

Flambeau Mining Company
4700 Daybreak Parkway
South Jordan, UT 84095
801-204-2526



September 10, 2018

Mr. Dave Siebert
Bureau Director
Wisconsin Department of Natural Resources
101 S. Webster Street – GEF2
P.O. Box 7921
Madison, WI 53707-7921

RE: Flambeau Mining Company
License # 03180
Facility ID 855034730
Environmental Monitoring (Third Quarter 2018)

Dear Dave:

Enclosed please find copies of the third quarter 2018 environmental monitoring groundwater data (annual parameter list) which include analyses of groundwater collected from wells surrounding the backfilled pit and pore water from the monitoring wells constructed in the backfill. Also enclosed is a CD containing the electronic monitoring data. The second quarter groundwater sampling was completed on June 20, 2018.

Duplicate samples were collected for MW-1002 (MW-DUP_201806) and MW-1014C (BACKFILL-DUP_201806).

If you have any questions, please contact me at (801) 204-2526 or Sharon Kozicki, of Foth Infrastructure & Environment, LLC, at (920) 496-6737.

Sincerely

Dave Cline
President – Flambeau Mining Company

Enclosures

Mr. Dave Siebert
Wisconsin DNR
September 10, 2018
Page 2

cc: Sharon Kozicki, Foth Infrastructure & Environment, LLC
Zoe C McManama, WDNR
Kyle McLaughlin, WDNR (w/o enclosures)
Al Christianson, City of Ladysmith (w/o enclosures)
Pete Boss, Rusk Co. (w/o enclosures)
Tom Riegel, Town of Grant (w/o enclosures)
CeCe Tesky, Rusk Co. Zoning (w/o enclosures)

Flambeau Mining Company
Third Quarter 2018
Groundwater Environmental Monitoring Data
June 20, 2018

Reviewer's Key

Groundwater Quality Wells

MW-1010P, MW-1000PR, MW-1000R (West Wall)
MW-1004, MW-1004S, MW-1004P (North Wall)
MW-1002, MW-1002G (South Gravel Pit)
MW-1005, MW-1005S, MW-1005P (Highway 27; Background)
MW-1015A, MW-1015B (Adjacent to NW Compliance
Boundary)

Backfill Wells

MW-1013, MW-1013A, MW-1013B, MW-1013C (West Pit)
MW-1014, MW-1014A, MW-1014B, MW-1014C (East Pit)

Duplicate Groundwater Samples

MW-1014C (Backfill Dup) and MW-1002 (MW Dup) were
sampled in duplicate.

Turbidity, Color, and Odor

If there was any notable turbidity, color or odor, the results are
provided in the Units column.

Wetland Water Level Elevation

WT-5 designates the remaining staff gauge from which readings
are taken of water elevations in Wetland 1. Wetland water
elevations are read three times per year – spring, summer and fall.

Attachment 1

**Third Quarter 2018
Groundwater Analytical Data**



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

July 11, 2018

SHARON KOZICKI
Foth Infrastructure & Environment, LLC
2121 Innovation Court
Suite 300
De Pere, WI 54115

RE: Project: 17F777 FMC
Pace Project No.: 40171262

Dear SHARON KOZICKI:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2018. 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,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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(920)469-2436

CERTIFICATIONS

Project: 17F777 FMC
Pace Project No.: 40171262

Green Bay Certification IDs

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

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

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SAMPLE SUMMARY

Project: 17F777 FMC
Pace Project No.: 40171262

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40171262001	MW-1000PR_201806	Water	06/20/18 08:03	06/21/18 13:55
40171262002	MW-1000R_201806	Water	06/20/18 08:15	06/21/18 13:55
40171262003	MW-1002_201806	Water	06/20/18 11:48	06/21/18 13:55
40171262004	MW-1002G_201806	Water	06/20/18 12:07	06/21/18 13:55
40171262005	MW-1004_201806	Water	06/20/18 11:08	06/21/18 13:55
40171262006	MW-1004P_201806	Water	06/20/18 11:20	06/21/18 13:55
40171262007	MW-1004S_201806	Water	06/20/18 10:38	06/21/18 13:55
40171262008	MW-1005_201806	Water	06/20/18 13:29	06/21/18 13:55
40171262009	MW-1005P_201806	Water	06/20/18 13:41	06/21/18 13:55
40171262010	MW-1005S_201806	Water	06/20/18 13:17	06/21/18 13:55
40171262011	MW-1010P_201806	Water	06/20/18 07:45	06/21/18 13:55
40171262012	MW-1013_201806	Water	06/20/18 09:55	06/21/18 13:55
40171262013	MW-1013A_201806	Water	06/20/18 09:50	06/21/18 13:55
40171262014	MW-1013B_201806	Water	06/20/18 09:40	06/21/18 13:55
40171262015	MW-1013C_201806	Water	06/20/18 10:25	06/21/18 13:55
40171262016	MW-1014_201806	Water	06/20/18 08:33	06/21/18 13:55
40171262017	MW-1014A_201806	Water	06/20/18 08:46	06/21/18 13:55
40171262018	MW-1014B_201806	Water	06/20/18 08:55	06/21/18 13:55
40171262019	MW-1014C_201806	Water	06/20/18 09:25	06/21/18 13:55
40171262020	MW-1015A_201806	Water	06/20/18 12:47	06/21/18 13:55
40171262021	MW-1015B_201806	Water	06/20/18 12:51	06/21/18 13:55
40171262022	MW-DUP_201806	Water	06/20/18 00:00	06/21/18 13:55
40171262023	BACKFILL-DUP_201806	Water	06/20/18 00:00	06/21/18 13:55

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SAMPLE ANALYTE COUNT

Project: 17F777 FMC
 Pace Project No.: 40171262

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40171262001	MW-1000PR_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262002	MW-1000R_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262003	MW-1002_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262004	MW-1002G_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262005	MW-1004_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262006	MW-1004P_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262007	MW-1004S_201806	EPA 6020	KXS	18

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SAMPLE ANALYTE COUNT

Project: 17F777 FMC
 Pace Project No.: 40171262

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40171262008	MW-1005_201806	EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
40171262009	MW-1005P_201806	EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 6020	KXS	18
40171262010	MW-1005S_201806	EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
40171262011	MW-1010P_201806	EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 6020	KXS	18
40171262012	MW-1013_201806	EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
40171262013	MW-1013A_201806	EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 6020	KXS	18
		EPA 120.1	DEY	1
		EPA 310.2	DAW	1

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SAMPLE ANALYTE COUNT

Project: 17F777 FMC
 Pace Project No.: 40171262

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262014	MW-1013B_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262015	MW-1013C_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262016	MW-1014_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262017	MW-1014A_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262018	MW-1014B_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262019	MW-1014C_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1

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SAMPLE ANALYTE COUNT

Project: 17F777 FMC
 Pace Project No.: 40171262

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40171262020	MW-1015A_201806	SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
40171262021	MW-1015B_201806	EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
40171262022	MW-DUP_201806	EPA 310.2	DAW	1
		EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
40171262023	BACKFILL-DUP_201806	EPA 6020	KXS	18
		EPA 120.1	DEY	1
		SM 2540C	TMK	1
		SM 4500-H+B	ALY	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1

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PROJECT NARRATIVE

Project: 17F777 FMC
Pace Project No.: 40171262

Method: EPA 6020
Description: 6020 MET ICPMS, Dissolved
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 11, 2018

General Information:

23 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: 292976

1q: Analyte was measured in the associated method blank at -0.10 ug/L.

- BACKFILL-DUP_201806 (Lab ID: 40171262023)
 - Cadmium, Dissolved
- MW-1015B_201806 (Lab ID: 40171262021)
 - Cadmium, Dissolved
- MW-DUP_201806 (Lab ID: 40171262022)
 - Cadmium, Dissolved

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

PROJECT NARRATIVE

Project: 17F777 FMC
Pace Project No.: 40171262

Method: EPA 120.1
Description: 120.1 Specific Conductance
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 11, 2018

General Information:

23 samples were analyzed for EPA 120.1. 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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 17F777 FMC
Pace Project No.: 40171262

Method: SM 2540C
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 11, 2018

General Information:

23 samples were analyzed for SM 2540C. 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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 17F777 FMC
Pace Project No.: 40171262

Method: SM 4500-H+B
Description: 4500H+ pH, Electrometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 11, 2018

General Information:

23 samples were analyzed for SM 4500-H+B. 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.

H6: Analysis initiated outside of the 15 minute EPA required holding time.

- BACKFILL-DUP_201806 (Lab ID: 40171262023)
- MW-1000PR_201806 (Lab ID: 40171262001)
- MW-1000R_201806 (Lab ID: 40171262002)
- MW-1002G_201806 (Lab ID: 40171262004)
- MW-1002_201806 (Lab ID: 40171262003)
- MW-1004P_201806 (Lab ID: 40171262006)
- MW-1004S_201806 (Lab ID: 40171262007)
- MW-1004_201806 (Lab ID: 40171262005)
- MW-1005P_201806 (Lab ID: 40171262009)
- MW-1005S_201806 (Lab ID: 40171262010)
- MW-1005_201806 (Lab ID: 40171262008)
- MW-1010P_201806 (Lab ID: 40171262011)
- MW-1013A_201806 (Lab ID: 40171262013)
- MW-1013B_201806 (Lab ID: 40171262014)
- MW-1013C_201806 (Lab ID: 40171262015)
- MW-1013_201806 (Lab ID: 40171262012)
- MW-1014A_201806 (Lab ID: 40171262017)
- MW-1014B_201806 (Lab ID: 40171262018)
- MW-1014C_201806 (Lab ID: 40171262019)
- MW-1014_201806 (Lab ID: 40171262016)
- MW-1015A_201806 (Lab ID: 40171262020)
- MW-1015B_201806 (Lab ID: 40171262021)
- MW-DUP_201806 (Lab ID: 40171262022)

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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 17F777 FMC
Pace Project No.: 40171262

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days,Diss
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 11, 2018

General Information:

23 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: 292711

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40170965009,40171262012

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

- MS (Lab ID: 1711800)
 - Sulfate, Dissolved
- MS (Lab ID: 1711802)
 - Sulfate, Dissolved
- MSD (Lab ID: 1711801)
 - Sulfate, Dissolved
- MSD (Lab ID: 1711803)
 - Sulfate, Dissolved

QC Batch: 292805

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40171262013,40171320004

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

- MS (Lab ID: 1712071)
 - Chloride, Dissolved
- MSD (Lab ID: 1712072)
 - Chloride, Dissolved
- MSD (Lab ID: 1712074)
 - Sulfate, Dissolved

Additional Comments:

Analyte Comments:

QC Batch: 292711

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

- MW-1005S_201806 (Lab ID: 40171262010)
 - Chloride, Dissolved

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

PROJECT NARRATIVE

Project: 17F777 FMC
Pace Project No.: 40171262

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days, Diss
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 11, 2018

Analyte Comments:

QC Batch: 292711

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

- MW-1005S_201806 (Lab ID: 40171262010)
 - Sulfate, Dissolved
- MW-1013_201806 (Lab ID: 40171262012)
 - Chloride, Dissolved

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PROJECT NARRATIVE

Project: 17F777 FMC
Pace Project No.: 40171262

Method: EPA 310.2
Description: 310.2 Alkalinity, Dissolved
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 11, 2018

General Information:

23 samples were analyzed for EPA 310.2. 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.

