

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



December 23, 2015

Mr. Philip Fauble  
Hydrogeologist  
Wisconsin Department of Natural Resources  
101 S. Webster Street – GEF2  
P.O. Box 7921  
Madison, WI 53707-7921

RE: Flambeau Mining Company  
Environmental Monitoring (Fourth Quarter 2015)

Dear Phil:

Enclosed please find copies of the fourth quarter 2015 environmental monitoring groundwater data, which include analyses of groundwater collected from wells surrounding the backfilled pit and pore water from the monitoring wells constructed in the backfill. The fourth quarter groundwater sampling was completed on October 6, 2015.

Certification is attached and electronic monitoring is enclosed.

Duplicate samples were collected for MW1002 (MW DUP) and MW1014C (BACKFILL DUP).

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  
Vice President – Flambeau Mining Company

Enclosures

Mr. Philip Fauble  
Wisconsin Department of Natural Resources  
December 23, 2015  
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cc: Kyle McLaughlin, WDNR (w/o enclosures)  
Zoe McManama, WDNR (w/o enclosures)  
Al Christianson, City of Ladysmith (w/o enclosures)  
Randy Tatur, Rusk Co. (w/o enclosures)  
Tom Riegel, Town of Grant (w/o enclosures)  
CeCe Tesky, Rusk Co. Zoning (w/o enclosures)  
Sharon Kozicki, Foth Infrastructure & Environment, LLC (w/ enclosures)

**Attachment 1**

**Fourth Quarter 2015 GW Analytical Data**

**Flambeau Mining Company**  
**Fourth Quarter 2015 Environmental Monitoring**  
**October 6, 2015**

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.

November 05, 2015

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

RE: Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

Dear SHARON KOZICKI:

Enclosed are the analytical results for sample(s) received by the laboratory on October 07, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP ID: 460263

Virginia VELAP Certification ID: 460263

Wisconsin Certification #: 405132750

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## SAMPLE SUMMARY

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40122298001	MW-1000R-2015_10	Water	10/06/15 07:50	10/07/15 09:05
40122298002	MW-1000PR-2015_10	Water	10/06/15 08:00	10/07/15 09:05
40122298003	MW-1010P-2015_10	Water	10/06/15 08:15	10/07/15 09:05
40122298004	MW-1013-2015_10	Water	10/06/15 10:35	10/07/15 09:05
40122298005	MW-1013A-2015_10	Water	10/06/15 10:40	10/07/15 09:05
40122298006	MW-1013B-2015_10	Water	10/06/15 10:50	10/07/15 09:05
40122298007	MW-1013C-2015_10	Water	10/06/15 10:25	10/07/15 09:05
40122298008	MW-1014-2015_10	Water	10/06/15 08:25	10/07/15 09:05
40122298009	MW-1014A-2015_10	Water	10/06/15 08:35	10/07/15 09:05
40122298010	MW-1014B-2015_10	Water	10/06/15 08:45	10/07/15 09:05
40122298011	MW-1014C-2015_10	Water	10/06/15 09:15	10/07/15 09:05
40122298012	MW-1004-2015_10	Water	10/06/15 11:20	10/07/15 09:05
40122298013	MW-1004P-2015_10	Water	10/06/15 11:00	10/07/15 09:05
40122298014	MW-1004S-2015_10	Water	10/06/15 11:45	10/07/15 09:05
40122298015	MW-1015A-2015_10	Water	10/06/15 12:20	10/07/15 09:05
40122298016	MW-1015B-2015_10	Water	10/06/15 12:25	10/07/15 09:05
40122298017	MW-1002-2015_10	Water	10/06/15 12:50	10/07/15 09:05
40122298018	MW-1002G-2015_10	Water	10/06/15 13:05	10/07/15 09:05
40122298019	MW-1005-2015_10	Water	10/06/15 14:10	10/07/15 09:05
40122298020	MW-1005S-2015_10	Water	10/06/15 13:40	10/07/15 09:05
40122298021	MW-1005P-2015_10	Water	10/06/15 14:25	10/07/15 09:05
40122298022	MW-DUP-2015_10	Water	10/06/15 00:00	10/07/15 09:05
40122298023	BACKFILL-DUP-2015_10	Water	10/06/15 00:00	10/07/15 09:05

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### SAMPLE ANALYTE COUNT

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40122298001	MW-1000R-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298002	MW-1000PR-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298003	MW-1010P-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	SJR	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298004	MW-1013-2015_10	EPA 6020	DS1, JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298005	MW-1013A-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298006	MW-1013B-2015_10	EPA 6020	DS1, JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298007	MW-1013C-2015_10	EPA 6020	DS1, JBR	5

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### SAMPLE ANALYTE COUNT

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298008	MW-1014-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298009	MW-1014A-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298010	MW-1014B-2015_10	EPA 6020	DS1, JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298011	MW-1014C-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298012	MW-1004-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298013	MW-1004P-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1

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### SAMPLE ANALYTE COUNT

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40122298014	MW-1004S-2015_10	SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
40122298015	MW-1015A-2015_10	EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298016	MW-1015B-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6020	JBR	5
		EPA 120.1	DEY	1
40122298017	MW-1002-2015_10	SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
40122298018	MW-1002G-2015_10	EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298019	MW-1005-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	DEY	1

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### SAMPLE ANALYTE COUNT

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40122298020	MW-1005S-2015_10	SM 4500-H+B	SJR	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	SJR	1
40122298021	MW-1005P-2015_10	EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	SJR	1
		EPA 300.0	HMB	1
40122298022	MW-DUP-2015_10	EPA 310.2	DAW	1
		EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	SJR	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
40122298023	BACKFILL-DUP-2015_10	EPA 6020	JBR	5
		EPA 120.1	DEY	1
		SM 2540C	SJR	1
		SM 4500-H+B	SJR	1
		EPA 300.0	HMB	1
		EPA 310.2	DAW	1
		EPA 310.2	DAW	1

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

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**Method:** EPA 6020

**Description:** 6020 MET ICPMS, Dissolved

**Client:** FOTH INFRASTRUCTURE & ENVIRONMENT

**Date:** November 05, 2015

**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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

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**Method:** EPA 120.1

**Description:** 120.1 Specific Conductance

**Client:** FOTH INFRASTRUCTURE & ENVIRONMENT

**Date:** November 05, 2015

**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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

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**Method:** SM 2540C  
**Description:** 2540C Total Dissolved Solids  
**Client:** FOTH INFRASTRUCTURE & ENVIRONMENT  
**Date:** November 05, 2015

### 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.

QC Batch: WET/23448

R1: RPD value was outside control limits.

- DUP (Lab ID: 1237496)
- Total Dissolved Solids

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

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**Method:** SM 4500-H+B  
**Description:** 4500H+ pH, Electrometric  
**Client:** FOTH INFRASTRUCTURE & ENVIRONMENT  
**Date:** November 05, 2015

### 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 recommended holding time.

- BACKFILL-DUP-2015\_10 (Lab ID: 40122298023)
- MW-1000PR-2015\_10 (Lab ID: 40122298002)
- MW-1000R-2015\_10 (Lab ID: 40122298001)
- MW-1002-2015\_10 (Lab ID: 40122298017)
- MW-1002G-2015\_10 (Lab ID: 40122298018)
- MW-1004-2015\_10 (Lab ID: 40122298012)
- MW-1004P-2015\_10 (Lab ID: 40122298013)
- MW-1004S-2015\_10 (Lab ID: 40122298014)
- MW-1005-2015\_10 (Lab ID: 40122298019)
- MW-1005P-2015\_10 (Lab ID: 40122298021)
- MW-1005S-2015\_10 (Lab ID: 40122298020)
- MW-1010P-2015\_10 (Lab ID: 40122298003)
- MW-1013-2015\_10 (Lab ID: 40122298004)
- MW-1013A-2015\_10 (Lab ID: 40122298005)
- MW-1013B-2015\_10 (Lab ID: 40122298006)
- MW-1013C-2015\_10 (Lab ID: 40122298007)
- MW-1014-2015\_10 (Lab ID: 40122298008)
- MW-1014A-2015\_10 (Lab ID: 40122298009)
- MW-1014B-2015\_10 (Lab ID: 40122298010)
- MW-1014C-2015\_10 (Lab ID: 40122298011)
- MW-1015A-2015\_10 (Lab ID: 40122298015)
- MW-1015B-2015\_10 (Lab ID: 40122298016)
- MW-DUP-2015\_10 (Lab ID: 40122298022)

### 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:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

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**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days, Diss

**Client:** FOTH INFRASTRUCTURE & ENVIRONMENT

**Date:** November 05, 2015

**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.

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

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**Method:** EPA 310.2

**Description:** 310.2 Alkalinity, Dissolved

**Client:** FOTH INFRASTRUCTURE & ENVIRONMENT

**Date:** November 05, 2015

**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.

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

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

## REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1000R-2015\_10      **Lab ID:** 40122298001      Collected: 10/06/15 07:50      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	<b>0.29J</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 08:07	7440-38-2	
Copper, Dissolved	<b>89.7</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 08:07	7440-50-8	
Iron, Dissolved	<b>18.3J</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 08:07	7439-89-6	
Manganese, Dissolved	<b>10600</b>	ug/L	10.0	1.8	10	10/27/15 09:26	10/31/15 07:33	7439-96-5	P6
Total Hardness by 2340B, Dissolved	<b>336</b>	mg/L	50.0	1.5	10	10/27/15 09:26	10/31/15 07:33		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	<b>696</b>	umhos/cm	10.0	1.5	1		10/09/15 11:05		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	<b>450</b>	mg/L	20.0	8.7	1		10/08/15 17:51		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	<b>6.1</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	<b>69.2</b>	mg/L	20.0	10.0	5		10/13/15 12:04	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	<b>247</b>	mg/L	20.0	8.6	1		10/12/15 11:54		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1000PR-2015\_10      **Lab ID:** 40122298002      Collected: 10/06/15 08:00      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>6.8</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 08:54	7440-38-2	
Copper, Dissolved	<b>2.7</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 08:54	7440-50-8	
Iron, Dissolved	<b>642</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 08:54	7439-89-6	
Manganese, Dissolved	<b>2150</b>	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 08:54	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>434</b>	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 08:54		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	<b>822</b>	umhos/cm	10.0	1.5	1		10/09/15 11:06		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>534</b>	mg/L	20.0	8.7	1		10/08/15 17:51		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	<b>6.4</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	<b>68.3</b>	mg/L	40.0	20.0	10		10/13/15 12:17	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	<b>225</b>	mg/L	20.0	8.6	1		10/12/15 11:54		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1010P-2015\_10      **Lab ID:** 40122298003      Collected: 10/06/15 08:15      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>23.0</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 09:08	7440-38-2	
Copper, Dissolved	<b>0.55J</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 09:08	7440-50-8	
Iron, Dissolved	<b>&lt;10.0</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 09:08	7439-89-6	
Manganese, Dissolved	<b>83.4</b>	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 09:08	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>185</b>	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 09:08		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	<b>367</b>	umhos/cm	10.0	1.5	1		10/09/15 11:07		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>188</b>	mg/L	20.0	8.7	1		10/08/15 17:52		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	<b>7.3</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	<b>24.4</b>	mg/L	4.0	2.0	1		10/12/15 23:30	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	<b>161</b>	mg/L	20.0	8.6	1		10/12/15 11:55		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1013-2015\_10      **Lab ID:** 40122298004      Collected: 10/06/15 10:35      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	<b>0.63J</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 09:14	7440-38-2	
Copper, Dissolved	<b>7.6</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 09:14	7440-50-8	
Iron, Dissolved	<b>4570</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 09:14	7439-89-6	
Manganese, Dissolved	<b>26200</b>	ug/L	100	17.9	100	10/27/15 09:26	11/03/15 19:07	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>568</b>	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 09:14		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	<b>1140</b>	umhos/cm	10.0	1.5	1		10/09/15 11:08		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	<b>692</b>	mg/L	20.0	8.7	1		10/08/15 17:53		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	<b>6.3</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	<b>24.9</b>	mg/L	20.0	10.0	5		10/12/15 23:42	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	<b>630</b>	mg/L	100	43.2	5		10/12/15 12:20		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1013A-2015\_10      **Lab ID:** 40122298005      Collected: 10/06/15 10:40      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>0.26J</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 09:21	7440-38-2	
Copper, Dissolved	<b>0.47J</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 09:21	7440-50-8	
Iron, Dissolved	<b>54.7J</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 09:21	7439-89-6	
Manganese, Dissolved	<b>4330</b>	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 09:21	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>468</b>	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 09:21		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	<b>960</b>	umhos/cm	10.0	1.5	1		10/09/15 11:08		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>586</b>	mg/L	20.0	8.7	1		10/08/15 17:53		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	<b>6.6</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	<b>163</b>	mg/L	40.0	20.0	10		10/13/15 12:54	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	<b>353</b>	mg/L	20.0	8.6	1		10/12/15 13:25		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

