ANNUAL and QUARTERLY GROUNDWATER MONITORING REPORT
WILL COUNTY GENERATING STATION

January 13, 2017

Ms. Andrea Rhodes
Illinois Environmental Protection Agency
Division of Public Water Supplies
MC#19
1021 North Grand Avenue East
Springfield, IL 62794-9276

VIA FEDERAL EXPRESS

Re: Annual and Quarterly Groundwater Monitoring Results – Fourth Quarter 2016
Will County Generating Station – Ash Impoundments
Compliance Commitment Agreement VN W-2012-00058; ID# 6283

Dear Ms. Rhodes:

The fourth quarterly groundwater sampling for 2016 has been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Will County Generating Station in accordance with the signed Compliance Commitment Agreement (CCA) with Illinois Environmental Protection Agency (IEPA) dated October 24, 2012. This quarterly monitoring report summarizes the results of the sampling. This report is also intended to serve as the Annual Report and includes historical data analysis/summaries.

Well Inspection and Sampling Procedures

The groundwater monitoring network around the ash ponds at the Will County facility consists of ten wells (MW-01 through MW-10) as shown on Figure 1. As part of sampling procedures, the integrity of all monitoring wells was inspected and water levels obtained using an electronic water level meter (see summary of water level discussion below). The wells were found in good condition with locked protector casings and the concrete surface seals were intact.

Groundwater samples were collected using the low-flow sampling technique. One duplicate sample from MW-08 was collected for quality assurance purposes. In addition, a deionized water trip blank was placed with the sample bottle shipment by the laboratory and accompanied the groundwater samples bottles from and back to the laboratory. The groundwater monitoring samples and the duplicate sample were analyzed for the inorganic compounds listed in Illinois Administrative Code (IAC) 620.410(a), 620.410(d)

Comp. Ex. 280Q

and 620.410(e), other than radium 226/228. The trip blank was analyzed for the volatile organic compounds (VOCs) listed in IAC 620.410(d).

Groundwater Flow Evaluation

Water level data from the most recent round of sampling along with historical water levels obtained from each well are summarized in Table 1. The water levels from the most recent sampling were used to generate a groundwater flow map which is provided on Figure 2. The water elevation data indicates a general westerly flow of groundwater. The flow conditions observed during this sampling are consistent with historical conditions reported for the site. Relative to an annual evaluation of groundwater levels, a historical hydrograph is presented in Attachment 1.

Summary of Analytical Data

A copy of the analytical data package is provided in Attachment 1. The field parameter and analytical data from the most recent sampling, along with the previous eight quarters of data, are summarized in Table 2. As stated above, the duplicate sample was collected from well MW-08. The duplicate values were within an acceptable range (below +/- 30%). All wells for which the sampling data reports a value above one or more groundwater standards are located within the area of the IEPA approved Groundwater Management Zone (GMZ) and Environmental Land Use Control (ELUC) areas.

Relative to an annual evaluation of the water chemistry data, time versus concentration curves are provided for each parameter analyzed in Attachment 3. The curves include the IEPA drinking water standard for reference, where appropriate. As noted previously, all wells for which the sampling data reports a value above one or more applicable groundwater standards are located within the area of the IEPA approved GMZ and ELUC.

If there are any questions, please contact either Sharene Shealey of NRG Energy at 815-372-4625 or Richard Gnat of KPRG at 262-781-0475.

Sincerely,

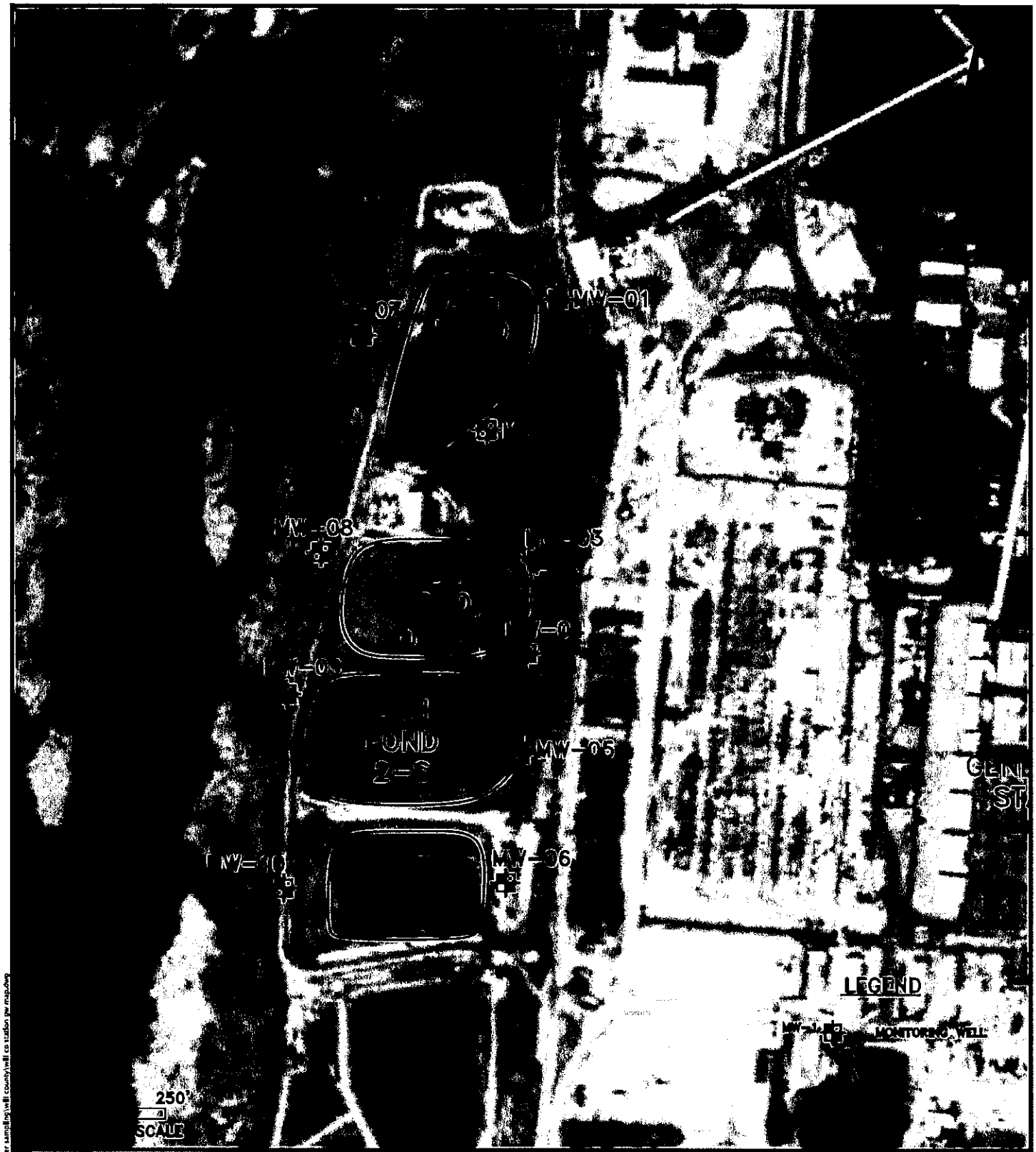
Scott Perry

Scott Perry
Station Manager

Attachments

cc: William Buscher, IEPA
Sharene Shealey, Midwest Generation
Joseph Kotas, Midwest Generation.
Richard Gnat, KPRG and Associates, Inc.

FIGURES



ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, Inc.

14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

SITE MAP

WILL COUNTY STATION
ROMEOVILLE, ILLINOIS

Scale: 1" = 250' | Date: January 23, 2015

KPRG Project No. 12313.3 | FIGURE 1

MW013-15-58592

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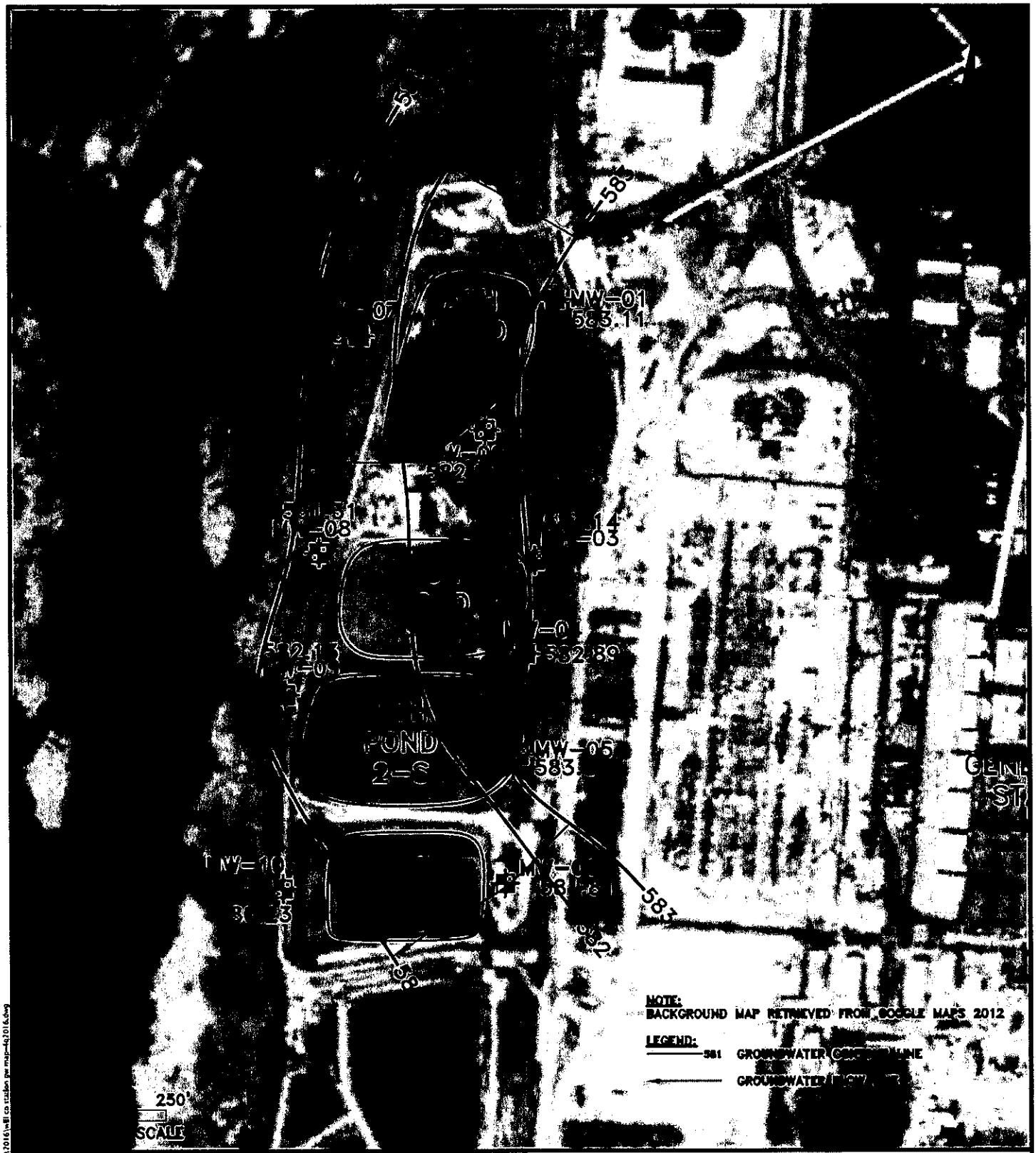

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GROUNDWATER CONTOUR MAP 11/2016

WILL COUNTY STATION
ROMEOVILLE, ILLINOIS

Scale: 1" = 250'	Date: December 19, 2016
KPRG Project No. 12313.3 MWG	FIGURE 2

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TABLES

Table 1. Groundwater Elevations - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing (TOC) Elevation (ft above MSL)	Ground Elevation (ft above MSL)	Groundwater Elevation (ft above MSL)	Sampling Groundwater Elevation (ft above MSL)	Bottom of Well Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Sampling Depth to Groundwater (ft below TOC)	Depth to Bottom of Well (ft below TOC)
MW-01	10/21/2014	592 95	589 81	583 21	583 20	570 95	9 74	9 75	22 00
	2/4/2015	592 95	589 81	583 12	583 12	570 95	9 83	9 83	22 00
	4/30/2015	592 95	589 81	583 19	583 21	570 95	9 76	9 74	22 00
	7/27/2015	592 95	589 81	583 09	583 08	570 95	9 86	9 87	22 00
	11/9/2015	592 95	589 81	583 12	583 12	570 95	9 83	9 83	22 00
	2/16/2016	592 95	589 93	583 22	583 21	570 95	9 73	9 74	22 00
	5/24/2016	592 95	589 93	583 20	583 17	570 95	9 75	9 78	22 00
	8/9/2016	592 95	589 93	583 09	583 06	570 95	9 86	9 89	22 00
	10/25/2016	592 95	589 93	583 11	583 24	570 95	9 84	9 71	22 00
MW-02	10/20/2014	593 99	590 62	583 11	583 10	568 62	10 88	10 89	25 37
	2/4/2015	593 99	590 62	582 89	582 88	568 62	11 10	11 11	25 37
	5/1/2015	593 99	590 62	583 02	583 02	568 62	10 97	10 97	25 37
	7/27/2015	593 99	590 62	582 89	582 89	568 62	11 10	11 10	25 37
	11/9/2015	593 99	590 62	582 89	582 87	568 62	11 10	11 12	25 37
	2/16/2016	594 00	590 66	583 08	583 01	568 63	10 92	10 99	25 37
	5/24/2016	594 00	590 66	583 07	583 03	568 63	10 93	10 97	25 37
	8/9/2016	594 00	590 66	582 85	582 77	568 63	11 15	11 23	25 37
	10/25/2016	594 00	590 66	582 87	583 09	568 63	11 13	10 91	25 37
MW-03	10/20/2014	593 51	590 50	583 30	583 29	573 74	10 21	10 22	19 77
	2/4/2015	593 51	590 50	583 17	583 00	573 74	10 34	10 51	19 77
	5/1/2015	593 51	590 50	583 27	583 27	573 74	10 24	10 24	19 77
	7/28/2015	593 51	590 50	582 98	582 97	573 74	10 53	10 54	19 77
	11/9/2015	593 51	590 50	583 15	583 14	573 74	10 36	10 37	19 77
	2/16/2016	593 51	590 54	583 23	583 25	573 74	10 28	10 26	19 77
	5/24/2016	593 51	590 54	583 19	583 17	573 74	10 32	10 34	19 77
	8/9/2016	593 51	590 54	582 88	582 80	573 74	10 63	10 71	19 77
	10/25/2016	593 51	590 54	583 14	583 19	573 74	10 37	10 32	19 77
MW-04	10/20/2014	593 95	591 06	583 04	583 05	571 47	10 91	10 90	22 48
	2/4/2015	593 95	591 06	582 93	582 93	571 47	11 02	11 02	22 48
	5/1/2015	593 95	591 06	583 06	583 05	571 47	10 89	10 90	22 48
	7/28/2015	593 95	591 06	582 78	582 77	571 47	11 17	11 18	22 48
	11/9/2015	593 95	591 06	582 87	582 85	571 47	11 08	11 10	22 48
	2/16/2016	593 93	591 08	582 94	582 91	571 45	10 99	11 02	22 48
	5/24/2016	593 93	591 08	582 91	582 90	571 45	11 02	11 03	22 48
	8/9/2016	593 93	591 08	582 74	582 67	571 45	11 19	11 26	22 48
	10/25/2016	593 93	591 08	582 89	583 07	571 45	11 04	10 86	22 48
MW-05	10/20/2014	592 87	589 60	583 01	583 02	570 80	9 86	9 85	22 07
	2/3/2015	592 87	589 60	582 96	582 96	570 80	9 91	9 91	22 07
	5/1/2015	592 87	589 60	583 03	583 03	570 80	9 84	9 84	22 07
	7/28/2015	592 87	589 60	582 78	582 76	570 80	10 09	10 11	22 07
	11/9/2015	592 87	589 60	582 88	582 84	570 80	9 99	10 03	22 07
	2/16/2016	592 87	589 60	582 96	582 88	570 80	9 91	9 99	22 07
	5/24/2016	592 87	589 60	582 93	582 88	570 80	9 94	9 99	22 07
	8/9/2016	592 87	589 60	582 78	582 73	570 80	10 09	10 14	22 07
	10/25/2016	592 87	589 60	583 85	582 98	570 80	9 02	9 89	22 07
MW-06	10/20/2014	592 97	589 77	581 77	581 80	571 82	11 20	11 17	21 15
	2/3/2015	592 97	589 77	581 66	581 65	571 82	11 31	11 32	21 15
	4/30/2015	592 97	589 77	581 93	581 89	571 82	11 04	11 08	21 15
	7/28/2015	592 97	589 77	581 67	581 66	571 82	11 30	11 31	21 15
	11/9/2015	592 97	589 77	583 01	581 98	571 82	9 96	10 99	21 15
	2/16/2016	592 97	589 77	581 60	581 51	571 82	11 37	11 46	21 15
	5/24/2016	593 18	589 77	581 81	581 72	572 03	11 37	11 46	21 15
	8/9/2016	593 18	589 77	581 64	581 52	572 03	11 54	11 66	21 15
	10/25/2016	593 18	589 77	581 81	581 77	572 03	11 37	11 41	21 15
MW-07	10/21/2014	592 88	589 55	582 20	582 01	572 07	10 68	10 87	20 81
	2/3/2015	592 88	589 55	581 79	581 70	572 07	11 09	11 18	20 81
	4/30/2015	592 88	589 55	582 10	582 04	572 07	10 78	10 84	20 81
	7/27/2015	592 88	589 55	581 42	581 29	572 07	11 46	11 59	20 81
	11/9/2015	592 88	589 55	581 75	581 64	572 07	11 13	11 24	20 81
	2/16/2016	592 88	589 55	582 02	581 90	572 07	10 86	10 98	20 81
	5/24/2016	592 89	589 55	581 81	581 67	572 08	11 08	11 22	20 81
	8/9/2016	592 89	589 55	581 46	581 32	572 08	11 43	11 57	20 81
	10/25/2016	592 89	589 55	581 73	581 62	572 08	11 16	11 27	20 81