QC Batch: 292953

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40171262010,40171262020

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

- MSD (Lab ID: 1712981)
- Alkalinity, Total as CaCO₃, Dissolved

QC Batch: 292954

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40171320005,40171320009

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

- MS (Lab ID: 1712988)
- Alkalinity, Total as CaCO₃, Dissolved

Additional Comments:

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

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1000PR_201806 Lab ID: 40171262001 Collected: 06/20/18 08:03 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	170J	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 18:42	7429-90-5	
Arsenic, Dissolved	20.3	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 18:42	7440-38-2	
Barium, Dissolved	94.5	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 18:42	7440-39-3	
Cadmium, Dissolved	0.71J	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 18:42	7440-43-9	
Calcium, Dissolved	107000	ug/L	2500	698	10	06/25/18 08:07	07/06/18 15:18	7440-70-2	
Chromium, Dissolved	5.7	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 18:42	7440-47-3	
Copper, Dissolved	34.8	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 18:42	7440-50-8	
Iron, Dissolved	3070	ug/L	368	111	1	06/25/18 08:07	07/03/18 18:42	7439-89-6	
Lead, Dissolved	0.89J	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 18:42	7439-92-1	
Magnesium, Dissolved	28200	ug/L	2500	297	10	06/25/18 08:07	07/06/18 15:18	7439-95-4	
Manganese, Dissolved	1870	ug/L	90.0	27.0	10	06/25/18 08:07	07/06/18 15:18	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/03/18 18:42	7439-97-6	
Potassium, Dissolved	3050	ug/L	789	237	1	06/25/18 08:07	07/03/18 18:42	7440-09-7	
Selenium, Dissolved	1.5	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 18:42	7782-49-2	
Silver, Dissolved	0.59	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 18:42	7440-22-4	
Sodium, Dissolved	7290	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 18:42	7440-23-5	
Total Hardness by 2340B, Dissolved	384	mg/L	50.0	1.5	10	06/25/18 08:07	07/06/18 15:18		
Zinc, Dissolved	416	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 18:42	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	766	umhos/cm	6.0	1.8	1		06/22/18 11:12		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	512	mg/L	20.0	8.7	1		06/22/18 18:00		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.7	Std. Units	0.10	0.010	1		06/22/18 08:43		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	14.2	mg/L	2.0	0.50	1		06/26/18 18:21	16887-00-6	
Sulfate, Dissolved	207	mg/L	30.0	10.0	10		06/27/18 12:14	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	217	mg/L	23.5	7.0	1		06/27/18 10:43		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1000R_201806 **Lab ID:** 40171262002 **Collected:** 06/20/18 08:15 **Received:** 06/21/18 13:55 **Matrix:** Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 19:23	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 19:23	7440-38-2	
Barium, Dissolved	25.0	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 19:23	7440-39-3	
Cadmium, Dissolved	0.17J	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 19:23	7440-43-9	
Calcium, Dissolved	19800	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 19:23	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 19:23	7440-47-3	
Copper, Dissolved	11.9	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 19:23	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 19:23	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 19:23	7439-92-1	
Magnesium, Dissolved	5250	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 19:23	7439-95-4	
Manganese, Dissolved	70.0	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 19:23	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 15:45	7439-97-6	
Potassium, Dissolved	536J	ug/L	789	237	1	06/25/18 08:07	07/03/18 19:23	7440-09-7	
Selenium, Dissolved	0.37J	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 19:23	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 19:23	7440-22-4	
Sodium, Dissolved	4460	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 19:23	7440-23-5	
Total Hardness by 2340B, Dissolved	71.0	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 19:23		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 19:23	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	219	umhos/cm	6.0	1.8	1		06/22/18 11:12		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	144	mg/L	20.0	8.7	1		06/22/18 18:00		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.2	Std. Units	0.10	0.010	1		06/22/18 08:45		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	7.7	mg/L	2.0	0.50	1		06/26/18 18:34	16887-00-6	
Sulfate, Dissolved	36.6	mg/L	3.0	1.0	1		06/26/18 18:34	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	72.0	mg/L	23.5	7.0	1		06/27/18 10:44		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1002_201806 Lab ID: 40171262003 Collected: 06/20/18 11:48 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 19:37	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 19:37	7440-38-2	
Barium, Dissolved	6.5	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 19:37	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 19:37	7440-43-9	
Calcium, Dissolved	14900	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 19:37	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 19:37	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 19:37	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 19:37	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 19:37	7439-92-1	
Magnesium, Dissolved	5010	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 19:37	7439-95-4	
Manganese, Dissolved	<2.7	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 19:37	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 15:59	7439-97-6	
Potassium, Dissolved	607J	ug/L	789	237	1	06/25/18 08:07	07/03/18 19:37	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 19:37	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 19:37	7440-22-4	
Sodium, Dissolved	3030	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 19:37	7440-23-5	
Total Hardness by 2340B, Dissolved	58.0	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 19:37		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 19:37	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	130	umhos/cm	6.0	1.8	1		06/22/18 11:15		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	88.0	mg/L	20.0	8.7	1		06/22/18 18:01		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.7	Std. Units	0.10	0.010	1		06/22/18 08:46		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	7.4	mg/L	2.0	0.50	1		06/26/18 18:47	16887-00-6	
Sulfate, Dissolved	2.1J	mg/L	3.0	1.0	1		06/26/18 18:47	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	60.1	mg/L	23.5	7.0	1		06/27/18 10:44		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1002G_201806 Lab ID: 40171262004 Collected: 06/20/18 12:07 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 19:44	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 19:44	7440-38-2	
Barium, Dissolved	37.8	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 19:44	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 19:44	7440-43-9	
Calcium, Dissolved	36700	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 19:44	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 19:44	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 19:44	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 19:44	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 19:44	7439-92-1	
Magnesium, Dissolved	14200	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 19:44	7439-95-4	
Manganese, Dissolved	<2.7	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 19:44	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 16:06	7439-97-6	
Potassium, Dissolved	864	ug/L	789	237	1	06/25/18 08:07	07/03/18 19:44	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 19:44	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 19:44	7440-22-4	
Sodium, Dissolved	6090	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 19:44	7440-23-5	
Total Hardness by 2340B, Dissolved	150	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 19:44		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 19:44	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	316	umhos/cm	6.0	1.8	1		06/22/18 11:15		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	204	mg/L	20.0	8.7	1		06/22/18 18:01		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.8	Std. Units	0.10	0.010	1		06/22/18 08:48		H6
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	29.7	mg/L	2.0	0.50	1		06/26/18 19:01	16887-00-6	
Sulfate, Dissolved	10.2	mg/L	3.0	1.0	1		06/26/18 19:01	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	107	mg/L	23.5	7.0	1		06/27/18 10:45		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1004_201806 Lab ID: 40171262005 Collected: 06/20/18 11:08 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 19:50	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 19:50	7440-38-2	
Barium, Dissolved	3.4	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 19:50	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 19:50	7440-43-9	
Calcium, Dissolved	11600	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 19:50	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 19:50	7440-47-3	
Copper, Dissolved	3.2J	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 19:50	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 19:50	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 19:50	7439-92-1	
Magnesium, Dissolved	3620	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 19:50	7439-95-4	
Manganese, Dissolved	<2.7	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 19:50	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 16:13	7439-97-6	
Potassium, Dissolved	670J	ug/L	789	237	1	06/25/18 08:07	07/03/18 19:50	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 19:50	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 19:50	7440-22-4	
Sodium, Dissolved	2420	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 19:50	7440-23-5	
Total Hardness by 2340B, Dissolved	43.9	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 19:50		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 19:50	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	108	umhos/cm	6.0	1.8	1		06/22/18 11:16		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	72.0	mg/L	20.0	8.7	1		06/22/18 18:01		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.4	Std. Units	0.10	0.010	1		06/22/18 08:49		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	1.2J	mg/L	2.0	0.50	1		06/26/18 19:14	16887-00-6	
Sulfate, Dissolved	14.3	mg/L	3.0	1.0	1		06/26/18 19:14	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	37.4	mg/L	23.5	7.0	1		06/27/18 10:47		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1004P_201806 Lab ID: 40171262006 Collected: 06/20/18 11:20 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 19:57	7429-90-5	
Arsenic, Dissolved	0.32J	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 19:57	7440-38-2	
Barium, Dissolved	44.8	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 19:57	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 19:57	7440-43-9	
Calcium, Dissolved	36000	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 19:57	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 19:57	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 19:57	7440-50-8	
Iron, Dissolved	273J	ug/L	368	111	1	06/25/18 08:07	07/03/18 19:57	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 19:57	7439-92-1	
Magnesium, Dissolved	14500	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 19:57	7439-95-4	
Manganese, Dissolved	118	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 19:57	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 16:19	7439-97-6	
Potassium, Dissolved	5600	ug/L	789	237	1	06/25/18 08:07	07/03/18 19:57	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 19:57	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 19:57	7440-22-4	
Sodium, Dissolved	6170	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 19:57	7440-23-5	
Total Hardness by 2340B, Dissolved	149	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 19:57		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 19:57	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	302	umhos/cm	6.0	1.8	1		06/22/18 11:17		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	156	mg/L	20.0	8.7	1		06/22/18 18:01		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.5	Std. Units	0.10	0.010	1		06/22/18 08:52		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	1.1J	mg/L	2.0	0.50	1		06/26/18 20:08	16887-00-6	
Sulfate, Dissolved	2.5J	mg/L	3.0	1.0	1		06/26/18 20:08	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	160	mg/L	23.5	7.0	1		06/27/18 10:48		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1004S_201806 Lab ID: 40171262007 Collected: 06/20/18 10:38 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 20:04	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 20:04	7440-38-2	
Barium, Dissolved	3.7	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 20:04	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 20:04	7440-43-9	
Calcium, Dissolved	16300	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 20:04	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 20:04	7440-47-3	
Copper, Dissolved	1.8J	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 20:04	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 20:04	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 20:04	7439-92-1	
Magnesium, Dissolved	5330	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 20:04	7439-95-4	
Manganese, Dissolved	<2.7	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 20:04	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 16:40	7439-97-6	
Potassium, Dissolved	765J	ug/L	789	237	1	06/25/18 08:07	07/03/18 20:04	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 20:04	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 20:04	7440-22-4	
Sodium, Dissolved	3140	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 20:04	7440-23-5	
Total Hardness by 2340B, Dissolved	62.6	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 20:04		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 20:04	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	149	umhos/cm	6.0	1.8	1		06/22/18 11:17		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	102	mg/L	20.0	8.7	1		06/22/18 18:01		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.5	Std. Units	0.10	0.010	1		06/22/18 08:53		H6
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	1.5J	mg/L	2.0	0.50	1		06/26/18 20:21	16887-00-6	
Sulfate, Dissolved	26.2	mg/L	3.0	1.0	1		06/26/18 20:21	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	46.4	mg/L	23.5	7.0	1		06/27/18 10:49		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1005_201806 Lab ID: 40171262008 Collected: 06/20/18 13:29 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 20:11	7429-90-5	
Arsenic, Dissolved	1.3	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 20:11	7440-38-2	
Barium, Dissolved	364	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 20:11	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 20:11	7440-43-9	
Calcium, Dissolved	142000	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 20:11	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 20:11	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 20:11	7440-50-8	
Iron, Dissolved	20000	ug/L	368	111	1	06/25/18 08:07	07/03/18 20:11	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 20:11	7439-92-1	
Magnesium, Dissolved	64600	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 20:11	7439-95-4	
Manganese, Dissolved	572	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 20:11	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 16:47	7439-97-6	
Potassium, Dissolved	1170	ug/L	789	237	1	06/25/18 08:07	07/03/18 20:11	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 20:11	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 20:11	7440-22-4	
Sodium, Dissolved	77600	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 20:11	7440-23-5	
Total Hardness by 2340B, Dissolved	619	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 20:11		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 20:11	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	1890	umhos/cm	6.0	1.8	1		06/22/18 11:18		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	1120	mg/L	20.0	8.7	1		06/25/18 15:00		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.1	Std. Units	0.10	0.010	1		06/22/18 08:56		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	594	mg/L	100	25.0	50		06/28/18 10:30	16887-00-6	
Sulfate, Dissolved	18.0	mg/L	3.0	1.0	1		06/26/18 20:34	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	86.6	mg/L	23.5	7.0	1		06/27/18 10:49		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1005P_201806 Lab ID: 40171262009 Collected: 06/20/18 13:41 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 20:18	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 20:18	7440-38-2	
Barium, Dissolved	73.8	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 20:18	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 20:18	7440-43-9	
Calcium, Dissolved	54300	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 20:18	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 20:18	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 20:18	7440-50-8	
Iron, Dissolved	1250	ug/L	368	111	1	06/25/18 08:07	07/03/18 20:18	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 20:18	7439-92-1	
Magnesium, Dissolved	21900	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 20:18	7439-95-4	
Manganese, Dissolved	74.7	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 20:18	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 16:53	7439-97-6	
Potassium, Dissolved	8630	ug/L	789	237	1	06/25/18 08:07	07/03/18 20:18	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 20:18	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 20:18	7440-22-4	
Sodium, Dissolved	9090	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 20:18	7440-23-5	
Total Hardness by 2340B, Dissolved	226	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 20:18		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 20:18	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	465	umhos/cm	6.0	1.8	1		06/22/18 11:19		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	252	mg/L	20.0	8.7	1		06/25/18 15:00		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.010	1		06/22/18 09:03		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	6.5	mg/L	2.0	0.50	1		06/26/18 20:48	16887-00-6	
Sulfate, Dissolved	<1.0	mg/L	3.0	1.0	1		06/26/18 20:48	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	245	mg/L	23.5	7.0	1		06/27/18 10:50		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1005S_201806 Lab ID: 40171262010 Collected: 06/20/18 13:17 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 20:24	7429-90-5	
Arsenic, Dissolved	2.2	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 20:24	7440-38-2	
Barium, Dissolved	40.0	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 20:24	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 20:24	7440-43-9	
Calcium, Dissolved	35700	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 20:24	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 20:24	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 20:24	7440-50-8	
Iron, Dissolved	3880	ug/L	368	111	1	06/25/18 08:07	07/03/18 20:24	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 20:24	7439-92-1	
Magnesium, Dissolved	12600	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 20:24	7439-95-4	
Manganese, Dissolved	199	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 20:24	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 17:00	7439-97-6	
Potassium, Dissolved	2520	ug/L	789	237	1	06/25/18 08:07	07/03/18 20:24	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 20:24	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 20:24	7440-22-4	
Sodium, Dissolved	5600	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 20:24	7440-23-5	
Total Hardness by 2340B, Dissolved	141	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 20:24		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 20:24	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	291	umhos/cm	6.0	1.8	1		06/22/18 11:20		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	194	mg/L	20.0	8.7	1		06/25/18 15:01		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.010	1		06/26/18 10:52		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	3.1J	mg/L	10.0	2.5	5		06/26/18 21:01	16887-00-6	D3
Sulfate, Dissolved	<5.0	mg/L	15.0	5.0	5		06/26/18 21:01	14808-79-8	D3
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	151	mg/L	23.5	7.0	1		06/27/18 11:56		M0

