

Wisconsin Public Service Corporation

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

www.wisconsinpublicservice.com

January 29, 2018

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

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

Dear Mr. Beggs:

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

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

Sincerely,

M.

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

Encl.

Cc: Project file Brian Hennings, OBG



Wisconsin Public Service Corporation

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

www.wisconsinpublicservice.com

January 29, 2018

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

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

Dear Ms. Hazuka:

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 700 North Adams Street is providing results of groundwater samples (MW414, MW415A, MW415B, MW416) collected as part of routine monitoring in November of 2017. Wisconsin Administrative Code Chapter NR 716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

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

We appreciate your ongoing cooperation in this matter.

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

Sincerely,

[#]rank Dombrowski Principal Environmental Consultant WEC Energy Group – Business Services Environmental Dept.

Ms. Hazuka Associated Bank January 29, 2018 Page 2

- Encl: Figure 1. Associated Bank Table 1. Groundwater Analytical Results for Associated Bank (Nov 2017) Table 2. Sample Key for Associated Bank (Nov 2017) Laboratory Reports - 40161287_frc
- CC: Ms. Margaret Gielniewski, USEPA Mr. Tauren Beggs, WDNR

S. .

Figures



Tables

Table 1. Groundwater Analytical Results for Associated Bank

November 2017 Sample Results Notification

Wisconsin Public Service Corporation

Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin

BRRTS#: 02-05-000254 UPSEPA#: WIN000509948

| | | | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH |
|---------------------|--------------------|------------------|---------------------|---------------------|--------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|--------------|-----------------------|--------------|-----------|------------------------|-------------|--------------|-----------|
| 9-digit Code | Sample Location | Sample Date | 1-Methylnaphthalene | 2-Methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-cd)pyrene | Naphthalene | Phenanthrene | Pyrene |
| | | Reporting Units: | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | | | | | | | | | | | | | | | | | |
| WI Groundwater PAL: | | <u>NS</u> | <u>NS</u> | <u>NS</u> | <u>NS</u> | <u>600</u> | <u>NS</u> | <u>0.02</u> | <u>0.02</u> | <u>NS</u> | <u>NS</u> | <u>0.02</u> | <u>NS</u> | <u>80</u> | <u>80</u> | <u>NS</u> | <u>10</u> | <u>NS</u> | <u>50</u> | |
| WI Groundwater ES: | | NS | NS | NS | NS | 3,000 | NS | 0.2 | 0.2 | NS | NS | 0.2 | NS | 400 | 400 | NS | 100 | NS | 250 | |
| | 1 | 1 | | | | | | | | | | | | | | | | | | |
| 112117012 | MW-414 | 11/21/2017 | <0.0062 U | <0.0052 U | <0.0064 U | <0.0052 U | <0.011 U | <0.0079 U | <0.011 U | <0.0060 U | <0.0071 U | <0.0079 U | <0.014 U | <0.011 U | <0.011 U | <0.0084 U | <0.019 U | <0.019 U | <0.015 U | <0.0081 U |
| 112117013 | MW-415A | 11/21/2017 | <0.0060 U | <0.0049 U | <0.0061 U | <0.0050 U | <0.011 U | 0.0079 J | <u>0.041 J</u> | <u>0.075</u> | 0.051 | 0.045 | <u>0.091</u> | <0.010 U | 0.15 | <0.0081 U | 0.049 J | <0.019 U | 0.034 J | 0.12 |
| 112117014 | MW-415A Dup | 11/21/2017 | <0.0061 U | <0.0051 U | <0.0063 U | <0.0052 U | <0.011 U | <0.0079 U | <u>0.045 J</u> | <u>0.088</u> | 0.056 | 0.056 | <u>0.11</u> | <0.010 U | 0.17 | <0.0083 U | 0.054 J | <0.019 U | 0.038 J | 0.13 |
| 112117015 | MW-415B | 11/21/2017 | <0.0061 U | <0.0051 U | <0.0063 U | <0.0051 U | <0.011 U | <0.0078 U | <0.011 U | 0.0068 J | <0.0070 U | <0.0078 U | <0.013 U | <0.010 U | 0.013 J | <0.0082 U | <0.018 U | <0.019 U | <0.014 U | 0.013 J |
| 112117016 | MW-416 | 11/21/2017 | <0.0060 U | <0.0050 U | <0.0062 U | <0.0051 U | <0.011 U | <0.0077 U | <0.011 U | <0.0059 U | <0.0069 U | <0.0077 U | <0.013 U | <0.010 U | <0.011 U | <0.0081 U | <0.018 U | <0.019 U | <0.014 U | <0.0078 U |

Notes:

Underline = concentration that attains or exceeds WDNR PAL

BOLD = concentration that attains or exceeds WDNR ES

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

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

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

Dup = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

NO2 + NO3 = nitrite plus nitrate

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

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

NS = A groundwater quality standard has not been established.

1. Total trimethylbenzenes were calculated by OBG as follows:

a. Where no detections were observed, the sum of the reporting limits is presented.

b. Where detections were observed, the detected results were added together for the total summation.

c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

Table 1. Groundwater Analytical Results for Associated Bank

November 2017 Sample Results Notification

Wisconsin Public Service Corporation

Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin

BRRTS#: 02-05-000254 UPSEPA#: WIN000509948

| | | | BTEX | BTEX | BTEX | BTEX | BTEX | BTEX | VOC | VOC | VOC | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Inorganic | Inorganic |
|-----------------|--------------------|------------------|--------------|--------------|------------|-----------|----------------|----------------|------------------------|------------------------|---------------------------------------|--------------------|-------------------|--------------------|---------------------|-----------------|-----------------|----------------------|--------------------|---------------------|-------------------|----------------------------|------------------|
| 9-digit Code | Sample Location | Sample Date | Ethylbenzene | Ethylbenzene | Toluene | Xylene, o | Xylenes, m + p | Xylenes, Total | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Trimethylbenzenes, Total ¹ | Arsenic, Dissolved | Barium, Dissolved | Cadmium, Dissolved | Chromium, Dissolved | Iron, Dissolved | Lead, Dissolved | Manganese, Dissolved | Mercury, Dissolved | Selenium, Dissolved | Silver, Dissolved | Nitrogen, NO2 + NO3, Total | Sulfate, Total |
| | F | Reporting Units: | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | WI Ground | dwater PAL: | <u>0.5</u> | <u>140</u> | <u>160</u> | <u>NS</u> | <u>NS</u> | <u>400</u> | <u>NS</u> | <u>NS</u> | <u>96</u> | <u>1</u> | <u>400</u> | <u>0.5</u> | <u>10</u> | <u>150</u> | <u>1.5</u> | <u>25</u> | <u>0.2</u> | <u>10</u> | <u>10</u> | <u>2.000</u> | <u>125,000</u> |
| | WI Groun | dwater ES: | 5 | 700 | 800 | NS | NS | 2,000 | NS | NS | 480 | 10 | 2,000 | 5 | 100 | 300 | 15 | 50 | 2 | 50 | 50 | 10,000 | 250,000 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 112117012 M | IW-414 | 11/21/2017 | <0.50 U* | <0.50 U | <0.50 U | <0.50 U | <1.0 U | <1.5 U | <0.50 U | <0.50 U | <1.00 U | <2.8 U* | 272 | <0.81 U* | <10.2 U* | <1,110 U* | <2.0 U* | <u>627</u> | <0.50 U* | <3.2 U | <1.0 U | 500 | <100,000 U |
| 112117013 M | IW-415A | 11/21/2017 | <0.50 U* | <0.50 U | <0.50 U | <0.50 U | <1.0 U | <1.5 U | <0.50 U | <0.50 U | <1.00 U | <0.56 U | 107 | <0.16 U | <2.0 U | <221 U* | <0.39 U | 11.8 J | <0.50 U* | <0.63 U | <0.20 U | <95 U | <u>274,000 J</u> |
| 112117014 M | IW-415A Dup | 11/21/2017 | <0.50 U* | <0.50 U | <0.50 U | <0.50 U | <1.0 U | <1.5 U | <0.50 U | <0.50 U | <1.00 U | <0.56 U | 106 | <0.16 U | <5.1 U | <553 U* | <0.39 U | <13.5 U | <0.50 U* | <0.63 U | <0.20 U | <95 U | <u>270,000 J</u> |
| 112117015 M | IW-415B | 11/21/2017 | <0.50 U* | <0.50 U | 0.88 J | <0.50 U | <1.0 U | <1.5 U | <0.50 U | <0.50 U | <1.00 U | <u><1.4 U</u> | 22.3 | <0.40 U | <5.1 U | <553 U* | <0.98 U | <13.5 U | <0.13 U | <1.6 U | <0.50 U | 200 J | <u>1,780,000</u> |
| 112117016 M | IW-416 | 11/21/2017 | <0.50 U* | <0.50 U | <0.50 U | <0.50 U | <1.0 U | <1.5 U | <0.50 U | <0.50 U | <1.00 U | <5.6 U* | 326 | <1.6 U* | <20.4 U* | <2,210 U* | <3.9 U* | <u>3,370</u> | <0.50 U* | <6.3 U | <2.0 U | <95 U | <u>385,000</u> |

Notes:

<u>Underline = concentration that attains or exceeds WDNR PAL</u>

BOLD = concentration that attains or exceeds WDNR ES

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

- < = Concentration is less than reported limit
- J = Concentration estimated

U = Not detected

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

Dup = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

- NO2 + NO3 = nitrite plus nitrate
- PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

- ES = Enforcement Standard
- PAL = Preventive Action Limit

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

NS = A groundwater quality standard has not been established.

1. Total trimethylbenzenes were calculated by OBG as follows:

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

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

Table 2. Sample Key for Associated Bank

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

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

Notes:

Sorted by: Matrix, Lab Report #, 9-digit code, Location Name, and Date Dup = Quality Control Field Duplicate Sample

Laboratory Data Reports



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

January 09, 2018

Eric Hritsuk Natural Resource Technologies

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

Dear Eric Hritsuk:

,

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

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

Sincerely,

mhe

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

Enclosures

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





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

CERTIFICATIONS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Green Bay Certification IDs

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



SAMPLE SUMMARY

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

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



SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|-----------------|----------|----------------------|
| 40161287001 | 112117012 | EPA 6020 | SDW | 9 |
| | | EPA 7470 | AJT | 1 |
| | | EPA 8270 by HVI | TPO | 20 |
| | | EPA 8260 | LAP | 11 |
| | | EPA 300.0 | HMB | 1 |
| | | EPA 353.2 | DAW | 1 |
| 40161287002 | 112117013 | EPA 6020 | SDW | 9 |
| | | EPA 7470 | AJT | 1 |
| | | EPA 8270 by HVI | TPO | 20 |
| | | EPA 8260 | LAP | 11 |
| | | EPA 300.0 | HMB | 1 |
| | | EPA 353.2 | DAW | 1 |
| 40161287003 | 112117014 | EPA 6020 | SDW | 9 |
| | | EPA 7470 | AJT | 1 |
| | | EPA 8270 by HVI | TPO | 20 |
| | | EPA 8260 | LAP | 11 |
| | | EPA 300.0 | HMB | 1 |
| | | EPA 353.2 | DAW | 1 |
| 40161287004 | 112117015 | EPA 6020 | SDW | 9 |
| | | EPA 7470 | AJT | 1 |
| | | EPA 8270 by HVI | TPO | 20 |
| | | EPA 8260 | LAP | 11 |
| | | EPA 300.0 | HMB | 1 |
| | | EPA 353.2 | DAW | 1 |
| 40161287005 | 112117016 | EPA 6020 | SDW | 9 |
| | | EPA 7470 | AJT | 1 |
| | | EPA 8270 by HVI | TPO | 20 |
| | | EPA 8260 | LAP | 11 |
| | | EPA 300.0 | HMB | 1 |
| | | EPA 353.2 | DAW | 1 |



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 6020

Description:6020 MET ICPMS, DissolvedClient:Natural Resource Technology Integrys WIDate:January 09, 2018

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: 275901

- D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
 - 112117012 (Lab ID: 40161287001)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Iron, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved
 - 112117013 (Lab ID: 40161287002)
 - Silver, Dissolved
 - Arsenic, Dissolved



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

| Method: | EPA 6020 |
|--------------|---|
| Description: | 6020 MET ICPMS, Dissolved |
| Client: | Natural Resource Technology Integrys WI |
| Date: | January 09, 2018 |

Analyte Comments:

QC Batch: 275901

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

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



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 7470

Description:7470 Mercury, DissolvedClient:Natural Resource Technology Integrys WIDate:January 09, 2018

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: 276418

- D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
 - 112117012 (Lab ID: 40161287001)
 - Mercury, Dissolved
 - 112117013 (Lab ID: 40161287002)
 - Mercury, Dissolved • 112117014 (Lab ID: 40161287003)
 - Mercury, Dissolved
 - 112117016 (Lab ID: 40161287005)
 - Mercury, Dissolved



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 8270 by HVI

Description:8270 MSSV PAH by HVIClient:Natural Resource Technology Integrys WIDate:January 09, 2018

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 8260

Description:8260 MSV USTClient:Natural Resource Technology Integrys WIDate:January 09, 2018

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: 275528

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

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

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

Additional Comments:



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 8260

Description:8260 MSV USTClient:Natural Resource Technology Integrys WIDate:January 09, 2018

Analyte Comments:

QC Batch: 275528

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

• MS (Lab ID: 1620594)

Benzene

• MSD (Lab ID: 1620595)

• Benzene



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 300.0

Description:300.0 IC Anions 28 DaysClient:Natural Resource Technology Integrys WIDate:January 09, 2018

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: 275924

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

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

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

Sulfate

- MSD (Lab ID: 1623212)
 - Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 275924

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

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



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

Method: EPA 353.2

Description:353.2 Nitrogen, NO2/NO3 pres.Client:Natural Resource Technology Integrys WIDate:January 09, 2018

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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



Project: 1584/22.2 GREEN BAY FORMER MGP

1 10,000

Pace Project No.: 40161287

| Sample: 112117012 | Lab ID: | 40161287001 | Collected: | 11/21/17 | 7 08:24 | Received: 11/2 | 22/17 08:50 Ma | atrix: Water | |
|---------------------------|------------|---------------|-------------|------------|----------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | tion Meth | od: EPA | 3010 | | | |
| Arsenic, Dissolved | <2.8 | ug/L | 10.0 | 2.8 | 10 | 12/05/17 06:50 | 12/14/17 04:02 | 7440-38-2 | D3 |
| Barium, Dissolved | 272 | ug/L | 11.4 | 3.4 | 10 | 12/05/17 06:50 | 12/14/17 04:02 | 7440-39-3 | |
| Cadmium, Dissolved | <0.81 | ug/L | 10.0 | 0.81 | 10 | 12/05/17 06:50 | 12/14/17 04:02 | 7440-43-9 | D3 |
| Chromium, Dissolved | <10.2 | ug/L | 34.0 | 10.2 | 10 | 12/05/17 06:50 | 12/14/17 04:02 | 7440-47-3 | D3 |
| Iron, Dissolved | <1110 | ug/L | 3680 | 1110 | 10 | 12/05/17 06:50 | 12/14/17 04:02 | 7439-89-6 | D3 |
| Lead, Dissolved | <2.0 | ug/L | 10.0 | 2.0 | 10 | 12/05/17 06:50 | 12/14/17 04:02 | 7439-92-1 | D3 |
| Manganese, Dissolved | 627 | ug/L | 90.0 | 27.0 | 10 | 12/05/17 06:50 | 12/14/17 04:02 | 7439-96-5 | |
| Selenium, Dissolved | <3.2 | ug/L | 10.6 | 3.2 | 10 | 12/05/17 06:50 | 12/14/17 04:02 | 7782-49-2 | D3 |
| Silver, Dissolved | <1.0 | ug/L | 5.0 | 1.0 | 10 | 12/05/17 06:50 | 12/14/17 04:02 | 7440-22-4 | D3 |
| 7470 Mercury, Dissolved | Analytical | Method: EPA 7 | 470 Prepara | tion Meth | od: EPA | 7470 | | | |
| Mercury, Dissolved | <0.50 | ug/L | 1.7 | 0.50 | 1 | 12/07/17 08:55 | 12/08/17 10:31 | 7439-97-6 | D3 |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | on Metho | od: EPA 3510 | | | |
| Acenaphthene | <0.0064 | ug/L | 0.032 | 0.0064 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 83-32-9 | |
| Acenaphthylene | <0.0052 | ug/L | 0.026 | 0.0052 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 208-96-8 | |
| Anthracene | <0.011 | ug/L | 0.055 | 0.011 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 120-12-7 | |
| Benzo(a)anthracene | <0.0079 | ug/L | 0.040 | 0.0079 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 56-55-3 | |
| Benzo(a)pyrene | <0.011 | ug/L | 0.055 | 0.011 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0060 | ug/L | 0.030 | 0.0060 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0071 | ug/L | 0.036 | 0.0071 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0079 | ug/L | 0.040 | 0.0079 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 207-08-9 | |
| Chrysene | <0.014 | ug/L | 0.069 | 0.014 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.011 | ug/L | 0.053 | 0.011 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 53-70-3 | |
| Fluoranthene | <0.011 | ug/L | 0.056 | 0.011 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 206-44-0 | |
| Fluorene | <0.0084 | ug/L | 0.042 | 0.0084 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.019 | ug/L | 0.093 | 0.019 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 193-39-5 | |
| 1-Methylnaphthalene | <0.0062 | ug/L | 0.031 | 0.0062 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 90-12-0 | |
| 2-Methylnaphthalene | <0.0052 | ug/L | 0.026 | 0.0052 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 91-57-6 | |
| Naphthalene | <0.019 | ug/L | 0.096 | 0.019 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 91-20-3 | |
| Phenanthrene | <0.015 | ug/L | 0.073 | 0.015 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 85-01-8 | |
| Pyrene Surrogates | <0.0081 | ug/L | 0.040 | 0.0081 | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 129-00-0 | |
| 2-Eluorobinhenyl (S) | 50 | % | 35-84 | | 1 | 11/28/17 10:53 | 11/20/17 13.03 | 321-60-8 | |
| Terphenyl-d14 (S) | 67 | % | 10-129 | | 1 | 11/28/17 10:53 | 11/29/17 13:03 | 1718-51-0 | |
| 8260 MSV UST | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 21:37 | 71-43-2 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 21:37 | 100-41-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 21:37 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 21:37 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 21:37 | 108-67-8 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 11/27/17 21:37 | 1330-20-7 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 11/27/17 21:37 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 21:37 | 95-47-6 | |



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

| Sample: 112117012 | Lab ID: | 40161287001 | Collected: | 11/21/1 | 7 08:24 | Received: 11/2 | 22/17 08:50 Ma | atrix: Water | |
|-------------------------------|------------|---------------|-------------|------------|----------|----------------|----------------|--------------|-------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV UST | Analytical | Method: EPA 8 | 260 | | | | | | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 99 | % | 67-130 | | 1 | | 11/27/17 21:37 | 1868-53-7 | |
| Ioluene-d8 (S) | 99 | % | 70-130 | | 1 | | 11/27/17 21:37 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 101 | % | 61-130 | | 1 | | 11/27/17 21:37 | 460-00-4 | |
| 300.0 IC Anions 28 Days | Analytical | Method: EPA 3 | 00.0 | | | | | | |
| Sulfate | <100 | mg/L | 300 | 100 | 100 | | 12/19/17 04:53 | 14808-79-8 | D3,M0 |
| 353.2 Nitrogen, NO2/NO3 pres. | Analytical | Method: EPA 3 | 53.2 | | | | | | |
| Nitrogen, NO2 plus NO3 | 0.50 | mg/L | 0.25 | 0.095 | 1 | | 11/30/17 12:34 | | |
| Sample: 112117013 | Lab ID: | 40161287002 | Collected: | 11/21/1 | 7 09:23 | Received: 11/2 | 22/17 08:50 Ma | atrix: Water | |
| | | | | | | | | | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | ation Meth | od: EPA | 3010 | | | |
| Arsenic, Dissolved | <0.56 | ug/L | 2.0 | 0.56 | 2 | 12/05/17 06:50 | 12/14/17 04:32 | 7440-38-2 | D3 |
| Barium, Dissolved | 107 | ug/L | 2.3 | 0.68 | 2 | 12/05/17 06:50 | 12/14/17 04:32 | 7440-39-3 | |
| Cadmium, Dissolved | <0.16 | ug/L | 2.0 | 0.16 | 2 | 12/05/17 06:50 | 12/14/17 04:32 | 7440-43-9 | D3 |
| Chromium, Dissolved | <2.0 | ug/L | 6.8 | 2.0 | 2 | 12/05/17 06:50 | 12/14/17 04:32 | 7440-47-3 | D3 |
| Iron, Dissolved | <221 | ug/L | 737 | 221 | 2 | 12/05/17 06:50 | 12/14/17 04:32 | 7439-89-6 | D3 |
| Lead, Dissolved | <0.39 | ug/L | 2.0 | 0.39 | 2 | 12/05/17 06:50 | 12/14/17 04:32 | 7439-92-1 | D3 |
| Manganese, Dissolved | 11.8J | ug/L | 18.0 | 5.4 | 2 | 12/05/17 06:50 | 12/14/17 04:32 | 7439-96-5 | D3 |
| Selenium, Dissolved | <0.63 | ug/L | 2.1 | 0.63 | 2 | 12/05/17 06:50 | 12/14/17 04:32 | 7782-49-2 | D3 |
| Silver, Dissolved | <0.20 | ug/L | 1.0 | 0.20 | 2 | 12/05/17 06:50 | 12/14/17 04:32 | 7440-22-4 | D3 |
| 7470 Mercury, Dissolved | Analytical | Method: EPA 7 | 470 Prepara | ation Meth | od: EPA | 7470 | | | |
| Mercury, Dissolved | <0.50 | ug/L | 1.7 | 0.50 | 1 | 12/07/17 08:55 | 12/08/17 10:38 | 7439-97-6 | D3 |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | on Metho | od: EPA 3510 | | | |
| Acenaphthene | <0.0061 | ug/L | 0.031 | 0.0061 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 83-32-9 | |
| Acenaphthylene | <0.0050 | ug/L | 0.025 | 0.0050 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 208-96-8 | |
| Anthracene | <0.011 | ug/L | 0.053 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 120-12-7 | |
| Benzo(a)anthracene | 0.0079J | ug/L | 0.038 | 0.0076 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 56-55-3 | |
| Benzo(a)pyrene | 0.041J | ug/L | 0.053 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 50-32-8 | |
| Benzo(b)fluoranthene | 0.075 | ug/L | 0.029 | 0.0058 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 205-99-2 | |
| Benzo(g,h,i)perylene | 0.051 | ug/L | 0.034 | 0.0068 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 191-24-2 | |
| Benzo(k)fluoranthene | 0.045 | ug/L | 0.038 | 0.0076 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 207-08-9 | |
| Chrysene | 0.091 | ug/L | 0.066 | 0.013 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.010 | ug/L | 0.051 | 0.010 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 53-70-3 | |
| Fluoranthene | 0.15 | ug/L | 0.054 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 206-44-0 | |
| Fluorene | <0.0081 | ug/L | 0.040 | 0.0081 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 0.049J | ug/L | 0.089 | 0.018 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 193-39-5 | |
| 1-Methylnaphthalene | <0.0060 | ug/L | 0.030 | 0.0060 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 90-12-0 | |



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.:

No.: 40161287

| Sample: 112117013 | Lab ID: | 40161287002 | Collected | : 11/21/17 | 7 09:23 | Received: 11/2 | 22/17 08:50 Ma | atrix: Water | |
|-------------------------------|------------|---------------|-------------|------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | on Meth | od: EPA 3510 | | | |
| 2-Methylnaphthalene | <0.0049 | ug/L | 0.025 | 0.0049 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 91-57-6 | |
| Naphthalene | <0.019 | ug/L | 0.093 | 0.019 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 91-20-3 | |
| Phenanthrene | 0.034J | ug/L | 0.070 | 0.014 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 85-01-8 | |
| Pyrene | 0.12 | ug/L | 0.039 | 0.0077 | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 129-00-0 | |
| Surrogates | | - | | | | | | | |
| 2-Fluorobiphenyl (S) | 51 | % | 35-84 | | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 321-60-8 | |
| Terphenyl-d14 (S) | 69 | % | 10-129 | | 1 | 11/28/17 10:53 | 11/30/17 16:59 | 1718-51-0 | |
| 8260 MSV UST | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | <0.50 | ua/L | 1.0 | 0.50 | 1 | | 11/29/17 12:43 | 71-43-2 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/29/17 12:43 | 100-41-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/29/17 12:43 | 108-88-3 | |
| 1.2.4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/29/17 12:43 | 95-63-6 | |
| 1.3.5-Trimethylbenzene | <0.50 | ug/l | 1.0 | 0.50 | 1 | | 11/29/17 12:43 | 108-67-8 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 11/29/17 12:43 | 1330-20-7 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 11/29/17 12:43 | 179601-23-1 | |
| o-Xvlene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/29/17 12:43 | 95-47-6 | |
| Surrogates | 10.00 | ug/L | 1.0 | 0.00 | • | | 11/20/11 12.40 | 50 47 0 | |
| Dibromofluoromethane (S) | 101 | % | 67-130 | | 1 | | 11/29/17 12:43 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 11/29/17 12:43 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 | % | 61-130 | | 1 | | 11/29/17 12:43 | 460-00-4 | |
| 300.0 IC Anions 28 Days | Analytical | Method: EPA 3 | 00.0 | | | | | | |
| Sulfata | 2741 | ~~~/l | 200 | 100 | 100 | | 12/10/17 12:00 | 14000 70 0 | D2 |
| Sullate | 274J | | 300 | 100 | 100 | | 12/19/17 13:00 | 14000-79-0 | D3 |
| 353.2 Nitrogen, NO2/NO3 pres. | Analytical | Method: EPA 3 | 53.2 | | | | | | |
| Nitrogen, NO2 plus NO3 | <0.095 | mg/L | 0.25 | 0.095 | 1 | | 11/30/17 12:37 | | |
| Sample: 112117014 | Lab ID: | 40161287003 | Collected | : 11/21/17 | 7 09:33 | Received: 11/2 | 22/17 08:50 Ma | atrix: Water | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| | | | | | | | | | |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | ation Meth | od: EPA | 3010 | | | |
| Arsenic, Dissolved | <0.56 | ug/L | 2.0 | 0.56 | 2 | 12/05/17 06:50 | 12/14/17 04:39 | 7440-38-2 | D3 |
| Barium, Dissolved | 106 | ug/L | 2.3 | 0.68 | 2 | 12/05/17 06:50 | 12/14/17 04:39 | 7440-39-3 | |
| Cadmium, Dissolved | <0.16 | ug/L | 2.0 | 0.16 | 2 | 12/05/17 06:50 | 12/14/17 04:39 | 7440-43-9 | D3 |
| Chromium, Dissolved | <5.1 | ug/L | 17.0 | 5.1 | 5 | 12/05/17 06:50 | 12/14/17 11:18 | 7440-47-3 | D3 |
| Iron, Dissolved | <553 | ug/L | 1840 | 553 | 5 | 12/05/17 06:50 | 12/14/17 11:18 | 7439-89-6 | D3 |
| Lead, Dissolved | <0.39 | ug/L | 2.0 | 0.39 | 2 | 12/05/17 06:50 | 12/14/17 04:39 | 7439-92-1 | D3 |
| Manganese, Dissolved | <13.5 | ug/L | 45.0 | 13.5 | 5 | 12/05/17 06:50 | 12/14/17 11:18 | 7439-96-5 | D3 |
| Selenium, Dissolved | <0.63 | ug/L | 2.1 | 0.63 | 2 | 12/05/17 06:50 | 12/14/17 04:39 | 7782-49-2 | D3 |
| Silver, Dissolved | <0.20 | ug/L | 1.0 | 0.20 | 2 | 12/05/17 06:50 | 12/14/17 04:39 | 7440-22-4 | D3 |