**Sample:** MW-1013B-2015\_10      **Lab ID:** 40122298006      Collected: 10/06/15 10:50      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>1.0</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 09:28	7440-38-2	
Copper, Dissolved	<b>510</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 09:28	7440-50-8	
Iron, Dissolved	<b>63.2J</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 09:28	7439-89-6	
Manganese, Dissolved	<b>30800</b>	ug/L	100	17.9	100	10/27/15 09:26	11/03/15 19:13	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>2030</b>	mg/L	500	15.0	100	10/27/15 09:26	11/03/15 19:13		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	<b>3380</b>	umhos/cm	10.0	1.5	1		10/09/15 11:11		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2970</b>	mg/L	20.0	8.7	1		10/08/15 17:53		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	<b>6.3</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	<b>1600</b>	mg/L	200	100	50		10/13/15 13:07	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	<b>523</b>	mg/L	100	43.2	5		10/12/15 14:34		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1013C-2015\_10      **Lab ID:** 40122298007      Collected: 10/06/15 10:25      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	<b>21.2</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 09:35	7440-38-2	
Copper, Dissolved	<b>0.78J</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 09:35	7440-50-8	
Iron, Dissolved	<b>13700</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 09:35	7439-89-6	
Manganese, Dissolved	<b>9600</b>	ug/L	100	17.9	100	10/27/15 09:26	11/03/15 19:20	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>1940</b>	mg/L	500	15.0	100	10/27/15 09:26	11/03/15 19:20		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	<b>3320</b>	umhos/cm	10.0	1.5	1		10/09/15 11:12		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	<b>2840</b>	mg/L	20.0	8.7	1		10/08/15 17:54		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	<b>6.4</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	<b>1550</b>	mg/L	400	200	100		10/13/15 13:19	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	<b>522</b>	mg/L	40.0	17.3	2		10/12/15 13:26		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

**Sample:** MW-1014-2015\_10      **Lab ID:** 40122298008      Collected: 10/06/15 08:25      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	<0.099	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 09:41	7440-38-2	
Copper, Dissolved	5.2	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 09:41	7440-50-8	
Iron, Dissolved	<10.0	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 09:41	7439-89-6	
Manganese, Dissolved	455	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 09:41	7439-96-5	
Total Hardness by 2340B, Dissolved	332	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 09:41		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	737	umhos/cm	10.0	1.5	1		10/09/15 11:13		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	446	mg/L	20.0	8.7	1		10/08/15 17:54		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	6.4	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	128	mg/L	40.0	20.0	10		10/13/15 13:32	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	194	mg/L	20.0	8.6	1		10/12/15 13:27		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1014A-2015\_10      **Lab ID:** 40122298009      Collected: 10/06/15 08:35      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	<b>0.81J</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 10:01	7440-38-2	
Copper, Dissolved	<b>3.8</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 10:01	7440-50-8	
Iron, Dissolved	<b>&lt;10.0</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 10:01	7439-89-6	
Manganese, Dissolved	<b>156</b>	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 10:01	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>1400</b>	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 10:01		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	<b>2370</b>	umhos/cm	10.0	1.5	1		10/09/15 11:14		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	<b>1790</b>	mg/L	20.0	8.7	1		10/08/15 17:55		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	<b>6.6</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	<b>931</b>	mg/L	80.0	40.0	20		10/13/15 13:44	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	<b>488</b>	mg/L	100	43.2	5		10/12/15 14:35		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1014B-2015\_10      **Lab ID:** 40122298010      Collected: 10/06/15 08:45      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic, Dissolved	1.3	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 10:08	7440-38-2	
Copper, Dissolved	372	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 10:08	7440-50-8	
Iron, Dissolved	<10.0	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 10:08	7439-89-6	
Manganese, Dissolved	9970	ug/L	50.0	9.0	50	10/27/15 09:26	11/03/15 19:27	7439-96-5	
Total Hardness by 2340B, Dissolved	1730	mg/L	250	7.5	50	10/27/15 09:26	11/03/15 19:27		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	2970	umhos/cm	10.0	1.5	1		10/09/15 11:14		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	2460	mg/L	20.0	8.7	1		10/08/15 17:55		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	6.4	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	1340	mg/L	400	200	100		10/14/15 15:24	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	512	mg/L	100	43.2	5		10/12/15 14:36		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1014C-2015\_10      **Lab ID:** 40122298011      Collected: 10/06/15 09:15      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>22.6</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 10:15	7440-38-2	
Copper, Dissolved	<b>0.36J</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 10:15	7440-50-8	
Iron, Dissolved	<b>4640</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 10:15	7439-89-6	
Manganese, Dissolved	<b>1610</b>	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 10:15	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>545</b>	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 10:15		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	<b>1100</b>	umhos/cm	10.0	1.5	1		10/09/15 11:16		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>676</b>	mg/L	20.0	8.7	1		10/08/15 17:56		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	<b>6.6</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	<b>215</b>	mg/L	20.0	10.0	5		10/13/15 01:35	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	<b>273</b>	mg/L	40.0	17.3	2		10/12/15 13:31		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1004-2015\_10      **Lab ID:** 40122298012      Collected: 10/06/15 11:20      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	<0.099	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 10:22	7440-38-2	
Copper, Dissolved	4.2	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 10:22	7440-50-8	
Iron, Dissolved	<10.0	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 10:22	7439-89-6	
Manganese, Dissolved	1.4	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 10:22	7439-96-5	
Total Hardness by 2340B, Dissolved	58.9	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 10:22		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	145	umhos/cm	10.0	1.5	1		10/09/15 11:17		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	92.0	mg/L	20.0	8.7	1		10/08/15 17:56		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	6.1	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	20.5	mg/L	4.0	2.0	1		10/13/15 01:48	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	41.3	mg/L	20.0	8.6	1		10/12/15 13:31		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

**Sample:** MW-1004P-2015\_10      **Lab ID:** 40122298013      Collected: 10/06/15 11:00      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	<b>0.46J</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 10:28	7440-38-2	
Copper, Dissolved	<b>&lt;0.26</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 10:28	7440-50-8	
Iron, Dissolved	<b>418</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 10:28	7439-89-6	
Manganese, Dissolved	<b>149</b>	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 10:28	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>156</b>	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 10:28		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	<b>318</b>	umhos/cm	10.0	1.5	1		10/09/15 11:18		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	<b>160</b>	mg/L	20.0	8.7	1		10/08/15 17:57		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	<b>7.2</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	<b>3.6J</b>	mg/L	4.0	2.0	1		10/13/15 02:00	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	<b>167</b>	mg/L	20.0	8.6	1		10/12/15 13:32		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1004S-2015\_10      **Lab ID:** 40122298014      Collected: 10/06/15 11:45      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>0.13J</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 10:35	7440-38-2	
Copper, Dissolved	<b>1.8</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 10:35	7440-50-8	
Iron, Dissolved	<b>&lt;10.0</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 10:35	7439-89-6	
Manganese, Dissolved	<b>0.73J</b>	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 10:35	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>67.2</b>	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 10:35		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	<b>160</b>	umhos/cm	10.0	1.5	1		10/09/15 11:18		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>106</b>	mg/L	20.0	8.7	1		10/08/15 17:57		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	<b>6.1</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	<b>24.7</b>	mg/L	4.0	2.0	1		10/13/15 17:55	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	<b>40.9</b>	mg/L	20.0	8.6	1		10/12/15 15:15		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