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1010P_201806 Lab ID: 40171262011 Collected: 06/20/18 07:45 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 20:45	7429-90-5	
Arsenic, Dissolved	25.4	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 20:45	7440-38-2	
Barium, Dissolved	45.9	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 20:45	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 20:45	7440-43-9	
Calcium, Dissolved	49400	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 20:45	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 20:45	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 20:45	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 20:45	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 20:45	7439-92-1	
Magnesium, Dissolved	13400	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 20:45	7439-95-4	
Manganese, Dissolved	58.2	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 20:45	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 17:07	7439-97-6	
Potassium, Dissolved	2600	ug/L	789	237	1	06/25/18 08:07	07/03/18 20:45	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 20:45	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 20:45	7440-22-4	
Sodium, Dissolved	4240	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 20:45	7440-23-5	
Total Hardness by 2340B, Dissolved	179	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 20:45		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 20:45	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	364	umhos/cm	6.0	1.8	1		06/22/18 11:22		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	224	mg/L	20.0	8.7	1		06/25/18 15:01		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.7	Std. Units	0.10	0.010	1		06/26/18 10:55		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	5.1	mg/L	2.0	0.50	1		06/26/18 21:14	16887-00-6	
Sulfate, Dissolved	31.2	mg/L	3.0	1.0	1		06/26/18 21:14	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	160	mg/L	23.5	7.0	1		06/27/18 10:52		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1013_201806 Lab ID: 40171262012 Collected: 06/20/18 09:55 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 20:52	7429-90-5	
Arsenic, Dissolved	0.81J	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 20:52	7440-38-2	
Barium, Dissolved	158	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 20:52	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 20:52	7440-43-9	
Calcium, Dissolved	150000	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 20:52	7440-70-2	
Chromium, Dissolved	3.5	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 20:52	7440-47-3	
Copper, Dissolved	16.3	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 20:52	7440-50-8	
Iron, Dissolved	13800	ug/L	368	111	1	06/25/18 08:07	07/03/18 20:52	7439-89-6	
Lead, Dissolved	0.40J	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 20:52	7439-92-1	
Magnesium, Dissolved	48300	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 20:52	7439-95-4	
Manganese, Dissolved	26400	ug/L	90.0	27.0	10	06/25/18 08:07	07/06/18 17:14	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 18:42	7439-97-6	
Potassium, Dissolved	2570	ug/L	789	237	1	06/25/18 08:07	07/03/18 20:52	7440-09-7	
Selenium, Dissolved	0.85J	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 20:52	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 20:52	7440-22-4	
Sodium, Dissolved	12800	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 20:52	7440-23-5	
Total Hardness by 2340B, Dissolved	574	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 20:52		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 20:52	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	1090	umhos/cm	6.0	1.8	1		06/22/18 11:23		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	694	mg/L	20.0	8.7	1		06/25/18 15:01		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.4	Std. Units	0.10	0.010	1		06/26/18 10:56		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	8.8J	mg/L	10.0	2.5	5		06/26/18 21:28	16887-00-6	D3
Sulfate, Dissolved	16.6	mg/L	15.0	5.0	5		06/26/18 21:28	14808-79-8	M0
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	563	mg/L	117	35.2	5		06/27/18 12:09		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1013A_201806 Lab ID: 40171262013 Collected: 06/20/18 09:50 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 20:58	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 20:58	7440-38-2	
Barium, Dissolved	84.0	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 20:58	7440-39-3	
Cadmium, Dissolved	0.12J	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 20:58	7440-43-9	
Calcium, Dissolved	115000	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 20:58	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 20:58	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 20:58	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 20:58	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 20:58	7439-92-1	
Magnesium, Dissolved	39800	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 20:58	7439-95-4	
Manganese, Dissolved	3480	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 20:58	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 17:21	7439-97-6	
Potassium, Dissolved	7040	ug/L	789	237	1	06/25/18 08:07	07/03/18 20:58	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 20:58	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 20:58	7440-22-4	
Sodium, Dissolved	30600	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 20:58	7440-23-5	
Total Hardness by 2340B, Dissolved	450	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 20:58		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 20:58	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	892	umhos/cm	6.0	1.8	1		06/22/18 11:24		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	590	mg/L	20.0	8.7	1		06/25/18 15:01		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.0	Std. Units	0.10	0.010	1		06/26/18 10:57		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	7.5	mg/L	2.0	0.50	1		06/27/18 18:30	16887-00-6	M0
Sulfate, Dissolved	149	mg/L	30.0	10.0	10		06/28/18 11:23	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	340	mg/L	23.5	7.0	1		06/27/18 10:55		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1013B_201806 Lab ID: 40171262014 Collected: 06/20/18 09:40 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 21:05	7429-90-5	
Arsenic, Dissolved	0.66J	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 21:05	7440-38-2	
Barium, Dissolved	16.6	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 21:05	7440-39-3	
Cadmium, Dissolved	0.74J	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 21:05	7440-43-9	
Calcium, Dissolved	572000	ug/L	2500	698	10	06/25/18 08:07	07/06/18 17:28	7440-70-2	
Chromium, Dissolved	2.1J	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 21:05	7440-47-3	
Copper, Dissolved	437	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 21:05	7440-50-8	
Iron, Dissolved	210J	ug/L	368	111	1	06/25/18 08:07	07/03/18 21:05	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 21:05	7439-92-1	
Magnesium, Dissolved	136000	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 21:05	7439-95-4	
Manganese, Dissolved	24800	ug/L	90.0	27.0	10	06/25/18 08:07	07/06/18 17:28	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 18:49	7439-97-6	
Potassium, Dissolved	5040	ug/L	789	237	1	06/25/18 08:07	07/03/18 21:05	7440-09-7	
Selenium, Dissolved	0.57J	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 21:05	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 21:05	7440-22-4	
Sodium, Dissolved	23800	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 21:05	7440-23-5	
Total Hardness by 2340B, Dissolved	1990	mg/L	50.0	1.5	10	06/25/18 08:07	07/06/18 17:28		
Zinc, Dissolved	120	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 21:05	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	3130	umhos/cm	6.0	1.8	1		06/22/18 11:25		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	3080	mg/L	20.0	8.7	1		06/25/18 15:01		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.8	Std. Units	0.10	0.010	1		06/26/18 11:00		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	39.3	mg/L	2.0	0.50	1		06/27/18 19:10	16887-00-6	
Sulfate, Dissolved	1730	mg/L	300	100	100		06/28/18 12:03	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	589	mg/L	117	35.2	5		06/27/18 12:10		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1013C_201806 Lab ID: 40171262015 Collected: 06/20/18 10:25 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 21:12	7429-90-5	
Arsenic, Dissolved	19.2	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 21:12	7440-38-2	
Barium, Dissolved	17.9	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 21:12	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 21:12	7440-43-9	
Calcium, Dissolved	530000	ug/L	2500	698	10	06/25/18 08:07	07/06/18 17:34	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 21:12	7440-47-3	
Copper, Dissolved	29.6	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 21:12	7440-50-8	
Iron, Dissolved	12800	ug/L	368	111	1	06/25/18 08:07	07/03/18 21:12	7439-89-6	
Lead, Dissolved	0.73J	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 21:12	7439-92-1	
Magnesium, Dissolved	125000	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 21:12	7439-95-4	
Manganese, Dissolved	9790	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 21:12	7439-96-5	
Mercury, Dissolved	0.16J	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 18:56	7439-97-6	
Potassium, Dissolved	21200	ug/L	789	237	1	06/25/18 08:07	07/03/18 21:12	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 21:12	7782-49-2	
Silver, Dissolved	0.10J	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 21:12	7440-22-4	
Sodium, Dissolved	25900	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 21:12	7440-23-5	
Total Hardness by 2340B, Dissolved	1840	mg/L	50.0	1.5	10	06/25/18 08:07	07/06/18 17:34		
Zinc, Dissolved	380	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 21:12	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	3060	umhos/cm	6.0	1.8	1		06/22/18 11:25		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	2850	mg/L	20.0	8.7	1		06/25/18 15:02		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.1	Std. Units	0.10	0.010	1		06/26/18 11:04		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	50.4	mg/L	10.0	2.5	5		06/27/18 19:23	16887-00-6	
Sulfate, Dissolved	1880	mg/L	300	100	100		06/28/18 12:57	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	516	mg/L	117	35.2	5		06/27/18 12:11		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1014_201806 Lab ID: 40171262016 Collected: 06/20/18 08:33 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 21:19	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 21:19	7440-38-2	
Barium, Dissolved	42.3	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 21:19	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 21:19	7440-43-9	
Calcium, Dissolved	81900	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 21:19	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 21:19	7440-47-3	
Copper, Dissolved	3.8	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 21:19	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 21:19	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 21:19	7439-92-1	
Magnesium, Dissolved	26500	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 21:19	7439-95-4	
Manganese, Dissolved	809	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 21:19	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 17:41	7439-97-6	
Potassium, Dissolved	3300	ug/L	789	237	1	06/25/18 08:07	07/03/18 21:19	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 21:19	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 21:19	7440-22-4	
Sodium, Dissolved	18500	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 21:19	7440-23-5	
Total Hardness by 2340B, Dissolved	314	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 21:19		
Zinc, Dissolved	6.0J	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 21:19	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	700	umhos/cm	6.0	1.8	1		06/22/18 11:26		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	490	mg/L	20.0	8.7	1		06/25/18 15:02		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.8	Std. Units	0.10	0.010	1		06/26/18 11:05		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	52.0	mg/L	2.0	0.50	1		06/27/18 19:36	16887-00-6	
Sulfate, Dissolved	134	mg/L	30.0	10.0	10		06/28/18 13:10	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	170	mg/L	23.5	7.0	1		06/27/18 10:57		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1014A_201806 Lab ID: 40171262017 Collected: 06/20/18 08:46 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 21:26	7429-90-5	
