0054	ug/L	0.027	0.0054	1	05/28/21 13:25	06/01/21 19:02	83-32-9	
Acenaphthylene	<0.0044	ug/L	0.022	0.0044	1	05/28/21 13:25	06/01/21 19:02	208-96-8	
Anthracene	<0.0093	ug/L	0.047	0.0093	1	05/28/21 13:25	06/01/21 19:02	120-12-7	
Benzo(a)anthracene	0.0087J	ug/L	0.034	0.0067	1	05/28/21 13:25	06/01/21 19:02	56-55-3	
Benzo(a)pyrene	0.010J	ug/L	0.047	0.0094	1	05/28/21 13:25	06/01/21 19:02	50-32-8	
Benzo(b)fluoranthene	0.030	ug/L	0.026	0.0051	1	05/28/21 13:25	06/01/21 19:02	205-99-2	
Benzo(g,h,i)perylene	0.020J	ug/L	0.030	0.0061	1	05/28/21 13:25	06/01/21 19:02	191-24-2	
Benzo(k)fluoranthene	0.012J	ug/L	0.034	0.0067	1	05/28/21 13:25	06/01/21 19:02	207-08-9	
Chrysene	0.027J	ug/L	0.058	0.012	1	05/28/21 13:25	06/01/21 19:02	218-01-9	
Dibenz(a,h)anthracene	<0.0089	ug/L	0.045	0.0089	1	05/28/21 13:25	06/01/21 19:02	53-70-3	
Fluoranthene	0.048	ug/L	0.048	0.0095	1	05/28/21 13:25	06/01/21 19:02	206-44-0	
Fluorene	<0.0071	ug/L	0.036	0.0071	1	05/28/21 13:25	06/01/21 19:02	86-73-7	
Indeno(1,2,3-cd)pyrene	0.016J	ug/L	0.079	0.016	1	05/28/21 13:25	06/01/21 19:02	193-39-5	
1-Methylnaphthalene	0.0068J	ug/L	0.026	0.0053	1	05/28/21 13:25	06/01/21 19:02	90-12-0	
2-Methylnaphthalene	<0.0044	ug/L	0.022	0.0044	1	05/28/21 13:25	06/01/21 19:02	91-57-6	
Naphthalene	<0.016	ug/L	0.082	0.016	1	05/28/21 13:25	06/01/21 19:02	91-20-3	
Phenanthrene	0.017J	ug/L	0.062	0.012	1	05/28/21 13:25	06/01/21 19:02	85-01-8	
Pyrene	0.037	ug/L	0.034	0.0068	1	05/28/21 13:25	06/01/21 19:02	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	46	%	39-120		1	05/28/21 13:25	06/01/21 19:02	321-60-8	
Terphenyl-d14 (S)	67	%	10-159		1	05/28/21 13:25	06/01/21 19:02	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		05/28/21 01:06	71-43-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

**Sample: 052521016**      **Lab ID: 40227542001**      Collected: 05/25/21 13:03      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 01:06	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/28/21 01:06	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/28/21 01:06	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 01:06	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/28/21 01:06	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/28/21 01:06	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/28/21 01:06	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	98	%	70-130		1		05/28/21 01:06	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		05/28/21 01:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		05/28/21 01:06	2199-69-1	

<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	322	mg/L	40.0	8.9	20		06/10/21 02:07	14808-79-8	

<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		06/07/21 13:10		

**Sample: 052521017**      **Lab ID: 40227542002**      Collected: 05/25/21 13:39      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Methane	<0.58	ug/L	2.8	0.58	1		06/03/21 09:21	74-82-8	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	<0.56	ug/L	2.0	0.56	2	05/27/21 05:51	06/03/21 01:10	7440-38-2	D3
Barium	106	ug/L	4.7	1.4	2	05/27/21 05:51	06/03/21 01:10	7440-39-3	
Cadmium	<0.30	ug/L	2.0	0.30	2	05/27/21 05:51	06/03/21 01:10	7440-43-9	D3
Chromium	<2.0	ug/L	6.8	2.0	2	05/27/21 05:51	06/03/21 01:10	7440-47-3	D3
Iron	<116	ug/L	500	116	2	05/27/21 05:51	06/03/21 01:10	7439-89-6	D3
Lead	<0.47	ug/L	2.0	0.47	2	05/27/21 05:51	06/03/21 01:10	7439-92-1	D3
Manganese	4.7J	ug/L	8.1	2.4	2	05/27/21 05:51	06/03/21 01:10	7439-96-5	D3
Selenium	<0.63	ug/L	2.1	0.63	2	05/27/21 05:51	06/03/21 01:10	7782-49-2	D3
Silver	<0.25	ug/L	1.0	0.25	2	05/27/21 05:51	06/03/21 01:10	7440-22-4	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/21 10:45	06/04/21 08:48	7439-97-6	