**Sample:** MW-1015A-2015\_10      **Lab ID:** 40122298015      Collected: 10/06/15 12:20      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<0.099	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 10:42	7440-38-2	
Copper, Dissolved	0.46J	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 10:42	7440-50-8	
Iron, Dissolved	10.1J	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 10:42	7439-89-6	
Manganese, Dissolved	6.8	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 10:42	7439-96-5	
Total Hardness by 2340B, Dissolved	96.4	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 10:42		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	194	umhos/cm	10.0	1.5	1		10/09/15 11:20		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	120	mg/L	20.0	8.7	1		10/08/15 17:57		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	6.8	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	8.7	mg/L	4.0	2.0	1		10/13/15 18:33	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	83.5	mg/L	20.0	8.6	1		10/12/15 13:34		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1015B-2015\_10      **Lab ID:** 40122298016      Collected: 10/06/15 12:25      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>0.16J</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 10:49	7440-38-2	
Copper, Dissolved	<b>&lt;0.26</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 10:49	7440-50-8	
Iron, Dissolved	<b>138J</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 10:49	7439-89-6	
Manganese, Dissolved	<b>34.3</b>	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 10:49	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>161</b>	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 10:49		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	<b>508</b>	umhos/cm	10.0	1.5	1		10/09/15 11:21		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>252</b>	mg/L	20.0	8.7	1		10/08/15 17:58		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	<b>7.6</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	<b>3.2J</b>	mg/L	4.0	2.0	1		10/13/15 18:46	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3, Dissolved	<b>184</b>	mg/L	20.0	8.6	1		10/12/15 13:34		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1002-2015\_10      **Lab ID:** 40122298017      Collected: 10/06/15 12:50      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	<0.099	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 10:55	7440-38-2	
Copper, Dissolved	0.67J	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 10:55	7440-50-8	
Iron, Dissolved	<10.0	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 10:55	7439-89-6	
Manganese, Dissolved	<0.18	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 10:55	7439-96-5	
Total Hardness by 2340B, Dissolved	67.8	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 10:55		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	156	umhos/cm	10.0	1.5	1		10/09/15 11:21		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	96.0	mg/L	20.0	8.7	1		10/08/15 17:58		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	6.4	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	4.6	mg/L	4.0	2.0	1		10/13/15 18:58	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	61.2	mg/L	20.0	8.6	1		10/12/15 13:37		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1002G-2015\_10      **Lab ID:** 40122298018      Collected: 10/06/15 13:05      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	<0.099	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 11:02	7440-38-2	
Copper, Dissolved	0.35J	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 11:02	7440-50-8	
Iron, Dissolved	<10.0	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 11:02	7439-89-6	
Manganese, Dissolved	0.23J	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 11:02	7439-96-5	
Total Hardness by 2340B, Dissolved	144	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 11:02		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	324	umhos/cm	10.0	1.5	1		10/09/15 11:22		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	190	mg/L	20.0	8.7	1		10/08/15 17:58		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	6.5	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	9.2	mg/L	4.0	2.0	1		10/13/15 19:11	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	98.2	mg/L	20.0	8.6	1		10/12/15 13:38		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1005-2015\_10      **Lab ID:** 40122298019      Collected: 10/06/15 14:10      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	1.2	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 11:22	7440-38-2	
Copper, Dissolved	1.6	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 11:22	7440-50-8	
Iron, Dissolved	16200	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 11:22	7439-89-6	
Manganese, Dissolved	540	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 11:22	7439-96-5	
Total Hardness by 2340B, Dissolved	418	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 11:22		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	1490	umhos/cm	10.0	1.5	1		10/09/15 11:22		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	1070	mg/L	20.0	8.7	1		10/08/15 17:59		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	5.9	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	14.9	mg/L	4.0	2.0	1		10/13/15 19:23	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	57.3	mg/L	20.0	8.6	1		10/12/15 13:38		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1005S-2015\_10      **Lab ID:** 40122298020      Collected: 10/06/15 13:40      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Arsenic, Dissolved	<b>2.4</b>	ug/L	1.0	0.099	1	10/27/15 09:26	10/31/15 11:29	7440-38-2	
Copper, Dissolved	<b>&lt;0.26</b>	ug/L	1.0	0.26	1	10/27/15 09:26	10/31/15 11:29	7440-50-8	
Iron, Dissolved	<b>4290</b>	ug/L	250	10.0	1	10/27/15 09:26	10/31/15 11:29	7439-89-6	
Manganese, Dissolved	<b>237</b>	ug/L	1.0	0.18	1	10/27/15 09:26	10/31/15 11:29	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>177</b>	mg/L	5.0	0.15	1	10/27/15 09:26	10/31/15 11:29		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	<b>360</b>	umhos/cm	10.0	1.5	1		10/09/15 11:48		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	<b>198</b>	mg/L	20.0	8.7	1		10/08/15 17:59		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	<b>7.0</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	<b>2.3J</b>	mg/L	4.0	2.0	1		10/14/15 13:56	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	<b>179</b>	mg/L	40.0	17.3	2		10/12/15 13:39		

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**ANALYTICAL RESULTS**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample:** MW-1005P-2015\_10      **Lab ID:** 40122298021      Collected: 10/06/15 14:25      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>0.32J</b>	ug/L	1.0	0.099	1	10/27/15 09:33	11/04/15 16:34	7440-38-2	
Copper, Dissolved	<b>0.32J</b>	ug/L	1.0	0.26	1	10/27/15 09:33	11/04/15 16:34	7440-50-8	
Iron, Dissolved	<b>1070</b>	ug/L	250	10.0	1	10/27/15 09:33	11/04/15 16:34	7439-89-6	
Manganese, Dissolved	<b>71.6</b>	ug/L	1.0	0.18	1	10/27/15 09:33	11/04/15 16:34	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>240</b>	mg/L	50.0	1.5	10	10/27/15 09:33	11/04/15 16:08		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	<b>485</b>	umhos/cm	10.0	1.5	1		10/09/15 11:48		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>234</b>	mg/L	20.0	8.7	1		10/12/15 21:00		R1
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	<b>7.2</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	<b>&lt;2.0</b>	mg/L	4.0	2.0	1		10/13/15 19:48	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>251</b>	mg/L	20.0	8.6	1		10/12/15 13:39		

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

**Sample: MW-DUP-2015\_10**      **Lab ID: 40122298022**      Collected: 10/06/15 00:00      Received: 10/07/15 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>		Analytical Method: EPA 6020    Preparation Method: EPA 3010							
Arsenic, Dissolved	<b>0.10J</b>	ug/L	1.0	0.099	1	10/27/15 09:33	11/04/15 17:18	7440-38-2	
Copper, Dissolved	<b>1.1</b>	ug/L	1.0	0.26	1	10/27/15 09:33	11/04/15 17:18	7440-50-8	
Iron, Dissolved	<b>25.9J</b>	ug/L	250	10.0	1	10/27/15 09:33	11/04/15 17:18	7439-89-6	
Manganese, Dissolved	<b>0.37J</b>	ug/L	1.0	0.18	1	10/27/15 09:33	11/04/15 17:18	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>69.0</b>	mg/L	5.0	0.15	1	10/27/15 09:33	11/04/15 17:18		
<b>120.1 Specific Conductance</b>		Analytical Method: EPA 120.1							
Specific Conductance	<b>161</b>	umhos/cm	10.0	1.5	1		10/09/15 11:49		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	<b>104</b>	mg/L	20.0	8.7	1		10/12/15 21:01		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B							
pH	<b>6.4</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>		Analytical Method: EPA 300.0							
Sulfate, Dissolved	<b>4.5</b>	mg/L	4.0	2.0	1		10/13/15 20:26	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	<b>58.6</b>	mg/L	20.0	8.6	1		10/12/15 13:40		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

**Sample: BACKFILL-DUP-2015\_10**    **Lab ID: 40122298023**    Collected: 10/06/15 00:00    Received: 10/07/15 09:05    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS, Dissolved</b>	Analytical Method: EPA 6020    Preparation Method: EPA 3010								
Arsenic, Dissolved	<b>22.8</b>	ug/L	1.0	0.099	1	10/27/15 09:33	11/04/15 17:31	7440-38-2	
Copper, Dissolved	<b>&lt;0.26</b>	ug/L	1.0	0.26	1	10/27/15 09:33	11/04/15 17:31	7440-50-8	
Iron, Dissolved	<b>4830</b>	ug/L	250	10.0	1	10/27/15 09:33	11/04/15 17:31	7439-89-6	
Manganese, Dissolved	<b>1580</b>	ug/L	1.0	0.18	1	10/27/15 09:33	11/04/15 17:31	7439-96-5	
Total Hardness by 2340B, Dissolved	<b>528</b>	mg/L	5.0	0.15	1	10/27/15 09:33	11/04/15 17:31		
<b>120.1 Specific Conductance</b>	Analytical Method: EPA 120.1								
Specific Conductance	<b>1070</b>	umhos/cm	10.0	1.5	1		10/09/15 11:50		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	<b>670</b>	mg/L	20.0	8.7	1		10/12/15 21:01		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B								
pH	<b>6.7</b>	Std. Units	0.10	0.010	1		10/08/15 13:20		H6
<b>300.0 IC Anions 28 Days,Diss</b>	Analytical Method: EPA 300.0								
Sulfate, Dissolved	<b>214</b>	mg/L	20.0	10.0	5		10/13/15 20:38	14808-79-8	
<b>310.2 Alkalinity, Dissolved</b>	Analytical Method: EPA 310.2								
Alkalinity, Total as CaCO3, Dissolved	<b>274</b>	mg/L	40.0	17.3	2		10/12/15 13:40		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

QC Batch: MPRP/12813 Analysis Method: EPA 6020  
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 40122298001, 40122298002, 40122298003, 40122298004, 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013, 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019, 40122298020

METHOD BLANK: 1246856 Matrix: Water  
 Associated Lab Samples: 40122298001, 40122298002, 40122298003, 40122298004, 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013, 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019, 40122298020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.099	1.0	10/31/15 07:20	
Copper, Dissolved	ug/L	<0.26	1.0	10/31/15 07:20	
Iron, Dissolved	ug/L	<10.0	250	10/31/15 07:20	
Manganese, Dissolved	ug/L	<0.18	1.0	10/31/15 07:20	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	10/31/15 07:20	

LABORATORY CONTROL SAMPLE: 1246857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	532	106	80-120	
Copper, Dissolved	ug/L	500	534	107	80-120	
Iron, Dissolved	ug/L	5000	5200	104	80-120	
Manganese, Dissolved	ug/L	500	523	105	80-120	
Total Hardness by 2340B, Dissolved	mg/L		32.2			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1246858 1246859

Parameter	Units	40122298001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Arsenic, Dissolved	ug/L	0.29J	500	500	500	522	529	104	106	75-125	1	20	
Copper, Dissolved	ug/L	89.7	500	500	500	590	608	100	104	75-125	3	20	
Iron, Dissolved	ug/L	18.3J	5000	5000	5000	4980	5090	99	102	75-125	2	20	
Manganese, Dissolved	ug/L	10600	500	500	500	11000	11600	90	196	75-125	5	20	P6
Total Hardness by 2340B, Dissolved	mg/L	336				367	387				5	20	

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### QUALITY CONTROL DATA

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

QC Batch: MPRP/12814 Analysis Method: EPA 6020  
 QC Batch Method: EPA 3010 Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 40122298021, 40122298022, 40122298023

METHOD BLANK: 1246881 Matrix: Water

Associated Lab Samples: 40122298021, 40122298022, 40122298023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.099	1.0	11/04/15 15:56	
Copper, Dissolved	ug/L	<0.26	1.0	11/04/15 15:56	
Iron, Dissolved	ug/L	<10.0	250	11/04/15 15:56	
Manganese, Dissolved	ug/L	<0.18	1.0	11/04/15 15:56	
Total Hardness by 2340B, Dissolved	mg/L	<0.15	5.0	11/04/15 15:56	

LABORATORY CONTROL SAMPLE: 1246882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	541	108	80-120	
Copper, Dissolved	ug/L	500	532	106	80-120	
Iron, Dissolved	ug/L	5000	5400	108	80-120	
Manganese, Dissolved	ug/L	500	522	104	80-120	
Total Hardness by 2340B, Dissolved	mg/L		34.8			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1246883 1246884