Arsenic, Dissolved	0.59J	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 21:26	7440-38-2	
Barium, Dissolved	14.2	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 21:26	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 21:26	7440-43-9	
Calcium, Dissolved	330000	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 21:26	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 21:26	7440-47-3	
Copper, Dissolved	2.6J	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 21:26	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 21:26	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 21:26	7439-92-1	
Magnesium, Dissolved	113000	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 21:26	7439-95-4	
Manganese, Dissolved	96.7	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 21:26	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 18:02	7439-97-6	
Potassium, Dissolved	9450	ug/L	789	237	1	06/25/18 08:07	07/03/18 21:26	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 21:26	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 21:26	7440-22-4	
Sodium, Dissolved	40000	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 21:26	7440-23-5	
Total Hardness by 2340B, Dissolved	1290	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 21:26		
Zinc, Dissolved	7.2J	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 21:26	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	2130	umhos/cm	6.0	1.8	1		06/22/18 13:54		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	1820	mg/L	20.0	8.7	1		06/25/18 15:02		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.0	Std. Units	0.10	0.010	1		06/26/18 11:06		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	12.8	mg/L	2.0	0.50	1		06/27/18 19:50	16887-00-6	
Sulfate, Dissolved	925	mg/L	150	50.0	50		06/28/18 13:23	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	483	mg/L	117	35.2	5		06/27/18 12:12		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1014B_201806 Lab ID: 40171262018 Collected: 06/20/18 08:55 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 21:32	7429-90-5	
Arsenic, Dissolved	0.99J	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 21:32	7440-38-2	
Barium, Dissolved	21.6	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 21:32	7440-39-3	
Cadmium, Dissolved	1.9	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 21:32	7440-43-9	
Calcium, Dissolved	51200	ug/L	5000	1400	20	06/25/18 08:07	07/10/18 12:08	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 21:32	7440-47-3	
Copper, Dissolved	392	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 21:32	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 21:32	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 21:32	7439-92-1	
Magnesium, Dissolved	109000	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 21:32	7439-95-4	
Manganese, Dissolved	10100	ug/L	180	54.0	20	06/25/18 08:07	07/10/18 12:08	7439-96-5	
Mercury, Dissolved	0.14J	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 19:03	7439-97-6	
Potassium, Dissolved	14400	ug/L	789	237	1	06/25/18 08:07	07/03/18 21:32	7440-09-7	
Selenium, Dissolved	1.6	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 21:32	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 21:32	7440-22-4	
Sodium, Dissolved	18200	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 21:32	7440-23-5	
Total Hardness by 2340B, Dissolved	1730	mg/L	100	3.0	20	06/25/18 08:07	07/10/18 12:08		
Zinc, Dissolved	1000	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 21:32	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	2710	umhos/cm	6.0	1.8	1		06/22/18 13:56		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	2500	mg/L	20.0	8.7	1		06/25/18 15:02		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.7	Std. Units	0.10	0.010	1		06/26/18 11:07		H6
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	46.9	mg/L	2.0	0.50	1		06/27/18 20:03	16887-00-6	
Sulfate, Dissolved	1490	mg/L	300	100	100		06/28/18 13:37	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	517	mg/L	117	35.2	5		06/27/18 12:13		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1014C_201806 Lab ID: 40171262019 Collected: 06/20/18 09:25 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 21:39	7429-90-5	
Arsenic, Dissolved	25.4	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 21:39	7440-38-2	
Barium, Dissolved	32.5	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 21:39	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 21:39	7440-43-9	
Calcium, Dissolved	155000	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 21:39	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 21:39	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 21:39	7440-50-8	
Iron, Dissolved	4850	ug/L	368	111	1	06/25/18 08:07	07/03/18 21:39	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 21:39	7439-92-1	
Magnesium, Dissolved	35500	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 21:39	7439-95-4	
Manganese, Dissolved	1650	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 21:39	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 18:15	7439-97-6	
Potassium, Dissolved	4360	ug/L	789	237	1	06/25/18 08:07	07/03/18 21:39	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 21:39	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 21:39	7440-22-4	
Sodium, Dissolved	9980	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 21:39	7440-23-5	
Total Hardness by 2340B, Dissolved	534	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 21:39		
Zinc, Dissolved	272	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 21:39	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	996	umhos/cm	6.0	1.8	1		06/22/18 13:57		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	672	mg/L	20.0	8.7	1		06/25/18 15:02		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.0	Std. Units	0.10	0.010	1		06/26/18 11:12		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	50.6	mg/L	10.0	2.5	5		06/27/18 20:57	16887-00-6	
Sulfate, Dissolved	252	mg/L	15.0	5.0	5		06/27/18 20:57	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	272	mg/L	23.5	7.0	1		06/27/18 10:59		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1015A_201806 Lab ID: 40171262020 Collected: 06/20/18 12:47 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/25/18 08:07	07/03/18 21:46	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/25/18 08:07	07/03/18 21:46	7440-38-2	
Barium, Dissolved	8.0	ug/L	1.1	0.34	1	06/25/18 08:07	07/03/18 21:46	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/25/18 08:07	07/03/18 21:46	7440-43-9	
Calcium, Dissolved	21300	ug/L	250	69.8	1	06/25/18 08:07	07/03/18 21:46	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/25/18 08:07	07/03/18 21:46	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/25/18 08:07	07/03/18 21:46	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/25/18 08:07	07/03/18 21:46	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/25/18 08:07	07/03/18 21:46	7439-92-1	
Magnesium, Dissolved	8810	ug/L	250	29.7	1	06/25/18 08:07	07/03/18 21:46	7439-95-4	
Manganese, Dissolved	13.3	ug/L	9.0	2.7	1	06/25/18 08:07	07/03/18 21:46	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/25/18 08:07	07/06/18 18:22	7439-97-6	
Potassium, Dissolved	710J	ug/L	789	237	1	06/25/18 08:07	07/03/18 21:46	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/25/18 08:07	07/03/18 21:46	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/25/18 08:07	07/03/18 21:46	7440-22-4	
Sodium, Dissolved	3260	ug/L	250	42.0	1	06/25/18 08:07	07/03/18 21:46	7440-23-5	
Total Hardness by 2340B, Dissolved	89.5	mg/L	5.0	0.15	1	06/25/18 08:07	07/03/18 21:46		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/25/18 08:07	07/03/18 21:46	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	193	umhos/cm	6.0	1.8	1		06/22/18 13:58		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	128	mg/L	20.0	8.7	1		06/25/18 15:03		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.3	Std. Units	0.10	0.010	1		06/26/18 11:14		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	7.0	mg/L	2.0	0.50	1		06/27/18 21:10	16887-00-6	
Sulfate, Dissolved	8.1	mg/L	3.0	1.0	1		06/27/18 21:10	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	83.5	mg/L	23.5	7.0	1		06/27/18 11:58		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-1015B_201806 Lab ID: 40171262021 Collected: 06/20/18 12:51 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/27/18 08:07	07/06/18 19:44	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/27/18 08:07	07/06/18 19:44	7440-38-2	
Barium, Dissolved	46.4	ug/L	1.1	0.34	1	06/27/18 08:07	07/06/18 19:44	7440-39-3	
Cadmium, Dissolved	0.089J	ug/L	1.0	0.081	1	06/27/18 08:07	07/06/18 19:44	7440-43-9	1q
Calcium, Dissolved	34300	ug/L	250	69.8	1	06/27/18 08:07	07/06/18 19:44	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/27/18 08:07	07/06/18 19:44	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/27/18 08:07	07/06/18 19:44	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/27/18 08:07	07/06/18 19:44	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/27/18 08:07	07/06/18 19:44	7439-92-1	
Magnesium, Dissolved	14900	ug/L	250	29.7	1	06/27/18 08:07	07/06/18 19:44	7439-95-4	
Manganese, Dissolved	37.9	ug/L	9.0	2.7	1	06/27/18 08:07	07/06/18 19:44	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/27/18 08:07	07/06/18 19:44	7439-97-6	
Potassium, Dissolved	6230	ug/L	789	237	1	06/27/18 08:07	07/06/18 19:44	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/27/18 08:07	07/06/18 19:44	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/27/18 08:07	07/06/18 19:44	7440-22-4	
Sodium, Dissolved	62800	ug/L	250	42.0	1	06/27/18 08:07	07/06/18 19:44	7440-23-5	
Total Hardness by 2340B, Dissolved	147	mg/L	5.0	0.15	1	06/27/18 08:07	07/06/18 19:44		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/27/18 08:07	07/06/18 19:44	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	587	umhos/cm	6.0	1.8	1		06/22/18 13:59		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	304	mg/L	20.0	8.7	1		06/25/18 15:03		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.9	Std. Units	0.10	0.010	1		06/26/18 11:15		H6
300.0 IC Anions 28 Days, Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	89.5	mg/L	10.0	2.5	5		06/28/18 13:50	16887-00-6	
Sulfate, Dissolved	<1.0	mg/L	3.0	1.0	1		06/27/18 21:23	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	173	mg/L	23.5	7.0	1		06/27/18 11:04		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: MW-DUP_201806 Lab ID: 40171262022 Collected: 06/20/18 00:00 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/27/18 08:07	07/06/18 19:50	7429-90-5	
Arsenic, Dissolved	<0.28	ug/L	1.0	0.28	1	06/27/18 08:07	07/06/18 19:50	7440-38-2	
Barium, Dissolved	7.1	ug/L	1.1	0.34	1	06/27/18 08:07	07/06/18 19:50	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/27/18 08:07	07/06/18 19:50	7440-43-9	1q
Calcium, Dissolved	14500	ug/L	250	69.8	1	06/27/18 08:07	07/06/18 19:50	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/27/18 08:07	07/06/18 19:50	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/27/18 08:07	07/06/18 19:50	7440-50-8	
Iron, Dissolved	<111	ug/L	368	111	1	06/27/18 08:07	07/06/18 19:50	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/27/18 08:07	07/06/18 19:50	7439-92-1	
Magnesium, Dissolved	5070	ug/L	250	29.7	1	06/27/18 08:07	07/06/18 19:50	7439-95-4	
Manganese, Dissolved	<2.7	ug/L	9.0	2.7	1	06/27/18 08:07	07/06/18 19:50	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/27/18 08:07	07/06/18 19:50	7439-97-6	
Potassium, Dissolved	552J	ug/L	789	237	1	06/27/18 08:07	07/06/18 19:50	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/27/18 08:07	07/06/18 19:50	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/27/18 08:07	07/06/18 19:50	7440-22-4	
Sodium, Dissolved	3430	ug/L	250	42.0	1	06/27/18 08:07	07/06/18 19:50	7440-23-5	
Total Hardness by 2340B, Dissolved	57.0	mg/L	5.0	0.15	1	06/27/18 08:07	07/06/18 19:50		
Zinc, Dissolved	<4.6	ug/L	15.3	4.6	1	06/27/18 08:07	07/06/18 19:50	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	129	umhos/cm	6.0	1.8	1		06/22/18 14:00		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	94.0	mg/L	20.0	8.7	1		06/25/18 15:03		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.0	Std. Units	0.10	0.010	1		06/26/18 11:17		H6
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	7.5	mg/L	2.0	0.50	1		06/27/18 21:37	16887-00-6	
Sulfate, Dissolved	2.2J	mg/L	3.0	1.0	1		06/27/18 21:37	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	50.9	mg/L	23.5	7.0	1		06/27/18 11:05		