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

**Sample: 052521017**      **Lab ID: 40227542002**      Collected: 05/25/21 13:39      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM      Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Acenaphthene	<0.0061	ug/L	0.030	0.0061	1	05/28/21 13:25	06/02/21 09:30	83-32-9	
Acenaphthylene	0.017J	ug/L	0.025	0.0050	1	05/28/21 13:25	06/02/21 09:30	208-96-8	
Anthracene	<0.010	ug/L	0.052	0.010	1	05/28/21 13:25	06/02/21 09:30	120-12-7	
Benzo(a)anthracene	0.037J	ug/L	0.038	0.0076	1	05/28/21 13:25	06/02/21 09:30	56-55-3	
Benzo(a)pyrene	0.058	ug/L	0.053	0.011	1	05/28/21 13:25	06/02/21 09:30	50-32-8	
Benzo(b)fluoranthene	0.13	ug/L	0.029	0.0057	1	05/28/21 13:25	06/02/21 09:30	205-99-2	
Benzo(g,h,i)perylene	0.079	ug/L	0.034	0.0068	1	05/28/21 13:25	06/02/21 09:30	191-24-2	
Benzo(k)fluoranthene	0.064	ug/L	0.038	0.0076	1	05/28/21 13:25	06/02/21 09:30	207-08-9	
Chrysene	0.12	ug/L	0.065	0.013	1	05/28/21 13:25	06/02/21 09:30	218-01-9	
Dibenz(a,h)anthracene	0.011J	ug/L	0.050	0.010	1	05/28/21 13:25	06/02/21 09:30	53-70-3	
Fluoranthene	0.20	ug/L	0.053	0.011	1	05/28/21 13:25	06/02/21 09:30	206-44-0	
Fluorene	0.0096J	ug/L	0.040	0.0080	1	05/28/21 13:25	06/02/21 09:30	86-73-7	
Indeno(1,2,3-cd)pyrene	0.065J	ug/L	0.088	0.018	1	05/28/21 13:25	06/02/21 09:30	193-39-5	
1-Methylnaphthalene	0.0081J	ug/L	0.030	0.0059	1	05/28/21 13:25	06/02/21 09:30	90-12-0	
2-Methylnaphthalene	0.0063J	ug/L	0.024	0.0049	1	05/28/21 13:25	06/02/21 09:30	91-57-6	
Naphthalene	0.027J	ug/L	0.092	0.018	1	05/28/21 13:25	06/02/21 09:30	91-20-3	
Phenanthrene	0.083	ug/L	0.069	0.014	1	05/28/21 13:25	06/02/21 09:30	85-01-8	
Pyrene	0.15	ug/L	0.038	0.0076	1	05/28/21 13:25	06/02/21 09:30	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	50	%	39-120		1	05/28/21 13:25	06/02/21 09:30	321-60-8	
Terphenyl-d14 (S)	83	%	10-159		1	05/28/21 13:25	06/02/21 09:30	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		05/28/21 01:26	71-43-2	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 01:26	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/28/21 01:26	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/28/21 01:26	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 01:26	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/28/21 01:26	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/28/21 01:26	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/28/21 01:26	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	97	%	70-130		1		05/28/21 01:26	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		05/28/21 01:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		05/28/21 01:26	2199-69-1	
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	253	mg/L	100	22.2	50		06/10/21 02:21	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.19J	mg/L	0.25	0.059	1		06/07/21 13:10		