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

| Sample: 112117014 | Lab ID: 40161287003 | | Collected | d: 11/21/17 | 7 09:33 | Received: 11/22/17 08:50 Matrix: Water | | | |
|-------------------------------|---------------------|----------------|------------|-------------|---------|--|----------------|---------------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 7470 Mercury, Dissolved | Analytical | Method: EPA 74 | 470 Prepa | ration Meth | od: EPA | - <u>-</u> 7470 | | - | |
| Mercury, Dissolved | <0.50 | ug/L | 1.7 | 0.50 | 1 | 12/07/17 08:55 | 12/08/17 10:40 | 7439-97-6 | D3 |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 82 | 270 by HVI | Preparatio | n Meth | od: EPA 3510 | | | |
| Acenaphthene | <0.0063 | ua/L | 0.032 | 0.0063 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 83-32-9 | |
| Acenaphthylene | <0.0052 | ug/L | 0.026 | 0.0052 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 208-96-8 | |
| Anthracene | <0.011 | ug/L | 0.054 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 120-12-7 | |
| Benzo(a)anthracene | <0.0079 | ug/L | 0.039 | 0.0079 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 56-55-3 | |
| Benzo(a)pyrene | 0.045J | ug/l | 0.055 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 50-32-8 | |
| Benzo(b)fluoranthene | 0.088 | ug/l | 0.030 | 0.0060 | 1 | 11/28/17 10:53 | 11/30/17 17 18 | 205-99-2 | |
| Benzo(a h i)pervlene | 0.056 | ug/L | 0.000 | 0.0071 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 191-24-2 | |
| Benzo(k)fluoranthene | 0.056 | ug/L | 0.000 | 0.0071 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 207-08-9 | |
| Chrysene | 0.030 | ug/L | 0.000 | 0.0073 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 218-01-9 | |
| Dibonz(a h)anthracana | ~0.010 | ug/L | 0.000 | 0.014 | 1 | 11/20/17 10:53 | 11/20/17 17:19 | 52 70 2 | |
| Elucrophono | <0.010 | ug/∟ | 0.052 | 0.010 | 1 | 11/20/17 10:53 | 11/30/17 17.10 | 206 44 0 | |
| Fluorantinene | -0.0092 | ug/∟ | 0.050 | 0.011 | 1 | 11/20/17 10.00 | 11/30/17 17.10 | 200-44-0 | |
| | <0.0063 | ug/L | 0.042 | 0.0083 | 1 | 11/26/17 10:53 | 11/30/17 17:10 | 00-73-7 400-00-5 | |
| Indeno(1,2,3-cd)pyrene | 0.054J | ug/L | 0.092 | 0.018 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 193-39-5 | |
| | <0.0061 | ug/L | 0.031 | 0.0061 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 90-12-0 | |
| | <0.0051 | ug/L | 0.026 | 0.0051 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 91-57-6 | |
| Naphthalene | <0.019 | ug/L | 0.095 | 0.019 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 91-20-3 | |
| Phenanthrene | 0.038J | ug/L | 0.072 | 0.014 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 85-01-8 | |
| Pyrene | 0.13 | ug/L | 0.040 | 0.0080 | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 52 | % | 35-84 | | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 321-60-8 | |
| Terphenyl-d14 (S) | 71 | % | 10-129 | | 1 | 11/28/17 10:53 | 11/30/17 17:18 | 1718-51-0 | |
| 8260 MSV UST | Analytical | Method: EPA 82 | 260 | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 22:45 | 71-43-2 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 22:45 | 100-41-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 22:45 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 22:45 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 22:45 | 108-67-8 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 11/27/17 22:45 | 1330-20-7 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 11/27/17 22:45 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 22:45 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 101 | % | 67-130 | | 1 | | 11/27/17 22:45 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 11/27/17 22:45 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | % | 61-130 | | 1 | | 11/27/17 22:45 | 460-00-4 | |
| 300.0 IC Anions 28 Days | Analytical | Method: EPA 30 | 0.00 | | | | | | |
| Sulfate | 270J | mg/L | 300 | 100 | 100 | | 12/19/17 13:12 | 14808-79-8 | D3 |
| 353.2 Nitrogen, NO2/NO3 pres. | Analytical | Method: EPA 3 | 53.2 | | | | | | |
| Nitrogen, NO2 plus NO3 | <0.095 | mg/L | 0.25 | 0.095 | 1 | | 11/30/17 12:39 | | |



Project: 1584/22.2 GREEN BAY FORMER MGP

1 10,000

Pace Project No.: 40161287

| Sample: 112117015 | Lab ID: | 40161287004 | Collected | : 11/21/17 | 7 10:11 | Received: 11/2 | 22/17 08:50 Ma | atrix: Water | |
|---------------------------|------------|---------------|-------------|------------|----------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | ation Meth | od: EPA | 3010 | | | |
| Arsenic, Dissolved | <1.4 | ug/L | 5.0 | 1.4 | 5 | 12/05/17 06:50 | 12/14/17 05:02 | 7440-38-2 | D3 |
| Barium, Dissolved | 22.3 | ug/L | 5.7 | 1.7 | 5 | 12/05/17 06:50 | 12/14/17 05:02 | 7440-39-3 | |
| Cadmium, Dissolved | <0.40 | ug/L | 5.0 | 0.40 | 5 | 12/05/17 06:50 | 12/14/17 05:02 | 7440-43-9 | D3 |
| Chromium, Dissolved | <5.1 | ug/L | 17.0 | 5.1 | 5 | 12/05/17 06:50 | 12/14/17 05:02 | 7440-47-3 | D3 |
| Iron, Dissolved | <553 | ug/L | 1840 | 553 | 5 | 12/05/17 06:50 | 12/14/17 05:02 | 7439-89-6 | D3 |
| Lead, Dissolved | <0.98 | ug/L | 5.0 | 0.98 | 5 | 12/05/17 06:50 | 12/14/17 05:02 | 7439-92-1 | D3 |
| Manganese, Dissolved | <13.5 | ug/L | 45.0 | 13.5 | 5 | 12/05/17 06:50 | 12/14/17 05:02 | 7439-96-5 | D3 |
| Selenium, Dissolved | <1.6 | ug/L | 5.3 | 1.6 | 5 | 12/05/17 06:50 | 12/14/17 05:02 | 7782-49-2 | D3 |
| Silver, Dissolved | <0.50 | ug/L | 2.5 | 0.50 | 5 | 12/05/17 06:50 | 12/14/17 05:02 | 7440-22-4 | D3 |
| 7470 Mercury, Dissolved | Analytical | Method: EPA 7 | 470 Prepara | ation Meth | od: EPA | 7470 | | | |
| Mercury, Dissolved | <0.13 | ug/L | 0.42 | 0.13 | 1 | 12/07/17 08:55 | 12/08/17 10:47 | 7439-97-6 | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatic | on Metho | od: EPA 3510 | | | |
| Acenaphthene | <0.0063 | ug/L | 0.031 | 0.0063 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 83-32-9 | |
| Acenaphthylene | <0.0051 | ug/L | 0.026 | 0.0051 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 208-96-8 | |
| Anthracene | <0.011 | ug/L | 0.054 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 120-12-7 | |
| Benzo(a)anthracene | <0.0078 | ug/L | 0.039 | 0.0078 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 56-55-3 | |
| Benzo(a)pyrene | <0.011 | ug/L | 0.054 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 50-32-8 | |
| Benzo(b)fluoranthene | 0.0068J | ug/L | 0.030 | 0.0059 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0070 | ug/L | 0.035 | 0.0070 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0078 | ug/L | 0.039 | 0.0078 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 207-08-9 | |
| Chrysene | <0.013 | ug/L | 0.067 | 0.013 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.010 | ug/L | 0.052 | 0.010 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 53-70-3 | |
| Fluoranthene | 0.013J | ug/L | 0.055 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 206-44-0 | |
| Fluorene | <0.0082 | ug/L | 0.041 | 0.0082 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.018 | ug/L | 0.091 | 0.018 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 193-39-5 | |
| 1-Methylnaphthalene | <0.0061 | ug/L | 0.030 | 0.0061 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 90-12-0 | |
| 2-Methylnaphthalene | <0.0051 | ug/L | 0.025 | 0.0051 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 91-57-6 | |
| Naphthalene | <0.019 | ug/L | 0.094 | 0.019 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 91-20-3 | |
| Phenanthrene | <0.014 | ug/L | 0.071 | 0.014 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 85-01-8 | |
| Pyrene | 0.013J | ug/L | 0.039 | 0.0079 | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 129-00-0 | |
| 2-Eluorobinhenvl (S) | 57 | % | 35-84 | | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 321-60-8 | |
| Terphenyl-d14 (S) | 74 | % | 10-129 | | 1 | 11/28/17 10:53 | 11/30/17 17:36 | 1718-51-0 | |
| 8260 MSV UST | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 23:07 | 71-43-2 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 23:07 | 100-41-4 | |
| Toluene | 0.88J | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 23:07 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 23:07 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 23:07 | 108-67-8 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 11/27/17 23:07 | 1330-20-7 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 11/27/17 23:07 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 23:07 | 95-47-6 | |



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No .:

lo.: 40161287

| mple: 112117015 Lab ID: 40161287004 Collected: 11/21/17 10:11 | | | I1 Received: 11/22/17 08:50 Matrix: Water | | | | | | |
|---|------------|---------------|---|------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV UST | Analytical | Method: EPA 8 | 260 | | | | | | |
| Surrogates | 404 | 0/ | 67 400 | | | | 44/07/47 00:07 | 4000 50 7 | |
| Dibromotiuorometnane (S) | 101 | % | 67-130 70.420 | | 1 | | 11/27/17 23:07 | 1868-53-7 | |
| 10iuene-uo (S) | 90 | 70 0/ | 70-130 61 130 | | 1 | | 11/27/17 23:07 | 2037-20-5 | |
| | 100 | /0 | 01-130 | | 1 | | 11/21/11/23.07 | 400-00-4 | |
| 300.0 IC Anions 28 Days | Analytical | Method: EPA 3 | 00.0 | | | | | | |
| Sulfate | 1780 | mg/L | 300 | 100 | 100 | | 12/19/17 13:24 | 14808-79-8 | |
| 353.2 Nitrogen, NO2/NO3 pres. | Analytical | Method: EPA 3 | 53.2 | | | | | | |
| Nitrogen, NO2 plus NO3 | 0.20J | mg/L | 0.25 | 0.095 | 1 | | 11/30/17 12:40 | | |
| Sample: 112117016 | Lab ID: | 40161287005 | Collected: | 11/21/17 | 10:50 | Received: 11/2 | 22/17 08:50 Ma | atrix: Water | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | tion Metho | od: EPA | 3010 | | | |
| Arsenic, Dissolved | <5.6 | ug/L | 20.0 | 5.6 | 20 | 12/05/17 06:50 | 12/14/17 05:09 | 7440-38-2 | D3 |
| Barium, Dissolved | 326 | ug/L | 22.8 | 6.8 | 20 | 12/05/17 06:50 | 12/14/17 05:09 | 7440-39-3 | |
| Cadmium, Dissolved | <1.6 | ug/L | 20.0 | 1.6 | 20 | 12/05/17 06:50 | 12/14/17 05:09 | 7440-43-9 | D3 |
| Chromium, Dissolved | <20.4 | ug/L | 68.0 | 20.4 | 20 | 12/05/17 06:50 | 12/14/17 05:09 | 7440-47-3 | D3 |
| Iron, Dissolved | <2210 | ug/L | 7370 | 2210 | 20 | 12/05/17 06:50 | 12/14/17 05:09 | 7439-89-6 | D3 |
| Lead, Dissolved | <3.9 | ug/L | 20.0 | 3.9 | 20 | 12/05/17 06:50 | 12/14/17 05:09 | 7439-92-1 | D3 |
| Manganese, Dissolved | 3370 | ug/L | 180 | 54.0 | 20 | 12/05/17 06:50 | 12/14/17 05:09 | 7439-96-5 | |
| Selenium, Dissolved | <6.3 | ug/L | 21.2 | 6.3 | 20 | 12/05/17 06:50 | 12/14/17 05:09 | 7782-49-2 | D3 |
| Silver, Dissolved | <2.0 | ug/L | 10.0 | 2.0 | 20 | 12/05/17 06:50 | 12/14/17 05:09 | 7440-22-4 | D3 |
| 7470 Mercury, Dissolved | Analytical | Method: EPA 7 | 470 Prepara | tion Metho | od: EPA | 7470 | | | |
| Mercury, Dissolved | <0.50 | ug/L | 1.7 | 0.50 | 1 | 12/07/17 08:55 | 12/08/17 10:50 | 7439-97-6 | D3 |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Metho | od: EPA 3510 | | | |
| Acenaphthene | <0.0062 | ug/L | 0.031 | 0.0062 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 83-32-9 | |
| Acenaphthylene | <0.0051 | ug/L | 0.025 | 0.0051 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 208-96-8 | |
| Anthracene | <0.011 | ug/L | 0.053 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 120-12-7 | |
| Benzo(a)anthracene | <0.0077 | ug/L | 0.039 | 0.0077 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 56-55-3 | |
| Benzo(a)pyrene | <0.011 | ug/L | 0.054 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0059 | ug/L | 0.029 | 0.0059 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0069 | ug/L | 0.035 | 0.0069 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0077 | ug/L | 0.039 | 0.0077 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 207-08-9 | |
| Chrysene | <0.013 | ug/L | 0.067 | 0.013 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.010 | ug/L | 0.051 | 0.010 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 53-70-3 | |
| Fluoranthene | <0.011 | ug/L | 0.054 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 206-44-0 | |
| Fluorene | <0.0081 | ug/L | 0.041 | 0.0081 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.018 | ug/L | 0.090 | 0.018 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 193-39-5 | |
| 1-Methylnaphthalene | <0.0060 | ug/L | 0.030 | 0.0060 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 90-12-0 | |



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.:

No.: 40161287

| Sample: 112117016 | Lab ID: | Lab ID: 40161287005 | | Collected: 11/21/17 10:50 | | | Received: 11/22/17 08:50 Matrix: Water | | | | |
|-------------------------------|------------|---------------------|------------|---------------------------|--------|----------------|--|-------------|------|--|--|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual | | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Meth | nod: EPA 3510 | | | | | |
| 2-Methylnaphthalene | <0.0050 | ug/L | 0.025 | 0.0050 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 91-57-6 | | | |
| Naphthalene | <0.019 | ug/L | 0.094 | 0.019 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 91-20-3 | | | |
| Phenanthrene | <0.014 | ug/L | 0.070 | 0.014 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 85-01-8 | | | |
| Pyrene | <0.0078 | ug/L | 0.039 | 0.0078 | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 129-00-0 | | | |
| Surrogates | | | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 56 | % | 35-84 | | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 321-60-8 | | | |
| Terphenyl-d14 (S) | 80 | % | 10-129 | | 1 | 11/28/17 10:53 | 11/30/17 17:54 | 1718-51-0 | | | |
| 8260 MSV UST | Analytical | Method: EPA 8 | 260 | | | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/30/17 15:21 | 71-43-2 | | | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/30/17 15:21 | 100-41-4 | | | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/30/17 15:21 | 108-88-3 | | | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/30/17 15:21 | 95-63-6 | | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/30/17 15:21 | 108-67-8 | | | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 11/30/17 15:21 | 1330-20-7 | | | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 11/30/17 15:21 | 179601-23-1 | | | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/30/17 15:21 | 95-47-6 | | | |
| Surrogates | | - | | | | | | | | | |
| Dibromofluoromethane (S) | 117 | % | 67-130 | | 1 | | 11/30/17 15:21 | 1868-53-7 | | | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 1 | | 11/30/17 15:21 | 2037-26-5 | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 61-130 | | 1 | | 11/30/17 15:21 | 460-00-4 | | | |
| 300.0 IC Anions 28 Days | Analytical | Method: EPA 3 | 00.0 | | | | | | | | |
| Sulfate | 385 | mg/L | 300 | 100 | 100 | | 12/19/17 13:36 | 14808-79-8 | | | |
| 353.2 Nitrogen, NO2/NO3 pres. | Analytical | Method: EPA 3 | 53.2 | | | | | | | | |
| Nitrogen. NO2 plus NO3 | <0.095 | ma/L | 0.25 | 0.095 | 1 | | 11/30/17 12:44 | | | | |



| Project: | 1584/22.2 GREE | N BAY FORMER M | GP | | | | | | | | | |
|--------------------|------------------|-------------------|------------|--------------|------------|-------------|-----------|------------|-----------|-----|-----|------|
| Pace Project No.: | 40161287 | | | | | | | | | | | |
| QC Batch: | 276418 | | Analys | sis Method: | E | PA 7470 | | | | | | |
| QC Batch Method: | EPA 7470 | | Analys | sis Descript | ion: 74 | 470 Mercury | Dissolved | | | | | |
| Associated Lab San | nples: 40161287 | 7001, 40161287002 | , 40161287 | 003, 40161 | 1287004, 4 | 016128700 | 5 | | | | | |
| METHOD BLANK: | 1625781 | | Ν | Matrix: Wat | ter | | | | | | | |
| Associated Lab San | nples: 40161287 | 7001, 40161287002 | , 40161287 | 003, 40161 | 1287004, 4 | 016128700 | 5 | | | | | |
| | | | Blank | K R | eporting | | | | | | | |
| Paran | neter | Units | Resul | t | Limit | Analyz | ed | Qualifiers | | | | |
| Mercury, Dissolved | | ug/L | | <0.13 | 0.42 | 12/08/17 | 10:27 | | | | | |
| LABORATORY COM | NTROL SAMPLE: | 1625782 | | | | | | | | | | |
| | | | Spike | LCS | ; | LCS | % Rec | ; | | | | |
| Paran | neter | Units | Conc. | Resu | lt | % Rec | Limits | Q | ualifiers | | | |
| Mercury, Dissolved | | ug/L | 5 | | 5.0 | 100 | 85 | -115 | | - | | |
| MATRIX SPIKE & M | IATRIX SPIKE DUI | PLICATE: 16257 | 83 | | 1625784 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 40161287001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | er Un | its Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Mercury, Dissolved | ug | /L <0.50 | 20 | 20 | 19.4 | 19.2 | 97 | 96 | 85-115 | 1 | 20 | |

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



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

| QC Batch: | 27590 | 01 | | Analysis Me | ethod: |
|---------------------|-------|--------------|--------------|--------------|------------|
| QC Batch Method: | EPA 3 | 3010 | | Analysis De | scription: |
| Associated Lab Samp | oles: | 40161287001, | 40161287002, | 40161287003, | 40161287 |

6020 MET Dissolved 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

EPA 6020

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

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

LABORATORY CONTROL SAMPLE: 1622807

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

| MATRIX SPIKE & MATRIX S | | ATE: 16228 | 08 | | 1622809 | | | | | | | |
|-------------------------|-------|------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 4 | 0161271001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Arsenic, Dissolved | ug/L | 3.1 | 500 | 500 | 506 | 504 | 101 | 100 | 75-125 | 0 | 20 | |
| Barium, Dissolved | ug/L | 59.7 | 500 | 500 | 545 | 540 | 97 | 96 | 75-125 | 1 | 20 | |
| Cadmium, Dissolved | ug/L | 0.18J | 500 | 500 | 491 | 490 | 98 | 98 | 75-125 | 0 | 20 | |
| Chromium, Dissolved | ug/L | <1.0 | 500 | 500 | 476 | 477 | 95 | 95 | 75-125 | 0 | 20 | |
| Iron, Dissolved | ug/L | 182J | 5000 | 5000 | 4880 | 4880 | 94 | 94 | 75-125 | 0 | 20 | |
| Lead, Dissolved | ug/L | 2.1 | 500 | 500 | 491 | 493 | 98 | 98 | 75-125 | 0 | 20 | |
| Manganese, Dissolved | ug/L | 101 | 500 | 500 | 575 | 577 | 95 | 95 | 75-125 | 0 | 20 | |
| Selenium, Dissolved | ug/L | 0.55J | 500 | 500 | 526 | 523 | 105 | 104 | 75-125 | 1 | 20 | |
| Silver, Dissolved | ug/L | <0.10 | 250 | 250 | 238 | 235 | 95 | 94 | 75-125 | 1 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

| MATRIX SPIKE & MATRIX S | ATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622823 1622824 | | | | | | | | | | | |
|-------------------------|---|------------|-------|-------|--------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 4 | 0161287001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Arsenic, Dissolved | ug/L | <2.8 | 500 | 500 | 517 | 510 | 103 | 102 | 75-125 | 1 | 20 | |
| Barium, Dissolved | ug/L | 272 | 500 | 500 | 760 | 769 | 98 | 99 | 75-125 | 1 | 20 | |
| Cadmium, Dissolved | ug/L | <0.81 | 500 | 500 | 512 | 514 | 102 | 103 | 75-125 | 0 | 20 | |
| Chromium, Dissolved | ug/L | <10.2 | 500 | 500 | 491 | 498 | 98 | 100 | 75-125 | 2 | 20 | |
| Iron, Dissolved | ug/L | <1110 | 5000 | 5000 | 4910 | 4980 | 98 | 99 | 75-125 | 1 | 20 | |
| Lead, Dissolved | ug/L | <2.0 | 500 | 500 | 490 | 496 | 98 | 99 | 75-125 | 1 | 20 | |
| Manganese, Dissolved | ug/L | 627 | 500 | 500 | 1120 | 1150 | 98 | 104 | 75-125 | 3 | 20 | |
| Selenium, Dissolved | ug/L | <3.2 | 500 | 500 | 531 | 539 | 106 | 108 | 75-125 | 1 | 20 | |
| Silver, Dissolved | ug/L | <1.0 | 250 | 250 | 250 | 251 | 100 | 101 | 75-125 | 1 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

| QC Batch: | 275242 | Analysis Method: | EPA 8260 |
|--------------------|------------------------------------|-----------------------|--------------------|
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV UST-WATER |
| Associated Lab Sam | bles: 40161287001, 40161287003, 40 | 0161287004 | |

METHOD BLANK: 1619400

| METHOD BLANK: | 161940 | 0 | Matrix: | Water |
|--------------------|--------|--------------------------------|----------|-------|
| Associated Lab Sam | nples: | 40161287001, 40161287003, 4016 | 61287004 | |

| 101012 | | , 10101201001 | | | |
|--------------------------|-------|---------------|-----------|----------------|------------|
| | | Blank | Reporting | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| 1,2,4-Trimethylbenzene | ug/L | <0.50 | 1.0 | 11/27/17 17:06 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.50 | 1.0 | 11/27/17 17:06 | |
| Benzene | ug/L | <0.50 | 1.0 | 11/27/17 17:06 | |
| Ethylbenzene | ug/L | <0.50 | 1.0 | 11/27/17 17:06 | |
| m&p-Xylene | ug/L | <1.0 | 2.0 | 11/27/17 17:06 | |
| o-Xylene | ug/L | <0.50 | 1.0 | 11/27/17 17:06 | |
| Toluene | ug/L | <0.50 | 1.0 | 11/27/17 17:06 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 11/27/17 17:06 | |
| 4-Bromofluorobenzene (S) | % | 94 | 61-130 | 11/27/17 17:06 | |
| Dibromofluoromethane (S) | % | 108 | 67-130 | 11/27/17 17:06 | |
| Toluene-d8 (S) | % | 98 | 70-130 | 11/27/17 17:06 | |
| | | | | | |