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ANALYTICAL RESULTS

Project: 17F777 FMC
 Pace Project No.: 40171262

Sample: BACKFILL-DUP_201806 Lab ID: 40171262023 Collected: 06/20/18 00:00 Received: 06/21/18 13:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Aluminum, Dissolved	<58.7	ug/L	250	58.7	1	06/27/18 08:07	07/06/18 19:57	7429-90-5	
Arsenic, Dissolved	25.0	ug/L	1.0	0.28	1	06/27/18 08:07	07/06/18 19:57	7440-38-2	
Barium, Dissolved	32.3	ug/L	1.1	0.34	1	06/27/18 08:07	07/06/18 19:57	7440-39-3	
Cadmium, Dissolved	<0.081	ug/L	1.0	0.081	1	06/27/18 08:07	07/06/18 19:57	7440-43-9	1q
Calcium, Dissolved	140000	ug/L	250	69.8	1	06/27/18 08:07	07/06/18 19:57	7440-70-2	
Chromium, Dissolved	<1.0	ug/L	3.4	1.0	1	06/27/18 08:07	07/06/18 19:57	7440-47-3	
Copper, Dissolved	<1.1	ug/L	3.6	1.1	1	06/27/18 08:07	07/06/18 19:57	7440-50-8	
Iron, Dissolved	4530	ug/L	368	111	1	06/27/18 08:07	07/06/18 19:57	7439-89-6	
Lead, Dissolved	<0.20	ug/L	1.0	0.20	1	06/27/18 08:07	07/06/18 19:57	7439-92-1	
Magnesium, Dissolved	32800	ug/L	250	29.7	1	06/27/18 08:07	07/06/18 19:57	7439-95-4	
Manganese, Dissolved	1460	ug/L	9.0	2.7	1	06/27/18 08:07	07/06/18 19:57	7439-96-5	
Mercury, Dissolved	<0.12	ug/L	0.40	0.12	1	06/27/18 08:07	07/06/18 19:57	7439-97-6	
Potassium, Dissolved	4000	ug/L	789	237	1	06/27/18 08:07	07/06/18 19:57	7440-09-7	
Selenium, Dissolved	<0.32	ug/L	1.1	0.32	1	06/27/18 08:07	07/06/18 19:57	7782-49-2	
Silver, Dissolved	<0.10	ug/L	0.50	0.10	1	06/27/18 08:07	07/06/18 19:57	7440-22-4	
Sodium, Dissolved	10300	ug/L	250	42.0	1	06/27/18 08:07	07/06/18 19:57	7440-23-5	
Total Hardness by 2340B, Dissolved	485	mg/L	5.0	0.15	1	06/27/18 08:07	07/06/18 19:57		
Zinc, Dissolved	252	ug/L	15.3	4.6	1	06/27/18 08:07	07/06/18 19:57	7440-66-6	
120.1 Specific Conductance		Analytical Method: EPA 120.1							
Specific Conductance @ 25C	993	umhos/cm	6.0	1.8	1		06/22/18 14:01		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	690	mg/L	20.0	8.7	1		06/25/18 15:03		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.1	Std. Units	0.10	0.010	1		06/26/18 11:20		H6
300.0 IC Anions 28 Days,Diss		Analytical Method: EPA 300.0							
Chloride, Dissolved	51.0	mg/L	10.0	2.5	5		06/27/18 21:50	16887-00-6	
Sulfate, Dissolved	253	mg/L	15.0	5.0	5		06/27/18 21:50	14808-79-8	
310.2 Alkalinity, Dissolved		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	265	mg/L	23.5	7.0	1		06/27/18 11:05		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292699 Analysis Method: EPA 6020
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007,
 40171262008, 40171262009, 40171262010, 40171262011, 40171262012, 40171262013, 40171262014,
 40171262015, 40171262016, 40171262017, 40171262018, 40171262019, 40171262020

METHOD BLANK: 1711765 Matrix: Water
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007,
 40171262008, 40171262009, 40171262010, 40171262011, 40171262012, 40171262013, 40171262014,
 40171262015, 40171262016, 40171262017, 40171262018, 40171262019, 40171262020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<58.7	250	07/03/18 18:02	
Arsenic, Dissolved	ug/L	<0.28	1.0	07/03/18 18:02	
Barium, Dissolved	ug/L	<0.34	1.1	07/03/18 18:02	
Cadmium, Dissolved	ug/L	<0.081	1.0	07/03/18 18:02	
Calcium, Dissolved	ug/L	<69.8	250	07/03/18 18:02	
Chromium, Dissolved	ug/L	<1.0	3.4	07/03/18 18:02	
Copper, Dissolved	ug/L	<1.1	3.6	07/03/18 18:02	
Iron, Dissolved	ug/L	<111	368	07/03/18 18:02	
Lead, Dissolved	ug/L	<0.20	1.0	07/03/18 18:02	
Magnesium, Dissolved	ug/L	<29.7	250	07/03/18 18:02	
Manganese, Dissolved	ug/L	<2.7	9.0	07/03/18 18:02	
Mercury, Dissolved	ug/L	<0.12	0.40	07/03/18 18:02	
Potassium, Dissolved	ug/L	<237	789	07/03/18 18:02	
Selenium, Dissolved	ug/L	<0.32	1.1	07/03/18 18:02	
Silver, Dissolved	ug/L	<0.10	0.50	07/03/18 18:02	
Sodium, Dissolved	ug/L	<42.0	250	07/03/18 18:02	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	07/03/18 18:02	
Zinc, Dissolved	ug/L	<4.6	15.3	07/03/18 18:02	

LABORATORY CONTROL SAMPLE: 1711766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4950	99	80-120	
Arsenic, Dissolved	ug/L	500	502	100	80-120	
Barium, Dissolved	ug/L	500	498	100	80-120	
Cadmium, Dissolved	ug/L	500	523	105	80-120	
Calcium, Dissolved	ug/L	5000	5000	100	80-120	
Chromium, Dissolved	ug/L	500	496	99	80-120	
Copper, Dissolved	ug/L	500	501	100	80-120	
Iron, Dissolved	ug/L	5000	4990	100	80-120	
Lead, Dissolved	ug/L	500	505	101	80-120	
Magnesium, Dissolved	ug/L	5000	4920	98	80-120	
Manganese, Dissolved	ug/L	500	486	97	80-120	
Mercury, Dissolved	ug/L	5	5.9	118	80-120	
Potassium, Dissolved	ug/L	5000	4870	97	80-120	
Selenium, Dissolved	ug/L	500	528	106	80-120	

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

LABORATORY CONTROL SAMPLE: 1711766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silver, Dissolved	ug/L	250	257	103	80-120	
Sodium, Dissolved	ug/L	5000	4940	99	80-120	
Total Hardness by 2340B, Dissolved	mg/L		32.8			
Zinc, Dissolved	ug/L	500	513	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1711767 1711768

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40171262001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum, Dissolved	ug/L	170J	5000	5000	5080	4890	98	94	75-125	4	20	
Arsenic, Dissolved	ug/L	20.3	500	500	522	520	100	100	75-125	0	20	
Barium, Dissolved	ug/L	94.5	500	500	590	587	99	98	75-125	1	20	
Cadmium, Dissolved	ug/L	0.71J	500	500	503	505	101	101	75-125	0	20	
Calcium, Dissolved	ug/L	107000	5000	5000	112000	113000	90	112	75-125	1	20	
Chromium, Dissolved	ug/L	5.7	500	500	492	490	97	97	75-125	0	20	
Copper, Dissolved	ug/L	34.8	500	500	517	514	96	96	75-125	0	20	
Iron, Dissolved	ug/L	3070	5000	5000	7910	7930	97	97	75-125	0	20	
Lead, Dissolved	ug/L	0.89J	500	500	505	499	101	100	75-125	1	20	
Magnesium, Dissolved	ug/L	28200	5000	5000	33300	33600	102	109	75-125	1	20	
Manganese, Dissolved	ug/L	1870	500	500	2290	2340	84	94	75-125	2	20	
Mercury, Dissolved	ug/L	<0.12	5	5	5.9	6.0	117	118	75-125	1	20	
Potassium, Dissolved	ug/L	3050	5000	5000	7510	7760	89	94	75-125	3	20	
Selenium, Dissolved	ug/L	1.5	500	500	520	514	104	102	75-125	1	20	
Silver, Dissolved	ug/L	0.59	250	250	237	243	95	97	75-125	2	20	
Sodium, Dissolved	ug/L	7290	5000	5000	12000	12000	93	94	75-125	0	20	
Total Hardness by 2340B, Dissolved	mg/L	384			416	420				1	20	
Zinc, Dissolved	ug/L	416	500	500	912	910	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292976 Analysis Method: EPA 6020
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved
 Associated Lab Samples: 40171262021, 40171262022, 40171262023

METHOD BLANK: 1713062 Matrix: Water
 Associated Lab Samples: 40171262021, 40171262022, 40171262023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	<58.7	250	07/06/18 11:52	
Arsenic, Dissolved	ug/L	<0.28	1.0	07/06/18 11:52	
Barium, Dissolved	ug/L	<0.34	1.1	07/06/18 11:52	
Cadmium, Dissolved	ug/L	<0.081	1.0	07/06/18 11:52	
Calcium, Dissolved	ug/L	<69.8	250	07/06/18 11:52	
Chromium, Dissolved	ug/L	<1.0	3.4	07/06/18 11:52	
Copper, Dissolved	ug/L	<1.1	3.6	07/06/18 11:52	
Iron, Dissolved	ug/L	<111	368	07/06/18 11:52	
Lead, Dissolved	ug/L	<0.20	1.0	07/06/18 11:52	
Magnesium, Dissolved	ug/L	<29.7	250	07/06/18 11:52	
Manganese, Dissolved	ug/L	<2.7	9.0	07/06/18 11:52	
Mercury, Dissolved	ug/L	<0.12	0.40	07/06/18 11:52	
Potassium, Dissolved	ug/L	<237	789	07/06/18 11:52	
Selenium, Dissolved	ug/L	<0.32	1.1	07/06/18 11:52	
Silver, Dissolved	ug/L	<0.10	0.50	07/06/18 11:52	
Sodium, Dissolved	ug/L	<42.0	250	07/06/18 11:52	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	07/06/18 11:52	
Zinc, Dissolved	ug/L	<4.6	15.3	07/06/18 11:52	

LABORATORY CONTROL SAMPLE: 1713063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	4910	98	80-120	
Arsenic, Dissolved	ug/L	500	506	101	80-120	
Barium, Dissolved	ug/L	500	507	101	80-120	
Cadmium, Dissolved	ug/L	500	520	104	80-120	
Calcium, Dissolved	ug/L	5000	5200	104	80-120	
Chromium, Dissolved	ug/L	500	480	96	80-120	
Copper, Dissolved	ug/L	500	493	99	80-120	
Iron, Dissolved	ug/L	5000	4950	99	80-120	
Lead, Dissolved	ug/L	500	478	96	80-120	
Magnesium, Dissolved	ug/L	5000	4820	96	80-120	
Manganese, Dissolved	ug/L	500	479	96	80-120	
Mercury, Dissolved	ug/L	5	5.3	107	80-120	
Potassium, Dissolved	ug/L	5000	4910	98	80-120	
Selenium, Dissolved	ug/L	500	537	107	80-120	
Silver, Dissolved	ug/L	250	258	103	80-120	
Sodium, Dissolved	ug/L	5000	4810	96	80-120	

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

LABORATORY CONTROL SAMPLE: 1713063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness by 2340B, Dissolved	mg/L		32.8			
Zinc, Dissolved	ug/L	500	506	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1713064 1713065

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40171209001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
Aluminum, Dissolved	ug/L	<58.7	5000	5000	4890	4930	98	99	75-125	1	20
Arsenic, Dissolved	ug/L	0.58J	500	500	510	516	102	103	75-125	1	20
Barium, Dissolved	ug/L	39.5	500	500	548	555	102	103	75-125	1	20
Cadmium, Dissolved	ug/L	<0.081	500	500	515	525	103	105	75-125	2	20
Calcium, Dissolved	ug/L	48200	5000	5000	50800	54800	52	131	75-125	8	20 P6
Chromium, Dissolved	ug/L	<1.0	500	500	490	494	98	99	75-125	1	20
Copper, Dissolved	ug/L	<1.1	500	500	488	495	97	99	75-125	1	20
Iron, Dissolved	ug/L	<111	5000	5000	5070	5090	101	102	75-125	0	20
Lead, Dissolved	ug/L	<0.20	500	500	480	487	96	97	75-125	2	20
Magnesium, Dissolved	ug/L	13100	5000	5000	17400	17900	86	97	75-125	3	20
Manganese, Dissolved	ug/L	<2.7	500	500	495	497	99	99	75-125	0	20
Mercury, Dissolved	ug/L	<0.12	5	5	5.2	5.4	104	108	75-125	4	20
Potassium, Dissolved	ug/L	740J	5000	5000	5700	5790	99	101	75-125	2	20
Selenium, Dissolved	ug/L	0.32J	500	500	537	541	107	108	75-125	1	20
Silver, Dissolved	ug/L	<0.10	250	250	251	255	100	102	75-125	2	20
Sodium, Dissolved	ug/L	5850	5000	5000	10400	10700	92	97	75-125	2	20
Total Hardness by 2340B, Dissolved	mg/L	174			198	210				6	20
Zinc, Dissolved	ug/L	<4.6	500	500	511	518	102	103	75-125	1	20