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

**Sample: 052521018**      **Lab ID: 40227542003**      Collected: 05/25/21 14:08      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	<0.58	ug/L	2.8	0.58	1		06/03/21 09:28	74-82-8	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic	<0.56	ug/L	2.0	0.56	2	05/27/21 05:51	06/03/21 01:17	7440-38-2	D3
Barium	22.2	ug/L	4.7	1.4	2	05/27/21 05:51	06/03/21 01:17	7440-39-3	
Cadmium	<0.30	ug/L	2.0	0.30	2	05/27/21 05:51	06/03/21 01:17	7440-43-9	D3
Chromium	<2.0	ug/L	6.8	2.0	2	05/27/21 05:51	06/03/21 01:17	7440-47-3	D3
Iron	<116	ug/L	500	116	2	05/27/21 05:51	06/03/21 01:17	7439-89-6	D3
Lead	<0.47	ug/L	2.0	0.47	2	05/27/21 05:51	06/03/21 01:17	7439-92-1	D3
Manganese	<2.4	ug/L	8.1	2.4	2	05/27/21 05:51	06/03/21 01:17	7439-96-5	D3
Selenium	<0.63	ug/L	2.1	0.63	2	05/27/21 05:51	06/03/21 01:17	7782-49-2	D3
Silver	<0.25	ug/L	1.0	0.25	2	05/27/21 05:51	06/03/21 01:17	7440-22-4	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/21 10:45	06/04/21 08:55	7439-97-6	
<b>8270E MSSV PAH</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Acenaphthene	<0.0063	ug/L	0.032	0.0063	1	05/31/21 09:36	06/02/21 09:48	83-32-9	
Acenaphthylene	<0.0052	ug/L	0.026	0.0052	1	05/31/21 09:36	06/02/21 09:48	208-96-8	
Anthracene	<0.011	ug/L	0.054	0.011	1	05/31/21 09:36	06/02/21 09:48	120-12-7	
Benzo(a)anthracene	0.011J	ug/L	0.039	0.0079	1	05/31/21 09:36	06/02/21 09:48	56-55-3	
Benzo(a)pyrene	0.014J	ug/L	0.055	0.011	1	05/31/21 09:36	06/02/21 09:48	50-32-8	
Benzo(b)fluoranthene	0.037	ug/L	0.030	0.0060	1	05/31/21 09:36	06/02/21 09:48	205-99-2	
Benzo(g,h,i)perylene	0.026J	ug/L	0.035	0.0071	1	05/31/21 09:36	06/02/21 09:48	191-24-2	
Benzo(k)fluoranthene	0.013J	ug/L	0.039	0.0079	1	05/31/21 09:36	06/02/21 09:48	207-08-9	
Chrysene	0.031J	ug/L	0.068	0.014	1	05/31/21 09:36	06/02/21 09:48	218-01-9	
Dibenz(a,h)anthracene	<0.010	ug/L	0.052	0.010	1	05/31/21 09:36	06/02/21 09:48	53-70-3	
Fluoranthene	0.056	ug/L	0.056	0.011	1	05/31/21 09:36	06/02/21 09:48	206-44-0	
Fluorene	<0.0083	ug/L	0.042	0.0083	1	05/31/21 09:36	06/02/21 09:48	86-73-7	
Indeno(1,2,3-cd)pyrene	0.019J	ug/L	0.092	0.018	1	05/31/21 09:36	06/02/21 09:48	193-39-5	
1-Methylnaphthalene	<0.0061	ug/L	0.031	0.0061	1	05/31/21 09:36	06/02/21 09:48	90-12-0	
2-Methylnaphthalene	<0.0051	ug/L	0.026	0.0051	1	05/31/21 09:36	06/02/21 09:48	91-57-6	
Naphthalene	<0.019	ug/L	0.095	0.019	1	05/31/21 09:36	06/02/21 09:48	91-20-3	
Phenanthrene	0.019J	ug/L	0.072	0.014	1	05/31/21 09:36	06/02/21 09:48	85-01-8	
Pyrene	0.042	ug/L	0.040	0.0080	1	05/31/21 09:36	06/02/21 09:48	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	39-120		1	05/31/21 09:36	06/02/21 09:48	321-60-8	
Terphenyl-d14 (S)	88	%	10-159		1	05/31/21 09:36	06/02/21 09:48	1718-51-0	
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		05/28/21 01:46	71-43-2	