Table 1. Groundwater Elevations - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing (TOC) Elevation (ft above MSL)	Ground Elevation (ft above MSL)	Groundwater Elevation (ft above MSL)	Sampling Groundwater Elevation (ft above MSL)	Bottom of Well Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Sampling Depth to Groundwater (ft below TOC)	Depth to Bottom of Well (ft below TOC)
MW-08	10/21/2014	592 71	589 64	581 51	580 92	572 50	11 20	11 79	20 21
	2/3/2015	592 71	589 64	581 25	580 83	572 50	11 46	11 88	20 21
	4/30/2015	592 71	589 64	581 48	581 20	572 50	11 23	11 51	20 21
	7/27/2015	592 71	589 64	581 10	579 97	572 50	11 61	12 74	20 21
	11/9/2015	592 71	589 64	581 36	580 82	572 50	11 35	11 89	20 21
	2/16/2016	592 71	589 64	581 60	581 23	572 50	11 11	11 48	20 21
	5/24/2016	592 75	589 64	581 46	581 22	572 54	11 29	11 53	20 21
	8/9/2016	592 75	589 64	580 99	580 78	572 54	11 76	11 97	20 21
	10/25/2016	592 75	589 64	581 31	581 27	572 54	11 44	11 48	20 21
MW-09	10/21/2014	592 84	589 76	581 40	581 11	570 66	11 44	11 73	22 18
	2/3/2015	592 84	589 76	581 97	581 36	570 66	10 87	11 48	22 18
	4/30/2015	592 84	589 76	581 57	581 53	570 66	11 27	11 31	22 18
	7/27/2015	592 84	589 76	581 31	580 86	570 66	11 53	11 98	22 18
	11/9/2015	592 84	589 76	581 46	581 30	570 66	11 38	11 54	22 18
	2/16/2016	592 84	589 76	581 81	581 57	570 66	11 03	11 27	22 18
	5/24/2016	592 87	589 76	581 52	581 45	570 69	11 35	11 42	22 18
	8/9/2016	592 87	589 76	581 44	581 21	570 69	11 43	11 66	22 18
	10/25/2016	592 87	589 76	582 13	582 08	570 69	10 74	10 79	22 18
MW-10	10/20/14	590 98	591 31	580 50	580 26	571 45	10 48	10 72	19 53
	02/03/15	590 98	591 31	580 12	579 94	571 45	10 86	11 04	19 53
	04/30/15	590 98	591 31	580 37	580 26	571 45	10 61	10 72	19 53
	07/27/15	590 98	591 31	580 11	579 95	571 45	10 87	11 03	19 53
	11/9/2015	590 98	591 31	580 33	580 14	571 45	10 65	10 84	19 53
	2/16/2016	590 98	591 31	580 55	580 26	571 45	10 43	10 72	19 53
	5/24/2016	590 96	591 31	580 24	580 10	571 43	10 72	10 86	19 53
	8/9/2016	590 96	591 31	579 84	579 68	571 43	11 12	11 28	19 53
	10/25/2016	590 96	591 31	580 23	580 27	571 43	10 73	10 69	19 53

Note: Values for Depth to Bottom of Well are from prior to the installation of the dedicated pumps

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Will County Station, Romeoville, IL

Sample: MW-01	Date	10/21/2014		2/4/2015		4/30/2015		7/27/2015		11/9/2015		2/18/2016		5/26/2016		8/11/2016		10/27/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Barium	2 0	0 0025	0 077	0 0025	0 066	0 0025	0 069	0 0025	0 076	0 0025	0 078	0 0025	0 075	0 0025	0 075	0 0025	0 10	0 0025	0 095
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND^
Boron	2 0	0 050	0 96	1 0	ND	0 25	0 81	0 050	0 91	0 050	0 73	0 050	0 80	0 050	0 74	0 25	0 87	0 050	0 76
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	2 0	29	2 0	30	2 0	28	2 0	33	2 0	26	2 0	27	2 0	25	2 0	26	2 0	24
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 52	0 10	0 59	0 10	0 59	0 10	0 66	0 10	0 80	0 10	0 73	0 10	0 72	0 10	0 82	0 10	0 89
Iron	5 0	0 10	0 16	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 17	0 0025	0 079	0 0025	0 011	0 0025	0 15	0 0025	0 088	0 0025	0 0087	0 0025	0 0082	0 0025	0 075 B	0 0025	0 074
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	0 00020	0 00020	ND
Nickel	0 1	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	0 0021	0 0020	ND	0 0020	ND	0 0020	ND
Nitrogen/Nitrate	10 0	0 10	ND	0 10	0 27	0 10	0 25	0 10	0 19	0 10	0 15	0 10	0 37	0 10	0 40	0 10	0 12	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	0 27	0 10	0 25	0 10	0 19	0 10	0 15	0 10	0 37	0 10	0 40	0 10	0 12	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	0 0028	0 0025	0 0051	0 0025	0 0053 F1	0 0025	0 0027	0 0025	0 0028	0 0025	0 0032	0 0025	0 0039	0 0025	0 0026	0 0025	ND
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	25	150	25	99	50	100	25	120	25	110	50	120	25	110	25	80	20	97
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	600	10	570	10	510	10	570	10	470	10	530	10	530	10	510	10	480
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 0005	ND	0 0005	ND	0 0005	ND	0 0005	ND	0 0005	ND	0 0005	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0013	0 0025	ND	0 0025	0 0012	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	7 12	NA	7 41	NA	7 36	NA	7 44	NA	7 25	NA	7 17	NA	7 12	NA	7 07	NA	7 45
Temperature	NA	NA	17 29	NA	12 62	NA	12 63	NA	21 71	NA	17 51	NA	10 73	NA	20 50	NA	23 50	NA	15 04
Conductivity	NA	NA	0 90	NA	0 64	NA	0 70	NA	0 86	NA	0 69	NA	0 53	NA	0 80	NA	0 82	NA	0 64
Dissolved Oxygen	NA	NA	0 45	NA	1 07	NA	2 32	NA	1 39	NA	0 62	NA	2 08	NA	2 02	NA	1 51	NA	2 53
ORP	NA	NA	-64 4	NA	-8 3	NA	31 7	NA	-122 9	NA	-0 6	NA	-43 8	NA	-18 5	NA	-126 9	NA	-62 6

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1 - MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Will County Station, Romeoville, IL

Sample: MW-02	Date	10/20/2014		2/4/2015		5/1/2015		7/28/2015		11/10/2015		2/17/2016		5/25/2016		8/11/2016		10/27/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 013	0 0010	0 0095	0 0010	0 0076	0 0010	0 013	0 0010	0 018	0 0010	0 0072	0 0010	0 0088	0 0010	0 018	0 0010	0 017
Barium	2 0	0 0025	0 10	0 0025	0 092	0 0025	0 096	0 0025	0 093	0 0025	0 098	0 0025	0 092	0 0025	0 088	0 0025	0 090	0 0025	0 093
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND^
Boron	2 0	0 50	3 6	1 0	3 8	0 25	3 8	0 50	4 0 F1	0 50	4 4	0 050	4 3	0 050	3 9	0 25	4 1	0 50	4 9
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	10	97	10	130	10	110	10	90	10	110	10	80	2 0	64	2 0	72	2 0	71
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 39	0 10	0 41	0 10	0 38	0 10	0 38	0 10	0 40	0 10	0 38	0 10	0 32	0 10	0 34	0 10	0 36
Iron	5 0	0 10	0 64	0 10	0 17	0 10	ND	0 10	0 58	0 10	0 78	0 10	ND	0 10	0 21	0 10	1 0	0 10	1 0
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 083	0 0025	0 064	0 0025	0 055	0 0025	0 085	0 0025	0 068	0 0025	0 080	0 0025	0 061	0 0025	0 083 B	0 0025	0 092
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	0 0029	0 0020	0 0029	0 0020	0 0032	0 0020	0 0029	0 0020	0 0031	0 0020	0 0048	0 0020	0 0032	0 0020	0 0038	0 0020	0 0038
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	0 13	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	0 13	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	100	510	100	400	100	460	100	610	100	600	200	710	250	650	250	510	250	670
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	1200	10	1200	10	1200	10	1300	10	1000	10	1300	10	1300	10	1500	10	1500
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 0005	ND	0 0005	ND	0 0005	ND	0 0005	ND	0 0005	ND	0 0005	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 00072	0 0025	ND	0 0025	ND	0 0025	0 00055	0 0025	ND
pH	6 5 - 9 0	NA	6 94	NA	8 14	NA	8 00	NA	7 94	NA	8 06	NA	7 63	NA	7 50	NA	7 60	NA	7 86
Temperature	NA	NA	17 11	NA	14 26	NA	18 64	NA	19 83	NA	15 84	NA	8 11	NA	18 77	NA	26 04	NA	14 23
Conductivity	NA	NA	1 63	NA	1 37	NA	1 58	NA	1 72	NA	1 50	NA	1 05	NA	1 70	NA	1 97	NA	1 54
Dissolved Oxygen	NA	NA	0 31	NA	0 90	NA	1 60	NA	0 75	NA	0 49	NA	1 68	NA	1 30	NA	2 33	NA	2 28
ORP	NA	NA	-135 2	NA	-126 8	NA	-116 1	NA	-112 8	NA	-143 6	NA	-96 1	NA	-81 0	NA	-136 7	NA	-148 3

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1 - MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Will County Station, Romeoville, IL

Sample: MW-03	Date	10/20/2014		2/4/2015		5/1/2015		7/28/2015		11/10/2015		2/17/2016		5/25/2016		8/11/2016		10/27/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	0 0011	0 0010	ND	0 0010	ND	0 0010	ND
Barium	2 0	0 0025	0 077	0 0025	0 094	0 0025	0 093	0 0025	0 081	0 0025	0 11	0 0025	0 079	0 0025	0 088	0 0025	0 11	0 0025	0 11
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND^
Boron	2 0	0 50	3 6	1 0	2 9	0 25	2 9	0 50	4 1	0 50	3 0	0 050	3 0	0 050	2 9	0 25	3 1	0 50	3 3 F1
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	2 0	57	2 0	43	2 0	33	2 0	59	10	33	2 0	28	2 0	27	2 0	27	2 0	22
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	0 0013	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	0 0011	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 51	0 10	0 38	0 10	0 38	0 10	0 44	0 10	0 39	0 10	0 41	0 10	0 41	0 10	0 36	0 10	0 38
Iron	5 0	0 10	ND	0 10	0 18	0 10	0 12	0 10	0 13	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 29	0 0025	0 47	0 0025	0 43	0 0025	0 28	0 0025	0 42	0 0025	0 33	0 0025	0 35	0 0025	0 41 B	0 0025	0 49
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	0 0073	0 0020	0 0055	0 0020	0 0047	0 0020	0 0086	0 0020	0 0049	0 0020	0 0073	0 0020	0 0061	0 0020	0 0073	0 0020	0 0064
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	0 30	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	0 30	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	ND	0 0025	0 0025	0 0025	ND	0 0025	ND	0 0025	0 0043	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND F1
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	100	570	100	320	100	250	100	520	50	280	100	400	100	370	100	230	50	240
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	1100	10	1100	10	990	10	1100	10	950	10	980	10	960	10	930	10	910
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 0005	ND	0 0005	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0014	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	6 06	NA	7 11	NA	7 07	NA	7 63	NA	6 81	NA	7 10	NA	7 02	NA	6 90	NA	6 97
Temperature	NA	NA	14 39	NA	10 34	NA	11 15	NA	18 62	NA	13 54	NA	9 00	NA	20 09	NA	20 43	NA	13 88
Conductivity	NA	NA	1 48	NA	1 11	NA	1 14	NA	1 47	NA	1 16	NA	0 84	NA	1 26	NA	1 26	NA	1 05
Dissolved Oxygen	NA	NA	0 43	NA	1 81	NA	2 99	NA	1 13	NA	1 08	NA	1 27	NA	2 02	NA	1 32	NA	2 10
ORP	NA	NA	47 7	NA	7 2	NA	-18 3	NA	-124 6	NA	-6 0	NA	44 1	NA	-74 2	NA	-95 1	NA	-82 0

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1 - MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Will County Station, Romeoville, IL

Sample: MW-04	Date	10/20/2014		2/4/2015		5/1/2015		7/28/2015		11/11/2015		2/17/2016		5/25/2016		8/11/2016		10/27/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0011	0 0010	0 0013	0 0010	ND	0 0010	ND	0 0010	0 0019	0 0010	0 0013	0 0010	ND	0 0010	ND	0 0010	ND
Barium	2 0	0 0025	0 037	0 0025	0 031	0 0025	0 031	0 0025	0 038	0 0025	0 039	0 0025	0 038	0 0025	0 034	0 0025	0 038	0 0025	0 044
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND^
Boron	2 0	0 50	4 5	1 0	3 9	0 25	4 0	0 50	5 4	0 50	5 0	0 050	4 9	0 050	4 3	0 25	4 8	0 50	6 1
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	10	82	10	120	10	110	10	97	2 0	46	10	84	2 0	73	2 0	54	2 0	72
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	0 0011	0 0010	ND	0 0010	ND	0 0010	0 0011	0 0010	0 0013	0 0010	0 0012	0 0010	ND	0 0010	ND	0 0010	0 0011
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	0 035
Fluoride	4 0	0 10	0 54	0 10	0 52	0 10	0 47	0 10	0 56	0 10	0 43	0 10	0 52	0 10	0 50	0 10	0 46	0 10	0 50
Iron	5 0	0 10	0 27	0 10	0 28	0 10	ND	0 10	0 16	0 10	0 51	0 10	0 11	0 10	0 12	0 10	0 28	0 10	0 16
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 64	0 0025	0 52	0 0025	0 45	0 0025	0 77	0 0025	0 62	0 0025	0 70	0 0025	0 45	0 0025	0 57 B	0 0025	0 64
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	0 00025	0 00020	ND
Nickel	0 1	0 0020	0 0065	0 0020	0 0043	0 0020	0 0057	0 0020	0 0053	0 0020	0 0070	0 0020	0 0079	0 0020	0 0047	0 0020	0 0057	0 0020	0 0058
Nitrogen/Nitrate	10 0	0 10	0 15	0 10	0 17	0 10	0 53	0 10	0 11	0 10	ND	0 10	0 34	0 10	0 25	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	0 15	0 10	0 17	0 10	0 53	0 10	0 11	0 10	ND	0 10	0 34	0 10	0 25	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	0 010	0 0025	0 0087	0 0025	0 020	0 0025	0 0046	0 0025	0 0081	0 0025	0 0077	0 0025	0 012	0 0025	0 0042	0 0025	ND
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	250	1600	250	1100	250	860	500	1600	250	870	500	1800	500	1300	250	880	500	1400
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	2600	10	2600	10	2300	17	3200	10	1900	13	3200	13	2700	10	2200	10	2800
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 0005	ND	0 0005	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 00050	0 0025	ND
pH	6 5 - 9 0	NA	5 87	NA	7 13	NA	7 15	NA	7 29	NA	6 65	NA	7 05	NA	6 85	NA	6 78	NA	7 01
Temperature	NA	NA	16 64	NA	8 13	NA	13 74	NA	20 17	NA	16 27	NA	10 03	NA	18 45	NA	21 76	NA	14 80
Conductivity	NA	NA	3 07	NA	2 21	NA	2 36	NA	3 85	NA	2 18	NA	2 46	NA	3 10	NA	2 74	NA	2 67
Dissolved Oxygen	NA	NA	0 44	NA	2 01	NA	1 83	NA	0 90	NA	1 12	NA	0 95	NA	1 81	NA	1 68	NA	3 02
ORP	NA	NA	3 1	NA	16 7	NA	9 3	NA	-73 4	NA	-33 0	NA	-18 7	NA	-10 3	NA	-116 2	NA	-6 4

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1 - MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Will County Station, Romeoville, IL

Sample: MW-05	Date	10/20/2014		2/3/2015		5/1/2015		7/28/2015		11/11/2015		2/18/2016		5/26/2016		8/10/2016		10/26/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0014	0 0010	0 0028	0 0010	0 0019	0 0010	0 0011	0 0010	0 0014	0 0010	0 0015	0 0010	0 0024	0 0010	0 0050	0 0010	0 0060
Barium	2 0	0 0025	0 061	0 0025	0 048	0 0025	0 072	0 0025	0 063	0 0025	0 078	0 0025	0 054	0 0025	0 059	0 0025	0 071	0 0025	0 033
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND^
Boron	2 0	0 50	4 7	1 0	2 4	0 25	3 7	0 50	5 3	0 50	5 9	0 050	4 1	0 050	3 7	0 25	4 1	0 50	3 9
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	10	81	10	200	10	180	10	100	10	110	10	120	10	96	10	110	10	120
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 35	0 10	0 50	0 10	0 31	0 10	0 38	0 10	0 31	0 10	0 31	0 10	0 32	0 10	0 46	0 10	0 72
Iron	5 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 20	0 0025	0 046	0 0025	0 092	0 0025	0 13	0 0025	0 17	0 0025	0 11	0 0025	0 075	0 0025	0 14 B	0 0025	0 019
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	0 0049	0 0020	ND	0 0020	0 0023	0 0020	0 0034	0 0020	0 0026	0 0020	0 0053	0 0020	0 0030	0 0020	0 0030	0 0020	0 0021
Nitrogen/Nitrate	10 0	0 10	0 12	0 10	1 3	0 10	1 1	0 10	0 48	0 10	ND	0 10	0 61	0 10	0 51	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	0 12	0 10	1 6	0 10	1 2	0 10	0 48	0 10	ND	0 10	0 65	0 10	0 66	0 10	0 13	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 040	0 34	0 020	0 099	0 020	ND	0 020	ND	0 020	0 040	0 020	0 15	0 020	0 048	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	0 010	0 0025	0 0058	0 0025	0 020	0 0025	0 021	0 0025	0 035	0 0025	0 017	0 0025	0 027	0 0025	0 012	0 0025	ND
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	250	840	100	430	100	480	250	770	250	780	250	730	250	600	130	530	100	360
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	2100	10	1100	10	1600	10	2000	10	1900	10	1700	10	1500	10	1200	10	820
Vanadium	0 049	0 0050	0 010	0 0050	0 019	0 0050	0 012	0 0050	0 011	0 0050	0 016	0 0050	0 010	0 0050	0 013	0 0050	0 022	0 0050	0 030
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 0005	ND	0 0005	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0015	0 0025	ND	0 0025	0 00068	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	6 87	NA	9 70	NA	7 29	NA	7 13	NA	7 24	NA	6 99	NA	6 73	NA	8 62	NA	9 08
Temperature	NA	NA	18 46	NA	8 29	NA	12 11	NA	20 61	NA	15 77	NA	8 54	NA	15 42	NA	24 37	NA	13 90
Conductivity	NA	NA	2 59	NA	1 13	NA	1 69	NA	2 47	NA	2 02	NA	1 17	NA	1 69	NA	1 57	NA	1 09
Dissolved Oxygen	NA	NA	0 81	NA	2 40	NA	1 53	NA	1 41	NA	1 17	NA	1 42	NA	2 12	NA	0 85	NA	2 24
ORP	NA	NA	58 1	NA	-53 5	NA	31 4	NA	-50 4	NA	46 1	NA	21 7	NA	91 9	NA	-207 6	NA	-76 7