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292608 Analysis Method: EPA 120.1
 QC Batch Method: EPA 120.1 Analysis Description: 120.1 Specific Conductance
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007, 40171262008, 40171262009, 40171262010, 40171262011, 40171262012, 40171262013, 40171262014, 40171262015, 40171262016

METHOD BLANK: 1710574 Matrix: Water
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007, 40171262008, 40171262009, 40171262010, 40171262011, 40171262012, 40171262013, 40171262014, 40171262015, 40171262016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance @ 25C	umhos/cm	<1.8	6.0	06/22/18 10:48	

LABORATORY CONTROL SAMPLE: 1710575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance @ 25C	umhos/cm	628	623	99	80-120	

SAMPLE DUPLICATE: 1710576

Parameter	Units	40171131001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance @ 25C	umhos/cm	2210	2230	1	20	

SAMPLE DUPLICATE: 1710577

Parameter	Units	40171262007 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance @ 25C	umhos/cm	149	150	1	20	

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292644 Analysis Method: EPA 120.1
 QC Batch Method: EPA 120.1 Analysis Description: 120.1 Specific Conductance
 Associated Lab Samples: 40171262017, 40171262018, 40171262019, 40171262020, 40171262021, 40171262022, 40171262023

METHOD BLANK: 1710842 Matrix: Water
 Associated Lab Samples: 40171262017, 40171262018, 40171262019, 40171262020, 40171262021, 40171262022, 40171262023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance @ 25C	umhos/cm	<1.8	6.0	06/22/18 13:51	

LABORATORY CONTROL SAMPLE: 1710843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance @ 25C	umhos/cm	628	614	98	80-120	

SAMPLE DUPLICATE: 1710844

Parameter	Units	40171262017 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance @ 25C	umhos/cm	2130	2150	1	20	

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292666 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007

METHOD BLANK: 1711188 Matrix: Water
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	06/22/18 17:59	

LABORATORY CONTROL SAMPLE: 1711189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	615	494	80	80-120	

SAMPLE DUPLICATE: 1711190

Parameter	Units	40171262001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	512	526	3	5	

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292790 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 40171262008, 40171262009, 40171262010, 40171262011, 40171262012, 40171262013, 40171262014,
 40171262015, 40171262016, 40171262017, 40171262018, 40171262019, 40171262020, 40171262021,
 40171262022, 40171262023

METHOD BLANK: 1712024 Matrix: Water
 Associated Lab Samples: 40171262008, 40171262009, 40171262010, 40171262011, 40171262012, 40171262013, 40171262014,
 40171262015, 40171262016, 40171262017, 40171262018, 40171262019, 40171262020, 40171262021,
 40171262022, 40171262023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	06/25/18 15:00	

LABORATORY CONTROL SAMPLE: 1712025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	615	562	91	80-120	

SAMPLE DUPLICATE: 1712026

Parameter	Units	40171262008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1120	1100	2	5	

SAMPLE DUPLICATE: 1712027

Parameter	Units	40171262009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	252	250	1	5	

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292580 Analysis Method: SM 4500-H+B
 QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007,
 40171262008, 40171262009

SAMPLE DUPLICATE: 1710493

Parameter	Units	40171109001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.9	1	5	H6

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 (920)469-2436

QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292845	Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B	Analysis Description: 4500H+B pH
Associated Lab Samples: 40171262010, 40171262011, 40171262012, 40171262013, 40171262014, 40171262015, 40171262016, 40171262017, 40171262018, 40171262019, 40171262020, 40171262021, 40171262022, 40171262023	

SAMPLE DUPLICATE: 1712208

Parameter	Units	40171262010 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	5	H6

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292711 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions, Dissolved
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007, 40171262008, 40171262009, 40171262010, 40171262011, 40171262012

METHOD BLANK: 1711798 Matrix: Water
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007, 40171262008, 40171262009, 40171262010, 40171262011, 40171262012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	06/26/18 13:08	
Sulfate	mg/L	<1.0	3.0	06/26/18 13:08	

LABORATORY CONTROL SAMPLE: 1711799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.0	100	90-110	
Sulfate	mg/L	20	19.8	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1711800 1711801

Parameter	Units	40170965009 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	28.8	20	20	50.6	50.7	109	109	90-110	0	15	
Sulfate	mg/L	10.3	20	20	33.2	33.3	115	115	90-110	0	15	MO

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1711802 1711803

Parameter	Units	40171262012 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	8.8J	100	100	117	118	108	109	90-110	1	15	
Sulfate	mg/L	16.6	100	100	129	130	113	113	90-110	1	15	MO

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch:	292805	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions, Dissolved
Associated Lab Samples:	40171262013, 40171262014, 40171262015, 40171262016, 40171262017, 40171262018, 40171262019, 40171262020, 40171262021, 40171262022, 40171262023		

METHOD BLANK: 1712069 Matrix: Water
 Associated Lab Samples: 40171262013, 40171262014, 40171262015, 40171262016, 40171262017, 40171262018, 40171262019, 40171262020, 40171262021, 40171262022, 40171262023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.50	2.0	06/27/18 18:03	
Sulfate	mg/L	<1.0	3.0	06/27/18 18:03	

LABORATORY CONTROL SAMPLE: 1712070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.5	108	90-110	
Sulfate	mg/L	20	21.6	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712071 1712072

Parameter	Units	40171262013 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Chloride	mg/L	7.5	20	29.9	29.9	112	112	90-110	0	15	M0	
Sulfate	mg/L	149	200	367	340	109	96	90-110	7	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712073 1712074

Parameter	Units	40171320004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Chloride	mg/L	55.3	400	492	491	109	109	90-110	0	15		
Sulfate	mg/L	987	2000	3150	3270	108	114	90-110	4	15	M0	

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292953 Analysis Method: EPA 310.2
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007, 40171262008, 40171262009, 40171262010, 40171262011, 40171262012, 40171262013, 40171262014, 40171262015, 40171262016, 40171262017, 40171262018, 40171262019, 40171262020

METHOD BLANK: 1712978 Matrix: Water
 Associated Lab Samples: 40171262001, 40171262002, 40171262003, 40171262004, 40171262005, 40171262006, 40171262007, 40171262008, 40171262009, 40171262010, 40171262011, 40171262012, 40171262013, 40171262014, 40171262015, 40171262016, 40171262017, 40171262018, 40171262019, 40171262020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	06/27/18 10:42	

LABORATORY CONTROL SAMPLE: 1712979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	98.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712980 1712981

Parameter	Units	40171262010 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	151	100	100	244	239	93	88	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712982 1712983

Parameter	Units	40171262020 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	83.5	100	100	179	177	95	94	90-110	1	20	

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QUALITY CONTROL DATA

Project: 17F777 FMC
 Pace Project No.: 40171262

QC Batch: 292954 Analysis Method: EPA 310.2
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved
 Associated Lab Samples: 40171262021, 40171262022, 40171262023

METHOD BLANK: 1712984 Matrix: Water
 Associated Lab Samples: 40171262021, 40171262022, 40171262023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	<7.0	23.5	06/27/18 11:03	

LABORATORY CONTROL SAMPLE: 1712985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	100	98.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712986 1712987

Parameter	Units	40171320005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
			Spike Conc.	Conc.	Result	Result				RPD	RPD	
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	1140	500	500	1630	1610	98	94	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712988 1712989

Parameter	Units	40171320009 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
			Spike Conc.	Conc.	Result	Result				RPD	RPD	
Alkalinity, Total as CaCO ₃ , Dissolved	mg/L	596	500	500	1040	1060	88	93	90-110	2	20 M0	