LABORATORY CONTROL SAMPLE: 1619401

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

| MATRIX SPIKE & MATRIX SPI | TRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619402 1619403 | | | | | | | | | | | |
|---------------------------|--|------------|-------|-------|--------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 4 | 0161287001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Benzene | ug/L | <0.50 | 49.6 | 49.6 | 47.0 | 46.2 | 95 | 93 | 73-145 | 2 | 20 | |
| Ethylbenzene | ug/L | <0.50 | 49.6 | 49.6 | 56.8 | 51.8 | 114 | 104 | 87-129 | 9 | 20 | |
| m&p-Xylene | ug/L | <1.0 | 99.2 | 99.2 | 111 | 105 | 112 | 106 | 70-130 | 6 | 20 | |
| o-Xylene | ug/L | <0.50 | 49.6 | 49.6 | 51.8 | 49.8 | 104 | 100 | 70-130 | 4 | 20 | |
| Toluene | ug/L | <0.50 | 49.6 | 49.6 | 55.1 | 52.0 | 110 | 104 | 82-131 | 6 | 20 | |
| Xylene (Total) | ug/L | <1.5 | 149 | 149 | 163 | 155 | 109 | 104 | 70-130 | 5 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 112 | 104 | 61-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 100 | 103 | 67-130 | | | |
| Toluene-d8 (S) | % | | | | | | 102 | 100 | 70-130 | | | |

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Project: 1584/22.2 GREEN BAY FORMER MGP

| Pace Project No.: 40161287 | | | | | |
|---------------------------------|-------|--------------|--------------|--------------------|------------|
| QC Batch: 275528 | | Analysis Met | hod: EF | PA 8260 | |
| QC Batch Method: EPA 8260 | | Analysis Des | cription: 82 | 8260 MSV UST-WATER | |
| Associated Lab Samples: 4016128 | 7002 | | | | |
| METHOD BLANK: 1620472 | | Matrix: | Water | | |
| Associated Lab Samples: 4016128 | 7002 | | | | |
| | | Blank | Reporting | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| 1,2,4-Trimethylbenzene | ug/L | <0.50 | 1.0 | 11/29/17 07:21 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.50 | 1.0 | 11/29/17 07:21 | |
| Benzene | ug/L | <0.50 | 1.0 | 11/29/17 07:21 | |
| Ethylbenzene | ug/L | <0.50 | 1.0 | 11/29/17 07:21 | |
| m&p-Xylene | ug/L | <1.0 | 2.0 | 11/29/17 07:21 | |
| o-Xylene | ug/L | <0.50 | 1.0 | 11/29/17 07:21 | |
| Toluene | ug/L | <0.50 | 1.0 | 11/29/17 07:21 | |

<1.5

105

105

104

3.0 11/29/17 07:21

61-130 11/29/17 07:21

67-130 11/29/17 07:21

70-130 11/29/17 07:21

| LABORATORY CONTROL SAMPLE: | 1620473 |
|----------------------------|---------|

Xylene (Total)

Toluene-d8 (S)

4-Bromofluorobenzene (S)

Dibromofluoromethane (S)

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

ug/L

%

%

%

| MATRIX SPIKE & MATRIX SPI | KE DUPLICA | TE: 16205 | 94 | | 1620595 | | | | | | | |
|---------------------------|------------|------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 4 | 0161286018 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Benzene | ug/L | 1070 | 50 | 50 | 1220 | 1150 | 307 | 169 | 73-145 | 6 | 20 | E,M1 |
| Ethylbenzene | ug/L | 64.0 | 50 | 50 | 140 | 137 | 152 | 146 | 87-129 | 2 | 20 | M1 |
| m&p-Xylene | ug/L | 50.1 | 100 | 100 | 182 | 171 | 132 | 121 | 70-130 | 6 | 20 | M1 |
| o-Xylene | ug/L | 50.9 | 50 | 50 | 122 | 117 | 143 | 132 | 70-130 | 5 | 20 | M1 |
| Toluene | ug/L | 25.5 | 50 | 50 | 92.8 | 90.5 | 135 | 130 | 82-131 | 3 | 20 | M1 |
| Xylene (Total) | ug/L | 101 | 150 | 150 | 305 | 288 | 136 | 125 | 70-130 | 6 | 20 | MS |
| 4-Bromofluorobenzene (S) | % | | | | | | 106 | 106 | 61-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 110 | 112 | 67-130 | | | |
| Toluene-d8 (S) | % | | | | | | 104 | 105 | 70-130 | | | |

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

| Pace Project No.: 40161287 | | | | | |
|-------------------------------------|-------|---------------|--------------|----------------|------------|
| QC Batch: 275619 | | Analysis Meth | nod: EF | PA 8260 | |
| QC Batch Method: EPA 8260 | | Analysis Desc | cription: 82 | 60 MSV UST-WAT | ER |
| Associated Lab Samples: 40161287005 | | | | | |
| METHOD BLANK: 1620983 | | Matrix: | Water | | |
| Associated Lab Samples: 40161287005 | | | | | |
| | | Blank | Reporting | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| 1,2,4-Trimethylbenzene | ug/L | <0.50 | 1.0 | 11/30/17 08:46 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.50 | 1.0 | 11/30/17 08:46 | |
| Benzene | ug/L | <0.50 | 1.0 | 11/30/17 08:46 | |
| Ethylbenzene | ug/L | <0.50 | 1.0 | 11/30/17 08:46 | |
| m&p-Xylene | ug/L | <1.0 | 2.0 | 11/30/17 08:46 | |
| N/ 1 | | | | | |

| Etnyibenzene | ug/L | <0.50 | 1.0 | 11/30/17 08:46 | |
|--------------------------|------|-------|--------|----------------|--|
| m&p-Xylene | ug/L | <1.0 | 2.0 | 11/30/17 08:46 | |
| o-Xylene | ug/L | <0.50 | 1.0 | 11/30/17 08:46 | |
| Toluene | ug/L | <0.50 | 1.0 | 11/30/17 08:46 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 11/30/17 08:46 | |
| 4-Bromofluorobenzene (S) | % | 91 | 61-130 | 11/30/17 08:46 | |
| Dibromofluoromethane (S) | % | 116 | 67-130 | 11/30/17 08:46 | |
| Toluene-d8 (S) | % | 96 | 70-130 | 11/30/17 08:46 | |

LABORATORY CONTROL SAMPLE: 1620984

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

| MATRIX SPIKE & MATRIX SPIKE D | JPLIC | CATE: 162098 | 85 | | 1620986 | | | | | | | |
|-------------------------------|-------|--------------|-------------|--------------|---------|--------|-------|-------|--------|-----|-----|------|
| | | 40161434001 | MS Spike | MSD Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | nits | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Benzene | g/L | <0.50 | 50 | 50 | 51.4 | 54.1 | 103 | 108 | 73-145 | 5 | 20 | |
| Ethylbenzene | g/L | <0.50 | 50 | 50 | 52.5 | 52.3 | 105 | 105 | 87-129 | 0 | 20 | |
| m&p-Xylene u | g/L | <1.0 | 100 | 100 | 111 | 109 | 111 | 109 | 70-130 | 2 | 20 | |
| o-Xylene u | g/L | <0.50 | 50 | 50 | 52.7 | 51.1 | 105 | 102 | 70-130 | 3 | 20 | |
| Toluene | g/L | <0.50 | 50 | 50 | 54.1 | 51.3 | 108 | 103 | 82-131 | 5 | 20 | |
| Xylene (Total) | g/L | <1.5 | 150 | 150 | 164 | 161 | 109 | 107 | 70-130 | 2 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 100 | 96 | 61-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 113 | 116 | 67-130 | | | |
| Toluene-d8 (S) | % | | | | | | 101 | 94 | 70-130 | | | |

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

| QC Batch: | 275368 | 3 | Analysis Method: | EPA 8270 by HVI |
|---------------------|--------|------------------------------|------------------------|-----------------------|
| QC Batch Method: | EPA 35 | 510 | Analysis Description: | 8270 Water PAH by HVI |
| Associated Lab Samp | oles: | 40161287001, 40161287002, 40 | 161287003, 40161287004 | , 40161287005 |

METHOD BLANK: 1619786

Matrix: Water

Associated Lab Samples: 40161287001, 40161287002, 40161287003, 40161287004, 40161287005

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

LABORATORY CONTROL SAMPLE: 1619787

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

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QUALITY CONTROL DATA

Project: 1584/22.2 GREEN BAY FORMER MGP

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

Pace Project No.: 40161287

| LABORATORY CONTROL SAMPLE: | 1619787 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| Phenanthrene | ug/L | 2 | 1.4 | 72 | 46-96 | |
| Pyrene | ug/L | 2 | 1.6 | 82 | 57-110 | |
| 2-Fluorobiphenyl (S) | % | | | 61 | 35-84 | |
| Terphenyl-d14 (S) | % | | | 76 | 10-129 | |

1619789

MSD

% Rec

66

63

62

% Rec

Limits

27-86

30-86

Max

35

Qual

RPD RPD

5 29

7

MS MSD 40161287001 MS Spike Spike MSD MS Parameter Units Result Conc. Conc. Result Result % Rec 1-Methylnaphthalene 2.1 2 ug/L < 0.0062 1.3 1.3 < 0.0052 2 58 2-Methylnaphthalene ug/L 2.1 1.2 1.3

1619788

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

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QUALITY CONTROL DATA

| Project: | 1584/22.2 GREEN | BAY FORMER M | GP | | | | | | | | | |
|--------------------|-------------------|-----------------|------------|------------------------|------------|--------------|--------|------------|-----------|-----|-----|------|
| Pace Project No .: | 40161287 | | | | | | | | | | | |
| QC Batch: | 275924 | | Analys | is Method: | E | PA 300.0 | | | | | | |
| QC Batch Method: | EPA 300.0 | | Analys | is Descript | ion: 3 | 00.0 IC Anio | ons | | | | | |
| Associated Lab San | nples: 401612870 | 01, 40161287002 | , 40161287 | 003, 4016 [,] | 1287004, 4 | 1016128700 | 5 | | | | | |
| METHOD BLANK: | 1623207 | | Ν | Aatrix: Wat | ter | | | | | | | |
| Associated Lab San | nples: 401612870 | 01, 40161287002 | , 40161287 | 003, 4016 [,] | 1287004, 4 | 016128700 | 5 | | | | | |
| | | | Blank | K R | eporting | | | | | | | |
| Paran | neter | Units | Resul | t | Limit | Analyz | .ed | Qualifiers | | | | |
| Sulfate | | mg/L | | <1.0 | 3.0 |) 12/18/17 | 23:52 | | | | | |
| | | 1623208 | | | | | | | | | | |
| | | | Spike | LCS | ; | LCS | % Rec | : | | | | |
| Paran | neter | Units | Conc. | Resu | lt | % Rec | Limits | Qı | ualifiers | | | |
| Sulfate | | mg/L | 20 | | 21.0 | 105 | 90 | -110 | | - | | |
| MATRIX SPIKE & M | | ICATE: 16232 | 09 | | 1623210 | | | | | | | |
| | | 10/112: 10202 | MS | MSD | 1020210 | | | | | | | |
| | | 40161286005 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | er Units | s Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Sulfate | mg/L | <100 | 2000 | 2000 | 2240 | 2310 | 111 | 115 | 90-110 | 3 | 15 | M0 |
| MATRIX SPIKE & M | IATRIX SPIKE DUPL | ICATE: 16232 | 11 | | 1623212 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 40161287001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | er Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Sulfate | mg/L | <100 | 2000 | 2000 | 2520 | 2460 | 123 | 120 | 90-110 | 2 | 15 | MO |

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.



QUALITY CONTROL DATA

| Project: | 1584/22.2 GREEN | BAY FORMER M | GP | | | | | | | | | |
|--------------------|------------------|------------------|------------|-------------|------------|--------------|--------------|------------|-----------|-----|-----|------|
| Pace Project No.: | 40161287 | | | | | | | | | | | |
| QC Batch: | 275722 | | Analys | is Method: | E | PA 353.2 | | | | | | |
| QC Batch Method: | EPA 353.2 | | Analys | is Descript | ion: 3 | 53.2 Nitrate | + Nitrite, p | reserved | | | | |
| Associated Lab San | nples: 40161287 | 001, 40161287002 | , 40161287 | 003, 40161 | 1287004, 4 | 10161287005 | 5 | | | | | |
| METHOD BLANK: | 1621596 | | N | Aatrix: Wat | er | | | | | | | |
| Associated Lab San | nples: 40161287 | 001, 40161287002 | , 40161287 | 003, 40161 | 1287004, 4 | 10161287005 | 5 | | | | | |
| | | | Blank | Re | eporting | | | | | | | |
| Paran | neter | Units | Resul | t | Limit | Analyz | ed | Qualifiers | | | | |
| Nitrogen, NO2 plus | NO3 | mg/L | <(|).095 | 0.25 | 5 11/30/17 | 12:31 | | | | | |
| LABORATORY COM | NTROL SAMPLE: | 1621597 | | | | | | | | | | |
| | | | Spike | LCS | | LCS | % Rec | ; | | | | |
| Paran | neter | Units | Conc. | Resu | lt | % Rec | Limits | Q | ualifiers | | | |
| Nitrogen, NO2 plus | NO3 | mg/L | 2.5 | | 2.5 | 99 | 90 |)-110 | | | | |
| MATRIX SPIKE & M | IATRIX SPIKE DUP | LICATE: 16215 | 98 | | 1621599 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 40161287001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | r Uni | ts Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Nitrogen, NO2 plus | NO3 mg/ | L 0.50 | 2.5 | 2.5 | 3.0 | 3.0 | 99 | 99 | 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.



QUALIFIERS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161287

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

| Pace Analytical Dropped | Millet 11/2. | ン//フ CHAIN-OF The Chain-of-Custo | -CU ody is a L | STODY Legal docu | / Analytical F MENT. All relevant field: | Request Doo | cument accurately. |) د یا : ۱ | +D1(584-1 | e12 1117- | .87 001 | ge 32 of 35 |
|---|--|--|---|---|---|--|--|---|-------------------------|--------------------------|--------------------|--------------|
| Section A S | ection B | | 9 | Section C | L. | 0 | 2 | | Page: | 1 | of | 2 2 |
| Company: Natural Resource Technology R | eport To: GDSdata@OBG.c | om | / | nvoice Informa Attention: | Accounts Pavable | | 1 | | | 4 | | 2 |
| Address: 234 W Florida St C | opy To: Brian Hennings | 4. júl | | Company Name | WFC Business S | Services LLC | | | ~ | | | |
| Milwaukee WI | | | | Address | PO Box 19800 Groc | DD Rov WI 54307 | REGULATOR | YAGENC | Y | | | |
| Email To: GDSdata@OBG.com P | urchase Order No.: | | F | Pace Quote | | | I NPDES | GROU | IND WATE | | | VATER |
| Phone: 262-719-5286 Fax: P | roject Name: Green Bay Fr | ormer MGP | F | Reference: Pace Project | **** | | | | e | | -THER 777777777 | |
| Requested Due Date/TAT: standard P | roject Number: 1584/22.2 | | N | Vanager: Pace Profile #: | | | Site Location | w | 1 | | | |
| | 1304,22.2 | | | | | | STATE: | | | 4444 | <i> </i> | |
| | | | ТТ | | | | Analysis Flite | | ┯-<i>V///</i> | | | |
| Required Client Information MATRIX (| | COLLECTED | | | Preservatives | NNNN | YNN | | | ////// | | |
| Contraction of the second sec | W TRIX CODE W ATRIX CODE W ATRIX CODE W COMPC W COMPC | DSITE COMPOSITE ENDIGRAB | M H H H H H H H H H H H H H H H H H H H | & # OF CONTAINERS Unpreserved H₂SO₄ | X HNO ₃ HCI NaOH Na ₂ S ₂ O ₃ Methanoi Other | I Analysis Test I Analysis Test I TEX (8260) I 1,2,4- Trimethylbenzene** I 1,3,5- Trimethylbenzene** PAHs (8270) | X Metals (6020)* X NO2+NO3 (353.2) X Sulfate (300.0) PVOCs (8260) | | Residual Chlorine (Y/N) | Pace P | Project No | o./ Lab I.D. |
| 2 112017002 | | 1 255 | 3 | a XX | | | | ╂╍╍╂╍╍┠╍╸ | + + - 4 | <u>ю —</u> | | |
| 3 112017003 | | 1 134 | 4 | 21 X X | | | | | 1-1-1- | usins | 5/i) | |
| 4 112017004 | | 143 | 8 | 8XX | | | XXX | | | $\overline{\mathcal{D}}$ | | |
| 5 112017005 | | 144 | 8 | 8 XX | | | XXX | | | $\overline{\mathcal{Q}}$ | | |
| 6 112017006 | | 152 | 12 | 8 XX | XX | XXXX | XXX | | | D | | |
| 7 112017007 | | 140 | ia 🛛 | 8XX | | | XXX | | | D | | |
| 8 112017008 | | 1 1 164 | 8 | 8XX | XX | XXXX | KXX | | | <u>D</u> | | |
| 9 112017009 | <u> </u> | 1 1711 | 0 | 8XX | XX | | XXX | | <u> </u> | <u> </u> | | |
| 10 112117010 | | 11.2.17.070 | 4 | 8XX | <u>XX </u> | INXXX | XXX- | <u> </u> | <u> </u> | <u>y</u> | | |
| 11 11 01 1 011 10 11 0 11 7 017 0 10 1 8 0 0 0 000 | 000 | 073 | | 8 XX | XX + + + KK | | XXX | ┝╌┝╌┝╸ | <u>+-</u> +- <u>+</u> | <u> </u> | 6 | |
| ADDITIONAL COMMENTS | RELINCHISHED BY | | | 27/12 | | | | | | 15/250 | <u>(2)</u> | 001 |
| EPA Level 2 | 11.1.14 | | | time . | ACCEPTED | | | TIME | | SAMPLE | | NS |
| *Metals- As Ba Cd Cr Pb Ho Se Ao Fe Mo | June Um | * <u>1-2</u> | 217 | <u>020</u> | 2000 U | ~) the | 11/22/17 | 0350 | ROI | <u> </u> | N | <u> </u> |
| **4.0.4. Trimethylhography (2020) | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 11,3,5- Inmethylbenzene (8260) | | | 1 | | | | | | | | | |
| · · · | | SAMPLER NAME AND SIG | SNATURE | £ | | | | 4 | U | 5 | x aled | tact |
| | | PRINT Name of SAM | MPLER: | Melis | si Marra | | | | ni d | eived (Y/N | dy Se er (Y/ | Y/N) |
| | | SIGNATURE of SAM | MPLER: | Muhm | Mim | DATE Signed (MM/DD/YY): | 11-22.1 | 7 | Ter | Rece | Custo | Samp |

| 7 | Pace Analytical WAY DECORDS COM D. TO P. P. | d off at | off ill/2 Porce | רן/22 | CHAII The Chain | N-OF-C | UST | ODY AL DOCI | ' / Ana JMENT, A | alyti Ill relev | cal I ant field | Req ds mus | IUES In the con | Doc | CUM accurate | ent IV. COC | .#: | (158 | +0 14-1 | 1 Le 117 - | 128 | le 33 of 35 |
|--|---|----------------|---------------------------|--------------|------------------------|---|--|---|--|---------------------------------------|--------------------|----------------|--------------------|---|---|---|------------|---------------|-------------------------|-----------------|---------------------|--|
| Section | Α | Section B | | | | | Sect | tion C | | | | | | | | | | | Baga | . 7 | ~ | |
| Company | Client Information: | Report To: GD | Sdata@0 | n: BG.com | | | Invoi Atten | ce Inform | ation: | te Day | able | | | | 1 | | | | Fage | | . 01 | 2 |
| Address | 234 W Florida St | Copy To: Bri | an Henning | ne | | | Com | nany Nam | | | incon | Coni | | | | | | | | | | |
| | Milwaukee WI | | | 93 | | | Addr | | | . 1000 | | | | .4207 | REGU | LATO | RY AG | ENC | Y | | | |
| Email To | GDSdata@OBG.com | Purchase Order | No : | | | | Pace | Ounte | PO 60x | | o, Gre | | ay, wit | 4307 | ΓN | PDES |) <u> </u> | GROU | ND WA | | DRINKI | IG WATER |
| Phone: | 262-719-5286 Fax: | Project Name: | Green B | av Former M | CP | | Refer | ence: Project | | · · · · · · · · · · · · · · · · · · · | | | | | Γυ | ST | | RCRA | | | OTHER | |
| Request | ed Due Date/TAT: standard | Project Number | 1594/22 | | GF | | Mana | ger: Profile #: | ······ | | | | | | Site L | ocatio. | n | W | 1 | V//// | | |
| | | | 1304/22. | . Z. | | | 1 200 | r tome #. | | | | . | | | | STATE | : - | | | V//// | | |
| | | <u> </u> | ТТ | | | r | | T | | | | | Requ | ested / | Analys | is Filte | ered (Y | (/N) | 1/ | | | |
| | Section D Valid Matri: Required Client Information MATRIX | CODE | (dWD) | COLL | ECTED | | | | Preserv | atives | | N X | NN | NN | YN | N | | | | | | |
| ** W 1 2 3 4 5 6 7 8 9 10 11 12 | $\begin{array}{c} & \text{WATER} \\ & \text{WASTE WATE} \\ & \text{WASTE WATE} \\ & \text{WASTE WATE} \\ & \text{PRODUCT} \\ & \text{SOULSOLID} \\ & \text{OIL} \\ & \text{OIL} \\ & \text{OIL} \\ & \text{OTHER} \\ & OTHER$ | | C SAMPLE TYPE (G=GRAB C=C | | | TIME 0133 1011 10 50 1139 1220 1257 1344 1421 1421 1456 1533 1543 | 文字の文字の 文字の文字の文字の文字の # OF CONTAINERS | <pre>KKKKKKKKUnpreserved KKKKXKKKKH2S04</pre> | X X X X X X X X X X HO3 X X X X X X X X X HC1 | NaOH Na2S2O3 | Methanol Other | 4Analysis Test | | <pre>< X X X X X X X X X X 1,3,5- Trimethylbenzene*</pre> < X X X X X A A PAHs (8270) \$ i M | <pre></pre> | <pre>< X X X X X X X X X Sulfate (300.0)</pre> | | | Residual Chlorine (Y/N) | | e Project | No./ Lab 1.D. 000 000 000 |
| | ADDITIONAL COMMENTS | BY / AFFILIAT | ION | DATE | 1 | TIME | | ACC | CEPTED | BY/ | | TION | | DATE | TI | ME | | SAM | PLE COND | TIONS | | |
| EPA Lev | el 2 | m | | 11.2213 | - 03 | 50 | Da | Nin I | (1 | 11 | A D | -11A | | nin | Cit | 5 | ROI | U V | Δ/ | | | |
| *Metals- | As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn | - trin | | | | | + | <u> </u> | | | ~ ` | | <u> </u> | <u></u> | | | 1-0- | \mathcal{N} | | -1 | | <u>+ </u> |
| **1,2,4-1 | rimethylbenzene (8260) | | . <u></u> | | | | | | <u> </u> | ····· | | | | | | | | | | <u> </u> | | + |
| **1,3,5-1 | nmethylbenzene (8260) | | | | | | <u> </u> | | | | | | | | | | | | + | + | | |
| L | | I | | SAMPLI | ER NAME A PRINT Nam | ND SIGNAT | JRE R: /l | reti | <u></u> <sa m<="" td=""><td>har</td><td>ra</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>o in °C</td><td>ved on (Y/N)</td><td>y Sealed r (Y/N)</td><td>ss Intact</td></sa> | har | ra | | | | | | | | o in °C | ved on (Y/N) | y Sealed r (Y/N) | ss Intact |
| | | | | | SIGNATUR | E of SAMPLE | R: / | 1 Mil | sn M | hu | , - <u> </u> | | DATE S (MM/DD | igned)/YY): | 11-27 | 17 | - | | Temp | Recei | Custod) Coole | Sample (Y, |

40161287

Sampling Parameters Green Bay MGP Quarterly Groundwater Sampling

BTEX (USEPA 8260)

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

PAHs (USEPA 8270 SIM)

Full List

Metals (USEPA 6020)

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

Other Inorganics

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

Available Cyanides go to Test America

Method OIA-1677

| | Sample Cond | ition Upon Rece | eipt Pace | Analytical Services, LLC Green 1241 Bellevue Street, | Bay \ , Suite |
|--|-------------------|-----------------------------------|--------------------|---|------------------|
| Pace Analytical" | | | | Green Bay, WI | 1 543 |
| lient Name: NRT | | Project #: | WO#:4 | 40161287 | |
| | | | | | |
| acking #: | | | | | |
| ustody Seal on Cooler/Box Present: 「 ye | es 🖊 no Seals int | act: ┌ yes ┌ no | 40161287 | | |
| ustody Seal on Samples Present: 「 yes | 💅 no 🛛 Seals int | act: Г yes [–] no | | | |
| acking Material: 🎵 Bubble Wrap 🏹 B | ubble Bags 🔽 N | one 🔽 Other | | | |
| nermometer Used <u>NA</u> | Type of Ice | Blue Dry None | Z Samples o | n ice, cooling process has begun | |
| ooler Temperature Uncorr: K-C /Corr | Bi | ological Tissue is Fro | ozen: I yes | Г | |
| emp Blank Present: yes 7 no | | | a no | Person examining contents | s: |
| ota Samples may be received at $\leq 0^{\circ}$ C. | | Comments: | | Initials: H | |
| hain of Custody Present: | | N/A 1. | | | |
| hain of Custody Filled Out: | ŹYes □No □ | N/A 2 | | *************************************** | |
| hain of Custody Relinquished | | N/A 3 | | | |
| ampler Name & Signature on COC: | | | | | |
| | | N/A 4. | | | |
| VOA Semples frazer uner respiret | | N/A D. | | | |
| - VOA Samples trozen upon receipt | | Date/Time: | | ····· | |
| hort Hold Time Analysis (<72hr): | | N/A 6. | · | | |
| ush Turn Around Time Requested: | | N/A 7. | | | |
| ufficient Volume: | | N/A 8. | | | |
| orrect Containers Used: | ØYes □No □ | N/A 9. | | | |
| -Pace Containers Used: | ØYes □No □ | N/A | | | |
| -Pace IR Containers Used: | □Yes □No Ø | N/A | | ······ | |
| ontainers Intact: | Ves No D | N/A 10. | | | |
| Itered volume received for Dissolved tests | | N/A 11. | | | |
| ample Labels match COC: | F Ares ON D | N/A 12.004 no | date or | 250 MLpD | |
| -Includes date/time/ID/Analysis Matrix: | ⁴ "ω | | | Kf | 112 |
| I containers needing preservation have been check | ed. | | 3 17 H2SO4 | □ NaOH □ NaOH +ZnAc | ot |
| containers peeding preservation are found to be in | | 13. | 1 | , , , , , , , , , , , , , , , , , , , | |
| ompliance with EPA recommendation. | ØYes □No □ | N/A | | | |
| $\frac{1003}{2}, \frac{12504}{2} \le 2; \text{ NaOH} + 2nAct \ge 9, \text{ NaOH} \ge 12)$ ceptions: VOA coliform, TOC, TOX, TOH, | | Initial when | Lab Std #ID of | Date/ | |
| G, WIDROW, Phenolics, OTHER: | ØYes □No | completed KK | preservative | Tìme: | |
| eadspace in VOA Vials (>6mm): | 🗆 Yes 🖉 No 🗆 | N/A 14. | | | |
| ip Blank Present: | | N/A 15. | | | |
| ip Blank Custody Seals Present | □Yes □No Ø | , N/A | | | |
| ace Trip Blank Lot # (if purchased): | - | | | | |
| lient Notification/ Resolution: Person Contacted | | lf Ite/Time: | checked, see attac | hed form for additional comments | Ш |
| Comments/ Resolution: | Da | | | | |
| | | | | | |
| | | \longrightarrow | | <u> </u> | |
| | | | | THAN AN | |
| Project Manager Review: | | \sim | Date: | 11/2/17 | |
| i ejeet manager riettett. | | | | and the second the filment | |



Wisconsin Public Service Corporation

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

www.wisconsinpublicservice.com

January 29, 2018

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

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

Dear Mr. Grenier:

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 700 North Adams Street is providing results of groundwater samples (MW-407, MW-417, MW-418) collected as part of routine monitoring in November of 2017. Wisconsin Administrative Code Chapter NR 716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

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

We appreciate your ongoing cooperation in this matter.