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1 - MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Will County Station, Romeoville, IL

Sample: MW-06	Date	10/20/2014		2/3/2015		4/30/2015		7/28/2015		11/10/2015		2/18/2016		5/26/2016		8/11/2016		10/26/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0017	0 0010	0 0028	0 0010	0 0010	0 0010	ND	0 0010	0 0017	0 0010	ND	0 0010	0 0022	0 0010	0 0029	0 0010	0 0031
Barium	2 0	0 0025	0 066	0 0025	0 071	0 0025	0 072	0 0025	0 061	0 0025	0 044	0 0025	0 062	0 0025	0 075	0 0025	0 087	0 0025	0 084
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND^
Boron	2 0	0 50	3 4	1 0	3 2	0 25	3 0	0 50	3 6	0 50	3 4	0 050	2 4	0 050	2 9	0 25	3 6	0 50	3 9
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	10	81	2 0	49	10	160	10	120	10	110	10	150	10	83	2 0	61	2 0	73
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 56	0 10	0 37	0 10	0 38	0 10	0 45	0 10	0 63	0 10	0 45	0 10	0 38	0 10	0 34	0 10	0 39
Iron	5 0	0 10	ND	0 10	0 17	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	0 11	0 10	0 15
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 11	0 0025	0 12	0 0025	0 068	0 0025	0 066	0 0025	0 037	0 0025	0 051	0 0025	0 089	0 0025	0 13 B	0 0025	0 13
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	0 0020	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	0 0022	0 0020	ND	0 0020	0 0024	0 0020	0 0039
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	0 23	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	0 30	0 10	ND	0 10	ND	0 10	0 14	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	0 067	0 020	0 077	0 020	0 032	0 020	0 047	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	0 0036	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0048	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0028
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	100	420	50	310	50	350	100	330	50	360	50	290	100	350	100	360	50	320
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	800	10	770	10	780	10	800	10	660	10	720	10	780	10	810	10	750
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	0 0058	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 0005	0 0005	0 0005	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0028	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	7 26	NA	8 38	NA	8 08	NA	8 60	NA	8 63	NA	8 58	NA	7 79	NA	7 74	NA	8 16
Temperature	NA	NA	18 31	NA	8 28	NA	10 95	NA	25 89	NA	17 67	NA	7 76	NA	16 74	NA	20 61	NA	13 77
Conductivity	NA	NA	1 20	NA	0 77	NA	0 94	NA	1 29	NA	0 98	NA	0 63	NA	0 99	NA	1 10	NA	0 94
Dissolved Oxygen	NA	NA	0 66	NA	1 69	NA	1 90	NA	0 88	NA	1 67	NA	1 57	NA	4 37	NA	2 23	NA	1 84
ORP	NA	NA	-94 0	NA	-142 5	NA	-61 3	NA	-132 5	NA	-101 6	NA	-33 1	NA	-67 5	NA	-125 1	NA	-78 4

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1 - MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Will County Station, Romeoville, IL

Sample: MW-07	Date	10/21/2014		2/3/2015		4/30/2015		7/27/2015		11/9/2015		2/17/2016		5/24/2016		8/9/2016		10/25/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0031	0 0010	0 0027	0 0010	0 0029	0 0010	0 0020	0 0010	0 0027	0 0010	0 0023	0 0010	0 0024	0 0010	0 0028	0 0010	0 0025
Barium	2 0	0 0025	0 072	0 0025	0 042	0 0025	0 048	0 0025	0 037	0 0025	0 035	0 0025	0 046	0 0025	0 046	0 0025	0 048	0 0025	0 046
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND^
Boron	2 0	0 50	5 1	1 0	3 0	0 25	3 3	0 25	3 1	0 50	2 9	0 050	3 8	0 050	2 9	0 25	2 8	0 50	3 2
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	10	190	10	170	10	160	10	170	10	160	10	150	10	140	10	150	10	130
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	0 016	0 010	ND	0 010	ND	0 010	0 034	0 010	ND	0 010	0 037	0 010	0 017 F1,2	0 010	0 021
Fluoride	4 0	0 10	0 84	0 10	0 91	0 10	0 85	0 10	0 90	0 10	0 96	0 10	0 79	0 10	0 75	0 10	0 86	0 10	0 87
Iron	5 0	0 10	0 55	0 10	0 16	0 10	0 22	0 10	0 19	0 10	0 19	0 10	0 17	0 10	0 21	0 10	0 28	0 10	0 31
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 12	0 0025	0 031	0 0025	0 044	0 0025	0 024	0 0025	0 025	0 0025	0 040	0 0025	0 035	0 0025	0 044 B	0 0025	0 061
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	0 0034	0 0020	0 0036	0 0020	0 0033	0 0020	0 0034	0 0020	0 0035	0 0020	0 0040	0 0020	0 0034	0 0020	0 0035	0 0020	0 0035
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	0 0046	0 0025	ND	0 0025	0 0039	0 0025	ND	0 0025	0 012	0 0025	0 0039	0 0025	0 0028	0 0025	0 0027	0 0025	0 0061
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	130	680	100	400	100	440	100	420	100	420	200	700	100	530	100	350	100	510
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	1500	10	1100	10	1200	10	950	10	960	10	1300	10	1100	10	940	10	1200
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 0005	ND	0 0005	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0018	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	7 88	NA	8 68	NA	8 53	NA	8 75	NA	7 11	NA	8 36	NA	7 89	NA	7 60	NA	8 20
Temperature	NA	NA	14 85	NA	8 76	NA	12 23	NA	20 84	NA	14 48	NA	10 48	NA	15 41	NA	17 85	NA	13 94
Conductivity	NA	NA	1 60	NA	1 10	NA	1 32	NA	1 49	NA	1 21	NA	1 00	NA	1 37	NA	1 30	NA	1 27
Dissolved Oxygen	NA	NA	0 39	NA	1 50	NA	2 30	NA	2 23	NA	2 36	NA	0 91	NA	1 53	NA	1 20	NA	1 16
ORP	NA	NA	-151 3	NA	-154 5	NA	-134 3	NA	-163 1	NA	-69 7	NA	-123 3	NA	-126 9	NA	-108 9	NA	-86 1

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes Instrument related QC exceeds the control limits
F1 - MS and/or MSD Recovery outside of limits.
F2 - MS/MSD RPD exceeds control limits

Temperature	°C	degrees Celsius
Conductivity	ms/cm^6	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Will County Station, Romeoville, IL

Sample: MW-08	Date	10/21/2014		2/3/2015		4/30/2015		7/27/2015		11/9/2015		2/16/2016		5/24/2016		8/9/2016		10/25/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0082	0 0010	0 0036	0 0010	0 0047	0 0010	0 0064	0 0010	0 0040	0 0010	0 0024	0 0010	0 0049	0 0010	0 0095	0 0010	0 0064
Barium	2 0	0 0025	0 087	0 0025	0 081	0 0025	0 083	0 0025	0 066	0 0025	0 086	0 0025	0 060	0 0025	0 064	0 0025	0 062	0 0025	0 063
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND^
Boron	2 0	0 50	2 8	1 0	2 3	0 25	2 3	0 25	2 8	0 50	4 0	0 050	2 8	0 050	2 3	0 25	2 6	0 50	4 1
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	10	180	10	170	10	150	10	170	10	170	10	140	10	140	10	150	10	130
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	0 0012
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 56	0 10	0 51	0 10	0 54	0 10	0 68	0 10	0 52	0 10	0 52	0 10	0 52	0 10	0 70	0 10	0 54
Iron	5 0	0 10	1 0	0 10	0 19	0 10	0 22	0 10	0 46	0 10	0 11	0 10	0 12	0 10	0 38	0 10	0 54	0 10	1 1
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 44	0 0025	0 31	0 0025	0 28	0 0025	0 31	0 0025	0 25	0 0025	0 24	0 0025	0 36	0 0025	0 27 B	0 0025	0 62
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	0 0048	0 0020	0 0036	0 0020	0 0037	0 0020	0 0041	0 0020	0 0052	0 0020	0 0065	0 0020	0 0035	0 0020	0 0045	0 0020	0 010
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	0 0032	0 0025	0 0083	0 0025	0 010	0 0025	ND	0 0025	0 0065	0 0025	0 0049	0 0025	ND	0 0025	ND	0 0025	ND
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	200	730	100	530	100	520	100	650	200	800	250	750	100	580	130	520	250	680
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	1500	10	1400	10	1400	10	1200	10	1600	10	1600	10	1400	10	1300	10	1700
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 0005	ND	0 0005	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0019	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	7 03	NA	7 24	NA	7 23	NA	7 36	NA	6 88	NA	7 10	NA	6 85	NA	7 13	NA	7 06
Temperature	NA	NA	14 76	NA	9 43	NA	12 42	NA	17 57	NA	16 00	NA	7 88	NA	16 06	NA	21 11	NA	15 60
Conductivity	NA	NA	2 00	NA	1 46	NA	1 59	NA	1 66	NA	1 96	NA	1 23	NA	1 61	NA	1 63	NA	1 95
Dissolved Oxygen	NA	NA	0 68	NA	2 26	NA	5 61	NA	1 23	NA	1 81	NA	1 63	NA	1 61	NA	1 25	NA	0 79
ORP	NA	NA	-52 9	NA	10 7	NA	14 8	NA	-124 4	NA	19 0	NA	19 4	NA	-43 1	NA	-114 0	NA	-63 0

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
FI - MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm^{c}	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Will County Station, Romeoville, IL

Sample: MW-09	Date	10/21/2014		2/3/2015		4/30/2015		7/27/2015		11/11/2015		2/16/2016		5/24/2016		8/9/2016		10/25/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0046	0 0010	0 0038	0 0010	0 0044	0 0010	0 0032	0 0010	0 0057	0 0010	0 0041	0 0010	0 0039	0 0010	0 0049	0 0010	0 0078
Barium	2 0	0 0025	0 026	0 0025	0 033	0 0025	0 032	0 0025	0 026	0 0025	0 030	0 0025	0 019	0 0025	0 024	0 0025	0 030	0 0025	0 023
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND^
Boron	2 0	0 50	1 9	1 0	1 4	0 25	1 5	0 25	2 0	0 50	2 1	0 050	1 9	0 050	1 4	0 25	1 8	0 50	2 6
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	10	200	10	200	10	310	10	230	10	190	10	160	10	170	10	150	10	130
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 55	0 10	0 44	0 10	0 47	0 10	0 51	0 10	0 57	0 10	0 53	0 10	0 45	0 10	0 51	0 10	0 79
Iron	5 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 0025	0 0025	0 0026	0 0025	ND	0 0025	0 0044	0 0025	0 0032	0 0025	0 0025	0 0025	0 0044	0 0025	0 0050	0 0025	0 0035
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	0 0024	0 0020	0 0020	0 0020	ND	0 0020	0 0020	0 0020	0 0023	0 0020	0 0024	0 0020	ND	0 0020	0 0028	0 0020	0 0023
Nitrogen/Nitrate	10 0	0 10	ND	0 10	2 2	0 10	2 7	0 10	0 32	0 10	ND	0 10	0 37	0 10	0 55	0 10	ND	0 10	0 70
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 20	2 4	0 20	2 9	0 10	0 43	0 10	ND	0 10	0 39	0 10	0 59	0 10	ND	0 10	0 70
Nitrogen/Nitrite	NA	0 020	0 078	0 040	0 21	0 040	0 25	0 020	0 11	0 020	ND	0 020	0 022	0 020	0 040	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	0 0035	0 0025	ND	0 0025	0 0025	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0026	0 0025	ND
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	100	430	50	300	50	270	50	290	100	400	50	240	50	240	50	260	50	240
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	820	10	810	10	930	10	760	10	760	10	660	10	670	10	750	10	640
Vanadium	0 049	0 0050	0 015	0 0050	0 011	0 0050	0 010	0 0050	0 0063	0 0050	0 0080	0 0050	0 011	0 0050	0 0069	0 0050	0 0091	0 0050	0 028
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 0005	0 00057	0 0005	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 00287	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	8 73	NA	9 48	NA	9 49	NA	9 50	NA	9 12	NA	9 10	NA	8 79	NA	8 35	NA	9 16
Temperature	NA	NA	15 98	NA	5 11	NA	13 72	NA	20 11	NA	13 45	NA	9 62	NA	16 98	NA	21 67	NA	15 36
Conductivity	NA	NA	1 19	NA	0 83	NA	1 22	NA	1 20	NA	1 00	NA	0 65	NA	0 97	NA	1 14	NA	0 88
Dissolved Oxygen	NA	NA	0 48	NA	4 87	NA	1 93	NA	0 62	NA	0 76	NA	1 99	NA	2 42	NA	1 45	NA	1 74
ORP	NA	NA	-10 8	NA	-42 0	NA	-53 3	NA	-153 7	NA	39 7	NA	-66 2	NA	-83 9	NA	-151 8	NA	-89 2

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

^ - Denotes instrument related QC exceeds the control limits
F1 - MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm[e]	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

Table 2. Groundwater Analytical Results - Midwest Generation LLC, Will County Station, Romeoville, IL

Sample: MW-10	Date	10/20/2014		2/3/2015		4/30/2015		7/27/2015		11/10/2015		2/16/2016		5/25/2016		8/10/2016		10/26/2016	
Parameter	Standards	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result
Antimony	0 006	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND	0 0030	ND
Arsenic	0 010	0 0010	0 0090	0 0010	0 012	0 0010	0 014	0 0010	0 0065	0 0010	0 017	0 0010	0 0075	0 0010	0 0099	0 0010	0 011	0 0010	0 025
Barium	2 0	0 0025	0 10	0 0025	0 12	0 0025	0 10	0 0025	0 084	0 0025	0 11	0 0025	0 092	0 0025	0 089	0 0025	0 10	0 0025	0 14
Beryllium	0 004	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND^
Boron	2 0	0 50	3 3	1 0	3 3	0 25	3 6	0 25	3 1	0 50	4 4	0 050	3 6	0 050	3 8	0 25	3 7	0 50	3 5
Cadmium	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Chloride	200 0	10	140	10	110	10	130	10	140	10	140	10	130	10	120	10	120	2 0	73
Chromium	0 1	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Cobalt	1 0	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND	0 0010	ND
Copper	0 65	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Cyanide	0 2	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND	0 010	ND
Fluoride	4 0	0 10	0 75	0 10	0 58	0 10	0 67	0 10	0 77	0 10	0 77	0 10	0 75	0 10	0 74	0 10	0 76	0 10	0 52
Iron	5 0	0 10	1 0	0 10	1 5	0 10	1 4	0 10	1 1	0 10	1 3	0 10	1 1	0 10	1 2	0 10	0 92	0 10	2 6
Lead	0 0075	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Manganese	0 15	0 0025	0 25	0 0025	0 38	0 0025	0 29	0 0025	0 19	0 0025	0 26	0 0025	0 25	0 0025	0 20	0 0025	0 25 B	0 0025	0 43
Mercury	0 002	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	ND	0 00020	0 00035	0 00020	ND	0 00020	ND
Nickel	0 1	0 0020	0 0033	0 0020	0 0027	0 0020	0 0036	0 0020	0 0025	0 0020	0 0030	0 0020	0 0049	0 0020	0 0032	0 0020	0 0037	0 0020	0 0023
Nitrogen/Nitrate	10 0	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrate, Nitrite	NA	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND	0 10	ND
Nitrogen/Nitrite	NA	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Perchlorate	0 0049	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND	0 0040	ND
Selenium	0 05	0 0025	ND	0 0025	ND	0 0025	0 0036	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0029
Silver	0 05	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND
Sulfate	400 0	100	380	50	260	50	260	50	350	50	330	50	270	50	270	50	240	50	240
Thallium	0 002	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND	0 0020	ND
Total Dissolved Solids	1,200	10	1100	10	1100	10	1000	10	970	10	990	10	1000	10	920	10	1000	10	980
Vanadium	0 049	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND	0 0050	ND
Zinc	5 0	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND	0 020	ND
Benzene	0 005	0 00050	ND	0 00050	ND	0 00050	ND	0 00050	ND	0 0005	ND	0 0005	ND	0 00050	ND	0 00050	ND	0 00050	ND
BETX	11 705	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	0 0019	0 0025	ND	0 0025	ND	0 0025	ND	0 0025	ND
pH	6 5 - 9 0	NA	6 84	NA	7 32	NA	7 43	NA	7 73	NA	7 34	NA	7 29	NA	7 26	NA	7 22	NA	7 30
Temperature	NA	NA	18 21	NA	10 10	NA	10 95	NA	18 29	NA	15 44	NA	8 85	NA	16 52	NA	21 72	NA	12 27
Conductivity	NA	NA	1 46	NA	1 17	NA	1 93	NA	1 31	NA	1 25	NA	0 87	NA	1 26	NA	1 40	NA	1 17
Dissolved Oxygen	NA	NA	2 15	NA	0 79	NA	1 57	NA	0 85	NA	0 58	NA	0 67	NA	0 97	NA	1 43	NA	2 21
ORP	NA	NA	-159 3	NA	-98 6	NA	-115 0	NA	-141 9	NA	-68 9	NA	-60 3	NA	-123 3	NA	-73 2	NA	-87 5

Notes: Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I Potable Resource Groundwater
All values are in mg/L (ppm) unless otherwise noted.