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QUALIFIERS

Project: 17F777 FMC
Pace Project No.: 40171262

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

1q Analyte was measured in the associated method blank at -0.10 ug/L.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H6 Analysis initiated outside of the 15 minute EPA required holding time.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 17F777 FMC
 Pace Project No.: 40171262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40171262001	MW-1000PR_201806	EPA 3010	292699	EPA 6020	292786
40171262002	MW-1000R_201806	EPA 3010	292699	EPA 6020	292786
40171262003	MW-1002_201806	EPA 3010	292699	EPA 6020	292786
40171262004	MW-1002G_201806	EPA 3010	292699	EPA 6020	292786
40171262005	MW-1004_201806	EPA 3010	292699	EPA 6020	292786
40171262006	MW-1004P_201806	EPA 3010	292699	EPA 6020	292786
40171262007	MW-1004S_201806	EPA 3010	292699	EPA 6020	292786
40171262008	MW-1005_201806	EPA 3010	292699	EPA 6020	292786
40171262009	MW-1005P_201806	EPA 3010	292699	EPA 6020	292786
40171262010	MW-1005S_201806	EPA 3010	292699	EPA 6020	292786
40171262011	MW-1010P_201806	EPA 3010	292699	EPA 6020	292786
40171262012	MW-1013_201806	EPA 3010	292699	EPA 6020	292786
40171262013	MW-1013A_201806	EPA 3010	292699	EPA 6020	292786
40171262014	MW-1013B_201806	EPA 3010	292699	EPA 6020	292786
40171262015	MW-1013C_201806	EPA 3010	292699	EPA 6020	292786
40171262016	MW-1014_201806	EPA 3010	292699	EPA 6020	292786
40171262017	MW-1014A_201806	EPA 3010	292699	EPA 6020	292786
40171262018	MW-1014B_201806	EPA 3010	292699	EPA 6020	292786
40171262019	MW-1014C_201806	EPA 3010	292699	EPA 6020	292786
40171262020	MW-1015A_201806	EPA 3010	292699	EPA 6020	292786
40171262021	MW-1015B_201806	EPA 3010	292976	EPA 6020	293062
40171262022	MW-DUP_201806	EPA 3010	292976	EPA 6020	293062
40171262023	BACKFILL-DUP_201806	EPA 3010	292976	EPA 6020	293062
40171262001	MW-1000PR_201806	EPA 120.1	292608		
40171262002	MW-1000R_201806	EPA 120.1	292608		
40171262003	MW-1002_201806	EPA 120.1	292608		
40171262004	MW-1002G_201806	EPA 120.1	292608		
40171262005	MW-1004_201806	EPA 120.1	292608		
40171262006	MW-1004P_201806	EPA 120.1	292608		
40171262007	MW-1004S_201806	EPA 120.1	292608		
40171262008	MW-1005_201806	EPA 120.1	292608		
40171262009	MW-1005P_201806	EPA 120.1	292608		
40171262010	MW-1005S_201806	EPA 120.1	292608		
40171262011	MW-1010P_201806	EPA 120.1	292608		
40171262012	MW-1013_201806	EPA 120.1	292608		
40171262013	MW-1013A_201806	EPA 120.1	292608		
40171262014	MW-1013B_201806	EPA 120.1	292608		
40171262015	MW-1013C_201806	EPA 120.1	292608		
40171262016	MW-1014_201806	EPA 120.1	292608		
40171262017	MW-1014A_201806	EPA 120.1	292644		
40171262018	MW-1014B_201806	EPA 120.1	292644		
40171262019	MW-1014C_201806	EPA 120.1	292644		
40171262020	MW-1015A_201806	EPA 120.1	292644		
40171262021	MW-1015B_201806	EPA 120.1	292644		
40171262022	MW-DUP_201806	EPA 120.1	292644		
40171262023	BACKFILL-DUP_201806	EPA 120.1	292644		
40171262001	MW-1000PR_201806	SM 2540C	292666		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 17F777 FMC
 Pace Project No.: 40171262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40171262002	MW-1000R_201806	SM 2540C	292666		
40171262003	MW-1002_201806	SM 2540C	292666		
40171262004	MW-1002G_201806	SM 2540C	292666		
40171262005	MW-1004_201806	SM 2540C	292666		
40171262006	MW-1004P_201806	SM 2540C	292666		
40171262007	MW-1004S_201806	SM 2540C	292666		
40171262008	MW-1005_201806	SM 2540C	292790		
40171262009	MW-1005P_201806	SM 2540C	292790		
40171262010	MW-1005S_201806	SM 2540C	292790		
40171262011	MW-1010P_201806	SM 2540C	292790		
40171262012	MW-1013_201806	SM 2540C	292790		
40171262013	MW-1013A_201806	SM 2540C	292790		
40171262014	MW-1013B_201806	SM 2540C	292790		
40171262015	MW-1013C_201806	SM 2540C	292790		
40171262016	MW-1014_201806	SM 2540C	292790		
40171262017	MW-1014A_201806	SM 2540C	292790		
40171262018	MW-1014B_201806	SM 2540C	292790		
40171262019	MW-1014C_201806	SM 2540C	292790		
40171262020	MW-1015A_201806	SM 2540C	292790		
40171262021	MW-1015B_201806	SM 2540C	292790		
40171262022	MW-DUP_201806	SM 2540C	292790		
40171262023	BACKFILL-DUP_201806	SM 2540C	292790		
40171262001	MW-1000PR_201806	SM 4500-H+B	292580		
40171262002	MW-1000R_201806	SM 4500-H+B	292580		
40171262003	MW-1002_201806	SM 4500-H+B	292580		
40171262004	MW-1002G_201806	SM 4500-H+B	292580		
40171262005	MW-1004_201806	SM 4500-H+B	292580		
40171262006	MW-1004P_201806	SM 4500-H+B	292580		
40171262007	MW-1004S_201806	SM 4500-H+B	292580		
40171262008	MW-1005_201806	SM 4500-H+B	292580		
40171262009	MW-1005P_201806	SM 4500-H+B	292580		
40171262010	MW-1005S_201806	SM 4500-H+B	292845		
40171262011	MW-1010P_201806	SM 4500-H+B	292845		
40171262012	MW-1013_201806	SM 4500-H+B	292845		
40171262013	MW-1013A_201806	SM 4500-H+B	292845		
40171262014	MW-1013B_201806	SM 4500-H+B	292845		
40171262015	MW-1013C_201806	SM 4500-H+B	292845		
40171262016	MW-1014_201806	SM 4500-H+B	292845		
40171262017	MW-1014A_201806	SM 4500-H+B	292845		
40171262018	MW-1014B_201806	SM 4500-H+B	292845		
40171262019	MW-1014C_201806	SM 4500-H+B	292845		
40171262020	MW-1015A_201806	SM 4500-H+B	292845		
40171262021	MW-1015B_201806	SM 4500-H+B	292845		
40171262022	MW-DUP_201806	SM 4500-H+B	292845		
40171262023	BACKFILL-DUP_201806	SM 4500-H+B	292845		
40171262001	MW-1000PR_201806	EPA 300.0	292711		
40171262002	MW-1000R_201806	EPA 300.0	292711		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 17F777 FMC
 Pace Project No.: 40171262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40171262003	MW-1002_201806	EPA 300.0	292711		
40171262004	MW-1002G_201806	EPA 300.0	292711		
40171262005	MW-1004_201806	EPA 300.0	292711		
40171262006	MW-1004P_201806	EPA 300.0	292711		
40171262007	MW-1004S_201806	EPA 300.0	292711		
40171262008	MW-1005_201806	EPA 300.0	292711		
40171262009	MW-1005P_201806	EPA 300.0	292711		
40171262010	MW-1005S_201806	EPA 300.0	292711		
40171262011	MW-1010P_201806	EPA 300.0	292711		
40171262012	MW-1013_201806	EPA 300.0	292711		
40171262013	MW-1013A_201806	EPA 300.0	292805		
40171262014	MW-1013B_201806	EPA 300.0	292805		
40171262015	MW-1013C_201806	EPA 300.0	292805		
40171262016	MW-1014_201806	EPA 300.0	292805		
40171262017	MW-1014A_201806	EPA 300.0	292805		
40171262018	MW-1014B_201806	EPA 300.0	292805		
40171262019	MW-1014C_201806	EPA 300.0	292805		
40171262020	MW-1015A_201806	EPA 300.0	292805		
40171262021	MW-1015B_201806	EPA 300.0	292805		
40171262022	MW-DUP_201806	EPA 300.0	292805		
40171262023	BACKFILL-DUP_201806	EPA 300.0	292805		
40171262001	MW-1000PR_201806	EPA 310.2	292953		
40171262002	MW-1000R_201806	EPA 310.2	292953		
40171262003	MW-1002_201806	EPA 310.2	292953		
40171262004	MW-1002G_201806	EPA 310.2	292953		
40171262005	MW-1004_201806	EPA 310.2	292953		
40171262006	MW-1004P_201806	EPA 310.2	292953		
40171262007	MW-1004S_201806	EPA 310.2	292953		
40171262008	MW-1005_201806	EPA 310.2	292953		
40171262009	MW-1005P_201806	EPA 310.2	292953		
40171262010	MW-1005S_201806	EPA 310.2	292953		
40171262011	MW-1010P_201806	EPA 310.2	292953		
40171262012	MW-1013_201806	EPA 310.2	292953		
40171262013	MW-1013A_201806	EPA 310.2	292953		
40171262014	MW-1013B_201806	EPA 310.2	292953		
40171262015	MW-1013C_201806	EPA 310.2	292953		
40171262016	MW-1014_201806	EPA 310.2	292953		
40171262017	MW-1014A_201806	EPA 310.2	292953		
40171262018	MW-1014B_201806	EPA 310.2	292953		
40171262019	MW-1014C_201806	EPA 310.2	292953		
40171262020	MW-1015A_201806	EPA 310.2	292953		
40171262021	MW-1015B_201806	EPA 310.2	292954		
40171262022	MW-DUP_201806	EPA 310.2	292954		
40171262023	BACKFILL-DUP_201806	EPA 310.2	292954		

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



CHAIN OF CUSTODY

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

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

Data Package Options (billable)
 EPA Level III
 EPA Level IV
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
W = Water
DW = Drinking Water
GW = Ground Water
SW = Surface Water
WW = Waste Water
WP = Wipe

Regulatory Program:
A = Air
B = Bioa
C = Chiroal
O = Oil
S = Soil
SI = Sludge

Company Name: **FOTH**
Branch/Location: **De Pere**
Project Contact: **Nick Glancker**
Phone: **920/496-6758**
Project Number: **17F777**
Project Name: **FMC**
Project State: **WISCONSIN**
Sampled By (Print): **Nick Glancker**
Sampled By (Sign): *[Signature]*
PO #: **21**

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	TIME	MATRIX
21	MW-1000PR-201806	6/20/18	803	GW
22	MW-1000R-201806		815	
23	MW-1002-201806		1148	
24	MW-1002A-201806		1207	
25	MW-1004-201806		1108	
26	MW-1004P-201806		1120	
27	MW-1004S-201806		1038	
28	MW-1005-201806		1329	
29	MW-1005P-201806		1341	
30	MW-1005S-201806		1317	
31	MW-1010P-201806		745	
32	MW-1013-201806		955	
33	MW-1013A-201806		950	

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Quote #:
Mail To Contact:
Mail To Company:
Mail To Address:
Invoice To Contact:
Invoice To Company:
Invoice To Address:
Invoice To Phone:
CLIENT COMMENTS
LAB COMMENTS (Lab Use Only)
Profile #

PACE Project No.
Sample Receipt pH
OK Adjusted
Sample Receipt pH
Present/Not Present
Intact / Not Intact
Receipt Temp = 2 °C

Received By:	Date/Time:	Relinquished By:	Date/Time:
[Signature]	6/21/18 1332	[Signature]	6/21/18 1335
[Signature]	6/21/18 1335	[Signature]	6/21/18 1335
[Signature]	6/21/18 1335	[Signature]	6/21/18 1335

40171262



CHAIN OF CUSTODY

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

FILTERED? (YES/NO)

PRESERVATION (CODE)

Regulatory Program:

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

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

Matrix Codes
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WW = Waste Water
 VP = Vials

CLIENT FIELD ID

COLLECTOR DATE TIME MATRIX

Y/N

PK

LAB

ANALYSES REQUESTED

Handwritten notes: TBS, PH, SP, Conductivity, Alkalinity, Cl, SO4, Hardness, HI, HS, BA, Cd, Cu, Pb, Fe, Hg, Ni, Mn, Se, Zn, Hg, Pb, Cr, MSB, K, NA

LAB COMMENTS (Lab Use Only)

CLIENT COMMENTS

Invoice To Phone:

Invoice To Company:

Invoice To Address:

Mail To Contact:

Mail To Company:

Mail To Address:

Company Name: FORTH

Branch/Location: DE PERE

Project Contact: Nick Glander

Phone: 920/996-6758

Project Number: 17F777

Project Name: FMC

Project State: WISCONSIN

Sampled By (Print): Nick Glander

Sampled By (Sign): [Signature]

PO #: _____

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

Matrix Codes
 A = Air
 B = Bios
 C = Charcoal
 O = Oil
 S = Soil
 SI = Sludge

CLIENT FIELD ID

COLLECTOR DATE TIME MATRIX

Y/N

PK

LAB

ANALYSES REQUESTED

Handwritten notes: TBS, PH, SP, Conductivity, Alkalinity, Cl, SO4, Hardness, HI, HS, BA, Cd, Cu, Pb, Fe, Hg, Ni, Mn, Se, Zn, Hg, Pb, Cr, MSB, K, NA

LAB COMMENTS (Lab Use Only)

CLIENT COMMENTS

Invoice To Phone:

Invoice To Company:

Invoice To Address:

Mail To Contact:

Mail To Company:

Mail To Address:

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results By (complete what you want):
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

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

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received By: [Signature] Date/Time: 10/21/18 1330

Received By: [Signature] Date/Time: 8/21/19 1335

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

PAGE Project No. 40171262

Receipt Temp = _____ °C

Sample Receipt pH OK/Adjusted

Copier Custody Seal Present / Not Present

Intact / Not Intact Intact

Sample Preservation Receipt Form

Client Name: FJH Project # 4017262

All containers needing preservation have been checked and noted below: Yes No N/A
 Lab Lot# of pH paper: 125477 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: [Signature] Date/ Time:

Pace Lab #	Glass					Plastic					Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH 52	NaOH+Zn Act pH 29	NaOH pH 212	HNO3 pH 52	pH after adjusted	Volume (mL)										
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U								WG9U	WPFU	SP5T	ZPLC	GN					
001																																						2.5 / 5 / 10
002																																					2.5 / 5 / 10	
003																																					2.5 / 5 / 10	
004																																					2.5 / 5 / 10	
005																																					2.5 / 5 / 10	
006																																					2.5 / 5 / 10	
007																																					2.5 / 5 / 10	
008																																					2.5 / 5 / 10	
009																																					2.5 / 5 / 10	
010																																					2.5 / 5 / 10	
011																																					2.5 / 5 / 10	
012																																					2.5 / 5 / 10	
013																																					2.5 / 5 / 10	
014																																					2.5 / 5 / 10	
015																																					2.5 / 5 / 10	
016																																					2.5 / 5 / 10	
017																																					2.5 / 5 / 10	
018																																					2.5 / 5 / 10	
019																																					2.5 / 5 / 10	
020																																					2.5 / 5 / 10	

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *if yes look in headspace column


AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WG9U	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH		
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI		
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4				
				SP5T	120 mL plastic Na Thiosulfate		
				ZPLC	ziploc bag		
				GN:			

Sample Preservation Receipt Form

Client Name: Esch

Project #: 4017262

Pace Lab #	Glass				Plastic				Vials			Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U								VG9H	VG9M	VG9D	JGFU
021																											2.5 / 5 / 10	
022												1														X		2.5 / 5 / 10
023											2															X		2.5 / 5 / 10
																												2.5 / 5 / 10
																												2.5 / 5 / 10
																												2.5 / 5 / 10
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																												2.5 / 5 / 10

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

Sample Condition Upon Receipt Form (SCUR)

Client Name: Foth Project #: **WO#: 40171262**

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



Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used SR-36 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 1.5 / Corr: 2

Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Person examining contents:
 Date: 6/21/18
 Initials: _____

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

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

Project Manager Review: Al for TN Date: 6/21/18
 Page 60 of 80

Attachment 2
Third Quarter 2018
Groundwater Environmental Monitoring Results

TAD Readable
Chain of Custody Documents
csv Excel Data File (on CD)