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

Sincerely,

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

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

- Encl: Figure 1. City of Green Bay Table 1. Groundwater Analytical Results for City of Green Bay (Nov 2017) Table 2. Sample Key for the City of Green Bay (Nov 2017) Laboratory Data Reports - 40161286_frc
- CC: Ms. Margaret Gielniewski, USEPA Mr. Tauren Beggs, WDNR Mr. Bob Laskowski, WPSC

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Figures



Tables

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

November 2017 Sample Results Notification Wisconsin Public Service Corporation

Green Bay Former Manufactured Gas Plant Site 700 N Adams St, Green Bay, Wisconsin BRRTS#: 02-05-000254 UPSEPA#: WIN000509948

| | | | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH |
|-----------------|--------------------|------------------|---------------------|---------------------|--------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|-----------|------------------------|-------------|--------------|-----------|
| 9-digit Code | Sample Location | Sample Date | 1-Methylnaphthalene | 2-Methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-cd)pyrene | Naphthalene | Phenanthrene | Pyrene |
| | F | Reporting Units: | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | | | | | | | | | | | | | | | | | |
| | WI Gro | oundwater PAL: | <u>NS</u> | <u>NS</u> | <u>NS</u> | <u>NS</u> | <u>600</u> | <u>NS</u> | <u>0.02</u> | <u>0.02</u> | <u>NS</u> | <u>NS</u> | <u>0.02</u> | <u>NS</u> | <u>80</u> | <u>80</u> | <u>NS</u> | <u>10</u> | <u>NS</u> | <u>50</u> |
| | WI Gr | oundwater ES: | NS | NS | NS | NS | 3,000 | NS | 0.2 | 0.2 | NS | NS | 0.2 | NS | 400 | 400 | NS | 100 | NS | 250 |
| | | | | | | | | | | | | | | | | | | | | |
| 112017001 | MW-418 | 11/20/2017 | <0.0061 U | <0.0051 U | 0.0076 J | <0.0051 U | <0.011 U | <0.0078 U | <0.011 U | 0.0060 J | <0.0070 U | <0.0078 U | <0.013 U | <0.010 U | <0.011 U | <0.0082 U | <0.018 U | <0.019 U | <0.014 U | 0.011 J |
| 112017002 | MW-417 | 11/20/2017 | <0.0063 U | <0.0053 U | <0.0065 U | <0.0054 U | <0.011 U | <0.0081 U | <0.011 U | <0.0062 U | <0.0073 U | <0.0081 U | <0.014 U | <0.011 U | <0.011 U | <0.0086 U | <0.019 U | <0.020 U | <0.015 U | <0.0082 U |
| 112017003 | MW-407 | 11/20/2017 | <0.0065 U | <0.0054 U | <0.0067 U | <0.0055 U | <0.011 U | <0.0083 U | <0.012 U | <0.0063 U | <0.0075 U | <0.0083 U | <0.014 U | <0.011 U | <0.012 U | <0.0088 U | <0.019 U | <0.020 U | <0.015 U | 0.010 J |

Notes:

Underline = concentration that attains or exceeds WDNR PAL

BOLD = concentration that attains or exceeds WDNR ES

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

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

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

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

NO2 + NO3 = nitrite plus nitrate

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

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

NS = A groundwater quality standard has not been established.

1. Total trimethylbenzenes were calculated by OBG as follows:

a. Where no detections were observed, the sum of the reporting limits is presented.

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

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

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

| | | | BTEX | BTEX | BTEX | BTEX | BTEX | BTEX | VOC | VOC | VOC | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Inorganic | Inorganic |
|-----------------|--------------------|------------------|--------------|--------------|------------|-----------|----------------|----------------|------------------------|------------------------|---------------------------------------|--------------------|-------------------|--------------------|---------------------|-----------------|-----------------|----------------------|--------------------|---------------------|-------------------|----------------------------|---------------------|
| 9-digit Code | Sample Location | Sample Date | Ethylbenzene | Ethylbenzene | Toluene | Xylene, o | Xylenes, m + p | Xylenes, Total | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Trimethylbenzenes, Total ¹ | Arsenic, Dissolved | Barium, Dissolved | Cadmium, Dissolved | Chromium, Dissolved | Iron, Dissolved | Lead, Dissolved | Manganese, Dissolved | Mercury, Dissolved | Selenium, Dissolved | Silver, Dissolved | Nitrogen, NO2 + NO3, Total | Sulfate, Total |
| | I | Reporting Units: | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | <u>WI Gr</u> | oundwater PAL: | <u>0.5</u> | <u>140</u> | <u>160</u> | <u>NS</u> | <u>NS</u> | <u>400</u> | <u>NS</u> | <u>NS</u> | <u>96</u> | <u>1</u> | <u>400</u> | <u>0.5</u> | <u>10</u> | <u>150</u> | <u>1.5</u> | <u>25</u> | <u>0.2</u> | <u>10</u> | <u>10</u> | <u>2,000</u> | <u>125,000</u> |
| | WI Gr | oundwater ES: | 5 | 700 | 800 | NS | NS | 2,000 | NS | NS | 480 | 10 | 2,000 | 5 | 100 | 300 | 15 | 50 | 2 | 50 | 50 | 10,000 | 250,000 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 112017001 | MW-418 | 11/20/2017 | <0.50 U* | <0.50 U | <0.50 U | <0.50 U | <1.0 U | <1.5 U | <0.50 U | <0.50 U | <1.00 U | <1.4 U* | 396 | <u>0.50 J</u> | <5.1 U | <553 U* | <0.98 U | <u>556</u> | <0.50 U* | <1.6 U | <0.50 U | <u>2,100</u> | <100,000 U |
| 112017002 | MW-417 | 11/20/2017 | <0.50 U* | <0.50 U | <0.50 U | <0.50 U | <1.0 U | <1.5 U | <0.50 U | <0.50 U | <1.00 U | <2.8 U* | <u>678</u> | <0.81 U* | <10.2 U* | <u>12,000</u> | <2.0 U* | <u>916</u> | <0.50 U* | <3.2 U | <1.0 U | <95 U | <100,000 U |
| 112017003 | MW-407 | 11/20/2017 | <0.50 U* | <0.50 U | <0.50 U | <0.50 U | <1.0 U | <1.5 U | <0.50 U | <0.50 U | <1.00 U | <u>3.7 J</u> | 344 | <0.40 U | <5.1 U | <u>12,000</u> | <0.98 U | <u>488</u> | <0.50 U* | <1.6 U | <0.50 U | <95 U | <100,000 U |
| | | | | | | | | | | | | | | | | | | | | [O:EC | CK C:ECK 1/24/ | 18 C: TWL 1/25 | /18][U:ECK 1/26/17] |

Notes:

Underline = concentration that attains or exceeds WDNR PAL

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µg/L = micrograms per liter

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NO2 + NO3 = nitrite plus nitrate

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

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

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1. Total trimethylbenzenes were calculated by OBG as follows:

a. Where no detections were observed, the sum of the reporting limits is presented.

b. Where detections were observed, the detected results were added together for the total summation.

c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

Table 2. Sample Key for the City of Green Bay

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

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

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

Notes:

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

Laboratory Data Reports



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

December 21, 2017

Eric Hritsuk Natural Resource Technologies

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

Dear Eric Hritsuk:

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

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

Sincerely,

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

Enclosures

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





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

CERTIFICATIONS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Green Bay Certification IDs

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



SAMPLE SUMMARY

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

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



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|-----------------|----------|----------------------|
| 40161286001 | 112017001 | EPA 6020 | SDW | 9 |
| | | EPA 7470 | AJT | 1 |
| | | EPA 8270 by HVI | TPO | 20 |
| | | EPA 8260 | HNW | 11 |
| | | EPA 300.0 | HMB | 1 |
| | | EPA 353.2 | DAW | 1 |
| 40161286002 | 112017002 | EPA 6020 | SDW | 9 |
| | | EPA 7470 | AJT | 1 |
| | | EPA 8270 by HVI | TPO | 20 |
| | | EPA 8260 | HNW | 11 |
| | | EPA 300.0 | HMB | 1 |
| | | EPA 353.2 | DAW | 1 |
| 40161286003 | 112017003 | EPA 6020 | SDW | 9 |
| | | EPA 7470 | AJT | 1 |
| | | EPA 8270 by HVI | TPO | 20 |
| | | EPA 8260 | HNW | 11 |
| | | EPA 300.0 | HMB | 1 |
| | | EPA 353.2 | DAW | 1 |
| | | | | |



| Lab ID | Sample ID | Method | Analysts | Analytes Reported | |
|-------------------|--------------------------------|--------|----------|----------------------|--|
| Pace Project No.: | 40161286 | | | | |
| Project: | 1584/22.2 GREEN BAY FORMER MGP | | | | |



| Lab ID | Sample ID | Method | Analysts | Analytes Reported | |
|-------------------|--------------------------------|--------|----------|----------------------|--|
| Pace Project No.: | 40161286 | | | | |
| Project: | 1584/22.2 GREEN BAY FORMER MGP | | | | |



| Lab ID | Sample ID | Method | Analysts | Analytes Reported | |
|-------------------|--------------------------------|--------|----------|----------------------|--|
| Pace Project No.: | 40161286 | | | | |
| Project: | 1584/22.2 GREEN BAY FORMER MGP | | | | |



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Date: December 21, 2017

112017003 (Lab ID: 40161286003)

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



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 6020

Description:6020 MET ICPMS, DissolvedClient:Natural Resource Technology Integrys WIDate:December 21, 2017

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: 276133

- D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
 - 112017001 (Lab ID: 40161286001)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Iron, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved
 - 112017002 (Lab ID: 40161286002)
 - Silver, Dissolved
 - Arsenic, Dissolved



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

| Method: | EPA 6020 | |
|--------------|-----------------------------|-------------|
| Description: | 6020 MET ICPMS, Dissolved | |
| Client: | Natural Resource Technology | Integrys WI |
| Date: | December 21, 2017 | |

Analyte Comments:

QC Batch: 276133

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

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



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method:EPA 6020Description:6020 MET ICPMS, DissolvedClient:Natural Resource Technology Integrys WIDate:December 21, 2017

Analyte Comments:

QC Batch: 276133



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method:EPA 6020Description:6020 MET ICPMS, DissolvedClient:Natural Resource Technology Integrys WIDate:December 21, 2017

Analyte Comments:



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 7470

Description:7470 Mercury, DissolvedClient:Natural Resource Technology Integrys WIDate:December 21, 2017

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: 276417

- D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
 - 112017001 (Lab ID: 40161286001)
 - Mercury, Dissolved
 - 112017002 (Lab ID: 40161286002)
 - Mercury, Dissolved • 112017003 (Lab ID: 40161286003)
 - Mercury, Dissolved



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

PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method:EPA 7470Description:7470 Mercury, DissolvedClient:Natural Resource Technology Integrys WIDate:December 21, 2017

Analyte Comments:

QC Batch: 276417



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 8270 by HVI

Description:8270 MSSV PAH by HVIClient:Natural Resource Technology Integrys WIDate:December 21, 2017

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

QC Batch: 275221

- B: Analyte was detected in the associated method blank.
 - BLANK for HBN 275221 [OEXT/373 (Lab ID: 1619351)
 - 2-Methylnaphthalene
 - Acenaphthene

Laboratory Control Spike:

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

QC Batch: 275221

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

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

QC Batch: 275222

- R1: RPD value was outside control limits.
 - LCSD (Lab ID: 1619357)
 - Anthracene



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 8270 by HVI

Description:8270 MSSV PAH by HVIClient:Natural Resource Technology Integrys WIDate:December 21, 2017

Matrix Spikes:

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

QC Batch: 275221

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

R1: RPD value was outside control limits.

• MSD (Lab ID: 1619354)

Anthracene

QC Batch: 275222

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

QC Batch: 275367

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

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

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

Additional Comments:



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 8260

Description:8260 MSV USTClient:Natural Resource Technology Integrys WIDate:December 21, 2017

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: 275528

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

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

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

Additional Comments:



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 8260

Description:8260 MSV USTClient:Natural Resource Technology Integrys WIDate:December 21, 2017

Analyte Comments:

QC Batch: 275528

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

• MS (Lab ID: 1620594)

Benzene

• MSD (Lab ID: 1620595)

• Benzene


PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 300.0

Description:300.0 IC Anions 28 DaysClient:Natural Resource Technology Integrys WIDate:December 21, 2017

General Information:

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

Hold Time:

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

- H1: Analysis conducted outside the recognized method holding time.
 - 112017003 (Lab ID: 40161286003)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: 275924

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

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

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

QC Batch: 277171

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

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

- MSD (Lab ID: 1629425)
 - Sulfate

QC Batch: 277302

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

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

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



PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 300.0

Description:300.0 IC Anions 28 DaysClient:Natural Resource Technology Integrys WIDate:December 21, 2017

Additional Comments:

Analyte Comments:

QC Batch: 275924

QC Batch: 277171

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

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

QC Batch: 277302

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

• 112017003 (Lab ID: 40161286003)

Sulfate



PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

Method: EPA 353.2

Description:353.2 Nitrogen, NO2/NO3 pres.Client:Natural Resource Technology Integrys WIDate:December 21, 2017

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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



ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

i iojoot

Pace Project No.: 40161286

| Parameters Results Units LOQ LOD DF Prepared Analyzed CAS I 6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010 Analyzed CAS I Arsenic, Dissolved <1.4 ug/L 5.0 1.4 5 12/05/17 09:48 12/14/17 09:18 7440-38 Barium, Dissolved 396 ug/L 5.7 1.7 5 12/05/17 09:48 12/14/17 09:18 7440-38 Cadmium, Dissolved 0.50J ug/L 5.0 0.40 5 12/05/17 09:48 12/14/17 09:18 7440-43 Chromium, Dissolved <5.1 ug/L 5.0 0.40 5 12/05/17 09:48 12/14/17 09:18 7440-43 Iron, Dissolved <5.1 ug/L 17.0 5.1 5 12/05/17 09:48 12/14/17 09:18 7440-43 Iead Dissolved <553 ug/L 1840 553 5 12/05/17 09:48 12/14/17 09:18 7439-89 Iead Dissolved <0.98 ug/L 5.0 | lo. Qual 2 D3 3 9 D3 3 D3 6 D3 1 D3 5 2 D3 4 D3 |
|--|---|
| 6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3010 Arsenic, Dissolved <1.4 ug/L 5.0 1.4 5 12/05/17 09:48 12/14/17 09:18 7440-38 Barium, Dissolved 396 ug/L 5.7 1.7 5 12/05/17 09:48 12/14/17 09:18 7440-38 Cadmium, Dissolved 0.50J ug/L 5.0 0.40 5 12/05/17 09:48 12/14/17 09:18 7440-43 Chromium, Dissolved <5.1 ug/L 17.0 5.1 5 12/05/17 09:48 12/14/17 09:18 7440-43 Iron, Dissolved <5.1 ug/L 17.0 5.1 5 12/05/17 09:48 12/14/17 09:18 7440-43 Lead Dissolved <5.3 ug/L 1840 553 5 12/05/17 09:48 12/14/17 09:18 7439-89 Lead Dissolved <0.98 ug/L 5.0 0.98 5 12/05/17 09:48 12/14/17 09:18 7439-89 | 2 D3 3 9 D3 3 D3 6 D3 1 D3 5 2 D3 4 D3 |
| Arsenic, Dissolved <1.4 ug/L 5.0 1.4 5 12/05/17 09:48 12/14/17 09:18 7440-38 Barium, Dissolved 396 ug/L 5.7 1.7 5 12/05/17 09:48 12/14/17 09:18 7440-38 Cadmium, Dissolved 0.50J ug/L 5.0 0.40 5 12/05/17 09:48 12/14/17 09:18 7440-43 Chromium, Dissolved <5.1 | 2 D3 3 9 D3 3 D3 6 D3 1 D3 5 2 D3 4 D3 |
| Barium, Dissolved 396 ug/L 5.7 1.7 5 12/05/17 09:48 12/14/17 09:18 7440-39 Cadmium, Dissolved 0.50J ug/L 5.0 0.40 5 12/05/17 09:48 12/14/17 09:18 7440-43 Chromium, Dissolved <5.1 | 3 9 D3 3 D3 6 D3 1 D3 5 2 D3 4 D3 |
| Cadmium, Dissolved 0.50J ug/L 5.0 0.40 5 12/05/17 09:48 12/14/17 09:18 7440-43 Chromium, Dissolved <5.1 ug/L 17.0 5.1 5 12/05/17 09:48 12/14/17 09:18 7440-43 Iron, Dissolved <5.1 ug/L 17.0 5.1 5 12/05/17 09:48 12/14/17 09:18 7440-43 Iron, Dissolved <553 ug/L 1840 553 5 12/05/17 09:48 12/14/17 09:18 7439-89 Lead Dissolved <0 98 ug/L 50 0.98 5 12/05/17 09:48 12/14/17 09:18 7439-89 | 9 D3 3 D3 6 D3 1 D3 5 2 D3 4 D3 |
| Chromium, Dissolved <5.1 ug/L 17.0 5.1 5 12/05/17 09:48 12/14/17 09:18 7440-47 Iron, Dissolved <553 | 3 D3 6 D3 1 D3 5 2 D3 4 D3 |
| Iron, Dissolved <553 ug/L 1840 553 5 12/05/17 09:48 12/14/17 09:18 7439-89 | 6 D3 1 D3 5 2 D3 4 D3 |
| Lead Dissolved <0.98 u/l 5.0 0.08 5 12/05/17.09.48 12/14/17.09.18 7439.02 | 1 D3 5 2 D3 4 D3 |
| | 5 2 D3 4 D3 |
| Manganese. Dissolved 556 ug/L 45.0 13.5 5 12/05/17 09:48 12/14/17 09:18 7439-96 | 2 D3 4 D3 |
| Selenium, Dissolved <1.6 ug/L 5.3 1.6 5 12/05/17 09:48 12/14/17 09:18 7782-49 | 4 D3 |
| Silver, Dissolved <0.50 ug/L 2.5 0.50 5 12/05/17 09:48 12/14/17 09:18 7440-22 | |
| 7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470 | |
| Mercury, Dissolved <0.50 ug/L 1.7 0.50 1 12/07/17 08:55 12/08/17 09:36 7439-97 | 6 D3 |
| 8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | |
| Acenaphthene 0.0076J ug/L 0.031 0.0063 1 11/27/17 10:40 11/30/17 11:45 83-32-9 | В |
| Acenaphthylene <0.0051 ug/L 0.026 0.0051 1 11/27/17 10:40 11/30/17 11:45 208-96-7 | J |
| Anthracene <0.011 ug/L 0.054 0.011 1 11/27/17 10:40 11/30/17 11:45 120-12- | r. |
| Benzo(a)anthracene <0.0078 ug/L 0.039 0.0078 1 11/27/17 10:40 11/30/17 11:45 56-55-3 | |
| Benzo(a)pyrene <0.011 ug/L 0.054 0.011 1 11/27/17 10:40 11/30/17 11:45 50-32-8 | L2 |
| Benzo(b)fluoranthene 0.0060J ug/L 0.030 0.0059 1 11/27/17 10:40 11/30/17 11:45 205-99-7 | - |
| Benzo(g,h,i)perylene <a>0.0070 ug/L 0.035 0.0070 1 11/27/17 10:40 11/30/17 11:45 191-24-2 | - |
| Benzo(k)fluoranthene <0.0078 ug/L 0.039 0.0078 1 11/27/17 10:40 11/30/17 11:45 207-08- | J |
| Chrysene <0.013 ug/L 0.067 0.013 1 11/27/17 10:40 11/30/17 11:45 218-01- | J |
| Dibenz(a,h)anthracene <0.010 ug/L 0.052 0.010 1 11/27/17 10:40 11/30/17 11:45 53-70-3 | |
| Fluoranthene <0.011 ug/L 0.055 0.011 1 11/27/17 10:40 11/30/17 11:45 206-44-0 | J |
| Fluorene <0.0082 ug/L 0.041 0.0082 1 11/27/17 10:40 11/30/17 11:45 86-73-7 | |
| Indeno(1.2.3-cd)pyrene <a>0.018 ug/L 0.091 0.018 1 11/27/17 10:40 11/30/17 11:45 193-39- | |
| 1-Methylnaphthalene <0.0061 ug/L 0.030 0.0061 1 11/27/17 10:40 11/30/17 11:45 90-12-0 | |
| 2-Methylnaphthalene <0.0051 ug/L 0.025 0.0051 1 11/27/17 10:40 11/30/17 11:45 91-57-6 | |
| Naphthalene <0.019 ug/L 0.094 0.019 1 11/27/17 10:40 11/30/17 11:45 91-20-3 | |
| Phenanthrene <0.014 ug/L 0.071 0.014 1 11/27/17 10:40 11/30/17 11:45 85-01-8 | |
| Pyrene 0.011J ug/L 0.039 0.0079 1 11/27/17 10:40 11/30/17 11:45 129-00-0 | , |
| $3u_1 regards$ | 4 |
| Terphenyl-d14 (S) 80 % 10-129 1 11/27/17 10:40 11/30/17 11:45 1718-51 | ·0 |
| 8260 MSV UST Analytical Method: EPA 8260 | |
| Benzene <0.50 ug/L 1.0 0.50 1 11/27/17 20:14 71-43-2 | |
| Ethylbenzene <0.50 ug/L 1.0 0.50 1 11/27/17 20:14 100-41-4 | , |
| Toluene <0.50 ug/L 1.0 0.50 1 11/27/17 20:14 108-88- | |
| 1.2.4-Trimethylbenzene <0.50 ug/L 1.0 0.50 1 11/27/17 20:14 95-63-6 | |
| 1.3.5-Trimethylbenzene <0.50 ug/L 1.0 0.50 1 11/27/17 20:14 108-67- | |
| Xviene (Total) <1.5 ug/L 3.0 1.5 1 11/27/17 20:14 1330-20 | 7 |
| m&p-Xylene <1.0 ug/L 2.0 1.0 1 11/27/17 20:14 179601- | 23-1 |
| o-Xylene <0.50 ug/L 1.0 0.50 1 11/27/17 20:14 95-47-6 | |



ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No .: 40161286

| Sample: 112017001 | Lab ID: | 40161286001 | Collected: | 11/20/17 | 12:11 | Received: 11/2 | 22/17 08:50 Ma | atrix: Water | |
|-------------------------------|--------------|---------------|------------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV UST | Analytical I | Method: EPA 8 | 260 | | | | | | |
| Surrogates | | 0/ | 07.400 | | | | 44/07/47 00 44 | 1000 50 7 | |
| Dibromotiuorometnane (S) | 111 | % | 67-130 70.420 | | 1 | | 11/27/17 20:14 | 1868-53-7 | |
| 10iuene-uo (S) | 95 | 70 0/ | 70-130 61 130 | | 1 | | 11/27/17 20:14 | 2037-20-5 | |
| | 07 | /0 | 01-130 | | 1 | | 11/27/17 20.14 | 400-00-4 | |
| 300.0 IC Anions 28 Days | Analytical I | Method: EPA 3 | 0.00 | | | | | | |
| Sulfate | <100 | mg/L | 300 | 100 | 100 | | 12/14/17 19:57 | 14808-79-8 | D3 |
| 353.2 Nitrogen, NO2/NO3 pres. | Analytical I | Method: EPA 3 | 53.2 | | | | | | |
| Nitrogen, NO2 plus NO3 | 2.1 | mg/L | 0.25 | 0.095 | 1 | | 12/01/17 09:07 | | |
| Sample: 112017002 | Lab ID: | 40161286002 | Collected: | 11/20/17 | 12:58 | Received: 11/2 | 22/17 08:50 Ma | atrix: Water | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical I | Method: EPA 6 | 020 Prepara | ation Metho | od: EPA | 3010 | | | |
| Arsenic, Dissolved | <2.8 | ug/L | 10.0 | 2.8 | 10 | 12/05/17 09:48 | 12/14/17 09:48 | 7440-38-2 | D3 |
| Barium, Dissolved | 678 | ug/L | 11.4 | 3.4 | 10 | 12/05/17 09:48 | 12/14/17 09:48 | 7440-39-3 | |
| Cadmium, Dissolved | <0.81 | ug/L | 10.0 | 0.81 | 10 | 12/05/17 09:48 | 12/14/17 09:48 | 7440-43-9 | D3 |
| Chromium, Dissolved | <10.2 | ug/L | 34.0 | 10.2 | 10 | 12/05/17 09:48 | 12/14/17 09:48 | 7440-47-3 | D3 |
| Iron, Dissolved | 12000 | ug/L | 3680 | 1110 | 10 | 12/05/17 09:48 | 12/14/17 09:48 | 7439-89-6 | |
| Lead, Dissolved | <2.0 | ug/L | 10.0 | 2.0 | 10 | 12/05/17 09:48 | 12/14/17 09:48 | 7439-92-1 | D3 |
| Manganese, Dissolved | 916 | ug/L | 90.0 | 27.0 | 10 | 12/05/17 09:48 | 12/14/17 09:48 | 7439-96-5 | |
| Selenium, Dissolved | <3.2 | ug/L | 10.6 | 3.2 | 10 | 12/05/17 09:48 | 12/14/17 09:48 | 7782-49-2 | D3 |
| Silver, Dissolved | <1.0 | ug/L | 5.0 | 1.0 | 10 | 12/05/17 09:48 | 12/14/17 09:48 | 7440-22-4 | D3 |
| 7470 Mercury, Dissolved | Analytical I | Method: EPA 7 | 470 Prepara | ation Metho | od: EPA | 7470 | | | |
| Mercury, Dissolved | <0.50 | ug/L | 1.7 | 0.50 | 1 | 12/07/17 08:55 | 12/08/17 09:38 | 7439-97-6 | D3 |
| 8270 MSSV PAH by HVI | Analytical I | Method: EPA 8 | 270 by HVI | Preparatio | n Metho | od: EPA 3510 | | | |
| Acenaphthene | <0.0065 | ug/L | 0.033 | 0.0065 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 83-32-9 | |
| Acenaphthylene | <0.0054 | ug/L | 0.027 | 0.0054 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 208-96-8 | |
| Anthracene | <0.011 | ug/L | 0.056 | 0.011 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 120-12-7 | |
| Benzo(a)anthracene | <0.0081 | ug/L | 0.041 | 0.0081 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 56-55-3 | |
| Benzo(a)pyrene | <0.011 | ug/L | 0.057 | 0.011 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 50-32-8 | L2 |
| Benzo(b)fluoranthene | <0.0062 | ug/L | 0.031 | 0.0062 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0073 | ug/L | 0.036 | 0.0073 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0081 | ug/L | 0.041 | 0.0081 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 207-08-9 | |
| Chrysene | <0.014 | ug/L | 0.070 | 0.014 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.011 | ug/L | 0.054 | 0.011 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 53-70-3 | |
| Fluoranthene | <0.011 | ug/L | 0.057 | 0.011 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 206-44-0 | |
| Fluorene | <0.0086 | ug/L | 0.043 | 0.0086 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.019 | ug/L | 0.095 | 0.019 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 193-39-5 | |
| 1-Methylnaphthalene | <0.0063 | ug/L | 0.032 | 0.0063 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 90-12-0 | |



ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

- - -

Pace Project No.: 40161286

| Sample: 112017002 | Lab ID: | 40161286002 | Collected: | 11/20/17 | 12:58 | Received: 11/ | 22/17 08:50 Ma | atrix: Water | |
|-------------------------------|------------|---------------|-------------|------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Meth | od: EPA 3510 | | | |
| 2-Methylnaphthalene | <0.0053 | ug/L | 0.026 | 0.0053 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 91-57-6 | |
| Naphthalene | <0.020 | ug/L | 0.099 | 0.020 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 91-20-3 | |
| Phenanthrene | <0.015 | ug/L | 0.074 | 0.015 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 85-01-8 | |
| Pyrene | <0.0082 | ug/L | 0.041 | 0.0082 | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 58 | % | 35-84 | | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 321-60-8 | |
| Terphenyl-d14 (S) | 81 | % | 10-129 | | 1 | 11/27/17 10:40 | 11/30/17 12:04 | 1718-51-0 | |
| 8260 MSV UST | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 20:37 | 71-43-2 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 20:37 | 100-41-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 20:37 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 20:37 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 20:37 | 108-67-8 | |
| Xvlene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 11/27/17 20:37 | 1330-20-7 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 11/27/17 20:37 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/27/17 20:37 | 95-47-6 | |
| Surrogates | | 0 | | | | | | | |
| Dibromofluoromethane (S) | 112 | % | 67-130 | | 1 | | 11/27/17 20:37 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 1 | | 11/27/17 20:37 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 86 | % | 61-130 | | 1 | | 11/27/17 20:37 | 460-00-4 | |
| 300.0 IC Anions 28 Days | Analytical | Method: EPA 3 | 00.0 | | | | | | |
| Sulfate | <100 | mg/L | 300 | 100 | 100 | | 12/14/17 20:12 | 14808-79-8 | D3 |
| 353.2 Nitrogen, NO2/NO3 pres. | Analytical | Method: EPA 3 | 53.2 | | | | | | |
| Nitrogen, NO2 plus NO3 | <0.095 | mg/L | 0.25 | 0.095 | 1 | | 12/01/17 09:08 | | |
| 0 | | 40404000000 | Oplicated | 44/00/47 | | Descional 44/ | 00/47 00 F0 M | | |
| Sample: 112017003 | Lab ID: | 40161286003 | Collected: | 11/20/17 | 13:44 | Received: 11/ | 22/17 08:50 Ma | atrix: Water | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | ation Meth | od: EPA | 3010 | | | |
| Arsenic, Dissolved | 3.7J | ug/L | 5.0 | 1.4 | 5 | 12/05/17 09:48 | 12/14/17 18:34 | 7440-38-2 | D3 |
| Barium, Dissolved | 344 | ug/L | 5.7 | 1.7 | 5 | 12/05/17 09:48 | 12/14/17 18:34 | 7440-39-3 | |
| Cadmium, Dissolved | <0.40 | ug/L | 5.0 | 0.40 | 5 | 12/05/17 09:48 | 12/14/17 18:34 | 7440-43-9 | D3 |
| Chromium, Dissolved | <5.1 | ug/L | 17.0 | 5.1 | 5 | 12/05/17 09:48 | 12/14/17 18:34 | 7440-47-3 | D3 |
| Iron, Dissolved | 12000 | ug/L | 1840 | 553 | 5 | 12/05/17 09:48 | 12/14/17 18:34 | 7439-89-6 | |
| Lead, Dissolved | <0.98 | ug/L | 5.0 | 0.98 | 5 | 12/05/17 09:48 | 12/14/17 18:34 | 7439-92-1 | D3 |
| Manganese Dissolved | 488 | ug/l | 45.0 | 13.5 | 5 | 12/05/17 09:48 | 12/14/17 18:34 | 7439-96-5 | |

REPORT OF LABORATORY ANALYSIS

5.3

2.5

1.6

0.50

5

5

12/05/17 09:48 12/14/17 18:34 7782-49-2

12/05/17 09:48 12/14/17 18:34 7440-22-4

<1.6

<0.50

ug/L

ug/L

Selenium, Dissolved

Silver, Dissolved

D3

D3



CAS No.

Qual

D3

ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.:

40161286

| Sample: 112017003 | Lab ID: | 40161286003 | Collected | 1: 11/20/17 | 7 13:44 | Received: 11 | /22/17 08:50 M | atrix: Water |
|-------------------------|------------|---------------|------------|-------------|---------|----------------|----------------|--------------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. |
| 7470 Mercury, Dissolved | Analytical | Method: EPA 7 | 470 Prepar | ation Meth | od: EPA | A 7470 | | |
| Mercury, Dissolved | <0.50 | ug/L | 1.7 | 0.50 | 1 | 12/07/17 08:55 | 12/08/17 09:29 | 7439-97-6 |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | on Meth | od: EPA 3510 | | |
| Acenaphthene | <0.0067 | ug/L | 0.033 | 0.0067 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 83-32-9 |
| Acenaphthylene | <0.0055 | ug/L | 0.027 | 0.0055 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 208-96-8 |
| Anthracene | <0.011 | ug/L | 0.057 | 0.011 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 120-12-7 |
| Benzo(a)anthracene | <0.0083 | ug/L | 0.041 | 0.0083 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 56-55-3 |
| Benzo(a)pyrene | <0.012 | ug/L | 0.058 | 0.012 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 50-32-8 |
| Benzo(b)fluoranthene | <0.0063 | ug/L | 0.032 | 0.0063 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 205-99-2 |
| Benzo(g,h,i)perylene | <0.0075 | ug/L | 0.037 | 0.0075 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 191-24-2 |
| Benzo(k)fluoranthene | <0.0083 | ug/L | 0.041 | 0.0083 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 207-08-9 |
| Chrysene | <0.014 | ug/L | 0.072 | 0.014 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 218-01-9 |
| Dibenz(a b)anthracene | ~0.011 | ua/l | 0.055 | 0.011 | 1 | 11/27/17 10.40 | 11/28/17 10./1 | 53-70-3 |

| Anthracene | <0.011 | ug/L | 0.057 | 0.011 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 120-12-7 | R1 |
|-------------------------------|--------------|------------|---------|--------|-----|----------------|----------------|-------------|--------------|
| Benzo(a)anthracene | <0.0083 | ug/L | 0.041 | 0.0083 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 56-55-3 | |
| Benzo(a)pyrene | <0.012 | ug/L | 0.058 | 0.012 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 50-32-8 | L2 |
| Benzo(b)fluoranthene | <0.0063 | ug/L | 0.032 | 0.0063 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0075 | ug/L | 0.037 | 0.0075 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0083 | ug/L | 0.041 | 0.0083 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 207-08-9 | |
| Chrysene | <0.014 | ug/L | 0.072 | 0.014 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.011 | ug/L | 0.055 | 0.011 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 53-70-3 | |
| Fluoranthene | <0.012 | ug/L | 0.059 | 0.012 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 206-44-0 | |
| Fluorene | <0.0088 | ug/L | 0.044 | 0.0088 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.019 | ug/L | 0.097 | 0.019 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 193-39-5 | |
| 1-Methylnaphthalene | <0.0065 | ug/L | 0.032 | 0.0065 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 90-12-0 | |
| 2-Methylnaphthalene | <0.0054 | ug/L | 0.027 | 0.0054 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 91-57-6 | |
| Naphthalene | <0.020 | ug/L | 0.10 | 0.020 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 91-20-3 | |
| Phenanthrene | <0.015 | ug/L | 0.076 | 0.015 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 85-01-8 | |
| Pyrene | 0.010J | ug/L | 0.042 | 0.0084 | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 64 | % | 35-84 | | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 321-60-8 | |
| Terphenyl-d14 (S) | 77 | % | 10-129 | | 1 | 11/27/17 10:40 | 11/28/17 10:41 | 1718-51-0 | |
| 8260 MSV UST | Analytical I | Method: EP | A 8260 | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 09:05 | 71-43-2 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 09:05 | 100-41-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 09:05 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 09:05 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 09:05 | 108-67-8 | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 11/28/17 09:05 | 1330-20-7 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 11/28/17 09:05 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 09:05 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 111 | % | 67-130 | | 1 | | 11/28/17 09:05 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 11/28/17 09:05 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 88 | % | 61-130 | | 1 | | 11/28/17 09:05 | 460-00-4 | |
| 300.0 IC Anions 28 Days | Analytical I | Method: EP | A 300.0 | | | | | | |
| Sulfate | <100 | mg/L | 300 | 100 | 100 | | 12/19/17 10:40 | 14808-79-8 | D3,H1, M0 |
| 353.2 Nitrogen, NO2/NO3 pres. | Analytical I | Method: EP | A 353.2 | | | | | | |
| Nitrogen, NO2 plus NO3 | <0.095 | mg/L | 0.25 | 0.095 | 1 | | 12/01/17 09:09 | | |



ANALYTICAL RESULTS

Project:1584/22.2 GREEN BAY FORMER MGPPace Project No.:40161286



ANALYTICAL RESULTS

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ANALYTICAL RESULTS

Project:1584/22.2 GREEN BAY FORMER MGPPace Project No.:40161286



| Project: Pace Project No.: | 1584/22.2 GREE 40161286 | N BAY FORMER N | IGP | | | | | | | | | |
|-------------------------------|----------------------------|-------------------|-------------|----------------|---------|-------------|-----------|------------|-----------|-----|-----|------|
| QC Batch: | 276417 | | Analys | is Method: | E | PA 7470 | | | | | | |
| QC Batch Method: | EPA 7470 | | Analys | is Description | on: 74 | 470 Mercury | Dissolved | | | | | |
| Associated Lab San | nples: 4016128 | 6001, 40161286002 | 2, 40161286 | 003. | | | | | | | | |
| | | | | | | | | | | | | |
| METHOD BLANK: | 1625777 | | N | Aatrix: Wate | er | | | | | | | |
| Associated Lab San | nples: 4016128 | 6001, 40161286002 | 2, 40161286 | 003. | | | | | | | | |
| | | | Diank | De | | | | | | | | |
| Paran | neter | Units | Resul | t Re | Limit | Analyz | ed | Qualifiers | | | | |
| Mercury, Dissolved | | ug/L | < | <0.13 | 0.42 | 12/08/17 (| 09:24 | | _ | | | |
| LABORATORY COM | NTROL SAMPLE: | 1625778 | | | | | | | | | | |
| | | | Spike | LCS | | LCS | % Rec | : | | | | |
| Paran | neter | Units | Conc. | Result | t | % Rec | Limits | Qı | ualifiers | | | |
| Mercury, Dissolved | | ug/L | 5 | | 4.9 | 98 | 85 | -115 | | - | | |
| | | | | | | | | | | | | |
| MATRIX SPIKE & M | IATRIX SPIKE DU | PLICATE: 16257 | 779 MS | MSD | 1625780 | | | | | | | |
| | | 40161286003 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | er U | nits Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Mercury, Dissolved | Uį | g/L <0.50 | 20 | 20 | 19.8 | 19.5 | 99 | 97 | 85-115 | 2 | 20 | |

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Matrix: Water

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

| QC Batch: | 276133 |
|------------------|----------|
| QC Batch Method: | EPA 3010 |

Analysis Method: Analysis Description:

6020 MET Dissolved

EPA 6020

Associated Lab Samples: 40161286001. 40161286002. 40161286003.

METHOD BLANK: 1624190

Associated Lab Samples: 40161286001, 40161286002, 40161286003,

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

LABORATORY CONTROL SAMPLE: 1624191

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624192 1624193

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

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REPORT OF LABORATORY ANALYSIS

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

| MATRIX SPIKE & MATRIX SPIK | | CATE: 16241 | 92 | | 1624193 | | | | | | | |
|----------------------------|-------|-------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | | 40161286003 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Silver, Dissolved | ug/L | <0.50 | 250 | 250 | 241 | 242 | 96 | 97 | 75-125 | 1 | 20 | |

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

| QC Batch: | 275199 | | Analysis Meth | nod: El | PA 8260 | | |
|--------------------|------------------|------------------|---------------|--------------|--------------------|------------|--|
| QC Batch Method: | EPA 8260 | | Analysis Desc | cription: 82 | 8260 MSV UST-WATER | | |
| Associated Lab Sa | amples: 40161286 | 001, 40161286002 | | | | | |
| METHOD BLANK: | 1619280 | | Matrix: | Water | | | |
| Associated Lab Sa | mples: 40161286 | 001, 40161286002 | | | | | |
| | | | Blank | Reporting | | | |
| Para | ameter | Units | Result | Limit | Analyzed | Qualifiers | |
| 1,2,4-Trimethylber | izene | ug/L | <0.50 | 1.0 | 11/27/17 14:38 | | |
| 1,3,5-Trimethylber | izene | ug/L | <0.50 | 1.0 | 11/27/17 14:38 | | |
| Benzene | | ug/L | <0.50 | 1.0 | 11/27/17 14:38 | | |
| Ethylbenzene | | ug/L | <0.50 | 1.0 | 11/27/17 14:38 | | |
| 0 | | | 1.0 | 2.0 | 44/07/47 44:00 | | |

| ug/L | <0.50 | 1.0 | 11/27/17 14:38 |
|------|---|------------|--|
| ug/L | <1.0 | 2.0 | 11/27/17 14:38 |
| ug/L | <0.50 | 1.0 | 11/27/17 14:38 |
| ug/L | <0.50 | 1.0 | 11/27/17 14:38 |
| ug/L | <1.5 | 3.0 | 11/27/17 14:38 |
| % | 87 | 61-130 | 11/27/17 14:38 |
| % | 111 | 67-130 | 11/27/17 14:38 |
| % | 96 | 70-130 | 11/27/17 14:38 |
| | ug/L ug/L ug/L ug/L % % % | ug/L <0.50 | ug/L <0.50 1.0 ug/L <1.0 |

LABORATORY CONTROL SAMPLE: 1619281

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

| MATRIX SPIKE & MATRIX SPI | IATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619282 1619283 | | | | | | | | | | | |
|---------------------------|--|------------|-------|-------|--------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 4 | 0161238001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Benzene | ug/L | 407 | 500 | 500 | 835 | 858 | 86 | 90 | 73-145 | 3 | 20 | |
| Ethylbenzene | ug/L | 2200 | 500 | 500 | 2720 | 2670 | 104 | 96 | 87-129 | 2 | 20 | |
| m&p-Xylene | ug/L | 47.2 | 1000 | 1000 | 1130 | 1100 | 108 | 105 | 70-130 | 3 | 20 | |
| o-Xylene | ug/L | <10.0 | 500 | 500 | 515 | 505 | 103 | 101 | 70-130 | 2 | 20 | |
| Toluene | ug/L | <10.0 | 500 | 500 | 517 | 508 | 102 | 101 | 82-131 | 2 | 20 | |
| Xylene (Total) | ug/L | 47.2 | 1500 | 1500 | 1640 | 1600 | 106 | 104 | 70-130 | 2 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 105 | 103 | 61-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 104 | 105 | 67-130 | | | |
| Toluene-d8 (S) | % | | | | | | 98 | 98 | 70-130 | | | |

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

QC Batch: 275200 QC Batch Method: EPA 8260 Associated Lab Samples: 40161286003. Analysis Method: Analysis Description:

Matrix: Water

EPA 8260 8260 MSV UST-WATER

METHOD BLANK: 1619284

Associated Lab Samples: 40161286003.

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

LABORATORY CONTROL SAMPLE: 1619285

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

| MATRIX SPIKE & MATRIX SPIKE DUPI | | 1619287 | | | | | | | | | |
|----------------------------------|-------------------------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| Parameter Units | 40161286003 s Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| Benzene ug/L | <0.50 | 50 | 50 | 43.9 | 44.4 | 88 | 89 | 73-145 | 1 | 20 | |
| Ethylbenzene ug/L | . <0.50 | 50 | 50 | 51.2 | 51.7 | 102 | 103 | 87-129 | 1 | 20 | |
| m&p-Xylene ug/L | . <1.0 | 100 | 100 | 105 | 105 | 105 | 105 | 70-130 | 0 | 20 | |
| o-Xylene ug/L | . <0.50 | 50 | 50 | 50.1 | 51.0 | 100 | 102 | 70-130 | 2 | 20 | |
| Toluene ug/L | . <0.50 | 50 | 50 | 50.8 | 51.3 | 101 | 102 | 82-131 | 1 | 20 | |
| Xylene (Total) ug/L | <1.5 | 150 | 150 | 155 | 156 | 103 | 104 | 70-130 | 1 | 20 | |

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

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

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Project:1584/22.2 GREEN BAY FORMER MGPPace Project No.:40161286

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

| QC Batch: | 275221 | Analysis Method: | EPA 8270 by HVI |
|------------------|----------|-----------------------|-----------------------|
| QC Batch Method: | EPA 3510 | Analysis Description: | 8270 Water PAH by HVI |

Associated Lab Samples: 40161286001, 40161286002, 40161286003,

METHOD BLANK: 1619351

Matrix: Water

Associated Lab Samples: 40161286001, 40161286002, 40161286003,

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

LABORATORY CONTROL SAMPLE: 1619352

| | TOTOOOL | | | | | |
|------------------------|---------|-------|--------|-------|----------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| 1-Methylnaphthalene | ug/L | 2 | 1.2 | 61 | 39-83 | |
| 2-Methylnaphthalene | ug/L | 2 | 1.2 | 59 | 38-86 | |
| Acenaphthene | ug/L | 2 | 1.1 | 56 | 35-85 | |
| Acenaphthylene | ug/L | 2 | 1.1 | 57 | 31-88 | |
| Anthracene | ug/L | 2 | 1.4 | 70 | 47-104 | |
| Benzo(a)anthracene | ug/L | 2 | 1.1 | 57 | 36-105 | |
| Benzo(a)pyrene | ug/L | 2 | 1.3 | 66 | 69-117 I | _2 |
| Benzo(b)fluoranthene | ug/L | 2 | 1.2 | 58 | 54-107 | |
| Benzo(g,h,i)perylene | ug/L | 2 | 0.65 | 32 | 13-86 | |
| Benzo(k)fluoranthene | ug/L | 2 | 1.3 | 65 | 63-128 | |
| Chrysene | ug/L | 2 | 1.6 | 80 | 69-150 | |
| Dibenz(a,h)anthracene | ug/L | 2 | 0.46 | 23 | 10-87 | |
| Fluoranthene | ug/L | 2 | 1.5 | 73 | 57-103 | |
| Fluorene | ug/L | 2 | 1.2 | 59 | 38-85 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 2 | 1.1 | 55 | 40-111 | |
| Naphthalene | ug/L | 2 | 1.1 | 53 | 39-82 | |

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REPORT OF LABORATORY ANALYSIS

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

| LABORATORY CONTROL SAMPLE: | 1619352 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| Phenanthrene | ug/L | 2 | 1.2 | 60 | 46-96 | |
| Pyrene | ug/L | 2 | 1.5 | 74 | 57-110 | |
| 2-Fluorobiphenyl (S) | % | | | 54 | 35-84 | |
| Terphenyl-d14 (S) | % | | | 67 | 10-129 | |
| | | | | | | |

1619354

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619353

| | | | MS | MSD | | | | | | | | |
|------------------------|-------|------------|-------|-------|--------|--------|-------|-------|--------|-----|-----|------|
| | 4 | 0161286003 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| 1-Methylnaphthalene | ug/L | <0.0065 | 2.2 | 2.1 | 1.6 | 1.4 | 74 | 68 | 27-86 | 10 | 29 | |
| 2-Methylnaphthalene | ug/L | <0.0054 | 2.2 | 2.1 | 1.5 | 1.4 | 71 | 64 | 30-86 | 10 | 35 | |
| Acenaphthene | ug/L | <0.0067 | 2.2 | 2.1 | 1.5 | 1.3 | 70 | 61 | 28-85 | 15 | 29 | |
| Acenaphthylene | ug/L | <0.0055 | 2.2 | 2.1 | 1.5 | 1.3 | 70 | 61 | 27-88 | 16 | 29 | |
| Anthracene | ug/L | <0.011 | 2.2 | 2.1 | 1.2 | 1.8 | 54 | 87 | 38-104 | 46 | 35 | R1 |
| Benzo(a)anthracene | ug/L | <0.0083 | 2.2 | 2.1 | 1.1 | 1.1 | 50 | 50 | 10-105 | 2 | 28 | |
| Benzo(a)pyrene | ug/L | <0.012 | 2.2 | 2.1 | 1.3 | 1.4 | 62 | 65 | 10-130 | 4 | 26 | |
| Benzo(b)fluoranthene | ug/L | <0.0063 | 2.2 | 2.1 | 1.1 | 1.1 | 49 | 52 | 10-115 | 4 | 25 | |
| Benzo(g,h,i)perylene | ug/L | <0.0075 | 2.2 | 2.1 | 0.62 | 0.62 | 29 | 29 | 10-87 | 1 | 42 | |
| Benzo(k)fluoranthene | ug/L | <0.0083 | 2.2 | 2.1 | 1.4 | 1.6 | 64 | 75 | 10-133 | 15 | 25 | |
| Chrysene | ug/L | <0.014 | 2.2 | 2.1 | 2.0 | 2.1 | 91 | 97 | 17-150 | 5 | 24 | |
| Dibenz(a,h)anthracene | ug/L | <0.011 | 2.2 | 2.1 | 0.60 | 0.62 | 28 | 29 | 10-89 | 3 | 49 | |
| Fluoranthene | ug/L | <0.012 | 2.2 | 2.1 | 1.8 | 1.9 | 84 | 88 | 41-103 | 4 | 32 | |
| Fluorene | ug/L | <0.0088 | 2.2 | 2.1 | 1.6 | 1.4 | 73 | 64 | 32-85 | 15 | 28 | |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.019 | 2.2 | 2.1 | 0.99 | 1.0 | 46 | 48 | 10-111 | 3 | 37 | |
| Naphthalene | ug/L | <0.020 | 2.2 | 2.1 | 1.3 | 1.3 | 62 | 59 | 23-88 | 7 | 28 | |
| Phenanthrene | ug/L | <0.015 | 2.2 | 2.1 | 1.5 | 1.5 | 69 | 69 | 33-96 | 1 | 25 | |
| Pyrene | ug/L | 0.010J | 2.2 | 2.1 | 1.8 | 1.7 | 82 | 81 | 38-110 | 2 | 28 | |
| 2-Fluorobiphenyl (S) | % | | | | | | 67 | 60 | 35-84 | | | |
| Terphenyl-d14 (S) | % | | | | | | 67 | 71 | 10-129 | | | |

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REPORT OF LABORATORY ANALYSIS

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Project:1584/22.2 GREEN BAY FORMER MGPPace Project No.:40161286

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Project:1584/22.2 GREEN BAY FORMER MGPPace Project No.:40161286

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.