DL - Detection limit
NA - Not Applicable
ND - Not Detected

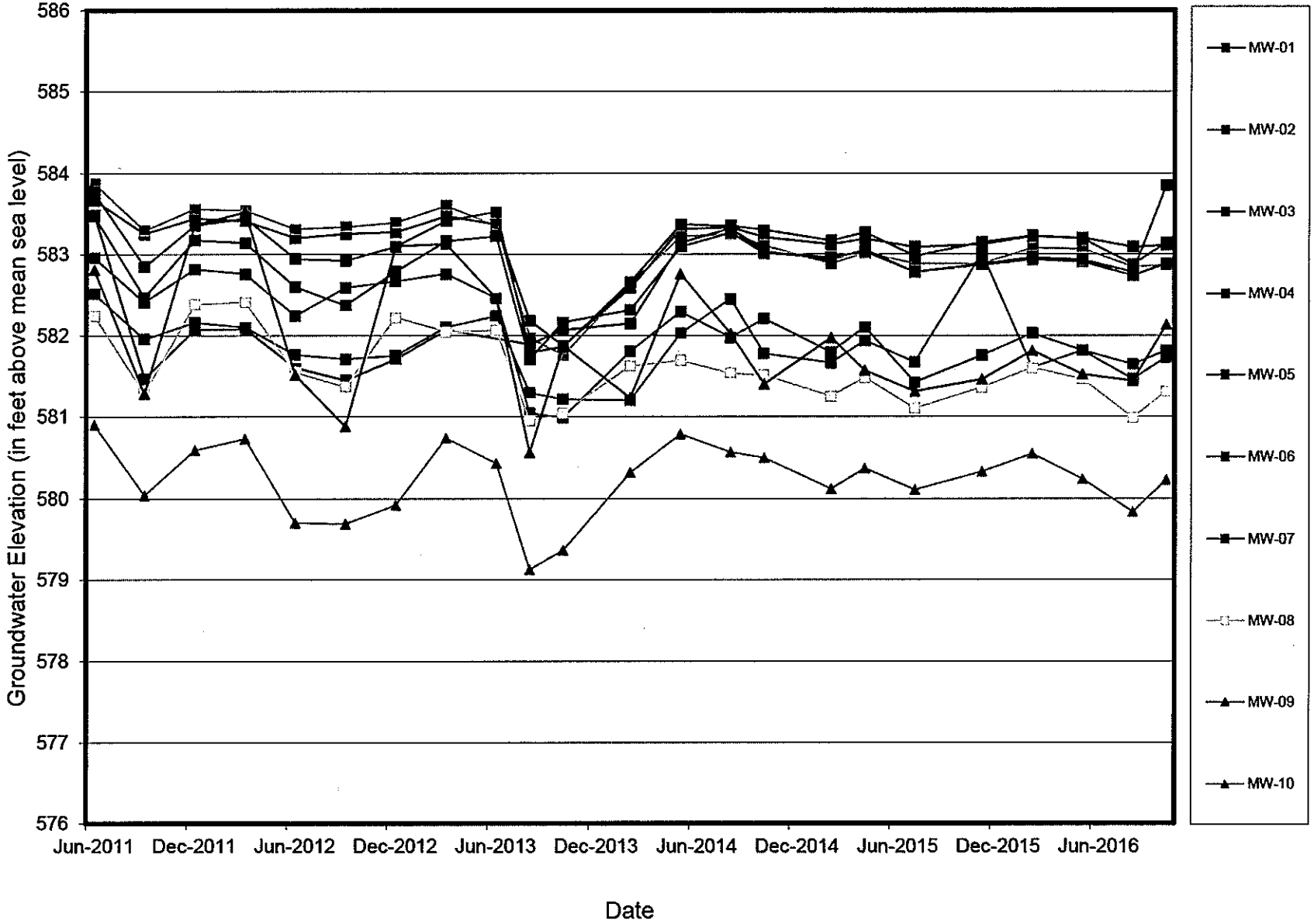
^ - Denotes instrument related QC exceeds the control limits
F1 - MS and/or MSD Recovery outside of limits.

Temperature	°C	degrees Celsius
Conductivity	ms/cm°	millisiemens/centimeters
Dissolved Oxygen	mg/L	milligrams/liter
Oxygen Reduction Potential (ORP)	mV	millivolts

ATTACHMENT 1
Hydrograph of Water Level Elevations

Midwest Generation Will County Station, Romeoville, IL

Groundwater Elevation vs Time



MWG13-15_58408

ATTACHMENT 2
Analytical Data Package

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-119077-1
Client Project/Site: Will Co. Station Ash Ponds

For:
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 2B
Brookfield, Wisconsin 53005

Attn: Richard Gnat

Authorized for release by:
11/11/2016 4:37:03 PM

Eric Lang, Manager of Project Management
(708)534-5200
eric.lang@testamericainc.com

Table of Contents

Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Will Co. Station Ash Ponds

TestAmerica Job ID: 500-119077-1

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Job ID: 500-119077-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-119077-1

Comments
No additional comments.

Receipt
The samples were received on 10/26/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 3.0° C, 3.1° C, 3.9° C, 4.2° C and 5.1° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6020A: The continuing calibration verification (CCV) at line 25 in AD batch 500-359638 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 4500 NO2 B: The original Nitrite sample was analyzed within the 48 hour holding time: MW-08 (500-119077-2). After analyzing the Nitrate-Nitrite sample, the results did not match, therefore, the Nitrite was re-analyzed outside of the holding time. It appears that the original sample was contaminated. The Nitrate-Nitrite had a non-detect with is consistent with the Nitrite result.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Will Co. Station Ash Ponds

TestAmerica Job ID: 500-119077-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
314.0	Perchlorate (IC)	EPA	TAL SAC
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9038	Sulfate, Turbidimetric	SW846	TAL CHI
9251	Chloride	SW846	TAL CHI
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 NO2 B	Nitrogen, Nitrite	SM	TAL CHI
SM 4500 NO3 F	Nitrogen, Nitrate	SM	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Will Co. Station Ash Ponds

TestAmerica Job ID: 500-119077-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-119077-1	MW-07	Water	10/25/16 12:57	10/26/16 09:40
500-119077-2	MW-08	Water	10/25/16 16:25	10/26/16 09:40
500-119077-3	MW-09	Water	10/25/16 14:50	10/26/16 09:40
500-119077-4	Duplicate	Water	10/25/16 00:00	10/26/16 09:40
500-119077-5	MW-05	Water	10/26/16 16:44	10/27/16 09:20
500-119077-6	MW-06	Water	10/26/16 09:38	10/27/16 09:20
500-119077-7	MW-10	Water	10/26/16 13:36	10/27/16 09:20
500-119077-8	MW-01	Water	10/27/16 10:32	10/28/16 11:08
500-119077-9	MW-02	Water	10/27/16 11:35	10/28/16 11:08
500-119077-10	MW-03	Water	10/27/16 12:30	10/28/16 11:08
500-119077-11	MW-04	Water	10/27/16 13:44	10/28/16 11:08
500-119077-12	Trip Blank	Water	10/25/16 00:00	10/28/16 11:08

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Client Sample ID: MW-07

Date Collected: 10/25/16 12:57
Date Received: 10/26/16 09:40

Lab Sample ID: 500-119077-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/01/16 17:42	1
Toluene	<0.00050		0.00050		mg/L			11/01/16 17:42	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/01/16 17:42	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/01/16 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 127*		*11/01/16 17:42*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*11/01/16 17:42*	*1*
4-Bromofluorobenzene (Surr)	*113*		*71 - 120*		*11/01/16 17:42*	*1*
Dibromofluoromethane	*89*		*70 - 120*		*11/01/16 17:42*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/04/16 13:53	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 10:41	1
Arsenic	**0.0025**		0.0010		mg/L		11/07/16 10:16	11/07/16 10:41	1
Barium	**0.046**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:41	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 10:41	1
Boron	**3.2**		0.50		mg/L		11/07/16 10:16	11/08/16 10:56	10
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:41	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 10:41	1
Cobalt	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 10:41	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:41	1
Iron	**0.31**		0.10		mg/L		11/07/16 10:16	11/07/16 10:41	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:41	1
Manganese	**0.061**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:41	1
Nickel	**0.0035**		0.0020		mg/L		11/07/16 10:16	11/07/16 10:41	1
Selenium	**0.0061**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:41	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:41	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:41	1
Vanadium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 10:41	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 10:41	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:01	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.021**		0.010		mg/L		11/07/16 10:40	11/07/16 14:53	1
Sulfate	**510**		100		mg/L			11/05/16 23:06	20
Chloride	**130**		10		mg/L			11/01/16 22:14	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/09/16 23:47	1
Total Dissolved Solids	**1200**		10		mg/L			10/29/16 16:50	1
Fluoride	**0.87**		0.10		mg/L			11/05/16 16:03	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/26/16 17:08	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 00:54	1

Client Sample ID: MW-08

Date Collected: 10/25/16 16:25
Date Received: 10/26/16 09:40

Lab Sample ID: 500-119077-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/01/16 18:07	1
Toluene	<0.00050		0.00050		mg/L			11/01/16 18:07	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/01/16 18:07	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/01/16 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 127*		*11/01/16 18:07*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/01/16 18:07*	*1*
4-Bromofluorobenzene (Surr)	*112*		*71 - 120*		*11/01/16 18:07*	*1*
Dibromofluoromethane	*89*		*70 - 120*		*11/01/16 18:07*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/04/16 14:45	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 10:45	1
Arsenic	**0.0064**		0.0010		mg/L		11/07/16 10:16	11/07/16 10:45	1
Barium	**0.063**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:45	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 10:45	1
Boron	**4.1**		0.50		mg/L		11/07/16 10:16	11/08/16 11:00	10
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:45	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 10:45	1
Cobalt	**0.0012**		0.0010		mg/L		11/07/16 10:16	11/07/16 10:45	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:45	1
Iron	**1.1**		0.10		mg/L		11/07/16 10:16	11/07/16 10:45	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:45	1
Manganese	**0.62**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:45	1
Nickel	**0.010**		0.0020		mg/L		11/07/16 10:16	11/07/16 10:45	1
Selenium	<0.0025		0.0025		mg/L		11/07/16 10:16	11/07/16 10:45	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:45	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:45	1
Vanadium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 10:45	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 10:45	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:03	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 10:40	11/07/16 14:53	1
Sulfate	**680**		250		mg/L			11/05/16 23:08	50
Chloride	**130**		10		mg/L			11/01/16 22:15	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/09/16 23:47	1
Total Dissolved Solids	**1700**		10		mg/L			10/29/16 16:54	1
Fluoride	**0.54**		0.10		mg/L			11/05/16 16:06	1
Nitrogen, Nitrite	<0.020	H	0.020		mg/L			11/10/16 20:12	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 00:56	1

Client Sample ID: MW-09

Date Collected: 10/25/16 14:50
Date Received: 10/26/16 09:40

Lab Sample ID: 500-119077-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/01/16 18:32	1
Toluene	<0.00050		0.00050		mg/L			11/01/16 18:32	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/01/16 18:32	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/01/16 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 127*		*11/01/16 18:32*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/01/16 18:32*	*1*
4-Bromofluorobenzene (Surr)	*113*		*71 - 120*		*11/01/16 18:32*	*1*
Dibromofluoromethane	*89*		*70 - 120*		*11/01/16 18:32*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/04/16 15:02	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 10:49	1
Arsenic	**0.0078**		0.0010		mg/L		11/07/16 10:16	11/07/16 10:49	1
Barium	**0.023**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:49	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 10:49	1
Boron	**2.6**		0.50		mg/L		11/07/16 10:16	11/08/16 11:04	10
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:49	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 10:49	1
Cobalt	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 10:49	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:49	1
Iron	<0.10		0.10		mg/L		11/07/16 10:16	11/07/16 10:49	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:49	1
Manganese	**0.0035**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:49	1
Nickel	**0.0023**		0.0020		mg/L		11/07/16 10:16	11/07/16 10:49	1
Selenium	<0.0025		0.0025		mg/L		11/07/16 10:16	11/07/16 10:49	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:49	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:49	1
Vanadium	**0.028**		0.0050		mg/L		11/07/16 10:16	11/07/16 10:49	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 10:49	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:09	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 10:40	11/07/16 14:54	1
Sulfate	**240**		50		mg/L			11/05/16 23:09	10
Chloride	**130**		10		mg/L			11/01/16 22:16	5
Nitrogen, Nitrate	**0.70**		0.10		mg/L			11/09/16 23:54	1
Total Dissolved Solids	**640**		10		mg/L			10/29/16 16:58	1
Fluoride	**0.79**		0.10		mg/L			11/05/16 16:10	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/26/16 17:08	1
Nitrogen, Nitrate Nitrite	**0.70**		0.10		mg/L			11/10/16 01:29	1

Client Sample ID: Duplicate

Lab Sample ID: 500-119077-4

Date Collected: 10/25/16 00:00
Matrix: Water
Date Received: 10/26/16 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/01/16 18:57	1
Toluene	<0.00050		0.00050		mg/L			11/01/16 18:57	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/01/16 18:57	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/01/16 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 127*		*11/01/16 18:57*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/01/16 18:57*	*1*
4-Bromofluorobenzene (Surr)	*113*		*71 - 120*		*11/01/16 18:57*	*1*
Dibromofluoromethane	*88*		*70 - 120*		*11/01/16 18:57*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/04/16 15:20	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 10:53	1
Arsenic	**0.0064**		0.0010		mg/L		11/07/16 10:16	11/07/16 10:53	1
Barium	**0.063**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:53	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 10:53	1
Boron	**4.0**		0.50		mg/L		11/07/16 10:16	11/08/16 11:08	10
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:53	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 10:53	1
Cobalt	**0.0012**		0.0010		mg/L		11/07/16 10:16	11/07/16 10:53	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:53	1
Iron	**1.0**		0.10		mg/L		11/07/16 10:16	11/07/16 10:53	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:53	1
Manganese	**0.63**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:53	1
Nickel	**0.010**		0.0020		mg/L		11/07/16 10:16	11/07/16 10:53	1
Selenium	<0.0025		0.0025		mg/L		11/07/16 10:16	11/07/16 10:53	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:53	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:53	1
Vanadium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 10:53	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 10:53	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:11	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 13:45	11/07/16 18:52	1
Sulfate	**710**		250		mg/L			11/05/16 23:13	50
Chloride	**130**		10		mg/L			11/01/16 22:19	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/09/16 23:54	1
Total Dissolved Solids	**1600**		10		mg/L			10/29/16 17:02	1
Fluoride	**0.54**		0.10		mg/L			11/05/16 16:22	1
Nitrogen, Nitrite	**0.038**		0.020		mg/L			10/26/16 17:09	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 01:31	1

Client Sample ID: MW-05

Date Collected: 10/26/16 16:44
Date Received: 10/27/16 09:20

Lab Sample ID: 500-119077-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/01/16 19:22	1
Toluene	<0.00050		0.00050		mg/L			11/01/16 19:22	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/01/16 19:22	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/01/16 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*71 - 127*		*11/01/16 19:22*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/01/16 19:22*	*1*
4-Bromofluorobenzene (Surr)	*113*		*71 - 120*		*11/01/16 19:22*	*1*
Dibromofluoromethane	*90*		*70 - 120*		*11/01/16 19:22*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/04/16 15:37	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 10:56	1
Arsenic	**0.0060**		0.0010		mg/L		11/07/16 10:16	11/07/16 10:56	1
Barium	**0.033**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:56	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 10:56	1
Boron	**3.9**		0.50		mg/L		11/07/16 10:16	11/08/16 11:11	10
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:56	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 10:56	1
Cobalt	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 10:56	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:56	1
Iron	<0.10		0.10		mg/L		11/07/16 10:16	11/07/16 10:56	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:56	1
Manganese	**0.019**		0.0025		mg/L		11/07/16 10:16	11/07/16 10:56	1
Nickel	**0.0021**		0.0020		mg/L		11/07/16 10:16	11/07/16 10:56	1
Selenium	<0.0025		0.0025		mg/L		11/07/16 10:16	11/07/16 10:56	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:56	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:56	1
Vanadium	**0.030**		0.0050		mg/L		11/07/16 10:16	11/07/16 10:56	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 10:56	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:12	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 13:45	11/07/16 18:54	1
Sulfate	**360**		100		mg/L			11/05/16 23:14	20
Chloride	**120**		10		mg/L			11/01/16 22:22	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/09/16 23:54	1
Total Dissolved Solids	**820**		10		mg/L			10/29/16 17:06	1
Fluoride	**0.72**		0.10		mg/L			11/05/16 16:31	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/27/16 21:45	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 01:33	1

Client Sample ID: MW-06
Date Collected: 10/26/16 09:38
Date Received: 10/27/16 09:20

Lab Sample ID: 500-119077-6
Matrix: Water

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/01/16 19:46	1
Toluene	<0.00050		0.00050		mg/L			11/01/16 19:46	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/01/16 19:46	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/01/16 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*71 - 127*		*11/01/16 19:46*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*11/01/16 19:46*	*1*
4-Bromofluorobenzene (Surr)	*115*		*71 - 120*		*11/01/16 19:46*	*1*
Dibromofluoromethane	*90*		*70 - 120*		*11/01/16 19:46*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/04/16 15:55	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 11:00	1
Arsenic	**0.0031**		0.0010		mg/L		11/07/16 10:16	11/07/16 11:00	1
Barium	**0.084**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:00	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 11:00	1
Boron	**3.9**		0.50		mg/L		11/07/16 10:16	11/08/16 11:15	10
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:00	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:00	1
Cobalt	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 11:00	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:00	1
Iron	**0.15**		0.10		mg/L		11/07/16 10:16	11/07/16 11:00	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:00	1
Manganese	**0.13**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:00	1
Nickel	**0.0039**		0.0020		mg/L		11/07/16 10:16	11/07/16 11:00	1
Selenium	**0.0028**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:00	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:00	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:00	1
Vanadium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:00	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 11:00	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:14	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 13:45	11/07/16 18:54	1
Sulfate	**320**		50		mg/L			11/05/16 23:15	10
Chloride	**73**		2.0		mg/L			11/01/16 23:42	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/09/16 23:54	1
Total Dissolved Solids	**750**		10		mg/L			10/29/16 17:11	1
Fluoride	**0.39**		0.10		mg/L			11/05/16 16:43	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/27/16 21:45	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 01:40	1

Client Sample ID: MW-10

Date Collected: 10/26/16 13:36
Date Received: 10/27/16 09:20

Lab Sample ID: 500-119077-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/01/16 20:11	1
Toluene	<0.00050		0.00050		mg/L			11/01/16 20:11	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/01/16 20:11	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/01/16 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 127*		*11/01/16 20:11*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/01/16 20:11*	*1*
4-Bromofluorobenzene (Surr)	*111*		*71 - 120*		*11/01/16 20:11*	*1*
Dibromofluoromethane	*89*		*70 - 120*		*11/01/16 20:11*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/04/16 16:12	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 11:04	1
Arsenic	**0.025**		0.0010		mg/L		11/07/16 10:16	11/07/16 11:04	1
Barium	**0.14**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:04	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 11:04	1
Boron	**3.5**		0.50		mg/L		11/07/16 10:16	11/08/16 11:19	10
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:04	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:04	1
Cobalt	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 11:04	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:04	1
Iron	**2.6**		0.10		mg/L		11/07/16 10:16	11/07/16 11:04	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:04	1
Manganese	**0.43**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:04	1
Nickel	**0.0023**		0.0020		mg/L		11/07/16 10:16	11/07/16 11:04	1
Selenium	**0.0029**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:04	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:04	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:04	1
Vanadium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:04	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 11:04	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:15	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 13:45	11/07/16 18:55	1
Sulfate	**240**		50		mg/L			11/05/16 23:19	10
Chloride	**73**		2.0		mg/L			11/01/16 23:43	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/09/16 23:54	1
Total Dissolved Solids	**980**		10		mg/L			10/29/16 17:15	1
Fluoride	**0.52**		0.10		mg/L			11/05/16 16:46	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/27/16 21:45	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 01:42	1