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### ANALYTICAL RESULTS

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

**Sample: 052521018**      **Lab ID: 40227542003**      Collected: 05/25/21 14:08      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 01:46	100-41-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/28/21 01:46	108-88-3	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/28/21 01:46	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 01:46	108-67-8	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		05/28/21 01:46	1330-20-7	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/28/21 01:46	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/28/21 01:46	95-47-6	
<b>Surrogates</b>									
Toluene-d8 (S)	98	%	70-130		1		05/28/21 01:46	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		05/28/21 01:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/28/21 01:46	2199-69-1	

<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Sulfate	1620	mg/L	100	22.2	50		06/10/21 02:36	14808-79-8	

<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.25	mg/L	0.25	0.059	1		06/07/21 13:11		

**Sample: 052521019**      **Lab ID: 40227542004**      Collected: 05/25/21 14:59      Received: 05/26/21 10:42      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Methane	2.6J	ug/L	2.8	0.58	1		06/03/21 09:35	74-82-8	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Arsenic	<1.4	ug/L	5.0	1.4	5	05/27/21 05:51	06/03/21 01:24	7440-38-2	D3
Barium	279	ug/L	11.6	3.5	5	05/27/21 05:51	06/03/21 01:24	7440-39-3	
Cadmium	<0.76	ug/L	5.0	0.76	5	05/27/21 05:51	06/03/21 01:24	7440-43-9	D3
Chromium	<5.1	ug/L	17.0	5.1	5	05/27/21 05:51	06/03/21 01:24	7440-47-3	D3
Iron	<290	ug/L	1250	290	5	05/27/21 05:51	06/03/21 01:24	7439-89-6	D3
Lead	<1.2	ug/L	5.0	1.2	5	05/27/21 05:51	06/03/21 01:24	7439-92-1	D3
Manganese	116	ug/L	20.2	6.1	5	05/27/21 05:51	06/03/21 01:24	7439-96-5	
Selenium	<1.6	ug/L	5.3	1.6	5	05/27/21 05:51	06/03/21 01:24	7782-49-2	D3
Silver	<0.64	ug/L	2.5	0.64	5	05/27/21 05:51	06/03/21 01:24	7440-22-4	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/21 10:45	06/04/21 08:57	7439-97-6	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 387029 Analysis Method: EPA 8015B Modified  
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2232604 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	<0.58	2.8	06/03/21 08:37	

LABORATORY CONTROL SAMPLE & LCSD: 2232605 2232606

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.6	25.8	26.2	90	92	80-121	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2232607 2232608

Parameter	Units	40227543003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	472	286	286	1010	1040	190	198	10-200	2	20	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 387040 Analysis Method: EPA 7470  
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2232645 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	06/04/21 08:37	

LABORATORY CONTROL SAMPLE: 2232646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2232647 2232648

Parameter	Units	2232647		2232648		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40227542001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	ug/L	<0.066	5	5	4.6	4.7	93	94	85-115	1	20	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 386501 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2230154 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.28	1.0	06/02/21 22:07	
Barium	ug/L	<0.70	2.3	06/02/21 22:07	
Cadmium	ug/L	<0.15	1.0	06/02/21 22:07	
Chromium	ug/L	<1.0	3.4	06/02/21 22:07	
Iron	ug/L	<58.0	250	06/02/21 22:07	
Lead	ug/L	<0.24	1.0	06/02/21 22:07	
Manganese	ug/L	<1.2	4.0	06/02/21 22:07	
Selenium	ug/L	<0.32	1.1	06/02/21 22:07	
Silver	ug/L	<0.13	0.50	06/02/21 22:07	

LABORATORY CONTROL SAMPLE: 2230155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	506	101	80-120	
Barium	ug/L	500	515	103	80-120	
Cadmium	ug/L	500	531	106	80-120	
Chromium	ug/L	500	511	102	80-120	
Iron	ug/L	5000	5210	104	80-120	
Lead	ug/L	500	480	96	80-120	
Manganese	ug/L	500	500	100	80-120	
Selenium	ug/L	500	520	104	80-120	
Silver	ug/L	250	248	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230156 2230157