Project:1584/22.2 GREEN BAY FORMER MGPPace Project No.:40161286

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Project:1584/22.2 GREEN BAY FORMER MGPPace Project No.:40161286

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Project:1584/22.2 GREEN BAY FORMER MGPPace Project No.:40161286

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REPORT OF LABORATORY ANALYSIS

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| Project: | 1584/22.2 GREEN | BAY FORMER MO | ₽ | | | | | | | | | |
|--------------------|------------------|-------------------|---------|-------------|----------|--------------|--------|------------|-----------|-----|-----|------|
| Pace Project No.: | 40161286 | | | | | | | | | | | |
| QC Batch: | 277171 | | Analysi | is Method: | E | PA 300.0 | | | | | | |
| QC Batch Method: | EPA 300.0 | | Analysi | is Descript | ion: 3 | 00.0 IC Anio | ns | | | | | |
| Associated Lab San | nples: 40161286 | 001, 40161286002, | | | | | | | | | | |
| METHOD BLANK: | 1629422 | | N | latrix: Wat | ter | | | | | | | |
| Associated Lab San | nples: 40161286 | 001, 40161286002, | | | | | | | | | | |
| | | | Blank | R | eporting | | | | | | | |
| Paran | neter | Units | Result | t | Limit | Analyz | ed | Qualifiers | | | | |
| Sulfate | | mg/L | | <1.0 | 3.0 |) 12/14/17 | 17:44 | | | | | |
| LABORATORY COM | NTROL SAMPLE: | 1629423 | | | | | | | | | | |
| | | | Spike | LCS | ; | LCS | % Red | ; | | | | |
| Paran | neter | Units | Conc. | Resu | lt | % Rec | Limits | a Qu | ualifiers | | | |
| Sulfate | | mg/L | 20 | | 19.0 | 95 | 90 |)-110 | | - | | |
| MATRIX SPIKE & N | IATRIX SPIKE DUP | LICATE: 162942 | 24 | | 1629425 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 40161275002 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | r Unit | ts Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Sulfate | mg/ | L 54.2 | 200 | 200 | 265 | 276 | 105 | 111 | 90-110 | 4 | 15 | M0 |

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.



| Project: | 1584/22.2 GI | REEN BAY | FORMER MO | ЭP | | | | | | | | | |
|--------------------|--------------|----------|------------------------|--------|------------|-----------|--------------|--------|------------|-----------|-----|-----|------|
| Pace Project No.: | 40161286 | | | | | | | | | | | | |
| QC Batch: | 277302 | | | Analys | is Method | : Е | PA 300.0 | | | | | | |
| QC Batch Method: | EPA 300.0 | | | Analys | is Descrip | tion: 3 | 00.0 IC Anio | ns | | | | | |
| Associated Lab San | nples: 4016 | 1286003 | | | | | | | | | | | |
| METHOD BLANK: | 1630514 | | | Ν | Aatrix: Wa | ater | | | | | | | |
| Associated Lab San | nples: 4016 | 1286003 | | | | | | | | | | | |
| | | | | Blank | ι F | Reporting | | | | | | | |
| Paran | neter | | Units | Resul | t | Limit | Analyz | ed | Qualifiers | | | | |
| Sulfate | | | mg/L | | <1.0 | 3.0 | 12/19/17 | 10:18 | | | | | |
| LABORATORY COM | NTROL SAMP | LE: 163 | 0515 | | | | | | | | | | |
| | | | | Spike | LCS | S | LCS | % Red | > | | | | |
| Paran | neter | | Units | Conc. | Res | ult | % Rec | Limits | . Qi | ualifiers | | | |
| Sulfate | | | mg/L | 20 | | 21.4 | 107 | 90 |)-110 | | | | |
| MATRIX SPIKE & N | IATRIX SPIKE | DUPLICA | TE: 16305 ² | 16 | | 1630517 | | | | | | | |
| | | | | MS | MSD | | | | | | | | |
| _ | | 40 | 0161286003 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | er | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Sulfate | | mg/L | <100 | 2000 | 2000 | 2250 | 2280 | 112 | 113 | 90-110 | 2 | 15 | M0 |

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.



| Project: Pace Project No.: | 1584/22.2 GF 40161286 | REEN BA | Y FORMER MO | GP | | | | | | | | | |
|-------------------------------|--------------------------|--------------|---------------|------------------|----------------------------|------------|----------------------------|--------------|------------|-----------------|-----|-----|------|
| QC Batch: QC Batch Method: | 275800 EPA 353.2 | | | Analys Analys | is Method: is Descripti | E on: 3 | EPA 353.2 353.2 Nitrate | + Nitrite, p | reserved | | | | |
| Associated Lab Sam | ples: 4016 | 1286001 | , 40161286002 | . 40161286 | 003. | | | | | | | | |
| METHOD BLANK: | 1622296 | | | N | Aatrix: Wate | er | | | | | | | |
| Associated Lab Sam | ples: 4016 | 1286001 | . 40161286002 | . 40161286 | 003. | | | | | | | | |
| | | | | Blank | Re Re | eporting | | | | | | | |
| Param | neter | | Units | Resul | t | Limit | Analyz | ed | Qualifiers | | | | |
| Nitrogen, NO2 plus I | NO3 | | mg/L | <(| 0.095 | 0.25 | 5 12/01/17 | 09:05 | | _ | | | |
| LABORATORY CON | ITROL SAMPI | LE: 16 | 22297 | | | | | | | | | | |
| _ | | | | Spike | LCS | | LCS | % Red | ; | | | | |
| Param | leter | | Units | Conc. | Resul | t | % Rec | Limits | . Qi | alifiers | | | |
| Nitrogen, NO2 plus I | NO3 | | mg/L | 2.5 | | 2.6 | 102 | 90 |)-110 | | | | |
| MATRIX SPIKE & M | ATRIX SPIKE | DUPLIC | ATE: 16222 | 98 | | 1622299 | | | | | | | |
| | | | | MS | MSD | | | | | | | | |
| Deveryeter | _ | ، مانعا ا | 40161286003 | Spike | Spike | MS | MSD | MS % Dee | MSD | % Rec | | Max | 0 |
| Parameter | | Units | | | | Result | Result | % Rec | % Rec | | | | Quai |
| Nitrogen, NO2 plus N | NO3 | mg/L | <0.095 | 2.5 | 2.5 | 2.4 | 2.4 | 95 | 96 | 90-110 | 1 | 20 | |
| MATRIX SPIKE & M | ATRIX SPIKE | DUPLIC | ATE: 16223 | 00 | | 1622301 | | | | | | | |
| | | | 40404404004 | MS | MSD | MC | MOD | MO | MCD | | | Max | |
| Parameter | r | Units | Result | Spike Conc. | Spike Conc. | Result | Result | MS % Rec | % Rec | % Rec Limits | RPD | RPD | Qual |
| Nitrogen, NO2 plus N | NO3 | mg/L | <0.095 | 2.5 | 2.5 | 2.5 | 2.5 | 100 | 100 | 90-110 | 0 | 20 | |

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QUALIFIERS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161286

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 40161286003

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

BATCH QUALIFIERS

Batch: 275348

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

ANALYTE QUALIFIERS

- B Analyte was detected in the associated method blank.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- H1 Analysis conducted outside the recognized method holding time.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
- R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161

| o.: | 40161286 | | |
|-----|----------|--|--|
| | | | |

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 40161286001 | 112017001 | EPA 3010 | 276133 | EPA 6020 | 276240 |
| 40161286002 | 112017002 | EPA 3010 | 276133 | EPA 6020 | 276240 |
| 40161286003 | 112017003 | EPA 3010 | 276133 | EPA 6020 | 276240 |

| 40161286001 | 112017001 | EPA 7470 | 276417 | EPA 7470 | 276482 |
|-------------|-----------|----------|--------|----------|--------|
| 40161286002 | 112017002 | EPA 7470 | 276417 | EPA 7470 | 276482 |
| 40161286003 | 112017003 | EPA 7470 | 276417 | EPA 7470 | 276482 |

| 40161286001 | 112017001 | EPA 3510 | 275221 | EPA 8270 by HVI | 275347 |
|-------------|-----------|----------|--------|-----------------|--------|
| 40161286002 | 112017002 | EPA 3510 | 275221 | EPA 8270 by HVI | 275347 |
| 40161286003 | 112017003 | EPA 3510 | 275221 | EPA 8270 by HVI | 275347 |



QUALITY CONTROL DATA CROSS REFERENCE TABLE

| Project: Pace Project No.: | 1584/22.2 GREEN BAY FOR 40161286 | MER MGP | | | |
|-------------------------------|-------------------------------------|------------------------|------------------|-------------------|--------------------|
| ₋ab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytica Batch |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 40161286001 | 112017001 | EPA 8260 | 275199 | | |
| 10161286002 | 112017002 | EPA 8260 | 275199 | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| 10161286001 10161286002 | 112017001 112017002 | EPA 300.0 EPA 300.0 | 277171 277171 | | |
| 10161286003 | 112017003 | EPA 300.0 | 277302 | | |
| | | | | | |



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:1584/22.2 GREEN BAY FORMER MGPPace Project No.:40161286

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

| Pace Analytical Dropped def | F at Parce CHAIL | N-OF-CU -of-Custody is a | | / Analytical R MENT. All relevant fields | Request Doc | cument L accurately. coc∄: \ | +0161 584-1117 | 286 |
|---|--|-------------------------------------|--|---|---|--|-------------------------|------------------------------------|
| Section A Section B | 3 | | Section C | | UN. | | Page: | of S a |
| Required Client Information: Required P Company: Natural Resource Technology Report To: | Project Information: GDSdata@OBG.com | | Invoice Informat Attention: | lion: Accounts Payable | • |] | L/ | |
| Address: 234 W. Florida St Copy To: | Brian Hennings | | Company Name | WEC Business S | ervices, LLC | REGULATORY AGENO | ïΥ | |
| Milwaukee. WI | | | Address: | PO Box 19800, Gree | n Bay, WI 54307 | | | DRINKING WATER |
| Email To: <u>GDSdata@OBG.com</u> Purchase O | Drder No.: | | Pace Quote Reference: | | | | L E | OTHER |
| Phone: 262-719-5286 Fax: Project Nam | me: Green Bay Former MGP | | Pace Project Manager: | | | Site Location | | |
| Requested Due Date/TAT: standard Project Nur | mber: 1584/22.2 | | Pace Profile #: | | | STATE: | · ////// | |
| | | | | | Requested | Analysis Filtered (Y/N) | | |
| Section D Valid Matrix Codes | | | | Preservatives | | YNN | | |
| A Sample IDs MUST BE UNIQUE | WATRIX COMBOSITE COMPOSITE START COMPOSITE COMPOSI | SITIEC SAMPLE TEMP AT COLLECTION | # OF CONTAINERS Unpreserved H_2SO4 | HNO ₃ HCI NaOH Na ₂ S ₂ O ₃ Methanol Other | L Analysis Test L BTEX (8260) 1,2,4- Trimethylbenzene** 1,3,5- Trimethylbenzene** PAHs (8270) \$i M | Metals (6020)* NO2+NO3 (353.2) Sulfate (300.0) PVOCs (8260) | Residual Chlorine (Y/N) | e Project No./ Lab I.D. |
| 1 112017001 2-100mLast 3-250mLp ACD | cu & / 11.2012 | 12-11 | 8 XX | XX | | XXX 3-40m | 419 0 | |
| 2 112017002 | | 1258 | | | | | 1 B UShu | 500 |
| 3 112017003 (6-100mLag (9-250mLp) | | 1344 | | ĂĂ I I I | | (2) | may usu | and 003 |
| 4 112017004 | | 14.58 | | | | | $++\kappa$ | 005 |
| 5 112017005 | | 1970 | 1212 | | | | | <u> </u> |
| 6 11 WI FOOL | | 1406 | 1 × XX | | | | $\overline{\mathbb{O}}$ | 007 |
| 8 112017005 | | 1648 | 8XX | XX | XXXX | KKK III | \square | 800 |
| 9 112017009 | E / / | 1710 | 8XX | XX | | XXX | | 009_ |
| 10 11217010 | 6~ / 11-21-13 | 2 0704 | 8X X | XX | | | <u> </u> | |
| 11 112117011 | | 0737 | 8XX | | | | | (26) |
| 12 112117012 | | 0824 | ZYIXX | | | | IMS/M | AD E CONDITIONS |
| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | | BT/AFFILIATION | | | |
| EPA Level 2 JUL | Unter Mirane | 11-2217 | 0550 | zanu u | ns pau | 11/2011/050 | KOLA | |
| | | | | | | | | |
| | | | | | | | | |
| -1,3,5- Inmethylbenzene (8200) | | | | L | | | | 8 . 5 |
| | SAMPLER NAME | AND SIGNATU | | .4 . | | | in °C /ed on Y/N) | s Intac |
| | SIGNATU | RE of SAMPLER | " Melis " Melin | Mum | DATE Signed (MM/DD/YY): | 11-22.17 | Temp Receiv Ice (| Custody Cooler Sample (Y) |

1889

| | of | Page: | | | | | - | | | | - | | | | | on: | C formati | ction bice li | Se Inv | | | | | | tion: | nforma | ct Inf | Project | uired P | Requi | | | | | : | rmatio | ient Infor | ion A | Requir |
|--------------------|------------------------|-------------------------|---------|--------------|-----------------|-----------------|----------------|-----------------|-------------------------|------------------------|-----------|-----------------|-------|---|-------|-------------|--------------------------------|------------------|-----------------|---------------------------|---------|-------------------|------|----------|---------------|-------------------------|--------------|-----------------------------|----------------------|---|--|--------------------------------------|--------------|----------------------|--|------------------------|------------------------|----------------------|---------|
| | | | | | | | | | | | | | ble | aya | nts F | Accou | A | ention | Atte | | | | | om | OBG.c | Jata@ | Sda | GDS | ort To: | Repor | ogy | nolo | Techr | Jrce | lesou | tural I | Nat | oany: | Compar |
| | | (| AGENC | ORY | LATO | GUL | RE | | LC | es, L | rvice | Ser | ness | usir | EC B | W | Name | npany | Co | | | | | | ings | Henr | an F | Bria | у То: | Copy ' | | | | a St | orida | W. F | 234 | ess: | Address |
| NKING WATER | R <u> </u> | ND WATE | 🖉 GROUI | s 🖪 | PDES | NP | Г | 307 | 154 | /, WI | Bay | en | , Gre | 800 | ix 19 | PO Bo | F | Iress: | Ad | | | | | | | | | | | | | | | 1 | e, WI | vauke | Milw | | |
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| ject No./ Lab I.D. | Pace Projec | Residual Chlorine (Y/N) | | PVOCs (8260) | Sulfate (300.0) | NO2+NO3 (353.2) | Metals (6020)* | PAHs (8270) SIM | 1.3.5- Trimethvlhenzene | 1.2.4-Trimethylbenzene | | L Analvsis Test | Other | Na ₂ S ₂ O ₃ | NaOH | HCI | H ₂ SO ₄ | Innreserved | # OF CONTAINERS | SAMPLE TEMP AT COLLECTION | TIME | COMPOS END/GR | | | COMP STA | SAMPLE TYPE (G=GRAB C=C | | MATRIX CODE (see valid code | | WT WW P SL OL WP AR OT TS | WATER WASTE WATEI PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE | W P S O M A O T |) IIQUE | E ID ,-) BE UN | РLЕ 0-9 / ,- ЈЅТ ВІ | SAM (A-Z a IDs M | S Sample | | ITEM # |
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| <u>v Y</u> | <u>Y</u> N | ROI | 0350 | nľ | rur | 1112 | | 10 | 10 |) | <u>بد</u> | <u>u</u> | L | U | ev | 120 | 0 | <u>36</u> | | 17 | 11.22 | | | - | Unr | $\underline{\Lambda}$ | 'Ma | LAu | Щ | - | | Min | g, Fe, N | Se, Ag | , Hg, S | , Cr, P | Ba, Cd, | als- As | *Metals |
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| Section A Beauting Client Information: | Section B Required Project Information: | | | Secti | ion C e Informat | tion: | | | | | | | | | | | | | Page | ə: | 3 | of , | Page |
| Company: Natural Resource Technology | Report To: GDSdata@OBG.c | com | | Attent | ion: | Acc | ounts | Pay | /able | | | | | ٦ | | | | | | | | | |
| Address: 234 W. Florida St | Copy To: Brian Hennings | | | Comp | any Name | e: \ | WEC | Bus | iness | Ser | vices | s, LL | С | R | EGU | | ORY | AGENC | , | | | | |
| Milwaukee, WI | | | | Addre | ss: | PO | Box | 1980 | 0, G | reen | Bay, | WI | 5430 | 7 [| _ NF | DES | 5 <u>F</u> | | ND WA | TER | <u> </u> | RINKING | WATER |
| Email To: GDSdata@OBG.com | Purchase Order No.: | | | Pace C | Quote | | | | | | | | | | <u> </u> | зт | Ľ | _ RCRA | | | <u> </u> | THER | |
| Phone: 262-719-5286 Fax: | Project Name: Green Bay F | ormer MGP | | Pace F | Project | | | | | | | | | | Site L | ocat | ion | | | V | 7///// | 7////// | |
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| Section D Valid Matrix C | codes 🙀 🙃 | | T | Ι | Γ | | | | | Tz | | | | | | | | | $\square \ell$ | 111. | | ////// | |
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| 3 112117027 2-40mLVB | NF14 | $\Lambda \downarrow \Psi \downarrow$ | | 2 | | | XL. | | | | ΙX | qХ | K† | _ | | | | | ┼╌┠╌ | 4 | ν | | 020 |
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| ADDITIONAL COMMENTS | RELINQUISHED BY | / AFFILIATION | DATE | | TIME | | | AC | CEPI | TED B | Y / A | FFILI/ | ATION | | | DAT | Б | TIME | | | SAMPL | | ONS |
| EPA Level 2 | Melessa Man | en li | 11-22-17 | 08 | Бb | 12 | CC | Me J | LL. | U | > | R | ù | | 11 | 24 | 17 | 0850 | RO | | Y | \overline{N} | Y |
| *Metals- As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn | | | | | | 1 | | | | | | | | | | | | | | | | | |
| **1,2,4- Trimethylbenzene (8260) | | | | | | 1 | | | | | | | | | 1 | | | | 1 | \top | | | |
| **1,3,5- Trimethylbenzene (8260) | | | | 1 | | \vdash | | | | | | | | | + | | | | 1 | + | | | |
| | L | SAMPLER NAME AN | ND SIGNATU | JRE | | <u> </u> | | | | | | | | | | | | | 0 | ╈ | 8 | N) aled | tact |
| | | PRINT Name | of SAMPLER | ۲ : ۸ | | ςς | r | W٨ | Ø. M | m | - | | | * * | -31028 | 00.0197 | | | p in , | | ived (Y/N) | dy Se er (Y/ | tes In Y/N) |
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13886

40161286

Sampling Parameters Green Bay MGP Quarterly Groundwater Sampling

BTEX (USEPA 8260)

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

PAHs (USEPA 8270 SIM)

• Full List

Metals (USEPA 6020)

- Arsenic
- Barium

\$

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

Other Inorganics

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

Available Cyanides go to Test America

Method OIA-1677

| | Sample Conditi | on Upon Recei | ipt | 1241 Bellevue Street, Sui |
|---|------------------------|---------------------|--------------------|------------------------------------|
| Pace Analytical" | | _ | - | Green Bay, WI 54 |
| lient Name: NRT | | Project #: | MO# : | 40161286 |
| ourier: Fed Ex FUPS Z Client F | Pace Other: | | | |
| racking #: | | | 40161286 | |
| ustody Seal on Cooler/Box Present: 🦵 y | es / no Seals intact | : □ yes □ no □ | | |
| ustody Seal on Samples Present: Tyes | no Seals intact | yes no | | |
| acking Material: P Bubble Wrap P E | Bubble Bags | e Other | T Samples o | n ice, cooling process has begun |
| coler Temperature | n Biolo | gical Tissue is Fro | zen: Tyes | ar ice, coomig process has began |
| emp Blank Present: ves no | | - | no | Person examining contents: |
| emp should be above freezing to 6°C. | | | | Date: 11-77-17 |
| iota Samples may be received at $\leq 0^{\circ}$ C. | | Comments: | | |
| hain of Custody Present: | | 1. | | |
| hain of Custody Filled Out: | | 2. | | |
| hain of Custody Relinquished: | | 3. | | |
| ampler Name & Signature on COC: | ØYes □No □N/A | 4. | | |
| amples Arrived within Hold Time: | ØYes □No □N/A | 5. | | |
| - VOA Samples frozen upon receipt | □Yes □No | Date/Time: | | |
| hort Hold Time Analysis (<72hr): | ØYes □No □N/A | 6. | | |
| ush Turn Around Time Requested: | □Yes ØNo □N/A | 7. | | |
| Sufficient Volume: | | 8. | | |
| Correct Containers Used: | | 9. | | |
| -Pace Containers Used: | ØYes □No □N/A | , | | |
| -Pace IR Containers Used: | □Yes □No ØN/A | | | |
| Containers Intact: | ØYes □No □N/A | 10. | | |
| iltered volume received for Dissolved tests | - 22-2 (Zyes) [No -ANT | 11. | | |
| ample Labels match COC | | 12. | | |
| Includes date/time/ID/Analysis Matrix: | $T_{(\lambda)}$ | | | |
| Il containers needing preservation have been chec | ked. | | 7 H2SO4 | □ NaOH □ NaOH +ZnAct |
| Non-Compliance noted in 13.) | | 13. | <i>y</i> | ,, , |
| ompliance with EPA recommendation. | ØYes □No □N/# | | | |
| INO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) | | Initial when | Lab Std #ID of | Date/ |
| &G, WIDROW, Phenolics, OTHER: | | completed 44 | preservative | Time: |
| łeadspace in VOA Vials (>6mm): | □Yes ØNo □N/A | 14. | | Andrea |
| rip Blank Present: | | 15. | | |
| rip Blank Custody Seals Present | | | | |
| 'ace Trip Blank Lot # (if purchased): 55 | 0 | 15 | bookod acc att- | ched form for additional commants. |
| Person Contacted: | Date | /Time: | LINEUNEU, SEE Alla | |
| Comments/ Resolution: | | | | |
| | | | | / / |
| | | | | // |
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| | in our wall | 7 ~ | | Mah |



Wisconsin Public Service Corporation

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

www.wisconsinpublicservice.com

January 29, 2018

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

Subject:Recent Sampling ResultsWisconsin Public Service Corporation – Former Green Bay MGP Site700 North Adams Street (WDNR BRRTS Activity # 02-05-000254)

Dear Mr. Weyers:

WEC Business Services, LLC (WBS), managing the Wisconsin Public Service Corporation (WPSC) former manufactured gas plant site at 700 North Adams Street is providing results of groundwater samples (MW-401BR, MW-402R) collected in November of 2017, as part routine monitoring. Similar to other recent sampling events, no samples were collected from MW-401AR due to the presence of dense non-aqueous phase liquid (DNAPL) in the well casing. The presence of DNAPL in MW-401AR is not a recent occurrence, nor does it present a direct risk to people using the parking lot. Wisconsin Administrative Code Chapter NR 716.14 requires responsible parties (WPSC for the above-mentioned site) to report sampling results to the property owner, and occupant, as applicable.

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

We appreciate your ongoing cooperation in this matter.

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

Sincerely,

Frank Óombrowski Principal Environmental Consultant WEC Energy Group – Business Services

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

Environmental Dept.

Encl: Figure 1. Harbinger Development, LLC

Table 1. Groundwater Analytical Results for Harbinger Development, LLC (Nov 2017) Table 2. Sample Key for Harbinger Development, LLC (Nov 2017) Laboratory Reports - 40161289_frc

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

S. .

Figures



Tables

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

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

| | | | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH | PAH |
|-----------------|--------------------|----------------|---------------------|---------------------|--------------|----------------|------------|--------------------|----------------|----------------------|----------------------|----------------------|-------------|-----------------------|--------------|-----------|------------------------|-------------|--------------|-----------|
| 9-digit Code | Sample Location | Sample Date | 1-Methylnaphthalene | 2-Methylnaphthalene | Acenaphthene | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(b)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-cd)pyrene | Naphthalene | Phenanthrene | Pyrene |
| | Re | porting Units: | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | - | | | | | | | | | | | | | | | | | |
| | WI Groui | ndwater PAL: | <u>NS</u> | <u>NS</u> | <u>NS</u> | <u>NS</u> | <u>600</u> | <u>NS</u> | <u>0.02</u> | <u>0.02</u> | <u>NS</u> | <u>NS</u> | <u>0.02</u> | <u>NS</u> | <u>80</u> | <u>80</u> | <u>NS</u> | <u>10</u> | <u>NS</u> | <u>50</u> |
| | WI Grou | Indwater ES: | NS | NS | NS | NS | 3,000 | NS | 0.2 | 0.2 | NS | NS | 0.2 | NS | 400 | 400 | NS | 100 | NS | 250 |
| | | I | | | | | | | | | | | | | | | | | | |
| 112117010 | MW-402R | 11/21/2017 | 186 | 26.9 | 29.4 | 3.4 | 1.2 J | <0.79 U | <1.1 U* | <0.60 U* | <0.71 U | <0.79 U | <1.4 U* | <1.1 U | 2.0 J | 25.1 | <1.9 U | <u>588</u> | 14.2 | 2.5 J |
| 112117011 | MW-401BR | 11/21/2017 | <0.0063 U | <0.0053 U | <0.0065 U | <0.0054 U | <0.011 U | <0.0081 U | <0.011 U | 0.0071 J | <0.0073 U | <0.0081 U | <0.014 U | <0.011 U | 0.016 J | <0.0086 U | <0.019 U | <0.020 U | <0.015 U | 0.018 J |

Notes:

Underline = concentration that attains or exceeds WDNR PAL

BOLD = concentration that attains or exceeds WDNR ES

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

-- = Analysis not performed

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

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

Dup = Quality Control Field Duplicate Sample

µg/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

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

NS = A groundwater quality standard has not been established.