Client Sample ID: MW-01

Date Collected: 10/27/16 10:32
Date Received: 10/28/16 11:08

Lab Sample ID: 500-119077-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/02/16 18:59	1
Toluene	<0.00050		0.00050		mg/L			11/02/16 18:59	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/02/16 18:59	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/02/16 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*71 - 127*		*11/02/16 18:59*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*11/02/16 18:59*	*1*
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*		*11/02/16 18:59*	*1*
Dibromofluoromethane	*106*		*70 - 120*		*11/02/16 18:59*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/04/16 16:30	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 11:08	1
Arsenic	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 11:08	1
Barium	**0.095**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:08	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 11:08	1
Boron	**0.76**		0.050		mg/L		11/07/16 10:16	11/08/16 11:42	1
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:08	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:08	1
Cobalt	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 11:08	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:08	1
Iron	<0.10		0.10		mg/L		11/07/16 10:16	11/07/16 11:08	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:08	1
Manganese	**0.074**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:08	1
Nickel	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:08	1
Selenium	<0.0025		0.0025		mg/L		11/07/16 10:16	11/07/16 11:08	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:08	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:08	1
Vanadium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:08	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 11:08	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:17	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 13:45	11/07/16 18:55	1
Sulfate	**97**		20		mg/L			11/05/16 23:20	4
Chloride	**24**		2.0		mg/L			11/01/16 23:43	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/09/16 23:54	1
Total Dissolved Solids	**480**		10		mg/L			10/29/16 17:19	1
Fluoride	**0.89**		0.10		mg/L			11/05/16 16:49	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/28/16 13:01	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 01:44	1

Client Sample ID: MW-02

Date Collected: 10/27/16 11:35
Date Received: 10/28/16 11:08

Lab Sample ID: 500-119077-9

Matrix: Water

6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/02/16 19:26	1
Toluene	<0.00050		0.00050		mg/L			11/02/16 19:26	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/02/16 19:26	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/02/16 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*71 - 127*		*11/02/16 19:26*	*1*
Toluene-d8 (Surr)	*85*		*75 - 120*		*11/02/16 19:26*	*1*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*		*11/02/16 19:26*	*1*
Dibromofluoromethane	*102*		*70 - 120*		*11/02/16 19:26*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/09/16 17:20	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 11:19	1
Arsenic	**0.017**		0.0010		mg/L		11/07/16 10:16	11/07/16 11:19	1
Barium	**0.093**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:19	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 11:19	1
Boron	**4.9**		0.50		mg/L		11/07/16 10:16	11/08/16 11:46	10
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:19	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:19	1
Cobalt	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 11:19	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:19	1
Iron	**1.0**		0.10		mg/L		11/07/16 10:16	11/07/16 11:19	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:19	1
Manganese	**0.092**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:19	1
Nickel	**0.0038**		0.0020		mg/L		11/07/16 10:16	11/07/16 11:19	1
Selenium	<0.0025		0.0025		mg/L		11/07/16 10:16	11/07/16 11:19	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:19	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:19	1
Vanadium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:19	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 11:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:18	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 13:45	11/07/16 18:56	1
Sulfate	**670**		250		mg/L			11/05/16 23:21	50
Chloride	**71**		2.0		mg/L			11/01/16 23:44	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/09/16 23:54	1
Total Dissolved Solids	**1500**		10		mg/L			10/29/16 17:23	1
Fluoride	**0.36**		0.10		mg/L			11/05/16 16:52	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/28/16 13:01	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 01:45	1

Client Sample ID: MW-03
Date Collected: 10/27/16 12:30
Date Received: 10/28/16 11:08

Lab Sample ID: 500-119077-10
Matrix: Water

6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/02/16 19:54	1
Toluene	<0.00050		0.00050		mg/L			11/02/16 19:54	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/02/16 19:54	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/02/16 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*71 - 127*		*11/02/16 19:54*	*1*
Toluene-d8 (Surr)	*85*		*75 - 120*		*11/02/16 19:54*	*1*
4-Bromofluorobenzene (Surr)	*91*		*71 - 120*		*11/02/16 19:54*	*1*
Dibromofluoromethane	*106*		*70 - 120*		*11/02/16 19:54*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/09/16 18:18	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 11:23	1
Arsenic	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 11:23	1
Barium	**0.11**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:23	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 11:23	1
Boron	**3.3**	**F1**	0.50		mg/L		11/07/16 10:16	11/08/16 11:50	10
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:23	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:23	1
Cobalt	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 11:23	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:23	1
Iron	<0.10		0.10		mg/L		11/07/16 10:16	11/07/16 11:23	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:23	1
Manganese	**0.49**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:23	1
Nickel	**0.0064**		0.0020		mg/L		11/07/16 10:16	11/07/16 11:23	1
Selenium	<0.0025	F1	0.0025		mg/L		11/07/16 10:16	11/07/16 11:23	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:23	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:23	1
Vanadium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:23	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 11:23	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:20	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 13:45	11/07/16 18:58	1
Sulfate	**240**		50		mg/L			11/05/16 23:23	10
Chloride	**22**		2.0		mg/L			11/01/16 23:44	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/09/16 23:54	1
Total Dissolved Solids	**910**		10		mg/L			10/29/16 17:27	1
Fluoride	**0.38**		0.10		mg/L			11/05/16 16:55	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/28/16 13:02	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 01:46	1

Client Sample ID: MW-04

Date Collected: 10/27/16 13:44
Date Received: 10/28/16 11:08

Lab Sample ID: 500-119077-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/03/16 17:27	1
Toluene	<0.00050		0.00050		mg/L			11/03/16 17:27	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/03/16 17:27	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/03/16 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*71 - 127*		*11/03/16 17:27*	*1*
Toluene-d8 (Surr)	*84*		*75 - 120*		*11/03/16 17:27*	*1*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*		*11/03/16 17:27*	*1*
Dibromofluoromethane	*101*		*70 - 120*		*11/03/16 17:27*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/09/16 18:57	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 11:41	1
Arsenic	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 11:41	1
Barium	**0.044**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:41	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 11:41	1
Boron	**6.1**		0.50		mg/L		11/07/16 10:16	11/08/16 12:09	10
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:41	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:41	1
Cobalt	**0.0011**		0.0010		mg/L		11/07/16 10:16	11/07/16 11:41	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:41	1
Iron	**0.16**		0.10		mg/L		11/07/16 10:16	11/07/16 11:41	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:41	1
Manganese	**0.64**		0.0025		mg/L		11/07/16 10:16	11/07/16 11:41	1
Nickel	**0.0058**		0.0020		mg/L		11/07/16 10:16	11/07/16 11:41	1
Selenium	<0.0025		0.0025		mg/L		11/07/16 10:16	11/07/16 11:41	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 11:41	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 11:41	1
Vanadium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 11:41	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 11:41	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 11:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.035**		0.010		mg/L		11/07/16 13:45	11/07/16 18:58	1
Sulfate	**1400**		500		mg/L			11/05/16 23:24	100
Chloride	**72**		2.0		mg/L			11/01/16 23:45	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/09/16 23:54	1
Total Dissolved Solids	**2800**		10		mg/L			11/02/16 02:29	1
Fluoride	**0.50**		0.10		mg/L			11/05/16 16:57	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/28/16 13:02	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 01:49	1

Client Sample ID: Trip Blank
Date Collected: 10/25/16 00:00
Date Received: 10/28/16 11:08

Lab Sample ID: 500-119077-12
Matrix: Water

6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/03/16 17:54	1
Toluene	<0.00050		0.00050		mg/L			11/03/16 17:54	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/03/16 17:54	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/03/16 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*71 - 127*		*11/03/16 17:54*	*1*
Toluene-d8 (Surr)	*84*		*75 - 120*		*11/03/16 17:54*	*1*
4-Bromofluorobenzene (Surr)	*88*		*71 - 120*		*11/03/16 17:54*	*1*
Dibromofluoromethane	*100*		*70 - 120*		*11/03/16 17:54*	*1*

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix sp ke concentration; therefore, control limits are not applicable.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Analysis Batch: 358710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Total/NA	Water	8260B	
500-119077-2	MW-08	Total/NA	Water	8260B	
500-119077-3	MW-09	Total/NA	Water	8260B	
500-119077-4	Duplicate	Total/NA	Water	8260B	
500-119077-5	MW-05	Total/NA	Water	8260B	
500-119077-6	MW-06	Total/NA	Water	8260B	
500-119077-7	MW-10	Total/NA	Water	8260B	
MB 500-358710/6	Method Blank	Total/NA	Water	8260B	
LCS 500-358710/4	Lab Control Sample	Total/NA	Water	8260B	
500-119077-7 MS	MW-10	Total/NA	Water	8260B	
500-119077-7 MSD	MW-10	Total/NA	Water	8260B	

Analysis Batch: 358905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-8	MW-01	Total/NA	Water	8260B	
500-119077-9	MW-02	Total/NA	Water	8260B	
500-119077-10	MW-03	Total/NA	Water	8260B	
MB 500-358905/6	Method Blank	Total/NA	Water	8260B	
LCS 500-358905/4	Lab Control Sample	Total/NA	Water	8260B	
500-119077-10 MS	MW-03	Total/NA	Water	8260B	
500-119077-10 MSD	MW-03	Total/NA	Water	8260B	

Analysis Batch: 359086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-11	MW-04	Total/NA	Water	8260B	
500-119077-12	Trip Blank	Total/NA	Water	8260B	
MB 500-359086/6	Method Blank	Total/NA	Water	8260B	
LCS 500-359086/4	Lab Control Sample	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 136362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Total/NA	Water	314.0	
500-119077-2	MW-08	Total/NA	Water	314.0	
500-119077-3	MW-09	Total/NA	Water	314.0	
500-119077-4	Duplicate	Total/NA	Water	314.0	
500-119077-5	MW-05	Total/NA	Water	314.0	
500-119077-6	MW-06	Total/NA	Water	314.0	
500-119077-7	MW-10	Total/NA	Water	314.0	
500-119077-8	MW-01	Total/NA	Water	314.0	
MB 320-136362/5	Method Blank	Total/NA	Water	314.0	
LCS 320-136362/6	Lab Control Sample	Total/NA	Water	314.0	
MRL 320-136362/4	Lab Control Sample	Total/NA	Water	314.0	
500-119077-1 MS	MW-07	Total/NA	Water	314.0	
500-119077-1 MSD	MW-07	Total/NA	Water	314.0	

Analysis Batch: 137019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-9	MW-02	Total/NA	Water	314.0	

HPLC/IC (Continued)

Analysis Batch: 137019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-10	MW-03	Total/NA	Water	314.0	
500-119077-11	MW-04	Total/NA	Water	314.0	
MB 320-137019/15	Method Blank	Total/NA	Water	314.0	
LCS 320-137019/16	Lab Control Sample	Total/NA	Water	314.0	
MRL 320-137019/4	Lab Control Sample	Total/NA	Water	314.0	
500-119077-9 MS	MW-02	Total/NA	Water	314.0	
500-119077-9 MSD	MW-02	Total/NA	Water	314.0	

Metals

Prep Batch: 358599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	7470A	
500-119077-2	MW-08	Dissolved	Water	7470A	
500-119077-3	MW-09	Dissolved	Water	7470A	
500-119077-4	Duplicate	Dissolved	Water	7470A	
500-119077-5	MW-05	Dissolved	Water	7470A	
500-119077-6	MW-06	Dissolved	Water	7470A	
500-119077-7	MW-10	Dissolved	Water	7470A	
500-119077-8	MW-01	Dissolved	Water	7470A	
500-119077-9	MW-02	Dissolved	Water	7470A	
500-119077-10	MW-03	Dissolved	Water	7470A	
500-119077-11	MW-04	Dissolved	Water	7470A	
MB 500-358599/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-358599/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-119077-11 MS	MW-04	Dissolved	Water	7470A	
500-119077-11 MSD	MW-04	Dissolved	Water	7470A	
500-119077-11 DU	MW-04	Dissolved	Water	7470A	

Analysis Batch: 358757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	7470A	358599
500-119077-2	MW-08	Dissolved	Water	7470A	358599
500-119077-3	MW-09	Dissolved	Water	7470A	358599
500-119077-4	Duplicate	Dissolved	Water	7470A	358599
500-119077-5	MW-05	Dissolved	Water	7470A	358599
500-119077-6	MW-06	Dissolved	Water	7470A	358599
500-119077-7	MW-10	Dissolved	Water	7470A	358599
500-119077-8	MW-01	Dissolved	Water	7470A	358599
500-119077-9	MW-02	Dissolved	Water	7470A	358599
500-119077-10	MW-03	Dissolved	Water	7470A	358599
500-119077-11	MW-04	Dissolved	Water	7470A	358599
MB 500-358599/12-A	Method Blank	Total/NA	Water	7470A	358599
LCS 500-358599/13-A	Lab Control Sample	Total/NA	Water	7470A	358599
500-119077-11 MS	MW-04	Dissolved	Water	7470A	358599
500-119077-11 MSD	MW-04	Dissolved	Water	7470A	358599
500-119077-11 DU	MW-04	Dissolved	Water	7470A	358599

Metals (Continued)

Prep Batch: 359583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	Soluble Metals	
500-119077-2	MW-08	Dissolved	Water	Soluble Metals	
500-119077-3	MW-09	Dissolved	Water	Soluble Metals	
500-119077-4	Duplicate	Dissolved	Water	Soluble Metals	
500-119077-5	MW-05	Dissolved	Water	Soluble Metals	
500-119077-6	MW-06	Dissolved	Water	Soluble Metals	
500-119077-7	MW-10	Dissolved	Water	Soluble Metals	
500-119077-8	MW-01	Dissolved	Water	Soluble Metals	
500-119077-9	MW-02	Dissolved	Water	Soluble Metals	
500-119077-10	MW-03	Dissolved	Water	Soluble Metals	
500-119077-11	MW-04	Dissolved	Water	Soluble Metals	
MB 500-359583/1-A	Method Blank	Soluble	Water	Soluble Metals	
LCS 500-359583/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	
500-119077-10 MS	MW-03	Dissolved	Water	Soluble Metals	
500-119077-10 MSD	MW-03	Dissolved	Water	Soluble Metals	
500-119077-10 DU	MW-03	Dissolved	Water	Soluble Metals	

Analysis Batch: 359638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	6020A	359583
500-119077-2	MW-08	Dissolved	Water	6020A	359583
500-119077-3	MW-09	Dissolved	Water	6020A	359583
500-119077-4	Duplicate	Dissolved	Water	6020A	359583
500-119077-5	MW-05	Dissolved	Water	6020A	359583
500-119077-6	MW-06	Dissolved	Water	6020A	359583
500-119077-7	MW-10	Dissolved	Water	6020A	359583
500-119077-8	MW-01	Dissolved	Water	6020A	359583
500-119077-9	MW-02	Dissolved	Water	6020A	359583
500-119077-10	MW-03	Dissolved	Water	6020A	359583
500-119077-11	MW-04	Dissolved	Water	6020A	359583
MB 500-359583/1-A	Method Blank	Soluble	Water	6020A	359583
LCS 500-359583/2-A	Lab Control Sample	Soluble	Water	6020A	359583
500-119077-10 MS	MW-03	Dissolved	Water	6020A	359583
500-119077-10 MSD	MW-03	Dissolved	Water	6020A	359583
500-119077-10 DU	MW-03	Dissolved	Water	6020A	359583

Analysis Batch: 359842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	6020A	359583
500-119077-2	MW-08	Dissolved	Water	6020A	359583
500-119077-3	MW-09	Dissolved	Water	6020A	359583
500-119077-4	Duplicate	Dissolved	Water	6020A	359583
500-119077-5	MW-05	Dissolved	Water	6020A	359583
500-119077-6	MW-06	Dissolved	Water	6020A	359583
500-119077-7	MW-10	Dissolved	Water	6020A	359583
500-119077-8	MW-01	Dissolved	Water	6020A	359583
500-119077-9	MW-02	Dissolved	Water	6020A	359583
500-119077-10	MW-03	Dissolved	Water	6020A	359583
500-119077-11	MW-04	Dissolved	Water	6020A	359583
MB 500-359583/1-A	Method Blank	Soluble	Water	6020A	359583
LCS 500-359583/2-A	Lab Control Sample	Soluble	Water	6020A	359583

Metals (Continued)

Analysis Batch: 359842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-10 MS	MW-03	Dissolved	Water	6020A	359583
500-119077-10 MSD	MW-03	Dissolved	Water	6020A	359583
500-119077-10 DU	MW-03	Dissolved	Water	6020A	359583

General Chemistry

Analysis Batch: 358025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	SM 4500 NO2 B	
500-119077-3	MW-09	Dissolved	Water	SM 4500 NO2 B	
500-119077-4	Duplicate	Dissolved	Water	SM 4500 NO2 B	
MB 500-358025/10	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-358025/11	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 358336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-5	MW-05	Dissolved	Water	SM 4500 NO2 B	
500-119077-6	MW-06	Dissolved	Water	SM 4500 NO2 B	
500-119077-7	MW-10	Dissolved	Water	SM 4500 NO2 B	
MB 500-358336/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-358336/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 358339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-8	MW-01	Dissolved	Water	SM 4500 NO2 B	
500-119077-9	MW-02	Dissolved	Water	SM 4500 NO2 B	
500-119077-10	MW-03	Dissolved	Water	SM 4500 NO2 B	
500-119077-11	MW-04	Dissolved	Water	SM 4500 NO2 B	
MB 500-358339/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-358339/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