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40227539001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic	ug/L	4.5J	500	500	513	499	102	99	75-125	3	20	
Barium	ug/L	544	500	500	1050	1020	101	96	75-125	3	20	
Cadmium	ug/L	0.79J	500	500	508	501	102	100	75-125	1	20	
Chromium	ug/L	<5.1	500	500	510	505	102	101	75-125	1	20	
Iron	ug/L	47100	5000	5000	52200	51400	102	86	75-125	2	20	
Lead	ug/L	<1.2	500	500	499	494	100	99	75-125	1	20	
Manganese	ug/L	2160	500	500	2640	2600	96	88	75-125	1	20	
Selenium	ug/L	<1.6	500	500	515	506	103	101	75-125	2	20	
Silver	ug/L	<0.64	250	250	233	229	93	92	75-125	2	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 386492 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2230146 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/27/21 17:34	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/27/21 17:34	
Benzene	ug/L	<0.30	1.0	05/27/21 17:34	
Ethylbenzene	ug/L	<0.33	1.0	05/27/21 17:34	
m&p-Xylene	ug/L	<0.70	2.0	05/27/21 17:34	
o-Xylene	ug/L	<0.35	1.0	05/27/21 17:34	
Toluene	ug/L	<0.29	1.0	05/27/21 17:34	
Xylene (Total)	ug/L	<1.0	3.0	05/27/21 17:34	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	05/27/21 17:34	
4-Bromofluorobenzene (S)	%	101	70-130	05/27/21 17:34	
Toluene-d8 (S)	%	100	70-130	05/27/21 17:34	

LABORATORY CONTROL SAMPLE: 2230147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	57.8	116	70-132	
Ethylbenzene	ug/L	50	61.5	123	80-123	
m&p-Xylene	ug/L	100	120	120	70-130	
o-Xylene	ug/L	50	58.7	117	70-130	
Toluene	ug/L	50	57.1	114	80-121	
Xylene (Total)	ug/L	150	179	119	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230310 2230311

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40227535021 Result	Spike Conc.	Spike Conc.	Conc.							
Benzene	ug/L	<0.30	50	50	54.6	58.7	109	117	70-132	7	20	
Ethylbenzene	ug/L	<0.33	50	50	57.1	63.0	114	126	80-123	10	20	M1
m&p-Xylene	ug/L	<0.70	100	100	113	124	113	124	70-130	9	20	
o-Xylene	ug/L	<0.35	50	50	55.2	61.2	110	122	70-130	10	20	
Toluene	ug/L	<0.29	50	50	53.5	58.6	107	117	80-121	9	20	
Xylene (Total)	ug/L	<1.0	150	150	168	185	112	124	70-130	10	20	
1,2-Dichlorobenzene-d4 (S)	%						101	98	70-130			
4-Bromofluorobenzene (S)	%						106	104	70-130			

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230310 2230311													
Parameter	Units	40227535021 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.		Result		Result					
Toluene-d8 (S)	%								97	98	70-130		

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 386669 Analysis Method: EPA 8270E by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270E Water PAH  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227542001, 40227542002

METHOD BLANK: 2231110 Matrix: Water

Associated Lab Samples: 40227542001, 40227542002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/01/21 07:59	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/01/21 07:59	
Acenaphthene	ug/L	<0.0061	0.030	06/01/21 07:59	
Acenaphthylene	ug/L	<0.0050	0.025	06/01/21 07:59	
Anthracene	ug/L	<0.010	0.052	06/01/21 07:59	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/01/21 07:59	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/01/21 07:59	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/01/21 07:59	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/01/21 07:59	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/01/21 07:59	
Chrysene	ug/L	<0.013	0.065	06/01/21 07:59	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/01/21 07:59	
Fluoranthene	ug/L	<0.011	0.053	06/01/21 07:59	
Fluorene	ug/L	<0.0080	0.040	06/01/21 07:59	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/01/21 07:59	
Naphthalene	ug/L	<0.018	0.092	06/01/21 07:59	
Phenanthrene	ug/L	<0.014	0.069	06/01/21 07:59	
Pyrene	ug/L	<0.0076	0.038	06/01/21 07:59	
2-Fluorobiphenyl (S)	%	62	39-120	06/01/21 07:59	
Terphenyl-d14 (S)	%	97	10-159	06/01/21 07:59	