NO2 + NO3 = nitrite plus nitrate

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

a. Where no detections were observed, the sum of the reporting limits is presented.

b. Where detections were observed, the detected results were added together for the total summation.

c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

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

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

| | | | BTEX | BTEX | BTEX | BTEX | BTEX | BTEX | VOC | VOC | VOC | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Metal | Inorganic | Inorganic |
|-----------------|--------------------|----------------|--------------|--------------|------------|-----------|----------------|----------------|------------------------|------------------------|---------------------------------------|--------------------|-------------------|--------------------|---------------------|-----------------|-----------------|----------------------|--------------------|---------------------|-------------------|----------------------------|------------------|
| 9-digit Code | Sample Location | Sample Date | Ethylbenzene | Ethylbenzene | Toluene | Xylene, o | Xylenes, m + p | Xylenes, Total | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Trimethylbenzenes, Total ¹ | Arsenic, Dissolved | Barium, Dissolved | Cadmium, Dissolved | Chromium, Dissolved | Iron, Dissolved | Lead, Dissolved | Manganese, Dissolved | Mercury, Dissolved | Selenium, Dissolved | Silver, Dissolved | Nitrogen, NO2 + NO3, Total | Sulfate, Total |
| | Rep | porting Units: | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | WI Groun | ndwater PAL: | <u>0.5</u> | <u>140</u> | <u>160</u> | <u>NS</u> | <u>NS</u> | <u>400</u> | <u>NS</u> | <u>NS</u> | <u>96</u> | <u>1</u> | <u>400</u> | <u>0.5</u> | <u>10</u> | <u>150</u> | <u>1.5</u> | <u>25</u> | <u>0.2</u> | <u>10</u> | <u>10</u> | <u>2,000</u> | <u>125,000</u> |
| | WI Grou | ndwater ES: | 5 | 700 | 800 | NS | NS | 2,000 | NS | NS | 480 | 10 | 2,000 | 5 | 100 | 300 | 15 | 50 | 2 | 50 | 50 | 10,000 | 250,000 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 112117010 | MW-402R | 11/21/2017 | <u>1,090</u> | <u>148</u> | 64.6 | 77.7 | 93.5 | 171 | 62.3 | <5.0 U | 62.3 | <u>2.3 J</u> | <u>924</u> | <0.40 U | <5.1 U | <u>5,980</u> | <0.98 U | <u>438</u> | <0.50 U* | <1.6 U | <0.50 U | <95 U | 29,100 |
| 112117011 | MW-401BR | 11/21/2017 | <0.50 U* | <0.50 U | 0.81 J | <0.50 U | <1.0 U | <1.5 U | <0.50 U | <0.50 U | <1.00 U | <1.4 U* | 25.3 | <0.40 U | <5.1 U | <553 U* | <0.98 U | <13.5 U | <0.13 U | <1.6 U | <0.50 U | 180 J | <u>1,380,000</u> |
| | | | | | | | | | | | | | | | | | | | | IO:ECK C:E | CK 1/24/18 C: | TWL 1/25/18] | U:ECK 1/26/171 |

Notes:

Underline = concentration that attains or exceeds WDNR PAL

BOLD = concentration that attains or exceeds WDNR ES

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

-- = Analysis not performed

< = Concentration is less than reported limit

J = Concentration estimated

U = Not detected

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

Dup = Quality Control Field Duplicate Sample

 μ g/L = micrograms per liter

BTEX = benzene, toluene, ethylbenzene and xylenes

PAH = polycyclic aromatic hydrocarbons

VOC = Volatile Organic Compound

ES = Enforcement Standard

PAL = Preventive Action Limit

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

NS = A groundwater quality standard has not been established.

NO2 + NO3 = nitrite plus nitrate

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

a. Where no detections were observed, the sum of the reporting limits is presented.

b. Where detections were observed, the detected results were added together for the total summation.

c. The list of analytes used for the calculation are: 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

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Table 2. Sample Key for Harbinger Development, LLC.

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

| PACE Lab Report | 9-digit code | Location ID Name | Matrix | Date |
|--------------------|--------------|---------------------|-----------------|----------------------|
| 40161289 | 112117010 | MW-402R | Groundwater | 11/21/2017 |
| 40161289 | 112117011 | MW-401BR | Groundwater | 11/21/2017 |
| | | | O:ECK C:ECK 1/2 | 4/18 C: TWL 1/25/18] |

Notes:

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



Laboratory Data Reports



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

December 15, 2017

Eric Hritsuk Natural Resource Technologies

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

Dear Eric Hritsuk:

,

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

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

Sincerely,

mhe

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

Enclosures

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





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

CERTIFICATIONS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Green Bay Certification IDs

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



SAMPLE SUMMARY

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

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



SAMPLE ANALYTE COUNT

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|-----------------|----------|----------------------|
| 40161289001 | 112117010 | EPA 6020 | SDW | 9 |
| | | EPA 7470 | AJT | 1 |
| | | EPA 8270 by HVI | TPO | 20 |
| | | EPA 8260 | HNW | 11 |
| | | EPA 300.0 | HMB | 1 |
| | | EPA 353.2 | DAW | 1 |
| 40161289002 | 112117011 | EPA 6020 | SDW | 9 |
| | | EPA 7470 | AJT | 1 |
| | | EPA 8270 by HVI | TPO | 20 |
| | | EPA 8260 | HNW | 11 |
| | | EPA 300.0 | HMB | 1 |
| | | EPA 353.2 | DAW | 1 |



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 6020

Description:6020 MET ICPMS, DissolvedClient:Natural Resource Technology Integrys WIDate:December 15, 2017

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: 275901

- D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
 - 112117010 (Lab ID: 40161289001)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved
 - Chromium, Dissolved
 - Lead, Dissolved
 - Selenium, Dissolved
 - 112117011 (Lab ID: 40161289002)
 - Silver, Dissolved
 - Arsenic, Dissolved
 - Cadmium, Dissolved



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method:EPA 6020Description:6020 MET ICPMS, DissolvedClient:Natural Resource Technology Integrys WIDate:December 15, 2017

Analyte Comments:

QC Batch: 275901

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

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



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 7470

Description:7470 Mercury, DissolvedClient:Natural Resource Technology Integrys WIDate:December 15, 2017

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: 276418

- D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
 - 112117010 (Lab ID: 40161289001)
 - Mercury, Dissolved



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 8270 by HVI

Description:8270 MSSV PAH by HVIClient:Natural Resource Technology Integrys WIDate:December 15, 2017

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:


PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 8260

Description:8260 MSV USTClient:Natural Resource Technology Integrys WIDate:December 15, 2017

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:



PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 300.0

Description:300.0 IC Anions 28 DaysClient:Natural Resource Technology Integrys WIDate:December 15, 2017

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: 276066

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

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

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

Additional Comments:



PROJECT NARRATIVE

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

Method: EPA 353.2

Description:353.2 Nitrogen, NO2/NO3 pres.Client:Natural Resource Technology Integrys WIDate:December 15, 2017

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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



ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

1 10,000

Pace Project No.: 40161289

| Sample: 112117010 | Lab ID: | 40161289001 | Collected: | 11/21/17 | 7 07:04 | Received: 11/2 | 22/17 08:50 Ma | atrix: Water | |
|---------------------------|------------|---------------|-------------|------------|----------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS, Dissolved | Analytical | Method: EPA 6 | 020 Prepara | ation Meth | od: EPA | 3010 | | | |
| Arsenic, Dissolved | 2.3J | ug/L | 5.0 | 1.4 | 5 | 12/05/17 06:50 | 12/14/17 05:17 | 7440-38-2 | D3 |
| Barium, Dissolved | 924 | ug/L | 5.7 | 1.7 | 5 | 12/05/17 06:50 | 12/14/17 05:17 | 7440-39-3 | |
| Cadmium, Dissolved | <0.40 | ug/L | 5.0 | 0.40 | 5 | 12/05/17 06:50 | 12/14/17 05:17 | 7440-43-9 | D3 |
| Chromium, Dissolved | <5.1 | ug/L | 17.0 | 5.1 | 5 | 12/05/17 06:50 | 12/14/17 05:17 | 7440-47-3 | D3 |
| Iron, Dissolved | 5980 | ug/L | 1840 | 553 | 5 | 12/05/17 06:50 | 12/14/17 05:17 | 7439-89-6 | |
| Lead, Dissolved | <0.98 | ug/L | 5.0 | 0.98 | 5 | 12/05/17 06:50 | 12/14/17 05:17 | 7439-92-1 | D3 |
| Manganese, Dissolved | 438 | ug/L | 45.0 | 13.5 | 5 | 12/05/17 06:50 | 12/14/17 05:17 | 7439-96-5 | |
| Selenium, Dissolved | <1.6 | ug/L | 5.3 | 1.6 | 5 | 12/05/17 06:50 | 12/14/17 05:17 | 7782-49-2 | D3 |
| Silver, Dissolved | <0.50 | ug/L | 2.5 | 0.50 | 5 | 12/05/17 06:50 | 12/14/17 05:17 | 7440-22-4 | D3 |
| 7470 Mercury, Dissolved | Analytical | Method: EPA 7 | 470 Prepara | ation Meth | od: EPA | 7470 | | | |
| Mercury, Dissolved | <0.50 | ug/L | 1.7 | 0.50 | 1 | 12/07/17 08:55 | 12/08/17 10:52 | 7439-97-6 | D3 |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | on Metho | od: EPA 3510 | | | |
| Acenaphthene | 29.4 | ug/L | 3.2 | 0.64 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 83-32-9 | |
| Acenaphthylene | 3.4 | ug/L | 2.6 | 0.52 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 208-96-8 | |
| Anthracene | 1.2J | ug/L | 5.5 | 1.1 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 120-12-7 | |
| Benzo(a)anthracene | <0.79 | ug/L | 4.0 | 0.79 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 56-55-3 | |
| Benzo(a)pyrene | <1.1 | ug/L | 5.5 | 1.1 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.60 | ug/L | 3.0 | 0.60 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.71 | ug/L | 3.6 | 0.71 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.79 | ug/L | 4.0 | 0.79 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 207-08-9 | |
| Chrysene | <1.4 | ug/L | 6.9 | 1.4 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 218-01-9 | |
| Dibenz(a,h)anthracene | <1.1 | ug/L | 5.3 | 1.1 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 53-70-3 | |
| Fluoranthene | 2.0J | ug/L | 5.6 | 1.1 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 206-44-0 | |
| Fluorene | 25.1 | ug/L | 4.2 | 0.84 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <1.9 | ug/L | 9.3 | 1.9 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 193-39-5 | |
| 1-Methylnaphthalene | 186 | ug/L | 3.1 | 0.62 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 90-12-0 | |
| 2-Methylnaphthalene | 26.9 | ug/L | 2.6 | 0.52 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 91-57-6 | |
| Naphthalene | 588 | ug/L | 9.6 | 1.9 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 91-20-3 | |
| Phenanthrene | 14.2 | ug/L | 7.3 | 1.5 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 85-01-8 | |
| Pyrene Surrogates | 2.5J | ug/L | 4.0 | 0.81 | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 129-00-0 | |
| 2-Eluorobiphenyl (S) | 37 | % | 35-84 | | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 321-60-8 | |
| Terphenyl-d14 (S) | 38 | % | 10-129 | | 100 | 11/28/17 10:53 | 11/29/17 18:51 | 1718-51-0 | |
| 8260 MSV UST | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | 1090 | ug/L | 10.0 | 5.0 | 10 | | 11/28/17 16:36 | 71-43-2 | |
| Ethylbenzene | 148 | ug/L | 10.0 | 5.0 | 10 | | 11/28/17 16:36 | 100-41-4 | |
| Toluene | 64.6 | ug/L | 10.0 | 5.0 | 10 | | 11/28/17 16:36 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | 62.3 | ug/L | 10.0 | 5.0 | 10 | | 11/28/17 16:36 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <5.0 | ug/L | 10.0 | 5.0 | 10 | | 11/28/17 16:36 | 108-67-8 | |
| Xylene (Total) | 171 | ug/L | 30.0 | 15.0 | 10 | | 11/28/17 16:36 | 1330-20-7 | |
| m&p-Xylene | 93.5 | ug/L | 20.0 | 10.0 | 10 | | 11/28/17 16:36 | 179601-23-1 | |
| o-Xylene | 77.7 | ug/L | 10.0 | 5.0 | 10 | | 11/28/17 16:36 | 95-47-6 | |



ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No .:

o.: 40161289

| Sample: 112117010 | Lab ID: 4 | 40161289001 | Collected: | 11/21/17 | 7 07:04 | Received: 11/ | 22/17 08:50 Ma | atrix: Water | |
|-------------------------------|--------------|----------------|-------------|------------|----------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV UST | Analytical M | /lethod: EPA 8 | 260 | | | | | | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 113 | % | 67-130 | | 10 | | 11/28/17 16:36 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | % | 70-130 | | 10 | | 11/28/17 16:36 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | % | 61-130 | | 10 | | 11/28/17 16:36 | 460-00-4 | |
| 300.0 IC Anions 28 Days | Analytical N | /lethod: EPA 3 | 00.0 | | | | | | |
| Sulfate | 29.1 | mg/L | 15.0 | 5.0 | 5 | | 12/07/17 20:57 | 14808-79-8 | MO |
| 353.2 Nitrogen, NO2/NO3 pres. | Analytical N | /lethod: EPA 3 | 53.2 | | | | | | |
| Nitrogen, NO2 plus NO3 | <0.095 | mg/L | 0.25 | 0.095 | 1 | | 11/30/17 12:45 | | |
| Sample: 112117011 | Lab ID: 4 | 40161289002 | Collected: | 11/21/17 | 7 07:37 | Received: 11/ | 22/17 08:50 Ma | atrix: Water | |
| Parameters | Recults | Linite | 100 | | DE | Prepared | Analyzed | | Qual |
| | | | | | | | | | |
| 6020 MET ICPMS, Dissolved | Analytical N | /lethod: EPA 6 | 020 Prepara | ation Meth | od: EPA | 3010 | | | |
| Arsenic, Dissolved | <1.4 | ug/L | 5.0 | 1.4 | 5 | 12/05/17 06:50 | 12/14/17 05:24 | 7440-38-2 | D3 |
| Barium, Dissolved | 25.3 | ug/L | 5.7 | 1.7 | 5 | 12/05/17 06:50 | 12/14/17 05:24 | 7440-39-3 | |
| Cadmium, Dissolved | <0.40 | ug/L | 5.0 | 0.40 | 5 | 12/05/17 06:50 | 12/14/17 05:24 | 7440-43-9 | D3 |
| Chromium, Dissolved | <5.1 | ug/L | 17.0 | 5.1 | 5 | 12/05/17 06:50 | 12/14/17 05:24 | 7440-47-3 | D3 |
| Iron, Dissolved | <553 | ug/L | 1840 | 553 | 5 | 12/05/17 06:50 | 12/14/17 05:24 | 7439-89-6 | D3 |
| Lead, Dissolved | <0.98 | ug/L | 5.0 | 0.98 | 5 | 12/05/17 06:50 | 12/14/17 05:24 | 7439-92-1 | D3 |
| Manganese, Dissolved | <13.5 | ug/L | 45.0 | 13.5 | 5 | 12/05/17 06:50 | 12/14/17 05:24 | 7439-96-5 | D3 |
| Selenium, Dissolved | <1.6 | ug/L | 5.3 | 1.6 | 5 | 12/05/17 06:50 | 12/14/17 05:24 | 7782-49-2 | D3 |
| Silver, Dissolved | <0.50 | ug/L | 2.5 | 0.50 | 5 | 12/05/17 06:50 | 12/14/17 05:24 | 7440-22-4 | D3 |
| 7470 Mercury, Dissolved | Analytical N | /lethod: EPA 7 | 470 Prepara | ation Meth | od: EPA | 7470 | | | |
| Mercury, Dissolved | <0.13 | ug/L | 0.42 | 0.13 | 1 | 12/07/17 08:55 | 12/08/17 10:54 | 7439-97-6 | |
| 8270 MSSV PAH by HVI | Analytical N | /lethod: EPA 8 | 270 by HVI | Preparatio | on Metho | od: EPA 3510 | | | |
| Acenaphthene | <0.0065 | ug/L | 0.033 | 0.0065 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 83-32-9 | |
| Acenaphthylene | <0.0054 | ug/L | 0.027 | 0.0054 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 208-96-8 | |
| Anthracene | <0.011 | ug/L | 0.056 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 120-12-7 | |
| Benzo(a)anthracene | <0.0081 | ug/L | 0.041 | 0.0081 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 56-55-3 | |
| Benzo(a)pyrene | <0.011 | ug/L | 0.057 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 50-32-8 | |
| Benzo(b)fluoranthene | 0.0071J | ug/L | 0.031 | 0.0062 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0073 | ug/L | 0.036 | 0.0073 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0081 | ug/L | 0.041 | 0.0081 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 207-08-9 | |
| Chrysene | <0.014 | ug/L | 0.070 | 0.014 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.011 | ug/L | 0.054 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 53-70-3 | |
| Fluoranthene | 0.016J | ug/L | 0.057 | 0.011 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 206-44-0 | |
| Fluorene | <0.0086 | ug/L | 0.043 | 0.0086 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.019 | ug/L | 0.095 | 0.019 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 193-39-5 | |
| 1-Methylnaphthalene | <0.0063 | ug/L | 0.032 | 0.0063 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 90-12-0 | |



ANALYTICAL RESULTS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.:

t No.: 40161289

| Sample: 112117011 | Lab ID: | 40161289002 | Collecte | d: 11/21/17 | 07:37 | 7 Received: 11/22/17 08:50 Matrix: Water | | | | |
|-------------------------------|------------|---------------|------------|-------------|--------|--|----------------|-------------|------|--|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual | |
| 8270 MSSV PAH by HVI | Analytical | Method: EPA 8 | 270 by HVI | Preparatio | n Meth | nod: EPA 3510 | | | | |
| 2-Methylnaphthalene | <0.0053 | ug/L | 0.026 | 0.0053 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 91-57-6 | | |
| Naphthalene | <0.020 | ug/L | 0.099 | 0.020 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 91-20-3 | | |
| Phenanthrene | <0.015 | ug/L | 0.074 | 0.015 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 85-01-8 | | |
| Pyrene Surrogates | 0.018J | ug/L | 0.041 | 0.0082 | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 129-00-0 | | |
| 2-Fluorobiphenyl (S) | 55 | % | 35-84 | | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 321-60-8 | | |
| Terphenyl-d14 (S) | 71 | % | 10-129 | | 1 | 11/28/17 10:53 | 11/30/17 18:13 | 1718-51-0 | | |
| 8260 MSV UST | Analytical | Method: EPA 8 | 260 | | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 16:14 | 71-43-2 | | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 16:14 | 100-41-4 | | |
| Toluene | 0.81J | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 16:14 | 108-88-3 | | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 16:14 | 95-63-6 | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 16:14 | 108-67-8 | | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 11/28/17 16:14 | 1330-20-7 | | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 11/28/17 16:14 | 179601-23-1 | | |
| o-Xylene <i>Surrogates</i> | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 11/28/17 16:14 | 95-47-6 | | |
| Dibromofluoromethane (S) | 110 | % | 67-130 | | 1 | | 11/28/17 16:14 | 1868-53-7 | | |
| Toluene-d8 (S) | 94 | % | 70-130 | | 1 | | 11/28/17 16:14 | 2037-26-5 | | |
| 4-Bromofluorobenzene (S) | 87 | % | 61-130 | | 1 | | 11/28/17 16:14 | 460-00-4 | | |
| 300.0 IC Anions 28 Days | Analytical | Method: EPA 3 | 00.0 | | | | | | | |
| Sulfate | 1380 | mg/L | 300 | 100 | 100 | | 12/12/17 18:18 | 14808-79-8 | | |
| 353.2 Nitrogen, NO2/NO3 pres. | Analytical | Method: EPA 3 | 53.2 | | | | | | | |
| Nitrogen, NO2 plus NO3 | 0.18J | mg/L | 0.25 | 0.095 | 1 | | 11/30/17 12:46 | | | |



| Project: | 1584/22.2 G | REEN BAY | FORMER MO | GP | | | | | | | | | |
|--------------------|--------------|-----------|-------------|--------|-------------|-----------|-------------|-------------|------------|-----------|-----|-----|------|
| Pace Project No.: | 40161289 | | | | | | | | | | | | |
| QC Batch: | 276418 | | | Analys | sis Method | d: E | PA 7470 | | | | | | |
| QC Batch Method: | EPA 7470 | | | Analys | sis Descrij | otion: 74 | 470 Mercury | y Dissolved | ł | | | | |
| Associated Lab San | nples: 401 | 61289001, | 40161289002 | | | | | | | | | | |
| METHOD BLANK: | 1625781 | | | ٦ | Matrix: W | ater | | | | | | | |
| Associated Lab San | nples: 401 | 61289001, | 40161289002 | | | | | | | | | | |
| | | | | Blank | < l | Reporting | | | | | | | |
| Paran | neter | | Units | Resu | lt | Limit | Analyz | zed | Qualifiers | | | | |
| Mercury, Dissolved | | | ug/L | | <0.13 | 0.42 | 12/08/17 | 10:27 | | | | | |
| LABORATORY COM | NTROL SAM | PLE: 162 | 5782 | | | | | | | | | | |
| | | | | Spike | LC | S | LCS | % Re | с | | | | |
| Paran | neter | | Units | Conc. | Res | ult | % Rec | Limits | s Q | ualifiers | _ | | |
| Mercury, Dissolved | | | ug/L | 5 | 5 | 5.0 | 100 | 8 | 5-115 | | | | |
| MATRIX SPIKE & M | IATRIX SPIKI | E DUPLICA | TE: 162578 | 33 | | 1625784 | | | | | | | |
| | | | | MS | MSD | | | | | | | | |
| | | 4 | 0161287001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | er | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Mercury, Dissolved | | ug/L | <0.50 | 20 | 20 |) 19.4 | 19.2 | 97 | 96 | 85-115 | 1 | 20 | |

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



Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

| Pace Project No.: 40161289 | | | | | |
|----------------------------------|------------------|-----------------------|-----------|------------------|------------|
| QC Batch: 275901 | | Analysis Meth | nod: EF | PA 6020 | |
| QC Batch Method: EPA 3010 | | Analysis Description: | | 20 MET Dissolved | |
| Associated Lab Samples: 40161289 | 001, 40161289002 | | | | |
| METHOD BLANK: 1622806 | | Matrix: | Water | | |
| Associated Lab Samples: 40161289 | 001, 40161289002 | | | | |
| | | Blank | Reporting | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| Arsenic, Dissolved | ug/L | <0.28 | 1.0 | 12/14/17 02:02 | |
| Barium, Dissolved | ug/L | <0.34 | 1.1 | 12/14/17 02:02 | |
| Cadmium, Dissolved | ug/L | <0.081 | 1.0 | 12/14/17 02:02 | |
| Chromium, Dissolved | ug/L | <1.0 | 3.4 | 12/14/17 02:02 | |
| Iron, Dissolved | ug/L | <111 | 368 | 12/14/17 02:02 | |
| Lead, Dissolved | ug/L | <0.20 | 1.0 | 12/14/17 02:02 | |
| Manganese, Dissolved | ug/L | <2.7 | 9.0 | 12/14/17 02:02 | |
| Selenium, Dissolved | ug/L | <0.32 | 1.1 | 12/14/17 02:02 | |
| Silver, Dissolved | ug/L | <0.10 | 0.50 | 12/14/17 02:02 | |
| | | | | | |

LABORATORY CONTROL SAMPLE: 1622807

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

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622808 1622809 | | | | | | | | | | | | |
|--|-------|------------|-------|-------|--------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 4 | 0161271001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Arsenic, Dissolved | ug/L | 3.1 | 500 | 500 | 506 | 504 | 101 | 100 | 75-125 | 0 | 20 | |
| Barium, Dissolved | ug/L | 59.7 | 500 | 500 | 545 | 540 | 97 | 96 | 75-125 | 1 | 20 | |
| Cadmium, Dissolved | ug/L | 0.18J | 500 | 500 | 491 | 490 | 98 | 98 | 75-125 | 0 | 20 | |
| Chromium, Dissolved | ug/L | <1.0 | 500 | 500 | 476 | 477 | 95 | 95 | 75-125 | 0 | 20 | |
| Iron, Dissolved | ug/L | 182J | 5000 | 5000 | 4880 | 4880 | 94 | 94 | 75-125 | 0 | 20 | |
| Lead, Dissolved | ug/L | 2.1 | 500 | 500 | 491 | 493 | 98 | 98 | 75-125 | 0 | 20 | |
| Manganese, Dissolved | ug/L | 101 | 500 | 500 | 575 | 577 | 95 | 95 | 75-125 | 0 | 20 | |
| Selenium, Dissolved | ug/L | 0.55J | 500 | 500 | 526 | 523 | 105 | 104 | 75-125 | 1 | 20 | |
| Silver, Dissolved | ug/L | <0.10 | 250 | 250 | 238 | 235 | 95 | 94 | 75-125 | 1 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622823 1622824 | | | | | | | | | | | | |
|--|-------|------------|-------|-------|--------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 4 | 0161287001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Arsenic, Dissolved | ug/L | <2.8 | 500 | 500 | 517 | 510 | 103 | 102 | 75-125 | 1 | 20 | |
| Barium, Dissolved | ug/L | 272 | 500 | 500 | 760 | 769 | 98 | 99 | 75-125 | 1 | 20 | |
| Cadmium, Dissolved | ug/L | <0.81 | 500 | 500 | 512 | 514 | 102 | 103 | 75-125 | 0 | 20 | |
| Chromium, Dissolved | ug/L | <10.2 | 500 | 500 | 491 | 498 | 98 | 100 | 75-125 | 2 | 20 | |
| Iron, Dissolved | ug/L | <1110 | 5000 | 5000 | 4910 | 4980 | 98 | 99 | 75-125 | 1 | 20 | |
| Lead, Dissolved | ug/L | <2.0 | 500 | 500 | 490 | 496 | 98 | 99 | 75-125 | 1 | 20 | |
| Manganese, Dissolved | ug/L | 627 | 500 | 500 | 1120 | 1150 | 98 | 104 | 75-125 | 3 | 20 | |
| Selenium, Dissolved | ug/L | <3.2 | 500 | 500 | 531 | 539 | 106 | 108 | 75-125 | 1 | 20 | |
| Silver, Dissolved | ug/L | <1.0 | 250 | 250 | 250 | 251 | 100 | 101 | 75-125 | 1 | 20 | |