Analysis Batch: 358426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	SM 2540C	
500-119077-2	MW-08	Dissolved	Water	SM 2540C	
500-119077-3	MW-09	Dissolved	Water	SM 2540C	
500-119077-4	Duplicate	Dissolved	Water	SM 2540C	
500-119077-5	MW-05	Dissolved	Water	SM 2540C	
500-119077-6	MW-06	Dissolved	Water	SM 2540C	
500-119077-7	MW-10	Dissolved	Water	SM 2540C	
500-119077-8	MW-01	Dissolved	Water	SM 2540C	
500-119077-9	MW-02	Dissolved	Water	SM 2540C	
500-119077-10	MW-03	Dissolved	Water	SM 2540C	
MB 500-358426/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-358426/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 358845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	9251	
500-119077-2	MW-08	Dissolved	Water	9251	

General Chemistry (Continued)

Analysis Batch: 358845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-3	MW-09	Dissolved	Water	9251	
500-119077-4	Duplicate	Dissolved	Water	9251	
500-119077-5	MW-05	Dissolved	Water	9251	
500-119077-6	MW-06	Dissolved	Water	9251	
500-119077-7	MW-10	Dissolved	Water	9251	
500-119077-8	MW-01	Dissolved	Water	9251	
500-119077-9	MW-02	Dissolved	Water	9251	
500-119077-10	MW-03	Dissolved	Water	9251	
500-119077-11	MW-04	Dissolved	Water	9251	
MB 500-358845/12	Method Blank	Total/NA	Water	9251	
LCS 500-358845/13	Lab Control Sample	Total/NA	Water	9251	
500-119077-3 MS	MW-09	Dissolved	Water	9251	
500-119077-3 MSD	MW-09	Dissolved	Water	9251	

Analysis Batch: 358861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-11	MW-04	Dissolved	Water	SM 2540C	
MB 500-358861/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-358861/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-119077-11 MS	MW-04	Dissolved	Water	SM 2540C	
500-119077-11 DU	MW-04	Dissolved	Water	SM 2540C	

Analysis Batch: 359569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	9038	
500-119077-2	MW-08	Dissolved	Water	9038	
500-119077-3	MW-09	Dissolved	Water	9038	
500-119077-4	Duplicate	Dissolved	Water	9038	
500-119077-5	MW-05	Dissolved	Water	9038	
500-119077-6	MW-06	Dissolved	Water	9038	
500-119077-7	MW-10	Dissolved	Water	9038	
500-119077-8	MW-01	Dissolved	Water	9038	
500-119077-9	MW-02	Dissolved	Water	9038	
500-119077-10	MW-03	Dissolved	Water	9038	
500-119077-11	MW-04	Dissolved	Water	9038	
MB 500-359569/3	Method Blank	Total/NA	Water	9038	
LCS 500-359569/4	Lab Control Sample	Total/NA	Water	9038	
500-119077-3 MS	MW-09	Dissolved	Water	9038	
500-119077-3 MSD	MW-09	Dissolved	Water	9038	

Prep Batch: 359575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	9010B	
500-119077-2	MW-08	Dissolved	Water	9010B	
500-119077-3	MW-09	Dissolved	Water	9010B	
MB 500-359575/8-A	Method Blank	Total/NA	Water	9010B	
LCS 500-359575/9-A	Lab Control Sample	Total/NA	Water	9010B	

Prep Batch: 359613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-4	Duplicate	Dissolved	Water	9010B	

General Chemistry (Continued)

Prep Batch: 359613 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-5	MW-05	Dissolved	Water	9010B	
500-119077-6	MW-06	Dissolved	Water	9010B	
500-119077-7	MW-10	Dissolved	Water	9010B	
500-119077-8	MW-01	Dissolved	Water	9010B	
500-119077-9	MW-02	Dissolved	Water	9010B	
500-119077-10	MW-03	Dissolved	Water	9010B	
500-119077-11	MW-04	Dissolved	Water	9010B	
MB 500-359613/1-A	Method Blank	Total/NA	Water	9010B	
LCS 500-359613/2-A	Lab Control Sample	Total/NA	Water	9010B	
500-119077-4 MS	Duplicate	Dissolved	Water	9010B	
500-119077-4 MSD	Duplicate	Dissolved	Water	9010B	

Analysis Batch: 359614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	SM 4500 F C	
500-119077-2	MW-08	Dissolved	Water	SM 4500 F C	
500-119077-3	MW-09	Dissolved	Water	SM 4500 F C	
500-119077-4	Duplicate	Dissolved	Water	SM 4500 F C	
500-119077-5	MW-05	Dissolved	Water	SM 4500 F C	
500-119077-6	MW-06	Dissolved	Water	SM 4500 F C	
500-119077-7	MW-10	Dissolved	Water	SM 4500 F C	
500-119077-8	MW-01	Dissolved	Water	SM 4500 F C	
500-119077-9	MW-02	Dissolved	Water	SM 4500 F C	
500-119077-10	MW-03	Dissolved	Water	SM 4500 F C	
500-119077-11	MW-04	Dissolved	Water	SM 4500 F C	
MB 500-359614/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-359614/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-359614/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-359614/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-119077-4 MS	Duplicate	Dissolved	Water	SM 4500 F C	
500-119077-4 MSD	Duplicate	Dissolved	Water	SM 4500 F C	

Analysis Batch: 359639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	9014	359575
500-119077-2	MW-08	Dissolved	Water	9014	359575
500-119077-3	MW-09	Dissolved	Water	9014	359575
MB 500-359575/8-A	Method Blank	Total/NA	Water	9014	359575
LCS 500-359575/9-A	Lab Control Sample	Total/NA	Water	9014	359575

Analysis Batch: 359710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-4	Duplicate	Dissolved	Water	9014	359613
500-119077-5	MW-05	Dissolved	Water	9014	359613
500-119077-6	MW-06	Dissolved	Water	9014	359613
500-119077-7	MW-10	Dissolved	Water	9014	359613
500-119077-8	MW-01	Dissolved	Water	9014	359613
500-119077-9	MW-02	Dissolved	Water	9014	359613
500-119077-10	MW-03	Dissolved	Water	9014	359613
500-119077-11	MW-04	Dissolved	Water	9014	359613
MB 500-359613/1-A	Method Blank	Total/NA	Water	9014	359613

General Chemistry (Continued)

Analysis Batch: 359710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-359613/2-A	Lab Control Sample	Total/NA	Water	9014	359613
500-119077-4 MS	Duplicate	Dissolved	Water	9014	359613
500-119077-4 MSD	Duplicate	Dissolved	Water	9014	359613

Prep Batch: 360015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-360015/1-A	Method Blank	Total/NA	Water	9010B	
LCS 500-360015/2-A	Lab Control Sample	Total/NA	Water	9010B	

Analysis Batch: 360089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-360015/1-A	Method Blank	Total/NA	Water	9014	360015
LCS 500-360015/2-A	Lab Control Sample	Total/NA	Water	9014	360015

Analysis Batch: 360112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	Nitrate by calc	
500-119077-2	MW-08	Dissolved	Water	Nitrate by calc	
500-119077-3	MW-09	Dissolved	Water	Nitrate by calc	
500-119077-4	Duplicate	Dissolved	Water	Nitrate by calc	
500-119077-5	MW-05	Dissolved	Water	Nitrate by calc	
500-119077-6	MW-06	Dissolved	Water	Nitrate by calc	
500-119077-7	MW-10	Dissolved	Water	Nitrate by calc	
500-119077-8	MW-01	Dissolved	Water	Nitrate by calc	
500-119077-9	MW-02	Dissolved	Water	Nitrate by calc	
500-119077-10	MW-03	Dissolved	Water	Nitrate by calc	
500-119077-11	MW-04	Dissolved	Water	Nitrate by calc	

Analysis Batch: 360253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-1	MW-07	Dissolved	Water	SM 4500 NO3 F	
500-119077-2	MW-08	Dissolved	Water	SM 4500 NO3 F	
500-119077-3	MW-09	Dissolved	Water	SM 4500 NO3 F	
500-119077-4	Duplicate	Dissolved	Water	SM 4500 NO3 F	
500-119077-5	MW-05	Dissolved	Water	SM 4500 NO3 F	
500-119077-6	MW-06	Dissolved	Water	SM 4500 NO3 F	
500-119077-7	MW-10	Dissolved	Water	SM 4500 NO3 F	
500-119077-8	MW-01	Dissolved	Water	SM 4500 NO3 F	
500-119077-9	MW-02	Dissolved	Water	SM 4500 NO3 F	
500-119077-10	MW-03	Dissolved	Water	SM 4500 NO3 F	
500-119077-11	MW-04	Dissolved	Water	SM 4500 NO3 F	
MB 500-360253/4	Method Blank	Total/NA	Water	SM 4500 NO3 F	
LCS 500-360253/5	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
500-119077-5 MS	MW-05	Dissolved	Water	SM 4500 NO3 F	
500-119077-5 MSD	MW-05	Dissolved	Water	SM 4500 NO3 F	

Analysis Batch: 360466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119077-2	MW-08	Dissolved	Water	SM 4500 NO2 B	
MB 500-360466/31	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-360466/32	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

Surrogate Summary

Client: KPRG and Associates, Inc.
Project/Site: Will Co. Station Ash Ponds

TestAmerica Job ID: 500-119077-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (71-127)	TOL (75-120)	BFB (71-120)	DBFM (70-120)
500-119077-1	MW-07	99	91	113	89
500-119077-2	MW-08	97	93	112	89
500-119077-3	MW-09	99	92	113	89
500-119077-4	Duplicate	97	93	113	88
500-119077-5	MW-05	98	93	113	90
500-119077-6	MW-06	99	94	115	90
500-119077-7	MW-10	97	93	111	89
500-119077-7 MS	MW-10	95	96	104	87
500-119077-7 MSD	MW-10	97	96	105	86
500-119077-8	MW-01	113	89	94	106
500-119077-9	MW-02	121	85	89	102
500-119077-10	MW-03	113	85	91	106
500-119077-10 MS	MW-03	110	86	88	100
500-119077-10 MSD	MW-03	111	85	87	101
500-119077-11	MW-04	108	84	89	101
500-119077-12	Trip Blank	108	84	88	100
LCS 500-358710/4	Lab Control Sample	92	96	102	84
LCS 500-358905/4	Lab Control Sample	106	85	86	99
LCS 500-359086/4	Lab Control Sample	107	87	92	97
MB 500-358710/6	Method Blank	97	93	113	89
MB 500-358905/6	Method Blank	111	83	88	103
MB 500-359086/6	Method Blank	113	84	91	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-358710/6
Matrix: Water
Analysis Batch: 358710

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/01/16 12:18	1
Toluene	<0.00050		0.00050		mg/L			11/01/16 12:18	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/01/16 12:18	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/01/16 12:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 127*		*11/01/16 12:18*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/01/16 12:18*	*1*
4-Bromofluorobenzene (Surr)	*113*		*71 - 120*		*11/01/16 12:18*	*1*
Dibromofluoromethane	*89*		*70 - 120*		*11/01/16 12:18*	*1*

Lab Sample ID: LCS 500-358710/4
Matrix: Water
Analysis Batch: 358710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0544		mg/L		109	70 - 125
Toluene	0.0500	0.0598		mg/L		120	70 - 125
Ethylbenzene	0.0500	0.0571		mg/L		114	70 - 125
Xylenes, Total	0.100	0.120		mg/L		120	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*71 - 127*
Toluene-d8 (Surr)	*96*		*75 - 120*
4-Bromofluorobenzene (Surr)	*102*		*71 - 120*
Dibromofluoromethane	*84*		*70 - 120*

Lab Sample ID: 500-119077-7 MS
Matrix: Water
Analysis Batch: 358710

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00050		0.0500	0.0514		mg/L		103	70 - 125
Toluene	<0.00050		0.0500	0.0555		mg/L		110	70 - 125
Ethylbenzene	<0.00050		0.0500	0.0516		mg/L		103	70 - 125
Xylenes, Total	<0.0010		0.100	0.110		mg/L		110	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*71 - 127*
Toluene-d8 (Surr)	*96*		*75 - 120*
4-Bromofluorobenzene (Surr)	*104*		*71 - 120*
Dibromofluoromethane	*87*		*70 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-119077-7 MSD
Matrix: Water
Analysis Batch: 358710

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00050		0.0500	0.0513		mg/L		103	70 - 125	0	20
Toluene	<0.00050		0.0500	0.0554		mg/L		110	70 - 125	0	20
Ethylbenzene	<0.00050		0.0500	0.0511		mg/L		102	70 - 125	1	20
Xylenes, Total	<0.0010		0.100	0.110		mg/L		110	70 - 125	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*71 - 127*
Toluene-d8 (Surr)	*96*		*75 - 120*
4-Bromofluorobenzene (Surr)	*105*		*71 - 120*
Dibromofluoromethane	*86*		*70 - 120*

Lab Sample ID: MB 500-358905/6
Matrix: Water
Analysis Batch: 358905

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/02/16 11:33	1
Toluene	<0.00050		0.00050		mg/L			11/02/16 11:33	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/02/16 11:33	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/02/16 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*71 - 127*		*11/02/16 11:33*	*1*
Toluene-d8 (Surr)	*83*		*75 - 120*		*11/02/16 11:33*	*1*
4-Bromofluorobenzene (Surr)	*88*		*71 - 120*		*11/02/16 11:33*	*1*
Dibromofluoromethane	*103*		*70 - 120*		*11/02/16 11:33*	*1*

Lab Sample ID: LCS 500-358905/4
Matrix: Water
Analysis Batch: 358905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0464		mg/L		93	70 - 125
Toluene	0.0500	0.0444		mg/L		89	70 - 125
Ethylbenzene	0.0500	0.0440		mg/L		88	70 - 125
Xylenes, Total	0.100	0.0899		mg/L		90	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*71 - 127*
Toluene-d8 (Surr)	*85*		*75 - 120*
4-Bromofluorobenzene (Surr)	*86*		*71 - 120*
Dibromofluoromethane	*99*		*70 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-119077-10 MS
Matrix: Water
Analysis Batch: 358905

Client Sample ID: MW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00050		0.0500	0.0515		mg/L		103	70 - 125
Toluene	<0.00050		0.0500	0.0507		mg/L		101	70 - 125
Ethylbenzene	<0.00050		0.0500	0.0497		mg/L		99	70 - 125
Xylenes, Total	<0.0010		0.100	0.102		mg/L		102	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*71 - 127*
Toluene-d8 (Surr)	*86*		*75 - 120*
4-Bromofluorobenzene (Surr)	*88*		*71 - 120*
Dibromofluoromethane	*100*		*70 - 120*

Lab Sample ID: 500-119077-10 MSD
Matrix: Water
Analysis Batch: 358905

Client Sample ID: MW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00050		0.0500	0.0483		mg/L		97	70 - 125	7	20
Toluene	<0.00050		0.0500	0.0468		mg/L		94	70 - 125	8	20
Ethylbenzene	<0.00050		0.0500	0.0458		mg/L		92	70 - 125	8	20
Xylenes, Total	<0.0010		0.100	0.0938		mg/L		94	70 - 125	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*71 - 127*
Toluene-d8 (Surr)	*85*		*75 - 120*
4-Bromofluorobenzene (Surr)	*87*		*71 - 120*
Dibromofluoromethane	*101*		*70 - 120*

Lab Sample ID: MB 500-359086/6
Matrix: Water
Analysis Batch: 359086

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			11/03/16 12:21	1
Toluene	<0.00050		0.00050		mg/L			11/03/16 12:21	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/03/16 12:21	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/03/16 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*71 - 127*		*11/03/16 12:21*	*1*
Toluene-d8 (Surr)	*84*		*75 - 120*		*11/03/16 12:21*	*1*
4-Bromofluorobenzene (Surr)	*91*		*71 - 120*		*11/03/16 12:21*	*1*
Dibromofluoromethane	*104*		*70 - 120*		*11/03/16 12:21*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-359086/4
Matrix: Water
Analysis Batch: 359086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0480		mg/L		96	70 - 125
Toluene	0.0500	0.0473		mg/L		95	70 - 125
Ethylbenzene	0.0500	0.0458		mg/L		92	70 - 125
Xylenes, Total	0.100	0.0945		mg/L		94	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 127*
Toluene-d8 (Surr)	*87*		*75 - 120*
4-Bromofluorobenzene (Surr)	*92*		*71 - 120*
Dibromofluoromethane	*97*		*70 - 120*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-136362/5
Matrix: Water
Analysis Batch: 136362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/04/16 10:58	1

Lab Sample ID: LCS 320-136362/6
Matrix: Water
Analysis Batch: 136362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.0511		mg/L		102	85 - 115

Lab Sample ID: MRL 320-136362/4
Matrix: Water
Analysis Batch: 136362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	<4.0		ug/L		99	75 - 125

Lab Sample ID: 500-119077-1 MS
Matrix: Water
Analysis Batch: 136362

Client Sample ID: MW-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	<0.0040		0.0500	0.0493		mg/L		99	80 - 120

Lab Sample ID: 500-119077-1 MSD
Matrix: Water
Analysis Batch: 136362

Client Sample ID: MW-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	<0.0040		0.0500	0.0434		mg/L		87	80 - 120	13	20

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: MB 320-137019/15
Matrix: Water
Analysis Batch: 137019

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/09/16 16:41	1

Lab Sample ID: LCS 320-137019/16
Matrix: Water
Analysis Batch: 137019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.0534		mg/L		107	85 - 115

Lab Sample ID: MRL 320-137019/4
Matrix: Water
Analysis Batch: 137019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	4.31		ug/L		108	75 - 125

Lab Sample ID: 500-119077-9 MS
Matrix: Water
Analysis Batch: 137019

Client Sample ID: MW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	<0.0040		0.0500	0.0529		mg/L		106	80 - 120

Lab Sample ID: 500-119077-9 MSD
Matrix: Water
Analysis Batch: 137019

Client Sample ID: MW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	<0.0040		0.0500	0.0544		mg/L		109	80 - 120	3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 500-119077-10 MS
Matrix: Water
Analysis Batch: 359638