Facility Name	Location	Location ID	Date	Parameter	Code	Result	Qualifier	Units	QC_I	QC_II	QC_III	LOD	LOQ	RL
Flambeau-03180	MW-1015A	869	180620	Chromium	01030		N	ug/L	M	M	M	1	3.4	1
Flambeau-03180	MW-1015A	869	180620	Copper	01040		N	ug/L	M	M	M	1.1	3.6	1.1
Flambeau-03180	MW-1015A	869	180620	Iron	01046		N	mg/L	M	M	M	0.111	0.368	0.111
Flambeau-03180	MW-1015A	869	180620	Lead	01049		N	ug/L	M	M	M	0.2	1	0.2
Flambeau-03180	MW-1015A	869	180620	Manganese	01056	13.3		ug/L	M	M	M	2.7	9	2.7
Flambeau-03180	MW-1015A	869	180620	Silver	01075		N	ug/L	M	M	M	0.1	0.5	0.1
Flambeau-03180	MW-1015A	869	180620	Zinc	01090		N	ug/L	M	M	M	4.6	15.3	4.6
Flambeau-03180	MW-1015A	869	180620	Aluminum	01106		N	ug/L	M	M	M	58.7	250	58.7
Flambeau-03180	MW-1015A	869	180620	Selenium	01145		N	ug/L	M	M	M	0.32	1.1	0.32
Flambeau-03180	MW-1015A	869	180619	LEVELS	04189	1092.82								
Flambeau-03180	MW-1015A	869	180620	Hardness	22413	89.5		mg/L	M	M	M	0.15	5	0.15
Flambeau-03180	MW-1015A	869	180620	Alkalinity as CaCO3	39036	83.5		mg/L	M	M	M	7	23.5	7
Flambeau-03180	MW-1015A	869	180620	Total Dissolved Solids	70300	128		mg/L	M	M	M	8.7	20	8.7
Flambeau-03180	MW-1015A	869	180620	Mercury	71890		N	ug/L	M	M	M	0.12	0.4	0.12
Flambeau-03180	MW-1015B	870	180620	Temperature	00010	9.12		deg c						
Flambeau-03180	MW-1015B	870	180620	Redox Potential	00090	90.9		mV						
Flambeau-03180	MW-1015B	870	180620	Specific Conductance	00095	587		umhos/cm @25 C	M	M	M	1.8	6	1.8
Flambeau-03180	MW-1015B	870	180620	pH	00400	7.54		s.u.						
Flambeau-03180	MW-1015B	870	180620	pH	00403	7.9		s.u.	M	F	M	0.01	0.1	0.01
Flambeau-03180	MW-1015B	870	180620	Conductivity	00402	561		umhos/cm @25 C						
Flambeau-03180	MW-1015B	870	180620	Calcium	00915	34.3		mg/L	M	M	M	0.0698	0.25	0.0698
Flambeau-03180	MW-1015B	870	180620	Magnesium	00925	14.9		mg/L	M	M	M	0.0297	0.25	0.0297
Flambeau-03180	MW-1015B	870	180620	Sodium	00930	62.8		mg/L	M	M	M	0.042	0.25	0.042
Flambeau-03180	MW-1015B	870	180620	Potassium	00935	6.23		mg/L	M	M	M	0.237	0.789	0.237
Flambeau-03180	MW-1015B	870	180620	Chloride	00941	89.5		mg/L	M	M	M	2.5	10	2.5
Flambeau-03180	MW-1015B	870	180620	Sulfate	00946		N	mg/L	M	M	M	1	3	1
Flambeau-03180	MW-1015B	870	180620	Arsenic	01000		N	ug/L	M	M	M	0.28	1	0.28
Flambeau-03180	MW-1015B	870	180620	Barium	01005	46.4		ug/L	M	M	M	0.34	1.1	0.34
Flambeau-03180	MW-1015B	870	180620	Cadmium	01025	0.089	J	ug/L	M	M	M	0.081	1	0.081
Flambeau-03180	MW-1015B	870	180620	Chromium	01030		N	ug/L	M	M	M	1	3.4	1
Flambeau-03180	MW-1015B	870	180620	Copper	01040		N	ug/L	M	M	M	1.1	3.6	1.1
Flambeau-03180	MW-1015B	870	180620	Iron	01046		N	mg/L	M	M	M	0.111	0.368	0.111
Flambeau-03180	MW-1015B	870	180620	Lead	01049		N	ug/L	M	M	M	0.2	1	0.2
Flambeau-03180	MW-1015B	870	180620	Manganese	01056	37.9		ug/L	M	M	M	2.7	9	2.7
Flambeau-03180	MW-1015B	870	180620	Silver	01075		N	ug/L	M	M	M	0.1	0.5	0.1
Flambeau-03180	MW-1015B	870	180620	Zinc	01090		N	ug/L	M	M	M	4.6	15.3	4.6
Flambeau-03180	MW-1015B	870	180620	Aluminum	01106		N	ug/L	M	M	M	58.7	250	58.7
Flambeau-03180	MW-1015B	870	180620	Selenium	01145		N	ug/L	M	M	M	0.32	1.1	0.32
Flambeau-03180	MW-1015B	870	180619	LEVELS	04189	1091.95								
Flambeau-03180	MW-1015B	870	180620	Hardness	22413	147		mg/L	M	M	M	0.15	5	0.15
Flambeau-03180	MW-1015B	870	180620	Alkalinity as CaCO3	39036	173		mg/L	M	M	M	7	23.5	7
Flambeau-03180	MW-1015B	870	180620	Total Dissolved Solids	70300	304		mg/L	M	M	M	8.7	20	8.7
Flambeau-03180	MW-1015B	870	180620	Mercury	71890		N	ug/L	M	M	M	0.12	0.4	0.12

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



CHAIN OF CUSTODY

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

(Please Print Clearly)

Company Name: **FOTH**

Branch/Location: **DE PERE**

Project Contact: **Nick Galandor**

Phone: **920/496-6758**

Project Number: **17F777**

Project Name: **FMIC**

Project State: **WISCONSIN**

Sampled By (Print): **Nick Galandor**

Sampled By (Sign): *[Signature]*

PO #:

PAGE LAB #	CLIENT FIELD ID	MS/MSD (billable)	Regulatory Program:	Matrix Codes		COLLECTION DATE	TIME	MATRIX
				MS/MSD (billable)	Regulatory Program:			
201	MW-1000PR-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	6/29/18	803	GW
202	MW-1000R-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	8/15	815	GW
203	MW-1002-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	11/48	1148	GW
204	MW-1002A-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	1207	1207	GW
205	MW-1004-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	1108	1108	GW
206	MW-1004P-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	1120	1120	GW
207	MW-1004S-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	1038	1038	GW
208	MW-1005-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	1329	1329	GW
209	MW-1005P-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	1341	1341	GW
210	MW-1005S-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	1317	1317	GW
211	MW-1010P-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	745	745	GW
212	MW-1013-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	955	955	GW
213	MW-1013A-201806	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD (billable)	W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe	W	950	950	GW

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

Transmit Prelim Results by (complete what you want):

Email #1:
Email #2:
Telephone:
Fax:

Special pricing and release of liability

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	
CLIENT COMMENTS	
LAB COMMENTS (Lab Use Only)	
Profiles #	

Received By: *[Signature]* Date/Time: 6/21/18 1335

Relinquished By: *[Signature]* Date/Time: 6/21/18 1355

Received By: *[Signature]* Date/Time: 6/21/18 1355

Relinquished By: *[Signature]* Date/Time: 6/21/18 1355

Received By: *[Signature]* Date/Time: 6/21/18 1355

Relinquished By: *[Signature]* Date/Time: 6/21/18 1355

Received By:	Date/Time:
Relinquished By:	Date/Time:
Received By:	Date/Time:
Relinquished By:	Date/Time:
Received By:	Date/Time:
Relinquished By:	Date/Time:

Sample Receipt pH OK Adjusted

Cooler Priority Seal Property Not Present Impact / Not Impact

Version 6.0 (06/2015)

40171262



CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HN03 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
 (YES/NO)
 PRESERVATION
 (CODE)

Regulatory Program:

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

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

Matrix Codes
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WW = Waste Water
 S = Soil
 SL = Sludge
 WP = Wipe

PACE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX
014	MW-1013B-201806	6/21/18	940	GW
015	MW-1013C-201806		1025	
016	MW-1014A-201806		833	
017	MW-1014B-201806		846	
018	MW-1014C-201806		855	
019	MW-1015A-201806		925	
020	MW-1015B-201806		1247	
021	MW-NUP-201806		1251	
022	Backfill-NUP-201806			

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

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

Email #1:
 Email #2:
 Telephone:
 Fax:

Relinquished By: [Signature]
 Date/Time: 6/21/18 125

Relinquished By: [Signature]
 Date/Time: 6/21/18 1335

Relinquished By: [Signature]
 Date/Time: 6/21/18 1355

Relinquished By: [Signature]
 Date/Time: []

Relinquished By: [Signature]
 Date/Time: []

Relinquished By: [Signature]
 Date/Time: []

Quote #:

Mail To Contact:
 Mail To Company:
 Mail To Address:

Invoice To Contact:
 Invoice To Company:
 Invoice To Address:

Invoice To Phone:

CLIENT COMMENTS
 (Lab Use Only)

LAB COMMENTS
 (Lab Use Only)

Profile #

Quote #:

Mail To Contact:
 Mail To Company:
 Mail To Address:

Invoice To Contact:
 Invoice To Company:
 Invoice To Address:

Invoice To Phone:

CLIENT COMMENTS
 (Lab Use Only)

LAB COMMENTS
 (Lab Use Only)

Profile #

Date/Time: 6/21/18 1335
 Date/Time: 6/21/18 1355
 Date/Time: []

Sample Receipt pH
 OK/Adjusted

Copier Custody Seal
 Present / Not Present
 Intact / Not Intact

Receipt Temp = °C

FACE Project No.
 40171262

Sample Preservation Receipt Form

Client Name: Folk Project # 4017262

All containers needing preservation have been checked and noted below: Yes No N/A
 Lab Lot# of pH paper: MSU77 Lab Std #ID of preservation (if pH adjusted): _____

Initial when completed: _____
 Date/Time: _____

Pace Lab #	Glass			Plastic							Vials			Jars			General			VOA Vials (>6mm) *	H2SO4 pH 52	NaOH+Zn Act pH 29	NaOH pH 212	HNO3 pH 52	pH after adjusted	Volume (mL)											
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M								VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN				
001																																2.5/5/10			X		
002												1	1																			2.5/5/10			X		
003												1	1																			2.5/5/10			X		
004												1	1																			2.5/5/10			X		
005												1	1																			2.5/5/10			X		
006												1	1																			2.5/5/10			X		
007												1	1																			2.5/5/10			X		
008												1	1																			2.5/5/10			X		
009												1	1																			2.5/5/10			X		
010												1	1																			2.5/5/10			X		
011												1	1																			2.5/5/10			X		
012												1	1																			2.5/5/10			X		
013												1	1																			2.5/5/10			X		
014												1	1																			2.5/5/10			X		
015												1	1																			2.5/5/10			X		
016												1	1																			2.5/5/10			X		
017												1	1																			2.5/5/10			X		
018												1	1																			2.5/5/10			X		
019												1	1																			2.5/5/10			X		
020												1	1																			2.5/5/10			X		

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____


AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3C 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:

Sample Preservation Receipt Form

Client Name: Eoth

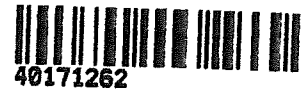
Project #: 40171262

Pace Lab #	AG1U AG1H AG4S AG4U AG5U AG2S BG3U	Glass					Plastic					Vials				Jars				General			VOA Vials (>6mm)	H2SO4 pH 2	NaOH+Zn Act pH 29	NaOH pH 12	HNO3 pH 2	pH after adjusted	Volume (mL)									
		AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU								WGFU	WPFU	SP5T	ZPLC	GN				
021																																					2.5/5/10	
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 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Foth Project #: WO#: 40171262
 Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used SR-76 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Un Corr: 1.5 / Corr: 2

Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Person examining contents: Date: <u>6/21/18</u> Initials: _____

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

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

Project Manager Review: AL for TN Date: 6/21/18
 Page 60 of 60
 3 of 3
 6/21/18