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40122298021 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic, Dissolved	ug/L	0.32J	500	500	513	517	103	103	75-125	1	20	
Copper, Dissolved	ug/L	0.32J	500	500	499	497	100	99	75-125	0	20	
Iron, Dissolved	ug/L	1070	5000	5000	6180	6270	102	104	75-125	1	20	
Manganese, Dissolved	ug/L	71.6	500	500	572	582	100	102	75-125	2	20	
Total Hardness by 2340B, Dissolved	mg/L	240			257	270				5	20	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

QC Batch: WET/23423

Analysis Method: EPA 120.1

QC Batch Method: EPA 120.1

Analysis Description: 120.1 Specific Conductance

Associated Lab Samples: 40122298001, 40122298002, 40122298003, 40122298004, 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013, 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019

METHOD BLANK: 1235424

Matrix: Water

Associated Lab Samples: 40122298001, 40122298002, 40122298003, 40122298004, 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013, 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	<1.5	10.0	10/09/15 10:59	

LABORATORY CONTROL SAMPLE: 1235425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	644	650	101	80-120	

SAMPLE DUPLICATE: 1235426

Parameter	Units	40122380001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	3860	3860	0	20	

SAMPLE DUPLICATE: 1235427

Parameter	Units	40122298010 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	2970	2980	0	20	

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### QUALITY CONTROL DATA

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

QC Batch: WET/23425 Analysis Method: EPA 120.1  
QC Batch Method: EPA 120.1 Analysis Description: 120.1 Specific Conductance  
Associated Lab Samples: 40122298020, 40122298021, 40122298022, 40122298023

METHOD BLANK: 1235529 Matrix: Water  
Associated Lab Samples: 40122298020, 40122298021, 40122298022, 40122298023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	<1.5	10.0	10/09/15 11:42	

LABORATORY CONTROL SAMPLE: 1235530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	644	644	100	80-120	

SAMPLE DUPLICATE: 1235531

Parameter	Units	40122207001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	12200	12400	1	20	

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### QUALITY CONTROL DATA

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

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QC Batch: WET/23411                      Analysis Method: SM 2540C  
QC Batch Method: SM 2540C                      Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 40122298001, 40122298002, 40122298003, 40122298004, 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013, 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019, 40122298020

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METHOD BLANK: 1234744                      Matrix: Water  
Associated Lab Samples: 40122298001, 40122298002, 40122298003, 40122298004, 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013, 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019, 40122298020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	10/08/15 17:50	

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LABORATORY CONTROL SAMPLE: 1234745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	637	582	91	80-120	

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SAMPLE DUPLICATE: 1234746

Parameter	Units	40122298001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	450	452	0	5	

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SAMPLE DUPLICATE: 1234747

Parameter	Units	40122298011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	676	676	0	5	

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### QUALITY CONTROL DATA

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

QC Batch: WET/23448 Analysis Method: SM 2540C  
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 40122298021, 40122298022, 40122298023

METHOD BLANK: 1237494 Matrix: Water  
Associated Lab Samples: 40122298021, 40122298022, 40122298023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	10/12/15 20:59	

LABORATORY CONTROL SAMPLE: 1237495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	637	594	93	80-120	

SAMPLE DUPLICATE: 1237496

Parameter	Units	40122298021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	234	250	7	5	R1

SAMPLE DUPLICATE: 1237497

Parameter	Units	40122575002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1940	1990	3	5	

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**QUALITY CONTROL DATA**

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

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QC Batch:	WET/23417	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	40122298001, 40122298002, 40122298003, 40122298004, 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013, 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019, 40122298020		

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SAMPLE DUPLICATE: 1235211

Parameter	Units	40122298001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	6.1	6.1	0	5	H6

SAMPLE DUPLICATE: 1235212

Parameter	Units	40122298003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.3	7.4	1	5	H6

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### QUALITY CONTROL DATA

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

QC Batch: WET/23418 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 40122298021, 40122298022, 40122298023

SAMPLE DUPLICATE: 1235213

Parameter	Units	40122330002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.5	7.6	1	5	H6

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### QUALITY CONTROL DATA

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

QC Batch: WETA/30663 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved  
Associated Lab Samples: 40122298001, 40122298002, 40122298003, 40122298004, 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013

METHOD BLANK: 1237130 Matrix: Water  
Associated Lab Samples: 40122298001, 40122298002, 40122298003, 40122298004, 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	10/12/15 19:56	

LABORATORY CONTROL SAMPLE: 1237131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1237132 1237133

Parameter	Units	40122259006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	41.0	100	100	134	134	93	93	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1237134 1237135

Parameter	Units	40122298013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	3.6J	20	20	21.7	21.7	90	91	90-110	0	20	

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**QUALITY CONTROL DATA**

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

QC Batch: WETA/30667 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved  
Associated Lab Samples: 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019, 40122298020, 40122298021, 40122298022, 40122298023

METHOD BLANK: 1237270 Matrix: Water  
Associated Lab Samples: 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019, 40122298020, 40122298021, 40122298022, 40122298023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	4.0	10/13/15 16:53	

LABORATORY CONTROL SAMPLE: 1237271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.3	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1237272 1237273

Parameter	Units	40122298014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	24.7	20	20	45.5	45.9	104	106	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1237274 1237275

Parameter	Units	40122310010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	90.8	100	100	190	188	99	97	90-110	1	20	

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### QUALITY CONTROL DATA

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

QC Batch: WETA/30653 Analysis Method: EPA 310.2  
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
 Associated Lab Samples: 40122298001, 40122298002, 40122298003, 40122298004

METHOD BLANK: 1235898 Matrix: Water  
 Associated Lab Samples: 40122298001, 40122298002, 40122298003, 40122298004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	10/12/15 11:38	

LABORATORY CONTROL SAMPLE: 1235899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	103	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1235900 1235901

Parameter	Units	40122228005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	515	500	500	1030	1000	102	98	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1235902 1235903

Parameter	Units	40122298004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	630	500	500	1140	1140	103	102	90-110	0	20	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 14F777.14 4Q GROUNDWATER 2015  
Pace Project No.: 40122298

QC Batch: WETA/30664 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity, Dissolved  
Associated Lab Samples: 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013, 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019, 40122298020, 40122298021, 40122298022, 40122298023

METHOD BLANK: 1237194 Matrix: Water  
Associated Lab Samples: 40122298005, 40122298006, 40122298007, 40122298008, 40122298009, 40122298010, 40122298011, 40122298012, 40122298013, 40122298014, 40122298015, 40122298016, 40122298017, 40122298018, 40122298019, 40122298020, 40122298021, 40122298022, 40122298023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	<8.6	20.0	10/12/15 13:23	

LABORATORY CONTROL SAMPLE: 1237195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1237196 1237197

Parameter	Units	40122298014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	40.9	100	100	142	141	101	100	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1237198 1237199

Parameter	Units	40122310001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO <sub>3</sub> , Dissolved	mg/L	632	500	500	1110	1110	95	96	90-110	1	20	

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

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## QUALIFIERS

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor 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

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

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

R1 RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40122298001	MW-1000R-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298002	MW-1000PR-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298003	MW-1010P-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298004	MW-1013-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298005	MW-1013A-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298006	MW-1013B-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298007	MW-1013C-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298008	MW-1014-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298009	MW-1014A-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298010	MW-1014B-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298011	MW-1014C-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298012	MW-1004-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298013	MW-1004P-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298014	MW-1004S-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298015	MW-1015A-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298016	MW-1015B-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298017	MW-1002-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298018	MW-1002G-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298019	MW-1005-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298020	MW-1005S-2015_10	EPA 3010	MPRP/12813	EPA 6020	ICPM/5959
40122298021	MW-1005P-2015_10	EPA 3010	MPRP/12814	EPA 6020	ICPM/5960
40122298022	MW-DUP-2015_10	EPA 3010	MPRP/12814	EPA 6020	ICPM/5960
40122298023	BACKFILL-DUP-2015_10	EPA 3010	MPRP/12814	EPA 6020	ICPM/5960
40122298001	MW-1000R-2015_10	EPA 120.1	WET/23423		
40122298002	MW-1000PR-2015_10	EPA 120.1	WET/23423		
40122298003	MW-1010P-2015_10	EPA 120.1	WET/23423		
40122298004	MW-1013-2015_10	EPA 120.1	WET/23423		
40122298005	MW-1013A-2015_10	EPA 120.1	WET/23423		
40122298006	MW-1013B-2015_10	EPA 120.1	WET/23423		
40122298007	MW-1013C-2015_10	EPA 120.1	WET/23423		
40122298008	MW-1014-2015_10	EPA 120.1	WET/23423		
40122298009	MW-1014A-2015_10	EPA 120.1	WET/23423		
40122298010	MW-1014B-2015_10	EPA 120.1	WET/23423		
40122298011	MW-1014C-2015_10	EPA 120.1	WET/23423		
40122298012	MW-1004-2015_10	EPA 120.1	WET/23423		
40122298013	MW-1004P-2015_10	EPA 120.1	WET/23423		
40122298014	MW-1004S-2015_10	EPA 120.1	WET/23423		
40122298015	MW-1015A-2015_10	EPA 120.1	WET/23423		
40122298016	MW-1015B-2015_10	EPA 120.1	WET/23423		
40122298017	MW-1002-2015_10	EPA 120.1	WET/23423		
40122298018	MW-1002G-2015_10	EPA 120.1	WET/23423		
40122298019	MW-1005-2015_10	EPA 120.1	WET/23423		
40122298020	MW-1005S-2015_10	EPA 120.1	WET/23425		
40122298021	MW-1005P-2015_10	EPA 120.1	WET/23425		
40122298022	MW-DUP-2015_10	EPA 120.1	WET/23425		
40122298023	BACKFILL-DUP-2015_10	EPA 120.1	WET/23425		
40122298001	MW-1000R-2015_10	SM 2540C	WET/23411		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40122298002	MW-1000PR-2015_10	SM 2540C	WET/23411		
40122298003	MW-1010P-2015_10	SM 2540C	WET/23411		
40122298004	MW-1013-2015_10	SM 2540C	WET/23411		
40122298005	MW-1013A-2015_10	SM 2540C	WET/23411		
40122298006	MW-1013B-2015_10	SM 2540C	WET/23411		
40122298007	MW-1013C-2015_10	SM 2540C	WET/23411		
40122298008	MW-1014-2015_10	SM 2540C	WET/23411		
40122298009	MW-1014A-2015_10	SM 2540C	WET/23411		
40122298010	MW-1014B-2015_10	SM 2540C	WET/23411		
40122298011	MW-1014C-2015_10	SM 2540C	WET/23411		
40122298012	MW-1004-2015_10	SM 2540C	WET/23411		
40122298013	MW-1004P-2015_10	SM 2540C	WET/23411		
40122298014	MW-1004S-2015_10	SM 2540C	WET/23411		
40122298015	MW-1015A-2015_10	SM 2540C	WET/23411		
40122298016	MW-1015B-2015_10	SM 2540C	WET/23411		
40122298017	MW-1002-2015_10	SM 2540C	WET/23411		
40122298018	MW-1002G-2015_10	SM 2540C	WET/23411		
40122298019	MW-1005-2015_10	SM 2540C	WET/23411		
40122298020	MW-1005S-2015_10	SM 2540C	WET/23411		
40122298021	MW-1005P-2015_10	SM 2540C	WET/23448		
40122298022	MW-DUP-2015_10	SM 2540C	WET/23448		
40122298023	BACKFILL-DUP-2015_10	SM 2540C	WET/23448		
40122298001	MW-1000R-2015_10	SM 4500-H+B	WET/23417		
40122298002	MW-1000PR-2015_10	SM 4500-H+B	WET/23417		
40122298003	MW-1010P-2015_10	SM 4500-H+B	WET/23417		
40122298004	MW-1013-2015_10	SM 4500-H+B	WET/23417		
40122298005	MW-1013A-2015_10	SM 4500-H+B	WET/23417		
40122298006	MW-1013B-2015_10	SM 4500-H+B	WET/23417		
40122298007	MW-1013C-2015_10	SM 4500-H+B	WET/23417		
40122298008	MW-1014-2015_10	SM 4500-H+B	WET/23417		
40122298009	MW-1014A-2015_10	SM 4500-H+B	WET/23417		
40122298010	MW-1014B-2015_10	SM 4500-H+B	WET/23417		
40122298011	MW-1014C-2015_10	SM 4500-H+B	WET/23417		
40122298012	MW-1004-2015_10	SM 4500-H+B	WET/23417		
40122298013	MW-1004P-2015_10	SM 4500-H+B	WET/23417		
40122298014	MW-1004S-2015_10	SM 4500-H+B	WET/23417		
40122298015	MW-1015A-2015_10	SM 4500-H+B	WET/23417		
40122298016	MW-1015B-2015_10	SM 4500-H+B	WET/23417		
40122298017	MW-1002-2015_10	SM 4500-H+B	WET/23417		
40122298018	MW-1002G-2015_10	SM 4500-H+B	WET/23417		
40122298019	MW-1005-2015_10	SM 4500-H+B	WET/23417		
40122298020	MW-1005S-2015_10	SM 4500-H+B	WET/23417		
40122298021	MW-1005P-2015_10	SM 4500-H+B	WET/23418		
40122298022	MW-DUP-2015_10	SM 4500-H+B	WET/23418		
40122298023	BACKFILL-DUP-2015_10	SM 4500-H+B	WET/23418		
40122298001	MW-1000R-2015_10	EPA 300.0	WETA/30663		
40122298002	MW-1000PR-2015_10	EPA 300.0	WETA/30663		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 14F777.14 4Q GROUNDWATER 2015