Client Sample ID: MW-03
Prep Type: Dissolved
Prep Batch: 359583

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030		0.500	0.558		mg/L		112	75 - 125
Arsenic	<0.0010		0.100	0.119		mg/L		118	75 - 125
Barium	0.11		0.500	0.651		mg/L		108	75 - 125
Beryllium	<0.0010	^	0.0500	0.0542	^	mg/L		108	75 - 125
Cadmium	<0.00050		0.0500	0.0545		mg/L		109	75 - 125
Chromium	<0.0050		0.200	0.217		mg/L		108	75 - 125
Cobalt	<0.0010		0.500	0.548		mg/L		109	75 - 125
Copper	<0.0020		0.250	0.271		mg/L		109	75 - 125
Iron	<0.10		1.00	1.10		mg/L		107	75 - 125
Lead	<0.00050		0.100	0.114		mg/L		114	75 - 125
Manganese	0.49		0.500	1.02		mg/L		106	75 - 125
Nickel	0.0064		0.500	0.542		mg/L		107	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-119077-10 MS — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 359638 — **Prep Batch: 359583**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	<0.0025	F1	0.100	0.126	F1	mg/L		126	75 - 125
Silver	<0.00050		0.0500	0.0480		mg/L		96	75 - 125
Thallium	<0.0020		0.100	0.115		mg/L		115	75 - 125
Vanadium	<0.0050		0.500	0.556		mg/L		111	75 - 125
Zinc	<0.020		0.500	0.550		mg/L		109	75 - 125

Lab Sample ID: 500-119077-10 MS — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 359842 — **Prep Batch: 359583**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	3.3	F1	1.00	4.57	F1	mg/L		130	75 - 125

Lab Sample ID: 500-119077-10 MSD — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 359638 — **Prep Batch: 359583**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.549		mg/L		110	75 - 125	2	20
Arsenic	<0.0010		0.100	0.117		mg/L		116	75 - 125	2	20
Barium	0.11		0.500	0.646		mg/L		107	75 - 125	1	20
Beryllium	<0.0010	^	0.0500	0.0552	^	mg/L		110	75 - 125	2	20
Cadmium	<0.00050		0.0500	0.0532		mg/L		106	75 - 125	2	20
Chromium	<0.0050		0.200	0.218		mg/L		109	75 - 125	0	20
Cobalt	<0.0010		0.500	0.544		mg/L		109	75 - 125	1	20
Copper	<0.0020		0.250	0.269		mg/L		107	75 - 125	1	20
Iron	<0.10		1.00	1.11		mg/L		108	75 - 125	1	20
Lead	<0.00050		0.100	0.121		mg/L		121	75 - 125	6	20
Manganese	0.49		0.500	1.01		mg/L		105	75 - 125	1	20
Nickel	0.0064		0.500	0.545		mg/L		108	75 - 125	1	20
Selenium	<0.0025	F1	0.100	0.123		mg/L		123	75 - 125	2	20
Silver	<0.00050		0.0500	0.0471		mg/L		94	75 - 125	2	20
Thallium	<0.0020		0.100	0.124		mg/L		124	75 - 125	8	20
Vanadium	<0.0050		0.500	0.554		mg/L		111	75 - 125	0	20
Zinc	<0.020		0.500	0.543		mg/L		107	75 - 125	1	20

Lab Sample ID: 500-119077-10 MSD — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 359842 — **Prep Batch: 359583**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	3.3	F1	1.00	4.49		mg/L		122	75 - 125	2	20

Lab Sample ID: 500-119077-10 DU — **Client Sample ID: MW-03**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 359638 — **Prep Batch: 359583**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-119077-10 DU
Matrix: Water
Analysis Batch: 359638

Client Sample ID: MW-03
Prep Type: Dissolved
Prep Batch: 359583

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.11		0.110		mg/L		2	20
Beryllium	<0.0010	^	<0.0010	^	mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Copper	<0.0020		<0.0020		mg/L		NC	20
Iron	<0.10		<0.10		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Manganese	0.49		0.501		mg/L		2	20
Nickel	0.0064		0.00644		mg/L		0.4	20
Selenium	<0.0025	F1	<0.0025		mg/L		NC	20
Silver	<0.00050		<0.00050		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20
Vanadium	<0.0050		<0.0050		mg/L		NC	20
Zinc	<0.020		<0.020		mg/L		NC	20

Lab Sample ID: 500-119077-10 DU
Matrix: Water
Analysis Batch: 359842

Client Sample ID: MW-03
Prep Type: Dissolved
Prep Batch: 359583

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	3.3	F1	3.57		mg/L		9	20

Lab Sample ID: MB 500-359583/1-A
Matrix: Water
Analysis Batch: 359638

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 359583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/07/16 10:16	11/07/16 10:34	1
Arsenic	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 10:34	1
Barium	<0.0025		0.0025		mg/L		11/07/16 10:16	11/07/16 10:34	1
Beryllium	<0.0010	^	0.0010		mg/L		11/07/16 10:16	11/07/16 10:34	1
Cadmium	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:34	1
Chromium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 10:34	1
Cobalt	<0.0010		0.0010		mg/L		11/07/16 10:16	11/07/16 10:34	1
Copper	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:34	1
Iron	<0.10		0.10		mg/L		11/07/16 10:16	11/07/16 10:34	1
Lead	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:34	1
Manganese	<0.0025		0.0025		mg/L		11/07/16 10:16	11/07/16 10:34	1
Nickel	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:34	1
Selenium	<0.0025		0.0025		mg/L		11/07/16 10:16	11/07/16 10:34	1
Silver	<0.00050		0.00050		mg/L		11/07/16 10:16	11/07/16 10:34	1
Thallium	<0.0020		0.0020		mg/L		11/07/16 10:16	11/07/16 10:34	1
Vanadium	<0.0050		0.0050		mg/L		11/07/16 10:16	11/07/16 10:34	1
Zinc	<0.020		0.020		mg/L		11/07/16 10:16	11/07/16 10:34	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-359583/1-A
Matrix: Water
Analysis Batch: 359842

Client Sample ID: Method Blank
Prep Type: Soluble
Prep Batch: 359583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		11/07/16 10:16	11/08/16 10:49	1

Lab Sample ID: LCS 500-359583/2-A
Matrix: Water
Analysis Batch: 359638

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 359583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.491		mg/L		98	80 - 120
Arsenic	0.100	0.0973		mg/L		97	80 - 120
Barium	0.500	0.499		mg/L		100	80 - 120
Beryllium	0.0500	0.0516	^	mg/L		103	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Copper	0.250	0.257		mg/L		103	80 - 120
Iron	1.00	1.08		mg/L		108	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Manganese	0.500	0.516		mg/L		103	80 - 120
Nickel	0.500	0.532		mg/L		106	80 - 120
Selenium	0.100	0.0964		mg/L		96	80 - 120
Silver	0.0500	0.0501		mg/L		100	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120
Vanadium	0.500	0.510		mg/L		102	80 - 120
Zinc	0.500	0.502		mg/L		100	80 - 120

Lab Sample ID: LCS 500-359583/2-A
Matrix: Water
Analysis Batch: 359842

Client Sample ID: Lab Control Sample
Prep Type: Soluble
Prep Batch: 359583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.04		mg/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-358599/12-A
Matrix: Water
Analysis Batch: 358757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 358599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/31/16 13:45	11/01/16 10:58	1

Lab Sample ID: LCS 500-358599/13-A
Matrix: Water
Analysis Batch: 358757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 358599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00167		mg/L		83	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 500-119077-11 MS
Matrix: Water
Analysis Batch: 358757

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 358599

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000969		mg/L		97	75 - 125

Lab Sample ID: 500-119077-11 MSD
Matrix: Water
Analysis Batch: 358757

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 358599

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000835		mg/L		83	75 - 125	15	20

Lab Sample ID: 500-119077-11 DU
Matrix: Water
Analysis Batch: 358757

Client Sample ID: MW-04
Prep Type: Dissolved
Prep Batch: 358599

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 9014 - Cyanide

Lab Sample ID: MB 500-359575/8-A
Matrix: Water
Analysis Batch: 359639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 10:40	11/07/16 14:48	1

Lab Sample ID: LCS 500-359575/9-A
Matrix: Water
Analysis Batch: 359639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.0917		mg/L		92	80 - 120

Lab Sample ID: MB 500-359613/1-A
Matrix: Water
Analysis Batch: 359710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/07/16 13:45	11/07/16 18:51	1

Lab Sample ID: LCS 500-359613/2-A
Matrix: Water
Analysis Batch: 359710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.101		mg/L		101	80 - 120

Method: 9014 - Cyanide (Continued)

Lab Sample ID: MB 500-360015/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360089 — **Prep Batch: 360015**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/09/16 13:05	11/09/16 17:15	1

Lab Sample ID: LCS 500-360015/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360089 — **Prep Batch: 360015**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.0990		mg/L		99	80 - 120

Lab Sample ID: 500-119077-4 MS — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 359710 — **Prep Batch: 359613**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	<0.010		0.0400	0.0399		mg/L		100	75 - 125

Lab Sample ID: 500-119077-4 MSD — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 359710 — **Prep Batch: 359613**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	<0.010		0.0400	0.0411		mg/L		103	75 - 125	3	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-359569/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 359569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			11/05/16 23:04	1

Lab Sample ID: LCS 500-359569/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 359569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.1		mg/L		100	80 - 120

Lab Sample ID: 500-119077-3 MS — **Client Sample ID: MW-09**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 359569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	240		400	638		mg/L		100	75 - 125

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: 500-119077-3 MSD — **Client Sample ID: MW-09**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 359569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	240		400	658		mg/L		105	75 - 125	3	20

Method: 9251 - Chloride

Lab Sample ID: MB 500-358845/12 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 358845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			11/01/16 22:12	1

Lab Sample ID: LCS 500-358845/13 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 358845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.6		mg/L		99	80 - 120

Lab Sample ID: 500-119077-3 MS — **Client Sample ID: MW-09**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 358845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	130		50.0	169		mg/L		85	75 - 125

Lab Sample ID: 500-119077-3 MSD — **Client Sample ID: MW-09**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 358845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	130		50.0	171		mg/L		89	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-358426/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 358426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			10/29/16 16:08	1

Lab Sample ID: LCS 500-358426/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 358426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	286		mg/L		114	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 500-358861/1
Matrix: Water
Analysis Batch: 358861

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/02/16 01:10	1

Lab Sample ID: LCS 500-358861/2
Matrix: Water
Analysis Batch: 358861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	256		mg/L		102	80 - 120

Lab Sample ID: 500-119077-11 MS
Matrix: Water
Analysis Batch: 358861

Client Sample ID: MW-04
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2800		250	2960	4	mg/L		76	75 - 125

Lab Sample ID: 500-119077-11 DU
Matrix: Water
Analysis Batch: 358861

Client Sample ID: MW-04
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2800		2780		mg/L		0.2	5

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-359614/3
Matrix: Water
Analysis Batch: 359614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/05/16 14:45	1

Lab Sample ID: MB 500-359614/31
Matrix: Water
Analysis Batch: 359614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/05/16 16:17	1

Lab Sample ID: LCS 500-359614/32
Matrix: Water
Analysis Batch: 359614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.5		mg/L		105	80 - 120

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-359614/4
Matrix: Water
Analysis Batch: 359614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: 500-119077-4 MS
Matrix: Water
Analysis Batch: 359614

Client Sample ID: Duplicate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.54		5.00	5.67		mg/L		103	75 - 125

Lab Sample ID: 500-119077-4 MSD
Matrix: Water
Analysis Batch: 359614

Client Sample ID: Duplicate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.54		5.00	5.70		mg/L		103	75 - 125	1	20

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-358025/10
Matrix: Water
Analysis Batch: 358025

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/26/16 17:02	1

Lab Sample ID: LCS 500-358025/11
Matrix: Water
Analysis Batch: 358025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: MB 500-358336/3
Matrix: Water
Analysis Batch: 358336

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/27/16 21:42	1

Lab Sample ID: LCS 500-358336/4
Matrix: Water
Analysis Batch: 358336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.100	0.0990		mg/L		99	80 - 120

Method: SM 4500 NO2 B - Nitrogen, Nitrite (Continued)

Lab Sample ID: MB 500-358339/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 358339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			10/28/16 12:53	1

Lab Sample ID: LCS 500-358339/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 358339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.100	0.100		mg/L		100	80 - 120

Lab Sample ID: MB 500-360466/31 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			11/10/16 20:08	1

Lab Sample ID: LCS 500-360466/32 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.100	0.110		mg/L		110	80 - 120

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-360253/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/10/16 00:37	1

Lab Sample ID: LCS 500-360253/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 360253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.979		mg/L		98	80 - 120

Lab Sample ID: 500-119077-5 MS — **Client Sample ID: MW-05**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 360253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	<0.10		1.00	0.951		mg/L		95	75 - 125

Method: SM 4500 NO3 F - Nitrogen, Nitrate (Continued)

Lab Sample ID: 500-119077-5 MSD
Matrix: Water
Analysis Batch: 360253

Client Sample ID: MW-05
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Nitrate Nitrite	<0.10		1.00	0.912		mg/L		91	75 - 125	4	20

10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chicago
2417 Bond St.
University Park, IL 60484
708-534-5200
Fax. 708-534-5211

Report To:		Bill To:
Contact:	Rich Gnat	Contact:
Company:	KPRG & Associates Inc.	Company:
Address:	14665 W. Lisbon Rd. Suite 2B	Address:
	Brookfield, WI	
Phone:	262-781-0475	Phone:
Fax:		Fax:
Email:	richardg@kprginc.com	PO #:

Lab Lot # 500- 119077

Package Sealed (Yes) No	Samples Sealed Yes (No)
Received on Ice (Yes) No	Samples Intact (Yes) No N/A
Temperature °C of Cooler	5.1
Within Hold Time (Yes) No	Preserv. Indicated (Yes) No N/A
pH Check OK (Yes) No	Res Cl_2 Check OK (Yes) No N/A
Sample Labels and COC Agree (Yes) No	COC not present

Sampler Name: Ian John Howleson
Project Name: Will Co. Station Ash Ponds
Project Location: Romeoville, IL
Lab PM: Eric Lang
Client Project #: 12313.3
TestAmerica Project Number: 50005079
Date Required Hard Copy: __/__/__ Fax: __/__/__

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	# OF Containers	NO2	Additional Analyses / Remarks
1		MW-07	10-25-16	12:57	W	1	X	
2		MW-08	10-25-16	16:25	W	1	X	
3		MW-09	10-25-16	14:50	W	1	X	
4		DUPLICATE	10-25-16	—	W	1	X	

RELINQUISHED BY: IJH	COMPANY: KPRG	DATE: 10-25-16	TIME: 18:00	RECEIVED BY: FEDEX	COMPANY:	DATE:	TIME:
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY: TA	DATE: 10/26/16	TIME: 0940

Matrix Key
WW = Wastewater, SE = Sediment, W = Water, SO = Solid, S = Soil, DL = Drum Liquid, SL = Sludge, DS = Drum Solid, MS = Miscellaneous, L = Leachate, OL = Oil, W = Wipe, A = Air, O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:
500-119077 COC

Date Received 10,26,16
Courier: FX
Hand Delivered
Bill of Lading:
PAGE 1 of 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chicago
2417 Bond St.
University Park, IL 6048
708-534-5200
Fax. 708-534-5211
500-119077 COC

Report To:		Bill To:	
Contact:	Rich Gnat	Contact:	
Company:	KPRG & Associates Inc.	Company:	
Address:	14665 W. Lisbon Rd. Suite 2B	Address:	
	Brookfield, WI		
Phone:	262-781-0475	Phone:	
Fax:		Fax:	
Email:	richardg@kprginc.com	PO #:	

Lab Lot # 500-119077

Package Sealed: (Yes) No	Samples Sealed: Yes (No)
Received on Ice: (Yes) No	Samples Intact: (Yes) No N/A
Temperature °C of Cooler: 3.1	
Within Hold Time: (Yes) No	Preserv. Indicated: Yes No (N/A)
pH Check OK: (Yes) No	Res CL_2 Check OK: Yes No (N/A)
Sample Labels and COC Agree: (Yes) No	COC not present

Sampler Name: Ian John Howieson	Client Project #: 12313.3
Project Name: Will Co. Station Ash Ponds	TestAmerica Project Number: 50005079
Project Location: Romeoville, IL	Date Required: Hard Copy: __/__/__ Fax: __/__/__
Lab PM: Eric Lang	

Refrg #:
/ Cont.:
Volume:
Preserv.: 7

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Time	Matrix	# OF Containers	NO2	Additional Analyses / Remarks
5		MW-05	10-26-16	16:44	W	1	X	
6		MW-06	10-26-16	09:38	W	1	X	
7		MW-10	10-26-16	13:36	W	1	X	

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
IJH	KPRG	10-26-16	18:45	FedEx			
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY: [signature]	COMPANY: TA-CHI	DATE: 10/27/16	TIME: 0920

Matrix Key
WW = Wastewater, SE = Sediment
W = Water, SO = Solid
S = Soil, DL = Drum Liquid
SL = Sludge, DS = Drum Solid
MS = Miscellaneous, L = Leachate
OL = Oil, W = Wipe
A = Air, O = ____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:

Date Received __/__/__
Courier:
Hand Delivered
Bill of Lading:
PAGE 1 of 1

STL-8208 (0600)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Chicago
2417 Bond St.
University Park, IL 60484
708-534-5200
Fax. 708-534-5211

Report To:		Bill To:
Contact:	Rich Gnat	Contact:
Company:	KPRG & Associates Inc.	Company:
Address:	14665 W. Lisbon Rd. Suite 2B	Address:
	Brookfield, WI	
Phone:	262-781-0475	Phone:
Fax:		Fax:
Email:	richardg@kprginc.com	PO #:

500-119077 COC

Lab Lot # 500- 119077

Package Sealed	Samples Sealed
Yes (No)	Yes (No)
Received on Ice	**Samples Intact**
(Yes) No	(Yes) No N/A

Temperature °C of Cooler (4.2) (3.9) (3.0)

Within Hold Time	Preserv. Indicated
(Yes) No	(Yes) No N/A
pH Check OK	**Res. Cl_2 Check OK**
(Yes) No	(Yes) No N/A

Sample Labels and COC Agree
(Yes) No COC not present

Sampler Name:	Client Project #	Refrg #
Ian John Howleson	12313.3	# / Cont.
Project Name:	**TestAmerica Project Number:**	Volume
Will Co. Station Ash Ponds	50005079	Preserv.
Project Location:	**Date Required**	
Romeoville, IL	Hard Copy: ___/___/___	
Lab PM: Eric Lang	Fax: ___/___/___	