LABORATORY CONTROL SAMPLE: 2231111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.5	77	37-120	
2-Methylnaphthalene	ug/L	2	1.5	77	38-120	
Acenaphthene	ug/L	2	1.5	76	49-120	
Acenaphthylene	ug/L	2	1.5	74	43-85	
Anthracene	ug/L	2	1.5	73	57-110	
Benzo(a)anthracene	ug/L	2	1.6	80	47-118	
Benzo(a)pyrene	ug/L	2	1.6	81	70-120	
Benzo(b)fluoranthene	ug/L	2	1.6	82	54-97	
Benzo(g,h,i)perylene	ug/L	2	0.63	32	26-74	
Benzo(k)fluoranthene	ug/L	2	1.8	91	73-126	
Chrysene	ug/L	2	1.9	95	75-151	
Dibenz(a,h)anthracene	ug/L	2	0.47	24	13-72	
Fluoranthene	ug/L	2	1.8	89	63-120	
Fluorene	ug/L	2	1.6	78	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	69	51-101	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

LABORATORY CONTROL SAMPLE: 2231111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.5	76	41-120	
Phenanthrene	ug/L	2	1.7	83	47-100	
Pyrene	ug/L	2	1.8	90	70-128	
2-Fluorobiphenyl (S)	%			79	39-120	
Terphenyl-d14 (S)	%			106	10-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2231112 2231113

Parameter	Units	40227543003		2231112		2231113		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1-Methylnaphthalene	ug/L	<0.0056	2	1.9	1.1	1.1	53	57	16-120	5	28		
2-Methylnaphthalene	ug/L	0.0048J	2	1.9	1.0	1.1	52	56	29-120	4	31		
Acenaphthene	ug/L	<0.0058	2	1.9	1.1	1.1	55	59	33-120	3	30		
Acenaphthylene	ug/L	<0.0047	2	1.9	1.0	1.1	53	56	21-85	3	26		
Anthracene	ug/L	<0.010	2	1.9	1.1	1.1	55	55	16-114	4	36		
Benzo(a)anthracene	ug/L	<0.0072	2	1.9	1.2	1.1	60	57	10-118	7	35		
Benzo(a)pyrene	ug/L	<0.010	2	1.9	1.1	1.1	56	58	10-120	1	37		
Benzo(b)fluoranthene	ug/L	<0.0055	2	1.9	1.1	1.1	58	56	10-97	5	36		
Benzo(g,h,i)perylene	ug/L	<0.0065	2	1.9	0.48	0.44	24	23	10-74	9	45		
Benzo(k)fluoranthene	ug/L	<0.0072	2	1.9	1.2	1.2	61	62	10-126	1	41		
Chrysene	ug/L	<0.012	2	1.9	1.4	1.4	70	72	10-161	0	30		
Dibenz(a,h)anthracene	ug/L	<0.0095	2	1.9	0.44	0.43	22	23	10-72	2	50		
Fluoranthene	ug/L	<0.010	2	1.9	1.4	1.3	69	68	35-120	5	33		
Fluorene	ug/L	<0.0076	2	1.9	1.1	1.1	57	59	17-120	0	33		
Indeno(1,2,3-cd)pyrene	ug/L	<0.017	2	1.9	0.82	0.76	42	39	10-101	8	41		
Naphthalene	ug/L	<0.017	2	1.9	1.0	1.1	52	56	24-120	4	30		
Phenanthrene	ug/L	<0.013	2	1.9	1.3	1.2	65	64	15-100	4	30		
Pyrene	ug/L	0.011J	2	1.9	1.4	1.4	70	70	14-137	4	31		
2-Fluorobiphenyl (S)	%						57	60	39-120				
Terphenyl-d14 (S)	%						81	79	10-159				

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 386717 Analysis Method: EPA 8270E by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270E Water PAH  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227542003, 40227542004