Pace Project No.: 40122298

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40122298003	MW-1010P-2015_10	EPA 300.0	WETA/30663		
40122298004	MW-1013-2015_10	EPA 300.0	WETA/30663		
40122298005	MW-1013A-2015_10	EPA 300.0	WETA/30663		
40122298006	MW-1013B-2015_10	EPA 300.0	WETA/30663		
40122298007	MW-1013C-2015_10	EPA 300.0	WETA/30663		
40122298008	MW-1014-2015_10	EPA 300.0	WETA/30663		
40122298009	MW-1014A-2015_10	EPA 300.0	WETA/30663		
40122298010	MW-1014B-2015_10	EPA 300.0	WETA/30663		
40122298011	MW-1014C-2015_10	EPA 300.0	WETA/30663		
40122298012	MW-1004-2015_10	EPA 300.0	WETA/30663		
40122298013	MW-1004P-2015_10	EPA 300.0	WETA/30663		
40122298014	MW-1004S-2015_10	EPA 300.0	WETA/30667		
40122298015	MW-1015A-2015_10	EPA 300.0	WETA/30667		
40122298016	MW-1015B-2015_10	EPA 300.0	WETA/30667		
40122298017	MW-1002-2015_10	EPA 300.0	WETA/30667		
40122298018	MW-1002G-2015_10	EPA 300.0	WETA/30667		
40122298019	MW-1005-2015_10	EPA 300.0	WETA/30667		
40122298020	MW-1005S-2015_10	EPA 300.0	WETA/30667		
40122298021	MW-1005P-2015_10	EPA 300.0	WETA/30667		
40122298022	MW-DUP-2015_10	EPA 300.0	WETA/30667		
40122298023	BACKFILL-DUP-2015_10	EPA 300.0	WETA/30667		
40122298001	MW-1000R-2015_10	EPA 310.2	WETA/30653		
40122298002	MW-1000PR-2015_10	EPA 310.2	WETA/30653		
40122298003	MW-1010P-2015_10	EPA 310.2	WETA/30653		
40122298004	MW-1013-2015_10	EPA 310.2	WETA/30653		
40122298005	MW-1013A-2015_10	EPA 310.2	WETA/30664		
40122298006	MW-1013B-2015_10	EPA 310.2	WETA/30664		
40122298007	MW-1013C-2015_10	EPA 310.2	WETA/30664		
40122298008	MW-1014-2015_10	EPA 310.2	WETA/30664		
40122298009	MW-1014A-2015_10	EPA 310.2	WETA/30664		
40122298010	MW-1014B-2015_10	EPA 310.2	WETA/30664		
40122298011	MW-1014C-2015_10	EPA 310.2	WETA/30664		
40122298012	MW-1004-2015_10	EPA 310.2	WETA/30664		
40122298013	MW-1004P-2015_10	EPA 310.2	WETA/30664		
40122298014	MW-1004S-2015_10	EPA 310.2	WETA/30664		
40122298015	MW-1015A-2015_10	EPA 310.2	WETA/30664		
40122298016	MW-1015B-2015_10	EPA 310.2	WETA/30664		
40122298017	MW-1002-2015_10	EPA 310.2	WETA/30664		
40122298018	MW-1002G-2015_10	EPA 310.2	WETA/30664		
40122298019	MW-1005-2015_10	EPA 310.2	WETA/30664		
40122298020	MW-1005S-2015_10	EPA 310.2	WETA/30664		
40122298021	MW-1005P-2015_10	EPA 310.2	WETA/30664		
40122298022	MW-DUP-2015_10	EPA 310.2	WETA/30664		
40122298023	BACKFILL-DUP-2015_10	EPA 310.2	WETA/30664		

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**Fourth Quarter 2015  
Environmental Monitoring Results**

**TAD Readable**

**TAD Exceedances**

**Chain of Custody Documents**

**.csv Excel Data File**

Facility Name	Location	Well ID	Date	Parameter	Code	Result	Units	QC_I	QC_II	QC_III	LOD	LOQ	RL	no_WL_reason
Flambeau	MW-1000PR	802	151006	Temperature	00010	9.08	deg c							
Flambeau	MW-1000PR	802	151006	Redox Potential	00090	101.2	mV							
Flambeau	MW-1000PR	802	151006	Specific Conductance	00094	822	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1000PR	802	151006	pH	00400	6.34	s.u.							
Flambeau	MW-1000PR	802	151006	pH	00400	6.4	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1000PR	802	151006	Conductivity	00402	671	umhos/cm @25 C							
Flambeau	MW-1000PR	802	151006	Sulfate	00946	68.3	mg/L	M	M	M	20	40	40	
Flambeau	MW-1000PR	802	151006	Arsenic	01000	6.8	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1000PR	802	151006	Copper	01040	2.7	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1000PR	802	151006	Iron	01046	0.642	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1000PR	802	151006	Manganese	01056	2150	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1000PR	802	151005	LEVELS	04189	1087.28								
Flambeau	MW-1000PR	802	151006	Hardness	22413	434	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1000PR	802	151006	Alkalinity as CaCO3	39036	225	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1000PR	802	151006	Total Dissolved Solids	70295	534	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1001	803	151005	LEVELS	04189	1119.91								
Flambeau	MW-1001G	804	151005	LEVELS	04189	1118.66								
Flambeau	MW-1001P	805	151005	LEVELS	04189	1119.05								
Flambeau	MW-1002	806	151006	Temperature	00010	12.86	deg c							
Flambeau	MW-1002	806	151006	Redox Potential	00090	87.1	mV							
Flambeau	MW-1002	806	151006	Specific Conductance	00094	156	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1002	806	151006	Specific Conductance	00094	161	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1002	806	151006	pH	00400	6.4	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1002	806	151006	pH	00400	6.5	s.u.							
Flambeau	MW-1002	806	151006	pH	00400	6.4	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1002	806	151006	Conductivity	00402	151	umhos/cm @25 C							
Flambeau	MW-1002	806	151006	Sulfate	00946	4.6	mg/L	M	M	M	2	4	4	
Flambeau	MW-1002	806	151006	Sulfate	00946	4.5	mg/L	M	M	M	2	4	4	
Flambeau	MW-1002	806	151006	Arsenic	01000		ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1002	806	151006	Arsenic	01000	0.1	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1002	806	151006	Copper	01040	0.67	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1002	806	151006	Copper	01040	1.1	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1002	806	151006	Iron	01046		mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1002	806	151006	Iron	01046	0.0259	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1002	806	151006	Manganese	01056		ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1002	806	151006	Manganese	01056	0.37	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1002	806	151006	LEVELS	04189	1090.92								
Flambeau	MW-1002	806	151006	Hardness	22413	67.8	mg/L	M	M	M	0.15	5	5	

Facility Name	Location	Well ID	Date	Parameter	Code	Result	Units	QC I	QC II	QC III	LOD	LOQ	RL	no_WL_reason
Flambeau	MW-1002	806	151006	Hardness	22413	69	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1002	806	151006	Alkalinity as CaCO3	39036	61.2	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1002	806	151006	Alkalinity as CaCO3	39036	58.6	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1002	806	151006	Total Dissolved Solids	70295	96	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1002	806	151006	Total Dissolved Solids	70295	104	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1002G	807	151006	Temperature	00010	10.16	deg c							
Flambeau	MW-1002G	807	151006	Redox Potential	00090	118.5	mV							
Flambeau	MW-1002G	807	151006	Specific Conductance	00094	324	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1002G	807	151006	pH	00400	6.5	s.u.							
Flambeau	MW-1002G	807	151006	pH	00400	6.5	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1002G	807	151006	Conductivity	00402	298	umhos/cm @25 C							
Flambeau	MW-1002G	807	151006	Sulfate	00946	9.2	mg/L	M	M	M	2	4	4	
Flambeau	MW-1002G	807	151006	Arsenic	01000		ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1002G	807	151006	Copper	01040	0.35	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1002G	807	151006	Iron	01046		mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1002G	807	151006	Manganese	01056	0.23	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1002G	807	151006	LEVELS	04189	1090.83								
Flambeau	MW-1002G	807	151006	Hardness	22413	144	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1002G	807	151006	Alkalinity as CaCO3	39036	98.2	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1002G	807	151006	Total Dissolved Solids	70295	190	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1003	808	151005	LEVELS	04189	1110.98								
Flambeau	MW-1003P	809	151005	LEVELS	04189	1111.01								
Flambeau	MW-1004	810	151006	Temperature	00010	12.79	deg c							
Flambeau	MW-1004	810	151006	Redox Potential	00090	110.1	mV							
Flambeau	MW-1004	810	151006	Specific Conductance	00094	145	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1004	810	151006	pH	00400	6.06	s.u.							
Flambeau	MW-1004	810	151006	pH	00400	6.1	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1004	810	151006	Conductivity	00402	136	umhos/cm @25 C							
Flambeau	MW-1004	810	151006	Sulfate	00946	20.5	mg/L	M	M	M	2	4	4	
Flambeau	MW-1004	810	151006	Arsenic	01000		ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1004	810	151006	Copper	01040	4.2	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1004	810	151006	Iron	01046		mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1004	810	151006	Manganese	01056	1.4	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1004	810	151005	LEVELS	04189	1107.07								
Flambeau	MW-1004	810	151006	Hardness	22413	58.9	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1004	810	151006	Alkalinity as CaCO3	39036	41.3	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1004	810	151006	Total Dissolved Solids	70295	92	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1004S	811	151006	Temperature	00010	9.72	deg c							