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

| QC Batch: | 275200 | | Analysis Met | hod: E | PA 8260 | |
|--------------------|--------------------|-----------------|--------------|--------------|-----------------|------------|
| QC Batch Method | : EPA 8260 | | Analysis Des | cription: 82 | 260 MSV UST-WAT | ER |
| Associated Lab Sa | amples: 4016128900 | 01, 40161289002 | | | | |
| METHOD BLANK | 1619284 | | Matrix: | Water | | |
| Associated Lab Sa | amples: 4016128900 | 1, 40161289002 | | | | |
| | | | Blank | Reporting | | |
| Para | ameter | Units | Result | Limit | Analyzed | Qualifiers |
| 1,2,4-Trimethylber | nzene | ug/L | <0.50 | 1.0 | 11/28/17 07:13 | |
| 1,3,5-Trimethylber | nzene | ug/L | <0.50 | 1.0 | 11/28/17 07:13 | |
| Benzene | | ug/L | <0.50 | 1.0 | 11/28/17 07:13 | |
| Ethylbenzene | | ug/L | <0.50 | 1.0 | 11/28/17 07:13 | |
| m&p-Xylene | | ug/L | <1.0 | 2.0 | 11/28/17 07:13 | |
| o-Xvlene | | ua/l | <0.50 | 10 | 11/28/17 07 13 | |

| Ethylbenzene | ug/L | <0.50 | 1.0 | 11/28/17 07:13 | |
|--------------------------|------|-------|--------|----------------|--|
| m&p-Xylene | ug/L | <1.0 | 2.0 | 11/28/17 07:13 | |
| o-Xylene | ug/L | <0.50 | 1.0 | 11/28/17 07:13 | |
| Toluene | ug/L | <0.50 | 1.0 | 11/28/17 07:13 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 11/28/17 07:13 | |
| 4-Bromofluorobenzene (S) | % | 88 | 61-130 | 11/28/17 07:13 | |
| Dibromofluoromethane (S) | % | 113 | 67-130 | 11/28/17 07:13 | |
| Toluene-d8 (S) | % | 95 | 70-130 | 11/28/17 07:13 | |

LABORATORY CONTROL SAMPLE: 1619285

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

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619286 1619287 | | | | | | | | | | | | |
|--|-------|------------|-------|-------|--------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 4 | 0161286003 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Benzene | ug/L | <0.50 | 50 | 50 | 43.9 | 44.4 | 88 | 89 | 73-145 | 1 | 20 | |
| Ethylbenzene | ug/L | <0.50 | 50 | 50 | 51.2 | 51.7 | 102 | 103 | 87-129 | 1 | 20 | |
| m&p-Xylene | ug/L | <1.0 | 100 | 100 | 105 | 105 | 105 | 105 | 70-130 | 0 | 20 | |
| o-Xylene | ug/L | <0.50 | 50 | 50 | 50.1 | 51.0 | 100 | 102 | 70-130 | 2 | 20 | |
| Toluene | ug/L | <0.50 | 50 | 50 | 50.8 | 51.3 | 101 | 102 | 82-131 | 1 | 20 | |
| Xylene (Total) | ug/L | <1.5 | 150 | 150 | 155 | 156 | 103 | 104 | 70-130 | 1 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 104 | 104 | 61-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 104 | 104 | 67-130 | | | |
| Toluene-d8 (S) | % | | | | | | 97 | 97 | 70-130 | | | |

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

| QC Batch: | 275368 | Analysis Method: | EPA 8270 by HVI |
|--------------------|--------------------------------|-----------------------|-----------------------|
| QC Batch Method: | EPA 3510 | Analysis Description: | 8270 Water PAH by HVI |
| Associated Lab Sam | ples: 40161289001, 40161289002 | | |
| METHOD BLANK: | 1619786 | Matrix: Water | |

METHOD BLANK: 1619786

Associated Lab Samples: 40161289001, 40161289002

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

LABORATORY CONTROL SAMPLE: 1619787

| | E. 1010/0/ | | | | | |
|------------------------|------------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| 1-Methylnaphthalene | ug/L | 2 | 1.4 | 68 | 39-83 | |
| 2-Methylnaphthalene | ug/L | 2 | 1.3 | 67 | 38-86 | |
| Acenaphthene | ug/L | 2 | 1.3 | 64 | 35-85 | |
| Acenaphthylene | ug/L | 2 | 1.3 | 66 | 31-88 | |
| Anthracene | ug/L | 2 | 1.6 | 79 | 47-104 | |
| Benzo(a)anthracene | ug/L | 2 | 1.4 | 70 | 36-105 | |
| Benzo(a)pyrene | ug/L | 2 | 1.5 | 77 | 69-117 | |
| Benzo(b)fluoranthene | ug/L | 2 | 1.4 | 68 | 54-107 | |
| Benzo(g,h,i)perylene | ug/L | 2 | 0.77 | 38 | 13-86 | |
| Benzo(k)fluoranthene | ug/L | 2 | 1.5 | 77 | 63-128 | |
| Chrysene | ug/L | 2 | 1.8 | 90 | 69-150 | |
| Dibenz(a,h)anthracene | ug/L | 2 | 0.68 | 34 | 10-87 | |
| Fluoranthene | ug/L | 2 | 1.7 | 84 | 57-103 | |
| Fluorene | ug/L | 2 | 1.4 | 70 | 38-85 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 2 | 1.4 | 71 | 40-111 | |
| Naphthalene | ua/L | 2 | 1.2 | 59 | 39-82 | |

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Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

| LABORATORY CONTROL SAMPLE: | 1619787 | | | | | |
|--|-----------------------------------|-------------|------------|-------------------------------|--|------------|
| | ę | Spike | LCS | LCS | % Rec | |
| Parameter | Units (| Conc. F | Result | % Rec | Limits | Qualifiers |
| Phenanthrene | ug/L | 2 | 1.4 | 72 | 46-96 | |
| Pyrene | ug/L | 2 | 1.6 | 82 | 57-110 | |
| 2-Fluorobiphenyl (S) | % | | | 61 | 35-84 | |
| Terphenyl-d14 (S) | % | | | 76 | 10-129 | |
| Parameter Phenanthrene Pyrene P-Fluorobiphenyl (S) Ferphenyl-d14 (S) | Units C ug/L ug/L % % | 2 2 2 | 1.4 1.6 | % Rec 72 82 61 76 | Limits 46-96 57-110 35-84 10-129 | Qualifier |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1619789 1619788 MS MSD 40161287001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 2.1 2 1.3 1-Methylnaphthalene ug/L < 0.0062 1.3 62 66 27-86 5 29 2 2-Methylnaphthalene ug/L < 0.0052 2.1 1.2 1.3 58 63 30-86 7 35 Acenaphthene ug/L < 0.0064 2.1 2 1.2 1.2 56 60 28-85 4 29 Acenaphthylene ug/L < 0.0052 2.1 2 1.2 1.2 56 60 27-88 4 29 2 93 95 38-104 35 Anthracene ug/L < 0.011 2.1 1.9 1.9 1 2 Benzo(a)anthracene ug/L < 0.0079 2.1 0.61 0.68 29 34 10-105 28 11 2 < 0.011 2.1 55 56 10-130 0 26 Benzo(a)pyrene ug/L 1.1 1.1 2 < 0.0060 2.1 0.84 0.90 41 44 10-115 6 25 Benzo(b)fluoranthene ug/L 2 23 27 10-87 < 0.0071 0.49 0.55 42 Benzo(g,h,i)perylene ug/L 2.1 12 2 73 65 25 Benzo(k)fluoranthene < 0.0079 2.1 10-133 13 ug/L 1.5 1.3 2 Chrysene ug/L < 0.014 2.1 2.0 2.0 98 97 17-150 3 24 Dibenz(a,h)anthracene ug/L <0.011 2.1 2 0.41 0.46 20 22 10-89 10 49 2 Fluoranthene ug/L <0.011 2.1 1.8 1.9 84 93 41-103 8 32 Fluorene ug/L <0.0084 2.1 2 1.2 1.3 57 61 32-85 5 28 Indeno(1,2,3-cd)pyrene < 0.019 2.1 2 0.89 0.97 43 48 10-111 9 37 ug/L < 0.019 2 59 23-88 28 Naphthalene ug/L 2.1 1.1 1.2 54 6 <0.015 2.1 2 54 33-96 Phenanthrene ug/L 1.1 1.3 62 12 25 Pyrene ug/L <0.0081 2.1 2 1.6 1.7 77 81 38-110 2 28 2-Fluorobiphenyl (S) % 55 58 35-84 Terphenyl-d14 (S) % 63 66 10-129

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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| Project: | 1584/22.2 GREEN | BAY FORMER M | GP | | | | | | | | | |
|--------------------|-------------------|-----------------|--------|-------------|----------|--------------|--------|------------|-----------|-----|-----|------|
| Pace Project No.: | 40161289 | | | | | | | | | | | |
| QC Batch: | 276066 | | Analys | is Method: | E | PA 300.0 | | | | | | |
| QC Batch Method: | EPA 300.0 | | Analys | is Descript | ion: 3 | 00.0 IC Anio | ons | | | | | |
| Associated Lab San | nples: 401612890 | 01, 40161289002 | ! | | | | | | | | | |
| METHOD BLANK: | 1623955 | | Ν | Aatrix: Wa | ter | | | | | | | |
| Associated Lab San | nples: 401612890 | 01, 40161289002 | 2 | | | | | | | | | |
| | | | Blank | K R | eporting | | | | | | | |
| Paran | neter | Units | Resul | t | Limit | Analyz | ed | Qualifiers | _ | | | |
| Sulfate | | mg/L | | <1.0 | 3.0 | 12/07/17 | 20:32 | | | | | |
| LABORATORY CON | ITROL SAMPLE: | 1623956 | | | | | | | | | | |
| | | | Spike | LCS | 5 | LCS | % Rec | ; | | | | |
| Paran | neter | Units | Conc. | Resu | lt | % Rec | Limits | Qu | ualifiers | _ | | |
| Sulfate | | mg/L | 20 | | 20.9 | 105 | 90 |)-110 | | | | |
| MATRIX SPIKE & M | IATRIX SPIKE DUPL | ICATE: 16239 | 57 | | 1623958 | | | | | | | |
| | | | MS | MSD | 1020000 | | | | | | | |
| | | 40161289001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | r Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Sulfate | mg/L | . 29.1 | 100 | 100 | 140 | 141 | 111 | 112 | 90-110 | 0 | 15 | MO |
| MATRIX SPIKE & M | IATRIX SPIKE DUPL | ICATE: 16239 | 59 | | 1623960 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 40161339001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | r Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Sulfate | mg/L | . 36.1 | 100 | 100 | 141 | 140 | 105 | 103 | 90-110 | 1 | 15 | |

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



| Project: | 1584/22. | 2 GREEN BA | Y FORMER MO | GP | | | | | | | | | |
|----------------------|-----------|-------------|---------------|--------|-------------|----------|--------------|--------------|------------|-----------|-----|-----|------|
| Pace Project No.: | 4016128 | 9 | | | | | | | | | | | |
| QC Batch: | 275722 | 2 | | Analys | sis Method | : E | PA 353.2 | | | | | | |
| QC Batch Method: | EPA 35 | 3.2 | | Analys | sis Descrip | tion: 3 | 53.2 Nitrate | + Nitrite, p | reserved | | | | |
| Associated Lab San | nples: 4 | 10161289001 | , 40161289002 | | | | | | | | | | |
| METHOD BLANK: | 1621596 | | | Ν | Matrix: Wa | ter | | | | | | | |
| Associated Lab San | nples: 4 | 40161289001 | , 40161289002 | | | | | | | | | | |
| | | | | Blank | κ R | eporting | | | | | | | |
| Paran | neter | | Units | Resul | t | Limit | Analyz | ed | Qualifiers | | | | |
| Nitrogen, NO2 plus | NO3 | | mg/L | <(| 0.095 | 0.25 | 5 11/30/17 | 12:31 | | | | | |
| LABORATORY COM | NTROL SA | MPLE: 16 | 21597 | | | | | | | | | | |
| | | | | Spike | LCS | 6 | LCS | % Red | ; | | | | |
| Paran | neter | | Units | Conc. | Resu | ılt | % Rec | Limits | Q | ualifiers | | | |
| Nitrogen, NO2 plus | NO3 | | mg/L | 2.5 | | 2.5 | 99 | 90 | -110 | | | | |
| MATRIX SPIKE & M | IATRIX SF | PIKE DUPLIC | ATE: 162159 | 98 | | 1621599 | | | | | | | |
| | | | | MS | MSD | | | | | | | | |
| | | | 40161287001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | er | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Nitrogen, NO2 plus l | NO3 | mg/L | 0.50 | 2.5 | 2.5 | 3.0 | 3.0 | 99 | 99 | 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.



QUALIFIERS

Project: 1584/22.2 GREEN BAY FORMER MGP

Pace Project No.: 40161289

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1584/22.2 GREEN BAY FORMER MGP 289

| Pace Pro | iect No.: | 40161 |
|----------|-----------|-------|
| | , | |

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

| 1 | Pace Analytical Dropp | ed de | f . | A | 11/2 Porce | 2/17 - | CHAI The Chain | N-OF-CI | UST a lega | ODY al doci | / AI | naly T. All re | /tic | al F | Rec Is mus | ues st be c | st C omple |) OC ated ac | ume curately | nt ື | c±: | 15 | Y(,84. |)[[e -1117 | 2128 -001 | le 25 of 27 |
|----------|---|---------------------------------------|------------------------|---------------------|---------------|---|---|--------------|-----------------|---|---------------------|-------------------|---|--------|----------------------|---------------------------------------|------------------------|------------------|-----------------------------------|---------------------------------|-----------|------------|-------------------------|--------------------------|--|--|
| Section | | Section | В | | | | | | Sect | tion C | | | | | | (2 | M | () |) | | | Г | | 1 | | Hag |
| Company | Natural Resource Technology | Required Report To | Project | Infor | mation: | 000 | | | Invoid | ce Inform | ation: | | | | | <u> </u> | | | | | | L | Page: | | of | 5 |
| Address | 234 W/ Elorida St | | Brio | | | Um | | | Atten | | Acco | ounts | Paya | ble | | | | | | | | | | | | |
| | | | | | gs | | | | Comp | pany Nan | ne: V | VECE | Busin | less S | Servi | ces, L | .LC | | REGUL | ATOR | | ICY | | | | |
| 5mail To | | Durahasa | 0 | | | • | | | Addre | ess: | PO E | 30x 19 | 9800 | , Gree | en Ba | ay, W | 1 543 | 07 | | DES | 匠 GR | OUNC |) WATI | | DRINKING | WATER |
| Dhana | | Purchase | Order P | NO.: | | | · | | Pace Refere | Quote ence: | | | | | | | | | <u>r</u> us | т | | RA | | Г | OTHER | |
| Priorie. | 262-719-5286 [rax. | Project Na | ime: | Gre | en Bay Fo | ormer M | GP | | Pace Manag | Project ger: | | | | | | | | | Site Lo | ocation | | | | V///// | 7/////// | |
| Request | ed Due Date/TAT: standard | Project NL | imber: | 158 | 4/22.2 | 0 | | | Pace | Profile #: | | | | | | | | | s | TATE: | | WI | | | | |
| | r | | | | | | | | | | | | | | | Rec | quest | ted A | nalysi | s Filte | red (Y/N | 1) | V | | | |
| | Section D Valid Matrix (Required Client Information MATRIX | Codes CODE | left) | (db) | | COLL | FCTED | | | | Orea | | | | t z . | | | | | | | T | | | | |
| | DRINKING WATER WATER | DW WT | des to | =COI | | | | | | | T | | ves | | × | NN | I N | | YN | N | + + + | ┝━╋╸ | -144 | | <u>/////////////////////////////////////</u> | <u>/////////////////////////////////////</u> |
| ITEM # | Sample ID PRODUCT SOIL/SOLID OIL (A-Z, 0:97,-) OTHER Sample IDs MUST BE UNIQUE TISSUE | P SL OL WP AR OT TS | MATRIX CODE (see valid | SAMPLE TYPE (G=GRAB | DATE | | END/G DATE | | # OF CONTAINERS | Unpreserved H ₂ SO ₄ | HNO3 | NaOH | Na ₂ S ₂ O ₃ Methanot | Other | LAnalysis Test | BTEX (8260) 1 2 4- Trimethylhenzei | 1,3,5- Trimethylbenzei | PAHs (8270) SI M | Metals (6020)* NO2+NO3 (353.2) | Sulfate (300.0) PVOCs (8260) | | | Residual Chlorine (Y/N) | Pace | ⊇ Project N | lo/Lab ID |
| 1 | 112017001 | | c.w | G | | | 11-20-17 | 1.2-11 | 8 | XX | $\langle X \rangle$ | $\langle $ | | | | XX | | | XX | X | | | | $\widehat{(1)}$ | | 10.1 Lub 1.D. |
| 2 | 112017002 | | ++ | <u> </u> | | ¥ | <u> </u> | 258 | 8 | XX | XX | 1 | | | | ХX | X | X | $\langle X \rangle$ | X | | | | Ũ | | |
| 3 | 112017003 | | ++ | _ | | A | <u> </u> | 1344 | 24 | XX | $ X\rangle$ | 4 | | | | XX | X | X | KΧ | X | | | | usim | 5P(1) | |
| 4 | 112017004 | | ++ | ++ | ļ | 44 | <u> </u> | 1438 | 8 | XX | X | | | | | XX | X | X | XX | X | | | | $\overline{\mathbb{O}}$ | | |
| 5 | 12517005 | | ++ | ++ | ├/ | ↓↓ | <u> </u> | 1448 | 8 | XX | ΧŅ | | | | | XХ | X | X) | \times | \times | | | | Δ | | |
| 6 | 112017006 | | ++ | + | | + | ┼──┠─── | 1522 | 18 | XX | ĮΧŅ | \downarrow | | | | ХĮХ | (X | Xľ | XX | XI | | | | \mathbb{Q}_{-} | | |
| <u> </u> | 112017007 | | ++ | ┝┼╴ | | ++- | <u> </u> | 16012 | X | ĮΧΫΧ | <u>XD</u> | 4 | | + | Ē | XX | ĮΧ, | X, | XX | X | | | | () | | |
| | 112012008 | | K | ┼┼╴ | | ++ | +Y- | 1648 | 18 | | RŘ | ┝┝ | | | Ŕ | ×Χ | X | XX | X | X | | | 11 | $\underline{\mathbb{O}}$ | | |
| 10 | 1121170107-160-10-172-40-14BZ | 7/7 10 | AL.W | | -/ | + | ¥ | 1710 | 18 | 1913 | A. | 4 | | + | ŀ | ХX | ΙX. | Χį | \mathcal{X} | XI | ┝╌┝╴╽ | | | <u>}</u> | | · |
| 11 | 11211701 | <u>2301987</u> - | 1 | ++ | / | \vdash | In a le | 0723 | 8 | \mathcal{D} | 15R | ++ | | + | F | S XS | X | ₹. | ЖÀ | <u>}</u> | ╞┈┝ | | - ' | <u> </u> | | 001 |
| 12 | 112117012 | | せ | J | / | ` | | 1574 | 24 | 1XC | Ŕĸ | + | | + | k | 攽 | \bigcirc | \mathbb{X} | \mathcal{M} | X — | ┟─┼─┼ | | - ' | 9 | - 6 | 002 |
| | ADDITIONAL COMMENTS | | REL | INQUI | SHED BY / | AFFILIAT | | DATE | | | | <u> </u> | ACCE | | BY | | | $ \Delta\rangle$ | | | | + | | MS/245 | <u>V(2)</u> | |
| EPA Lev | el 2 | \mathcal{N} | Ten | L / | A. | | | | 116 | <u></u> | 2 | 13. | . (| 1 1 | ~ | n. | | | | AIE | TIME | ╇ | | SAMP | LE CONDITI | ONS |
| *Metals- | As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Fe, Mn | | M | 4 | - Unn | e . | | 11-2217 | 100 | え | 140 | in | U. | | ~) | 10 | (1) | | 1117 | αr | 10852 |) K | -011 | Y | N | <u> </u> |
| **1,2,4- | Frimethylbenzene (8260) | | | | | 60.0000.000.000.000.000.000.000.000.000 | | | | | ļ | | | | | | | | | | | | | | | |
| *135. | imethylbenzene (8260) | | | | | | | ļ | | | L | ······· | | | | | | | | | | | T | | | |
| L | | | | | | e | | | | | | | | | | | | | | | | | | | | |
| | | | | | | SAMPLE | ER NAME A | ND SIGNATU | RE | | | | | | | | | | | | | 1 | 0 | 5 | ç e | act |
| | | | | | | | PRINT Nam | e of SAMPLER | : N | relis | s. M | Larra | _ | | | | | | | | | - | p in • | (V/N) | y Sec | es lut (N) |
| | | | | | | L | SIGNATUR | E of SAMPLER | M | um/ | Mu | sm. | | | | DATE (MM/D | Signe | ed): | 1.22 | 2.1 | 7 | | Ter | Rece | Coole | Sampl S |

40161289

Sampling Parameters Green Bay MGP Quarterly Groundwater Sampling

BTEX (USEPA 8260)

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

PAHs (USEPA 8270 SIM)

• Full List

Metals (USEPA 6020)

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

Other Inorganics

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

Available Cyanides go to Test America

• Method OIA-1677

| | Sample Co | nditio | on Upon Recei | pt Pace | Analytical Services, LLC Green Bay W 1241 Bellevue Street, Suite S |
|---|---------------|----------|----------------------|-------------------------------|---|
| Pace Analytical" | | | | | Green Bay, vvi 5430. |
| Client Name: NRT | | | Project #:" | WO# : 4 | 40161289 |
| | Other | • | | | |
| Tracking #: | ce Other | | <u></u> | 40161280 | |
| Custody Seal on Cooler/Box Present: | 7 no Seals | intact: | _ Fyes Fno | 40101289 | |
| Custody Seal on Samples Present: Г yes 🗸 | no Seals | intact: | F yes − no | | |
| Packing Material: F Bubble Wrap F Bul | oble Bags 「 | None | P Other | | |
| Thermometer Used MA | Type of Ice | Wet | Blue Dry None | 7 Samples o | on ice, cooling process has begun |
| Cooler Temperature Uncorr: KO /Corr: | | Biolog | gical Tissue is Froz | xen: | |
| Temp Blank Present: 🔽 yes 🏹 no | | | | j no | Person examining contents: |
| Temp should be above freezing to 6° C. Biota Samples may be received at < 0° C | | | Comments: | | Initials: PR |
| Chain of Custody Present | | | 1 | | |
| Chain of Custody Filled Out: | | | <u>.</u> | | |
| Chain of Custody Filled Out. | | | 2. | | |
| Chain of Custody Relinquished: | | | 3. | | |
| Sampler Name & Signature on COC: | | LIN/A | 4. | | |
| Samples Arrived within Hold Time: | ØYes □No | □n/a | 5. | | |
| - VOA Samples frozen upon receipt | Yes No | | Date/Time: | | |
| Short Hold Time Analysis (<72hr): | ZiYes 🗆 No | □n/a | 6. | | |
| Rush Turn Around Time Requested: | UYes No | □n/a | 7 | | |
| Sufficient Volume: 11-22-17 | 2 dyes (No) | □n/a | 8. NO MS/1 | MSD Vei | . 11-22-17KP |
| Correct Containers Used: | ØYes □No | □n/a | 9. | | |
| -Pace Containers Used: | ∕ ÍYes □No | □n/a | | | |
| -Pace IR Containers Used: | □Yes □No | | | | |
| Containers Intact: | | | 10 | | |
| Filtered volume received for Dissolved tests | | | 11 | | |
| Sample Lebels metch COC: | | | 11. | | |
| Sample Labels match COC. | | | 12. | | |
| All containers needing preservation have been checked | <u> </u> | | + 11100 | | |
| (Non-Compliance noted in 13.) | ØYes □No | □n/A | 13. FINOS | / H2SO4 | NaUH I NaUH +2NACT |
| All containers needing preservation are found to be in compliance with EPA recommendation. | thy The | | | | |
| (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) | | | | | |
| exceptions: VOA coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: | Øyes 🗆 No | | completed | ab Std #ID of preservative | Time: |
| Headspace in VOA Vials (>6mm) | □Yes ØNo | □n/a | 14 | | |
| Trip Blank Present: | | | 15. | | |
| Trip Blank Custody Seals Present | | | | | |
| Pace Trip Blank Lot # (if purchased): | | - | | | |
| Client Notification/ Resolution: | | | lf c | hecked, see attac | ched form for additional comments |
| Person Contacted: | | Date/ | Гіте: | | |
| Comments/ Resolution: | | | | | |
| | | | | | |
| | | \sim | | | · / / · / |
| | -/ | | | | -HATA |
| F CD C 021 D m 04 (12D - 2010) CCUD | | 2 | | Date | · <u> </u> |
| r-OD-C-051-KeV.04 (12Dec2016) SCUR.xls Pace Analytical Services LLC - Green Bay WL | \bigcirc | | | | 1 |
| and a subsystem bettied in the of the off buy the | | | | | Page 27 of 27 |