METHOD BLANK: 2231609 Matrix: Water

Associated Lab Samples: 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	06/01/21 08:36	
2-Methylnaphthalene	ug/L	<0.0049	0.024	06/01/21 08:36	
Acenaphthene	ug/L	<0.0061	0.030	06/01/21 08:36	
Acenaphthylene	ug/L	<0.0050	0.025	06/01/21 08:36	
Anthracene	ug/L	<0.010	0.052	06/01/21 08:36	
Benzo(a)anthracene	ug/L	<0.0076	0.038	06/01/21 08:36	
Benzo(a)pyrene	ug/L	<0.011	0.053	06/01/21 08:36	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	06/01/21 08:36	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	06/01/21 08:36	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	06/01/21 08:36	
Chrysene	ug/L	<0.013	0.065	06/01/21 08:36	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	06/01/21 08:36	
Fluoranthene	ug/L	<0.011	0.053	06/01/21 08:36	
Fluorene	ug/L	<0.0080	0.040	06/01/21 08:36	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	06/01/21 08:36	
Naphthalene	ug/L	<0.018	0.092	06/01/21 08:36	
Phenanthrene	ug/L	<0.014	0.069	06/01/21 08:36	
Pyrene	ug/L	<0.0076	0.038	06/01/21 08:36	
2-Fluorobiphenyl (S)	%	54	39-120	06/01/21 08:36	
Terphenyl-d14 (S)	%	85	10-159	06/01/21 08:36	

LABORATORY CONTROL SAMPLE: 2231610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.5	74	37-120	
2-Methylnaphthalene	ug/L	2	1.5	74	38-120	
Acenaphthene	ug/L	2	1.4	72	49-120	
Acenaphthylene	ug/L	2	1.4	71	43-85	
Anthracene	ug/L	2	1.3	67	57-110	
Benzo(a)anthracene	ug/L	2	1.5	73	47-118	
Benzo(a)pyrene	ug/L	2	1.6	78	70-120	
Benzo(b)fluoranthene	ug/L	2	1.5	75	54-97	
Benzo(g,h,i)perylene	ug/L	2	0.59	29	26-74	
Benzo(k)fluoranthene	ug/L	2	1.7	85	73-126	
Chrysene	ug/L	2	1.8	89	75-151	
Dibenz(a,h)anthracene	ug/L	2	0.45	22	13-72	
Fluoranthene	ug/L	2	1.7	85	63-120	
Fluorene	ug/L	2	1.5	74	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.2	62	51-101	

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

LABORATORY CONTROL SAMPLE: 2231610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	2	1.5	73	41-120	
Phenanthrene	ug/L	2	1.6	79	47-100	
Pyrene	ug/L	2	1.7	86	70-128	
2-Fluorobiphenyl (S)	%			72	39-120	
Terphenyl-d14 (S)	%			106	10-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2231611 2231612

Parameter	Units	MS 40227690005		MSD 2231612		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result						
1-Methylnaphthalene	ug/L	<0.0054	1.9	1.9	1.0	0.98	56	53	16-120	7	28
2-Methylnaphthalene	ug/L	<0.0045	1.9	1.9	1.1	0.98	56	53	29-120	7	31
Acenaphthene	ug/L	<0.0056	1.9	1.9	1.1	1.0	57	55	33-120	5	30
Acenaphthylene	ug/L	<0.0046	1.9	1.9	1.1	0.98	56	53	21-85	8	26
Anthracene	ug/L	<0.0096	1.9	1.9	1.2	1.1	64	57	16-114	13	36
Benzo(a)anthracene	ug/L	<0.0069	1.9	1.9	1.1	1.0	60	56	10-118	8	35
Benzo(a)pyrene	ug/L	<0.0097	1.9	1.9	1.1	0.99	58	54	10-120	9	37
Benzo(b)fluoranthene	ug/L	<0.0053	1.9	1.9	1.1	1.0	57	55	10-97	6	36
Benzo(g,h,i)perylene	ug/L	<0.0062	1.9	1.9	0.42	0.39	22	21	10-74	5	45
Benzo(k)fluoranthene	ug/L	<0.0069	1.9	1.9	1.1	0.97	57	53	10-126	9	41
Chrysene	ug/L	<0.012	1.9	1.9	1.3	1.2	71	67	10-161	9	30
Dibenz(a,h)anthracene	ug/L	<0.0092	1.9	1.9	0.42	0.40	22	21	10-72	5	50
Fluoranthene	ug/L	<0.0098	1.9	1.9	1.3	1.2	68	64	35-120	8	33
Fluorene	ug/L	<0.0073	1.9	1.9	1.1	1.1	59	58	17-120	3	33
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	1.9	1.9	0.74	0.68	39	37	10-101	9	41
Naphthalene	ug/L	<0.017	1.9	1.9	1.0	0.93	55	50	24-120	11	30
Phenanthrene	ug/L	<0.013	1.9	1.9	1.2	1.2	64	62	15-100	5	30
Pyrene	ug/L	<0.0070	1.9	1.9	1.4	1.3	72	68	14-137	8	31
2-Fluorobiphenyl (S)	%						57	61	39-120		
Terphenyl-d14 (S)	%						80	78	10-159		