Facility Name	Location	Well ID	Date	Parameter	Code	Result	Units	QC_I	QC_II	QC_III	LOD	LOQ	RL	no_WL_reason
Flambeau	MW-1004S	811	151006	Redox Potential	00090	118.8	mV							
Flambeau	MW-1004S	811	151006	Specific Conductance	00094	160	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1004S	811	151006	pH	00400	6.07	s.u.							
Flambeau	MW-1004S	811	151006	pH	00400	6.1	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1004S	811	151006	Conductivity	00402	155	umhos/cm @25 C							
Flambeau	MW-1004S	811	151006	Sulfate	00946	24.7	mg/L	M	M	M	2	4	4	
Flambeau	MW-1004S	811	151006	Arsenic	01000	0.13	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1004S	811	151006	Copper	01040	1.8	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1004S	811	151006	Iron	01046		mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1004S	811	151006	Manganese	01056	0.73	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1004S	811	151005	LEVELS	04189	1107.12								
Flambeau	MW-1004S	811	151006	Hardness	22413	67.2	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1004S	811	151006	Alkalinity as CaCO3	39036	40.9	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1004S	811	151006	Total Dissolved Solids	70295	106	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1004P	812	151006	Comment - Sample Odor	00001	0	None							
Flambeau	MW-1004P	812	151006	Temperature	00010	8.94	deg c							
Flambeau	MW-1004P	812	151006	Redox Potential	00090	-8.4	mV							
Flambeau	MW-1004P	812	151006	Specific Conductance	00094	318	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1004P	812	151006	pH	00400	7.2	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1004P	812	151006	pH	00400	7.23	s.u.							
Flambeau	MW-1004P	812	151006	Conductivity	00402	318	umhos/cm @25 C							
Flambeau	MW-1004P	812	151006	Sulfate	00946	3.6	mg/L	M	M	M	2	4	4	
Flambeau	MW-1004P	812	151006	Arsenic	01000	0.46	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1004P	812	151006	Copper	01040		ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1004P	812	151006	Iron	01046	0.418	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1004P	812	151006	Manganese	01056	149	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1004P	812	151005	LEVELS	04189	1105.84								
Flambeau	MW-1004P	812	151006	Hardness	22413	156	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1004P	812	151006	Alkalinity as CaCO3	39036	167	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1004P	812	151006	Total Dissolved Solids	70295	160	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1005	813	151006	Comment - Sample Color	00002	0	None							
Flambeau	MW-1005	813	151006	Comment - Sample Turbi	00003	0	None							
Flambeau	MW-1005	813	151006	Temperature	00010	11.49	deg c							
Flambeau	MW-1005	813	151006	Redox Potential	00090	75.7	mV							
Flambeau	MW-1005	813	151006	Specific Conductance	00094	1490	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1005	813	151006	pH	00400	5.83	s.u.							
Flambeau	MW-1005	813	151006	pH	00400	5.9	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1005	813	151006	Conductivity	00402	1319	umhos/cm @25 C							

Facility Name	Location	Well ID	Date	Parameter	Code	Result	Units	QC I	QC II	QC III	LOD	LOQ	RL	no_WL_reason
Flambeau	MW-1005	813	151006	Sulfate	00946	14.9	mg/L	M	M	M	2	4	4	
Flambeau	MW-1005	813	151006	Arsenic	01000	1.2	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1005	813	151006	Copper	01040	1.6	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1005	813	151006	Iron	01046	16.2	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1005	813	151006	Manganese	01056	540	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1005	813	151006	LEVELS	04189	1140.26								
Flambeau	MW-1005	813	151006	Hardness	22413	418	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1005	813	151006	Alkalinity as CaCO3	39036	57.3	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1005	813	151006	Total Dissolved Solids	70295	1070	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1005S	814	151006	Comment - Sample Color	00002	0	None							
Flambeau	MW-1005S	814	151006	Temperature	00010	8.65	deg c							
Flambeau	MW-1005S	814	151006	Redox Potential	00090	-41.6	mV							
Flambeau	MW-1005S	814	151006	Specific Conductance	00094	360	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1005S	814	151006	pH	00400	6.99	s.u.							
Flambeau	MW-1005S	814	151006	pH	00400	7	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1005S	814	151006	Conductivity	00402	347	umhos/cm @25 C							
Flambeau	MW-1005S	814	151006	Sulfate	00946	2.3	mg/L	M	M	M	2	4	4	
Flambeau	MW-1005S	814	151006	Arsenic	01000	2.4	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1005S	814	151006	Copper	01040		ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1005S	814	151006	Iron	01046	4.29	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1005S	814	151006	Manganese	01056	237	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1005S	814	151006	LEVELS	04189	1140.07								
Flambeau	MW-1005S	814	151006	Hardness	22413	177	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1005S	814	151006	Alkalinity as CaCO3	39036	179	mg/L	M	M	M	17.3	40	40	
Flambeau	MW-1005S	814	151006	Total Dissolved Solids	70295	198	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1005P	815	151006	Temperature	00010	9.49	deg c							
Flambeau	MW-1005P	815	151006	Redox Potential	00090	11.1	mV							
Flambeau	MW-1005P	815	151006	Specific Conductance	00094	485	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1005P	815	151006	pH	00400	7.02	s.u.							
Flambeau	MW-1005P	815	151006	pH	00400	7.2	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1005P	815	151006	Conductivity	00402	466	umhos/cm @25 C							
Flambeau	MW-1005P	815	151006	Sulfate	00946		mg/L	M	M	M	2	4	4	
Flambeau	MW-1005P	815	151006	Arsenic	01000	0.32	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1005P	815	151006	Copper	01040	0.32	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1005P	815	151006	Iron	01046	1.07	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1005P	815	151006	Manganese	01056	71.6	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1005P	815	151006	LEVELS	04189	1139.76								
Flambeau	MW-1005P	815	151006	Hardness	22413	240	mg/L	M	M	M	1.5	50	50	

Facility Name	Location	Well ID	Date	Parameter	Code	Result	Units	QC I	QC II	QC III	LOD	LOQ	RL	no_WL_reason
Flambeau	MW-1005P	815	151006	Alkalinity as CaCO3	39036	251	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1005P	815	151006	Total Dissolved Solids	70295	234	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1010P	816	151006	Comment - Sample Odor	00001	0	None							
Flambeau	MW-1010P	816	151006	Temperature	00010	8.67	deg c							
Flambeau	MW-1010P	816	151006	Redox Potential	00090	101.9	mV							
Flambeau	MW-1010P	816	151006	Specific Conductance	00094	367	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1010P	816	151006	pH	00400	7.3	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1010P	816	151006	pH	00400	7.45	s.u.							
Flambeau	MW-1010P	816	151006	Conductivity	00402	351	umhos/cm @25 C							
Flambeau	MW-1010P	816	151006	Sulfate	00946	24.4	mg/L	M	M	M	2	4	4	
Flambeau	MW-1010P	816	151006	Arsenic	01000	23	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1010P	816	151006	Copper	01040	0.55	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1010P	816	151006	Iron	01046		mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1010P	816	151006	Manganese	01056	83.4	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1010P	816	151005	LEVELS	04189	1087.06								
Flambeau	MW-1010P	816	151006	Hardness	22413	185	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1010P	816	151006	Alkalinity as CaCO3	39036	161	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1010P	816	151006	Total Dissolved Solids	70295	188	mg/L	M	M	M	8.7	20	20	
Flambeau	PZ-1006	817	151005	LEVELS	00006	0								Dry
Flambeau	PZ-1006G	818	151005	LEVELS	04189	1137.5								
Flambeau	PZ-1006S	819	151005	LEVELS	04189	1136.34								
Flambeau	PZ-1007S	820	151005	LEVELS	04189	1117.21								
Flambeau	PZ-1008	821	151005	LEVELS	04189	1138.57								
Flambeau	PZ-1008G	822	151005	LEVELS	04189	1138.91								
Flambeau	PZ-1009	823	151005	LEVELS	04189	1143.96								
Flambeau	PZ-1009G	824	151005	LEVELS	04189	1144.08								
Flambeau	PZ-1011	825	151005	LEVELS	04189	1138.68								
Flambeau	PZ-1012	826	151005	LEVELS	04189	1108.62								
Flambeau	PZ-R1	827	151005	LEVELS	04189	1089.25								
Flambeau	PZ-S1	828	151005	LEVELS	04189	1095.92								
Flambeau	PZ-S3	829	151005	LEVELS	04189	1124.95								
Flambeau	SANDPOINT	830	151005	LEVELS	04189	1085.09								
Flambeau	ST-9-23	831	151005	LEVELS	04189	1126.38								
Flambeau	ST-9-23A	832	151005	LEVELS	04189	1126.57								
Flambeau	ST-9-26	833	151005	LEVELS	04189	1117.6								
Flambeau	OW-7	836	151005	LEVELS	04189	1116.29								
Flambeau	OW-10	837	151005	LEVELS	04189	1094.44								
Flambeau	OW-39	838	151005	LEVELS	04189	1100.98								

Facility Name	Location	Well ID	Date	Parameter	Code	Result	Units	QC_I	QC_II	QC_III	LOD	LOQ	RL	no_WL_reason
Flambeau	OW-42	839	151005	LEVELS	04189	1101.62								
Flambeau	OW-43	840	151005	LEVELS	04189	1087.56								
Flambeau	MW-1000R	860	151006	Temperature	00010	10.49	deg c							
Flambeau	MW-1000R	860	151006	Redox Potential	00090	135.9	mV							
Flambeau	MW-1000R	860	151006	Specific Conductance	00094	696	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1000R	860	151006	pH	00400	6.08	s.u.							
Flambeau	MW-1000R	860	151006	pH	00400	6.1	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1000R	860	151006	Conductivity	00402	682	umhos/cm @25 C							
Flambeau	MW-1000R	860	151006	Sulfate	00946	69.2	mg/L	M	M	M	10	20	20	
Flambeau	MW-1000R	860	151006	Arsenic	01000	0.29	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1000R	860	151006	Copper	01040	89.7	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1000R	860	151006	Iron	01046	0.0183	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1000R	860	151006	Manganese	01056	10600	ug/L	M	M	M	1.8	10	10	
Flambeau	MW-1000R	860	151005	LEVELS	04189	1088.48								
Flambeau	MW-1000R	860	151006	Hardness	22413	336	mg/L	M	M	M	1.5	50	50	
Flambeau	MW-1000R	860	151006	Alkalinity as CaCO3	39036	247	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1000R	860	151006	Total Dissolved Solids	70295	450	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1013	861	151006	Temperature	00010	11.95	deg c							
Flambeau	MW-1013	861	151006	Redox Potential	00090	59.4	mV							
Flambeau	MW-1013	861	151006	Specific Conductance	00094	1140	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1013	861	151006	pH	00400	6.05	s.u.							
Flambeau	MW-1013	861	151006	pH	00400	6.3	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1013	861	151006	Conductivity	00402	1106	umhos/cm @25 C							
Flambeau	MW-1013	861	151006	Sulfate	00946	24.9	mg/L	M	M	M	10	20	20	
Flambeau	MW-1013	861	151006	Arsenic	01000	0.63	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1013	861	151006	Copper	01040	7.6	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1013	861	151006	Iron	01046	4.57	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1013	861	151006	Manganese	01056	26200	ug/L	M	M	M	17.9	100	100	
Flambeau	MW-1013	861	151005	LEVELS	04189	1115.02								
Flambeau	MW-1013	861	151006	Hardness	22413	568	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1013	861	151006	Alkalinity as CaCO3	39036	630	mg/L	M	M	M	43.2	100	100	
Flambeau	MW-1013	861	151006	Total Dissolved Solids	70295	692	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1013A	862	151006	Temperature	00010	9.46	deg c							
Flambeau	MW-1013A	862	151006	Redox Potential	00090	47.2	mV							
Flambeau	MW-1013A	862	151006	Specific Conductance	00094	960	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1013A	862	151006	pH	00400	6.6	s.u.							
Flambeau	MW-1013A	862	151006	pH	00400	6.6	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1013A	862	151006	Conductivity	00402	970	umhos/cm @25 C							

Facility Name	Location	Well ID	Date	Parameter	Code	Result	Units	QC I	QC II	QC III	LOD	LOQ	RL	no WL reason
Flambeau	MW-1013A	862	151006	Sulfate	00946	163	mg/L	M	M	M	20	40	40	
Flambeau	MW-1013A	862	151006	Arsenic	01000	0.26	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1013A	862	151006	Copper	01040	0.47	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1013A	862	151006	Iron	01046	0.0547	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1013A	862	151006	Manganese	01056	4330	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1013A	862	151005	LEVELS	04189	1098.88								
Flambeau	MW-1013A	862	151006	Hardness	22413	468	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1013A	862	151006	Alkalinity as CaCO3	39036	353	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1013A	862	151006	Total Dissolved Solids	70295	586	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1013B	863	151006	Temperature	00010	9.71	deg c							
Flambeau	MW-1013B	863	151006	Redox Potential	00090	135.5	mV							
Flambeau	MW-1013B	863	151006	Specific Conductance	00094	3380	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1013B	863	151006	pH	00400	6.14	s.u.							
Flambeau	MW-1013B	863	151006	pH	00400	6.3	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1013B	863	151006	Conductivity	00402	3197	umhos/cm @25 C							
Flambeau	MW-1013B	863	151006	Sulfate	00946	1600	mg/L	M	M	M	100	200	200	
Flambeau	MW-1013B	863	151006	Arsenic	01000	1	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1013B	863	151006	Copper	01040	510	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1013B	863	151006	Iron	01046	0.0632	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1013B	863	151006	Manganese	01056	30800	ug/L	M	M	M	17.9	100	100	
Flambeau	MW-1013B	863	151005	LEVELS	04189	1099.29								
Flambeau	MW-1013B	863	151006	Hardness	22413	2030	mg/L	M	M	M	15	500	500	
Flambeau	MW-1013B	863	151006	Alkalinity as CaCO3	39036	523	mg/L	M	M	M	43.2	100	100	
Flambeau	MW-1013B	863	151006	Total Dissolved Solids	70295	2970	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1013C	864	151006	Temperature	00010	10.28	deg c							
Flambeau	MW-1013C	864	151006	Redox Potential	00090	60.1	mV							
Flambeau	MW-1013C	864	151006	Specific Conductance	00094	3320	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1013C	864	151006	pH	00400	6.37	s.u.							
Flambeau	MW-1013C	864	151006	pH	00400	6.4	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1013C	864	151006	Conductivity	00402	3174	umhos/cm @25 C							
Flambeau	MW-1013C	864	151006	Sulfate	00946	1550	mg/L	M	M	M	200	400	400	
Flambeau	MW-1013C	864	151006	Arsenic	01000	21.2	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1013C	864	151006	Copper	01040	0.78	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1013C	864	151006	Iron	01046	13.7	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1013C	864	151006	Manganese	01056	9600	ug/L	M	M	M	17.9	100	100	
Flambeau	MW-1013C	864	151005	LEVELS	04189	1101.66								
Flambeau	MW-1013C	864	151006	Hardness	22413	1940	mg/L	M	M	M	15	500	500	
Flambeau	MW-1013C	864	151006	Alkalinity as CaCO3	39036	522	mg/L	M	M	M	17.3	40	40	



Facility Name	Location	Well ID	Date	Parameter	Code	Result	Units	QC_I	QC_II	QC_III	LOD	LOQ	RL	no_WL_reason
Flambeau	MW-1013C	864	151006	Total Dissolved Solids	70295	2840	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1014	865	151006	Temperature	00010	9.24	deg c							
Flambeau	MW-1014	865	151006	Redox Potential	00090	136.3	mV							
Flambeau	MW-1014	865	151006	Specific Conductance	00094	737	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1014	865	151006	pH	00400	6.26	s.u.							
Flambeau	MW-1014	865	151006	pH	00400	6.4	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1014	865	151006	Conductivity	00402	710	umhos/cm @25 C							
Flambeau	MW-1014	865	151006	Sulfate	00946	128	mg/L	M	M	M	20	40	40	
Flambeau	MW-1014	865	151006	Arsenic	01000		ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1014	865	151006	Copper	01040	5.2	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1014	865	151006	Iron	01046		mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1014	865	151006	Manganese	01056	455	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1014	865	151005	LEVELS	04189	1124.02								
Flambeau	MW-1014	865	151006	Hardness	22413	332	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1014	865	151006	Alkalinity as CaCO3	39036	194	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1014	865	151006	Total Dissolved Solids	70295	446	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1014A	866	151006	Temperature	00010	8.76	deg c							
Flambeau	MW-1014A	866	151006	Redox Potential	00090	152.2	mV							
Flambeau	MW-1014A	866	151006	Specific Conductance	00094	2370	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1014A	866	151006	pH	00400	6.46	s.u.							
Flambeau	MW-1014A	866	151006	pH	00400	6.6	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1014A	866	151006	Conductivity	00402	2190	umhos/cm @25 C							
Flambeau	MW-1014A	866	151006	Sulfate	00946	931	mg/L	M	M	M	40	80	80	
Flambeau	MW-1014A	866	151006	Arsenic	01000	0.81	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1014A	866	151006	Copper	01040	3.8	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1014A	866	151006	Iron	01046		mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1014A	866	151006	Manganese	01056	156	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1014A	866	151005	LEVELS	04189	1120.98								
Flambeau	MW-1014A	866	151006	Hardness	22413	1400	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1014A	866	151006	Alkalinity as CaCO3	39036	488	mg/L	M	M	M	43.2	100	100	
Flambeau	MW-1014A	866	151006	Total Dissolved Solids	70295	1790	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1014B	867	151006	Temperature	00010	8.83	deg c							
Flambeau	MW-1014B	867	151006	Redox Potential	00090	174.4	mV							
Flambeau	MW-1014B	867	151006	Specific Conductance	00094	2970	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1014B	867	151006	pH	00400	6.25	s.u.							
Flambeau	MW-1014B	867	151006	pH	00400	6.4	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1014B	867	151006	Conductivity	00402	2680	umhos/cm @25 C							
Flambeau	MW-1014B	867	151006	Sulfate	00946	1340	mg/L	M	M	M	200	400	400	

Facility Name	Location	Well ID	Date	Parameter	Code	Result	Units	QC_I	QC_II	QC_III	LOD	LOQ	RL	no_WL_reason
Flambeau	MW-1014B	867	151006	Arsenic	01000	1.3	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1014B	867	151006	Copper	01040	372	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1014B	867	151006	Iron	01046		mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1014B	867	151006	Manganese	01056	9970	ug/L	M	M	M	9	50	50	
Flambeau	MW-1014B	867	151005	LEVELS	04189	1117.33								
Flambeau	MW-1014B	867	151006	Hardness	22413	1730	mg/L	M	M	M	7.5	250	250	
Flambeau	MW-1014B	867	151006	Alkalinity as CaCO3	39036	512	mg/L	M	M	M	43.2	100	100	
Flambeau	MW-1014B	867	151006	Total Dissolved Solids	70295	2460	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1014C	868	151006	Temperature	00010	9.21	deg c							
Flambeau	MW-1014C	868	151006	Redox Potential	00090	57.1	mV							
Flambeau	MW-1014C	868	151006	Specific Conductance	00094	1100	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1014C	868	151006	Specific Conductance	00094	1070	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1014C	868	151006	pH	00400	6.56	s.u.							
Flambeau	MW-1014C	868	151006	pH	00400	6.6	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1014C	868	151006	pH	00400	6.7	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1014C	868	151006	Conductivity	00402	1026	umhos/cm @25 C							
Flambeau	MW-1014C	868	151006	Sulfate	00946	215	mg/L	M	M	M	10	20	20	
Flambeau	MW-1014C	868	151006	Sulfate	00946	214	mg/L	M	M	M	10	20	20	
Flambeau	MW-1014C	868	151006	Arsenic	01000	22.6	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1014C	868	151006	Arsenic	01000	22.8	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1014C	868	151006	Copper	01040	0.36	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1014C	868	151006	Copper	01040		ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1014C	868	151006	Iron	01046	4.64	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1014C	868	151006	Iron	01046	4.83	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1014C	868	151006	Manganese	01056	1610	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1014C	868	151006	Manganese	01056	1580	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1014C	868	151005	LEVELS	04189	1111.82								
Flambeau	MW-1014C	868	151006	Hardness	22413	545	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1014C	868	151006	Hardness	22413	528	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1014C	868	151006	Alkalinity as CaCO3	39036	273	mg/L	M	M	M	17.3	40	40	
Flambeau	MW-1014C	868	151006	Alkalinity as CaCO3	39036	274	mg/L	M	M	M	17.3	40	40	
Flambeau	MW-1014C	868	151006	Total Dissolved Solids	70295	676	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1014C	868	151006	Total Dissolved Solids	70295	670	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1015A	869	151006	Temperature	00010	8.7	deg c							
Flambeau	MW-1015A	869	151006	Redox Potential	00090	127.7	mV							
Flambeau	MW-1015A	869	151006	Specific Conductance	00094	194	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1015A	869	151006	pH	00400	6.8	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1015A	869	151006	pH	00400	6.98	s.u.							