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

QC Batch: 387453      Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0      Analysis Description: 300.0 IC Anions  
    Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2234911      Matrix: Water  
 Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	06/09/21 09:59	

LABORATORY CONTROL SAMPLE: 2234912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.4	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234913      2234914

Parameter	Units	40227539010		2234914		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfate	mg/L	138	200	200	350	350	106	106	90-110	0	15

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234915      2234916

Parameter	Units	40227543003		2234916		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Sulfate	mg/L	46.5	100	100	151	149	105	103	90-110	1	15

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### QUALITY CONTROL DATA

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

QC Batch: 387271 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

METHOD BLANK: 2234149 Matrix: Water  
Associated Lab Samples: 40227542001, 40227542002, 40227542003, 40227542004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	06/07/21 13:05	

LABORATORY CONTROL SAMPLE: 2234150

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234151 2234152

Parameter	Units	40227543003		2234151		2234152		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.1	2.1	86	85	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234153 2234154

Parameter	Units	50288421004		2234153		2234154		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Nitrogen, NO2 plus NO3	mg/L	9.2	2.5	2.5	11.6	11.6	96	97	90-110	0	20	

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 70712 GREEN BAY MGP

Pace Project No.: 40227542

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

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

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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70712 GREEN BAY MGP  
Pace Project No.: 40227542

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40227542001	052521016	EPA 8015B Modified	387029		
40227542002	052521017	EPA 8015B Modified	387029		
40227542003	052521018	EPA 8015B Modified	387029		
40227542004	052521019	EPA 8015B Modified	387029		
40227542001	052521016	EPA 3010	386501	EPA 6020	386565
40227542002	052521017	EPA 3010	386501	EPA 6020	386565
40227542003	052521018	EPA 3010	386501	EPA 6020	386565
40227542004	052521019	EPA 3010	386501	EPA 6020	386565
40227542001	052521016	EPA 7470	387040	EPA 7470	387083
40227542002	052521017	EPA 7470	387040	EPA 7470	387083
40227542003	052521018	EPA 7470	387040	EPA 7470	387083
40227542004	052521019	EPA 7470	387040	EPA 7470	387083
40227542001	052521016	EPA 3510	386669	EPA 8270E by SIM	386705
40227542002	052521017	EPA 3510	386669	EPA 8270E by SIM	386705
40227542003	052521018	EPA 3510	386717	EPA 8270E by SIM	386724
40227542004	052521019	EPA 3510	386717	EPA 8270E by SIM	386724
40227542001	052521016	EPA 8260	386492		
40227542002	052521017	EPA 8260	386492		
40227542003	052521018	EPA 8260	386492		
40227542004	052521019	EPA 8260	386492		
40227542001	052521016	EPA 300.0	387453		
40227542002	052521017	EPA 300.0	387453		
40227542003	052521018	EPA 300.0	387453		
40227542004	052521019	EPA 300.0	387453		
40227542001	052521016	EPA 353.2	387271		
40227542002	052521017	EPA 353.2	387271		
40227542003	052521018	EPA 353.2	387271		
40227542004	052521019	EPA 353.2	387271		

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Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document No.:  
**ENV-FRM-GBAY-0014-Rev.00**

Document Revised: 26Mar2020  
 Author:  
 Pace Green Bay Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

Client Name: Ramboll

Project #: \_\_\_\_\_

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_

**WO#: 40227542**



Tracking #: \_\_\_\_\_  
 Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
 Custody Seal on Samples Present:  yes  no Seals intact:  yes  no  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer Used SR-90 Type of Ice:  Wet  Blue  Dry  None  
 Cooler Temperature Uncorr: 5.0 / Corr: 4.5  Samples on ice, cooling process has begun

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

Person examining contents:  
 Date: 5/26/21 / Initials: [Signature]  
 Labeled By Initials: [Signature]

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

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

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

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