Facility Name	Location	Well ID	Date	Parameter	Code	Result	Units	QC_I	QC_II	QC_III	LOD	LOQ	RL	no_WL_reason
Flambeau	MW-1015A	869	151006	Conductivity	00402	191	umhos/cm @25 C							
Flambeau	MW-1015A	869	151006	Sulfate	00946	8.7	mg/L	M	M	M	2	4	4	
Flambeau	MW-1015A	869	151006	Arsenic	01000		ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1015A	869	151006	Copper	01040	0.46	ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1015A	869	151006	Iron	01046	0.0101	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1015A	869	151006	Manganese	01056	6.8	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1015A	869	151005	LEVELS	04189	1087.57								
Flambeau	MW-1015A	869	151006	Hardness	22413	96.4	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1015A	869	151006	Alkalinity as CaCO3	39036	83.5	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1015A	869	151006	Total Dissolved Solids	70295	120	mg/L	M	M	M	8.7	20	20	
Flambeau	MW-1015B	870	151006	Temperature	00010	8	deg c							
Flambeau	MW-1015B	870	151006	Redox Potential	00090	11.3	mV							
Flambeau	MW-1015B	870	151006	Specific Conductance	00094	508	umhos/cm @25 C	M	M	M	1.5	10	10	
Flambeau	MW-1015B	870	151006	pH	00400	7.55	s.u.							
Flambeau	MW-1015B	870	151006	pH	00400	7.6	s.u.	M	F	M	0.01	0.1	0.1	
Flambeau	MW-1015B	870	151006	Conductivity	00402	621	umhos/cm @25 C							
Flambeau	MW-1015B	870	151006	Sulfate	00946	3.2	mg/L	M	M	M	2	4	4	
Flambeau	MW-1015B	870	151006	Arsenic	01000	0.16	ug/L	M	M	M	0.099	1	1	
Flambeau	MW-1015B	870	151006	Copper	01040		ug/L	M	M	M	0.26	1	1	
Flambeau	MW-1015B	870	151006	Iron	01046	0.138	mg/L	M	M	M	0.01	0.25	0.25	
Flambeau	MW-1015B	870	151006	Manganese	01056	34.3	ug/L	M	M	M	0.18	1	1	
Flambeau	MW-1015B	870	151005	LEVELS	04189	1087.61								
Flambeau	MW-1015B	870	151006	Hardness	22413	161	mg/L	M	M	M	0.15	5	5	
Flambeau	MW-1015B	870	151006	Alkalinity as CaCO3	39036	184	mg/L	M	M	M	8.6	20	20	
Flambeau	MW-1015B	870	151006	Total Dissolved Solids	70295	252	mg/L	M	M	M	8.7	20	20	

**Flambeau Mining Company**  
**License: 03180**  
**NR 140 Exceedances**  
**4Q 2015 GW Sampling**  
**10/6/2015**

Location	Sample Type	Arsenic	Arsenic	Copper	Iron	Manganese	Manganese	Sulfate	Sulfate
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L
		NR 140 PAL	NR 140 ES	NR 140 PAL	NR 140 ES	NR 140 PAL	NR 140 ES	NR 140 PAL	NR 140 ES
		1	10	130	300	25	50	125	250
MW-1000PR	N	6.8			642		2150		
MW-1000R	N						10600		
MW-1004P	N				418		149		
MW-1005	N	1.2			16200		540		
MW-1005P	N				1070		71.6		
MW-1005S	N	2.4			4290		237		
MW-1010P	N		23.0				83.4		
MW-1013	N				4570		26200		
MW-1013A	N						4330	163	
MW-1013B	N	1.0		510			30800		1600
MW-1013C	N		21.2		13700		9600		1550
MW-1014	N						455	128	
MW-1014A	N						156		931
MW-1014B	N	1.3		372			9970		1340
MW-1014C	N		22.6		4640		1610	215	
MW-1014C	FD		22.8		4830		1580	214	
MW-1015B	N					34.3			

(Please Print Clearly)

Company Name: Flambeau Mining Co.  
 Branch/Location: Ladysmith, WI  
 Project Contact: Sharon Kozicki  
 Phone: (920)-496-6737  
 Project Number: 14F777.14  
 Project Name: 4Q Groundwater 2015  
 Project State: Wisconsin  
 Sampled By (Print): Max Malmquist  
 Sampled By (Sign): Max Malmquist  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_

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

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

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-1000R-2015-10	10/6/15	750	GW
002	MW-1000PR-2015-10		800	
003	MW-1010P-2015-10		815	
004	MW-1013-2015-10		1035	
005	MW-1013A-2015-10		1040	
006	MW-1013B-2015-10		1050	
007	MW-1013C-2015-10		1025	
008	MW-1014-2015-10		825	
009	MW-1014A-2015-10		835	
010	MW-1014B-2015-10		845	
011	MW-1014C-2015-10		915	
012	MW-1004-2015-10		1120	
013	MW-1004P-2015-10		1100	

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: 10/3/15 815
Relinquished By: _____	Date/Time: 10/7/15 0905
Relinquished By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____

Received By: _____	Date/Time: 10/7/15 0815
Received By: _____	Date/Time: 10/7/15 0905
Received By: _____	Date/Time: _____
Received By: _____	Date/Time: _____

PACE Project No. 40122298

Receipt Temp = 2, 3 °C

Sample Receipt pH (OK) Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact



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)\*

Y/N	Y	Y	Y							
Pick Letter	D	A	A							
Analysis Requested										
As, Mn, Co, Fe Hardness	X	X	X							
pH, conductivity, TDS										
Alkalinity, sulfate										

Quote #: 40122298

Mail To Contact: Sharon Kozicki  
 Mail To Company: Foth  
 Mail To Address: 2121 Innovation Ct. DePere, WI 54115

Invoice To Contact: Same as above  
 Invoice To Company: Flambeau Mining Co  
 Invoice To Address: \_\_\_\_\_  
 Invoice To Phone: \_\_\_\_\_

CLIENT COMMENTS  
 LAB COMMENTS (Lab Use Only)  
 Profile #

3 - 250mL of MAD

(Please Print Clearly)

Company Name: **Flambeau Mining Co.**  
 Branch/Location: **Lady Smith, WI**  
 Project Contact: **Sharon Kozicki**  
 Phone: **(920) 496-6737**  
 Project Number: **14F777.14**  
 Project Name: **4Q Groundwater 2015**  
 Project State: **Wisconsin**  
 Sampled By (Print): **Max Malmqvist**  
 Sampled By (Sign): **Max Malmqvist**



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)\*

Y/N	Pick Letter	Matrix Codes	Analyses Requested
Y	D	A	As, Mn, Cu, Fe
Y	A	A	Hardness
Y	A	A	pH, conductivity, TDS
			Alkalinity Sulfate

Quote #: \_\_\_\_\_  
 Mail To Contact: **Sharon Kozicki**  
 Mail To Company: **Foth**  
 Mail To Address: **2121 Innovation Ct. De Pere, WI 54115**  
 Invoice To Contact: **Same as above**  
 Invoice To Company: **Flambeau Mining Co.**  
 Invoice To Address: \_\_\_\_\_  
 Invoice To Phone: \_\_\_\_\_  
 CLIENT COMMENTS: \_\_\_\_\_  
 LAB COMMENTS (Lab Use Only): **3-250ml p AAD**  
 Profile #: \_\_\_\_\_

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

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

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	MW-1004S-2015-10	10/4/15	1145	GW
015	MW-101SA-2015-10		1220	
016	MW-101SB-2015-10		1225	
017	MW-1002-2015-10		1250	
018	MW-1002G-2015-10		1305	
019	MW-1005-2015-10		1410	
020	MW-1005S-2015-10		1340	
021	MW-1003P-2015-10		1425	
022	MW-DUP-2015-10			
023	Backfill-DOP-2015-10			

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: <b>10/7/15 8:14</b>	Received By: <b>Jessie Pace</b> Date/Time: <b>10/7/15 0815</b>
Relinquished By: <b>Jessie Pace</b> Date/Time: <b>10/7/15 0905</b>	Received By: <b>Jessie Pace</b> Date/Time: <b>10/7/15 0905</b>
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____

PACE Project No. **40122298**  
 Receipt Temp = **2.3** °C  
 Sample Receipt pH **OK/Adjusted**  
 Cooler Custody Seal **Present / Not Present**  
 Intact / Not Intact



Sample Condition Upon Receipt

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

Project #:

WO#: 40122298



40122298

Client Name: Flambeau Mining

Courier: Fed Ex UPS Client Pace Other

Tracking #:

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

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

Cooler Temperature Uncorr: ROT ICorr: 2,3 Biological Tissue is Frozen: yes

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 10/7/15
Initials: EM

Comments:

Table with 15 rows for checklist items (Chain of Custody Present, Samples Arrived within Hold Time, etc.) and a large section for comments (row 13) containing chemical analysis results (HNO3, H2SO4, NaOH, NaOH + ZnAct).

Client Notification/ Resolution:

Person Contacted: Date/Time: If checked, see attached form for additional comments

Project Manager Review: [Signature] Date: 10-7-15

**Attachment 2**

**Certification of Fourth Quarter 2015  
Environmental Monitoring Results**



**Notice:** Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

**Instructions:**

- **Prepare one form for each license or monitoring ID.**
- **Please type or print legibly.**
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to:

GEMS Data Submittal Contact - WA/5  
Bureau of Waste Management  
Wisconsin Department of Natural Resources  
101 South Webster Street  
Madison WI 53707-7921

**Monitoring Data Submittal Information**

Name of entity submitting data (laboratory, consultant, facility owner):

Pace Analytical Services, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Steve Lehrke Phone: (920) 496-6894

E-mail: Stephen.lehrke@foth.com

Facility name:	License # / Monitoring ID	Facility ID [ FID ]	Actual sampling dates (e.g., July 2-6, 2003)
Flambeau Mining Company	03180	855034730	Oct. 6, 2015

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

Type of Data Submitted (Check all that apply)

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data   |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells  | <input type="checkbox"/> Air monitoring data   |
| <input type="checkbox"/> Leachate monitoring data                                     | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

**Certification**

**To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.**

Dave Cline VP, Flambeau Mining Co. (801) 204-2526  
Facility Representative Name (Print) Title (Area Code) Telephone No.

Dave Cline 12/23/15  
Signature Date

**FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.**

Found uploading problems on \_\_\_\_\_ Initials \_\_\_\_\_

Notified contact of problems on \_\_\_\_\_ Uploaded data successfully on \_\_\_\_\_

EDD format(s):  Diskette  CD (initial submittal and follow-up)  E-mail (follow-up only)  Other \_\_\_\_\_