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	# Cont	Metals dissolved	Cl, TDS, SO4, Fl, dissolved	NO2, dissolved	NO3+NO2, dissolved	Cyanide, dissolved	BTEX	Perchlorate	Additional Analyses / Remarks
8		MW-01	10-27-16	10:32	W	9	X	X	X	X	X	X	X	
9		MW-02	10-27-16	11:35	W	9	X	X	X	X	X	X	X	
10		MW-03	10-27-16	12:30	W	9	X	X	X	X	X	X	X	
11		MW-04	10-27-16	13:44	W	9	X	X	X	X	X	X	X	
5		MW-05	10-26-16	16:44	W	8	X	X	—	X	X	X	X	
6		MW-06	10-26-16	09:38	W	8	X	X	—	X	X	X	X	
1		MW-07	10-25-16	12:57	W	8	X	X	—	X	X	X	X	
2		MW-08	10-25-16	16:25	W	8	X	X	—	X	X	X	X	
3		MW-09	10-25-16	14:50	W	8	X	X	—	X	X	X	X	
7		MW-10	10-26-16	13:36	W	8	X	X	—	X	X	X	X	
4		Duplicates	10-26-16	N/A	W	8	X	X	—	X	X	X	X	
12		Trip Blank	N/A	N/A	W	2								

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
IJH	KPRG	10-28-16	11:08		THF	10/28/16	11:08
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

Matrix Key

WW = Wastewater	SE = Sediment
W = Water	SO = Solid
S = Soil	DL = Drum Liquid
SL = Sludge	DS = Drum Solid
MS = Miscellaneous	L = Leachate
OL = Oil	W = Wipe
A = Air	O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

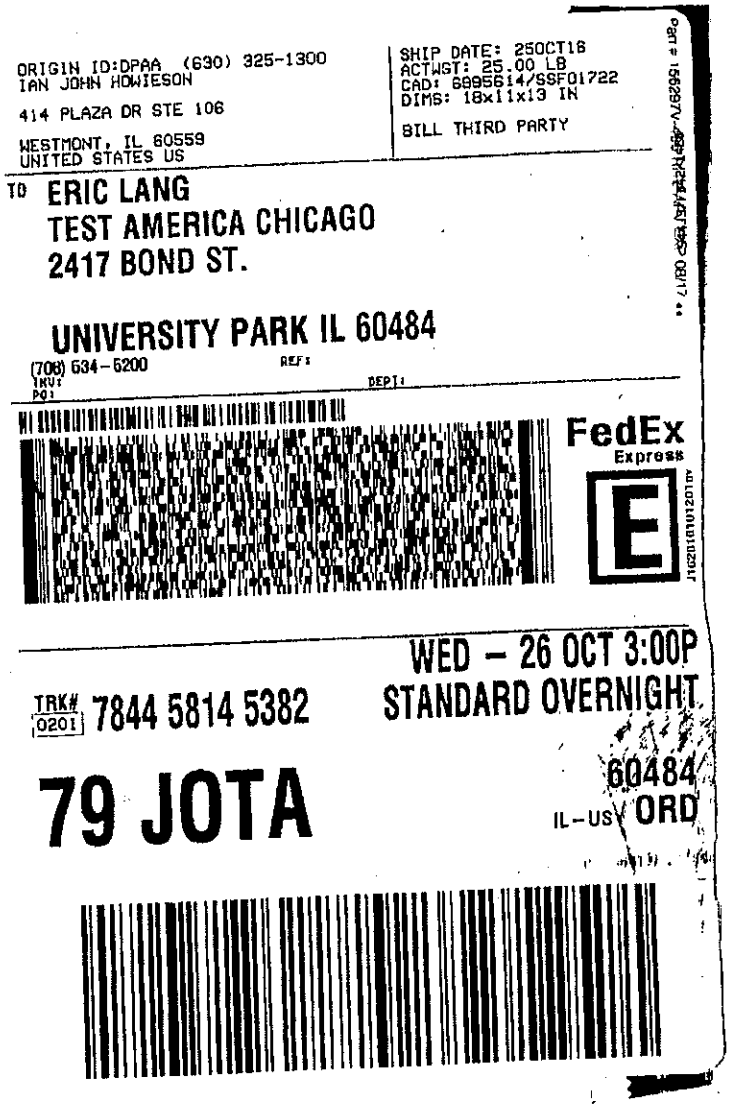
Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:

Date Received 10,28,16
Courier:
Hand Delivered
Bill of Lading:

PAGE 1 of 1

STL-8208 (0600)



ORIGIN ID:DPAA (630) 325-1300
IAN JOHN HOWIESON

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 25OCT16
ACTWGT: 25.00 LB
CAD: 6995614/SSF01722
DIMS: 18x11x13 IN

BILL THIRD PARTY

TO ERIC LANG
TEST AMERICA CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

(708) 534-5200 REF:
INV:
PO: DEPT:

FedEx Express

WED - 26 OCT 3:00P
STANDARD OVERNIGHT

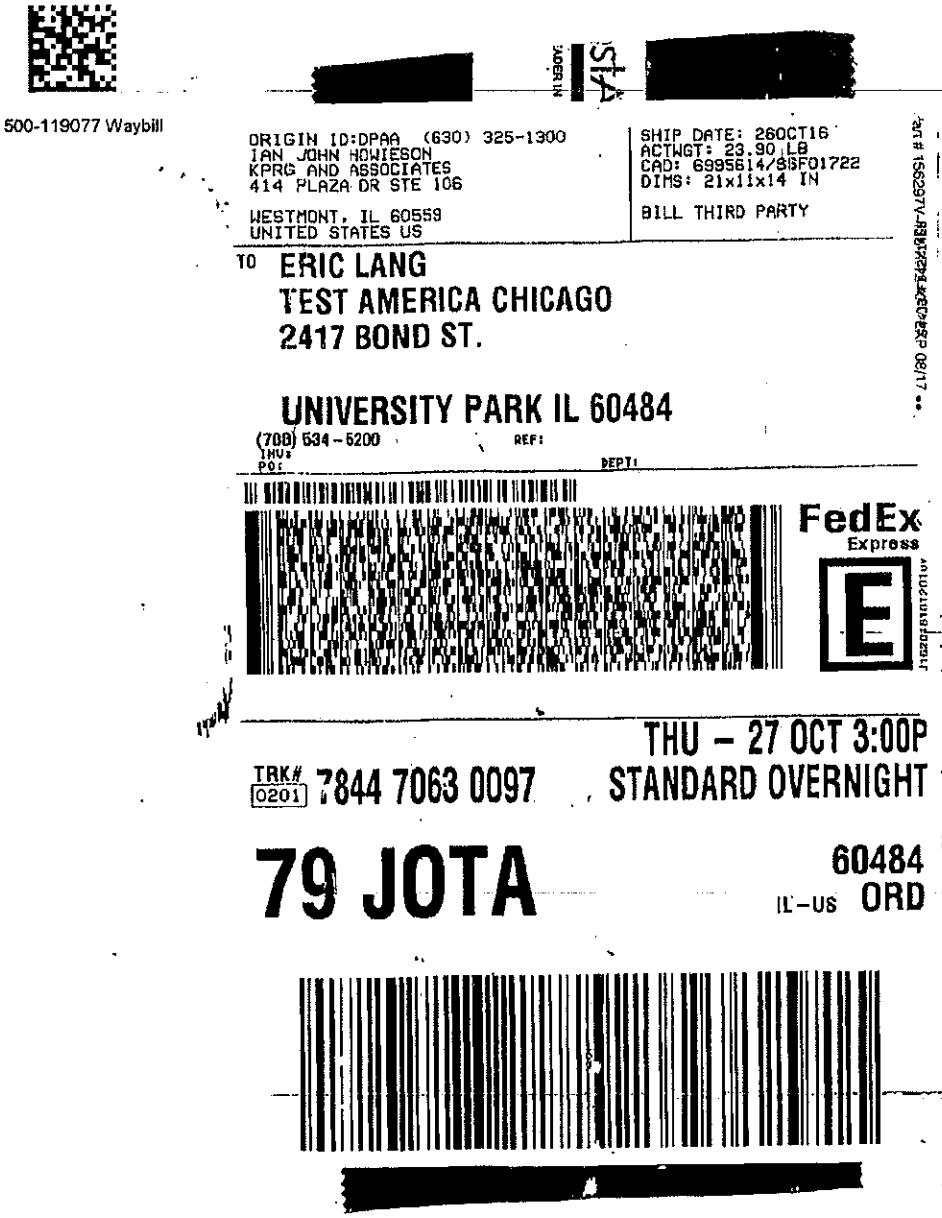
TRK# 0201 7844 5814 5382

79 JOTA

60484
IL-US ORD

500-119077 Waybill

500-119077 Waybill



MWG13-15_58455
11/11/2016

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Lang, Eric A.	Carrier Tracking No(s)	COC No: 500-79796.1
Client Contact: Shipping/Receiving	Phone	E-Mail: eric.lang@testamericainc.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-119077-1
Address: 880 Riverside Parkway,	Due Date Requested: 11/9/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605	PO #			
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	WO #			
Email	Project #: 50005079			
Project Name: Will Co. Station Ash Ponds	SSOW#			
Site: NRG Midwest Generation Will County				

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	314.0: Perchlorate	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-07 (500-119077-1)	10/25/16	12:57 Central		Water			X	1	
MW-08 (500-119077-2)	10/25/16	16:25 Central		Water			X	1	
MW-09 (500-119077-3)	10/25/16	14:50 Central		Water			X	1	
Duplicate (500-119077-4)	10/25/16	Central		Water			X	1	
MW-05 (500-119077-5)	10/26/16	16:44 Central		Water			X	1	
MW-06 (500-119077-6)	10/26/16	09:38 Central		Water			X	1	
MW-10 (500-119077-7)	10/26/16	13:36 Central		Water			X	1	
MW-01 (500-119077-8)	10/27/16	10:32 Central		Water			X	1	
MW-02 (500-119077-9)	10/27/16	11:35 Central		Water			X	1	

Page 1 of 2

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		10/28/16 1600	TA		10/29/16 0905	TAL
2		Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.3

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Lang, Eric A	Carrier Tracking No(s)	COC No: 500-79796.2
Client Contact: Shipping/Receiving	Phone	E-Mail: eric.lang@testamericainc.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-119077-1
Address: 880 Riverside Parkway,	Due Date Requested: 11/9/2016			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email	WO #			
Project Name: Will Co. Station Ash Ponds	Project #: 50005079			
Site: NRG Midwest Generation Will County	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	314.0/ Perchlorate	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-03 (500-119077-10)	10/27/16	12:30 Central		Water			X	1	
MW-04 (500-119077-11)	10/27/16	13:44 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	[signature]	10/28/16 1600	TA	[signature]	10/29/16 0905	TAL
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.3

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-119077-1

Login Number: 119077
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1,3.1,4.2,3.9,3.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-119077-1

Login Number: 119077
List Number: 2
Creator: Shockley, Wesley S

List Source: TestAmerica Sacramento
List Creation: 10/29/16 03:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True,	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Will Co. Station Ash Ponds

TestAmerica Job ID: 500-119077-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

Laboratory: TestAmerica Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	200060	03-17-17

The following analytes are included in this report, but certification is not offered by the governing authority:

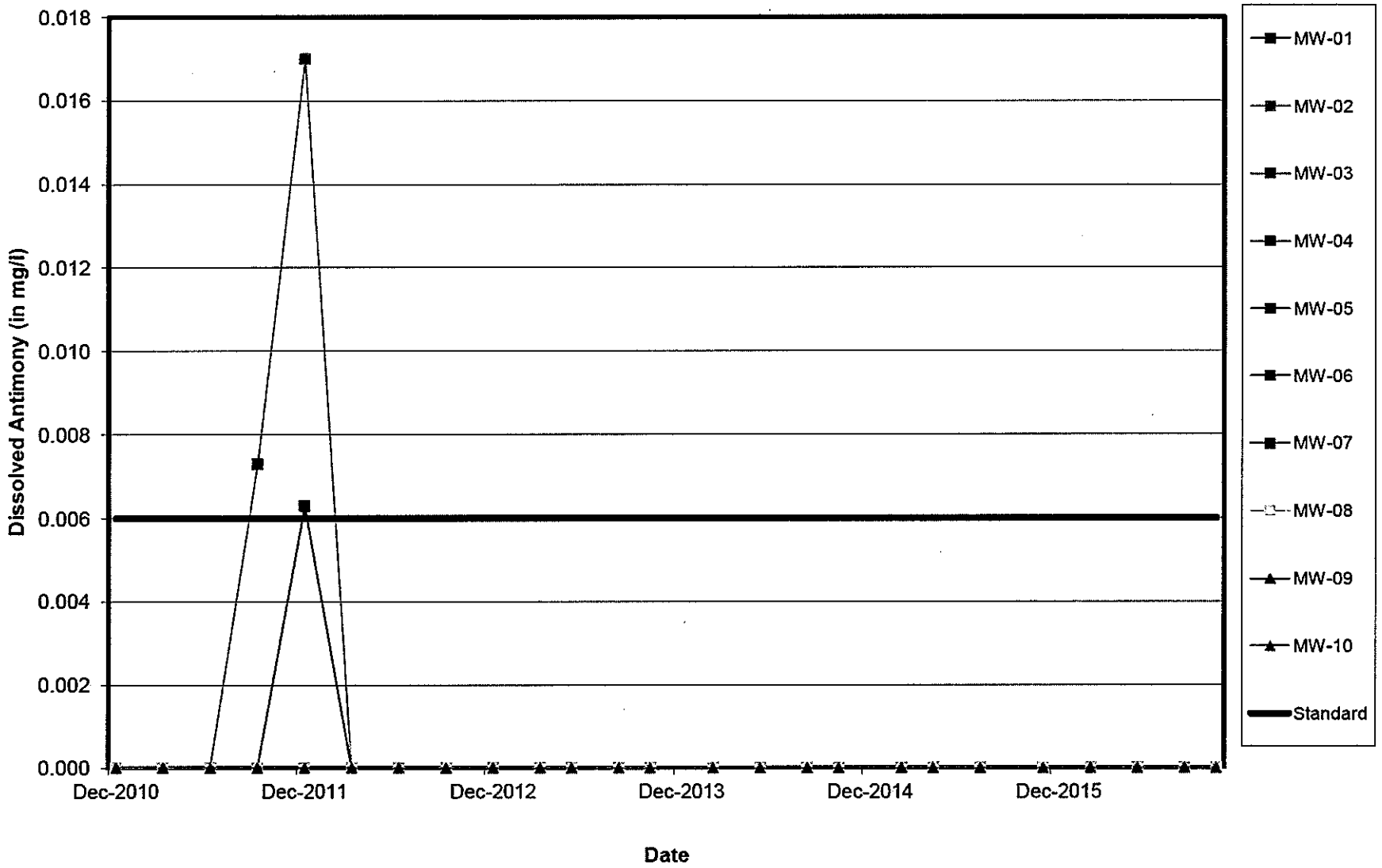
Analysis Method	Prep Method	Matrix	Analyte
314.0		Water	Perchlorate

13

ATTACHMENT 3
Time Versus Concentration Curves

Midwest Generation Will County Station, Romeoville, IL

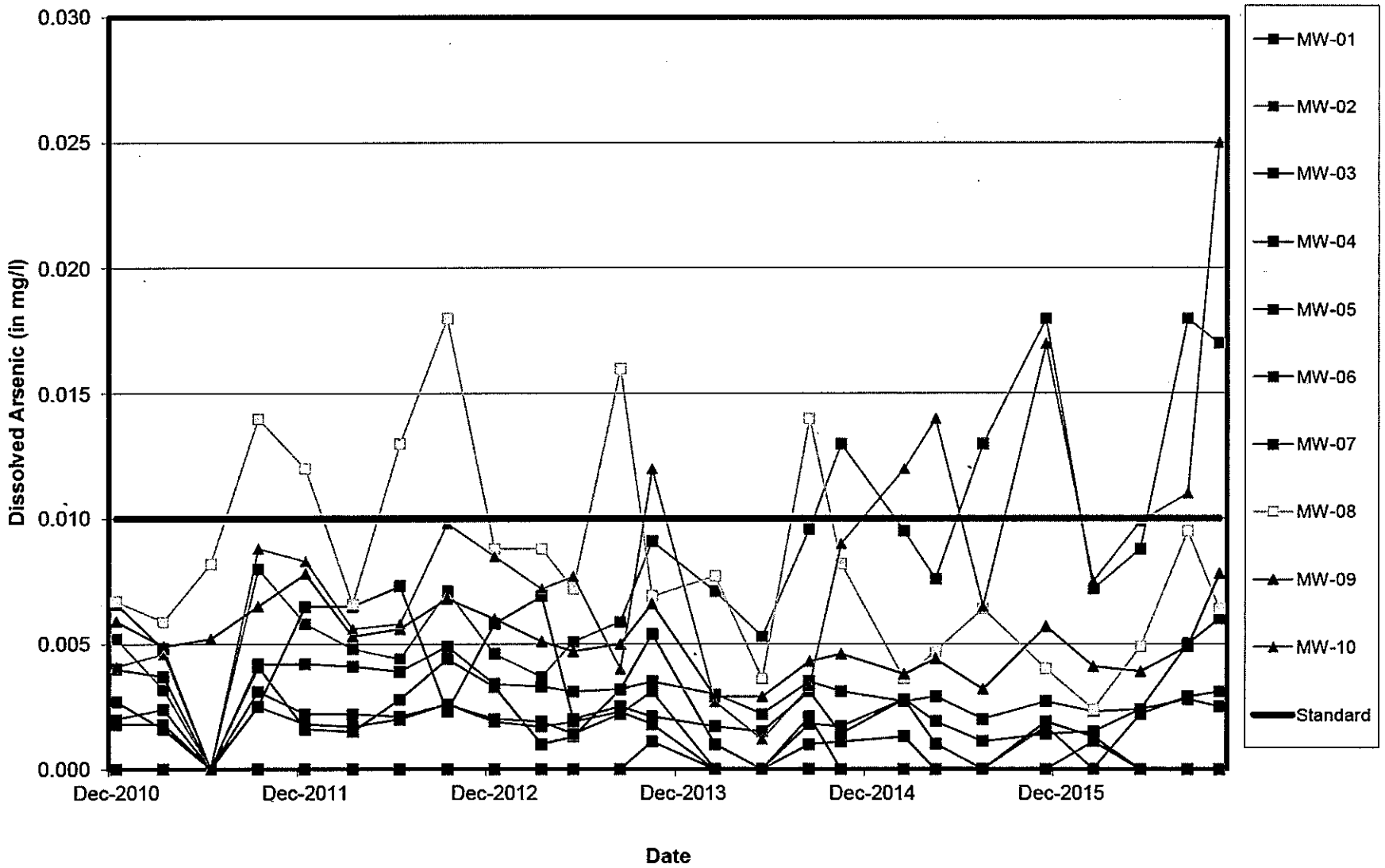
Dissolved Antimony vs. Time



MWG13-15_58462

Midwest Generation Will County Station, Romeoville, IL

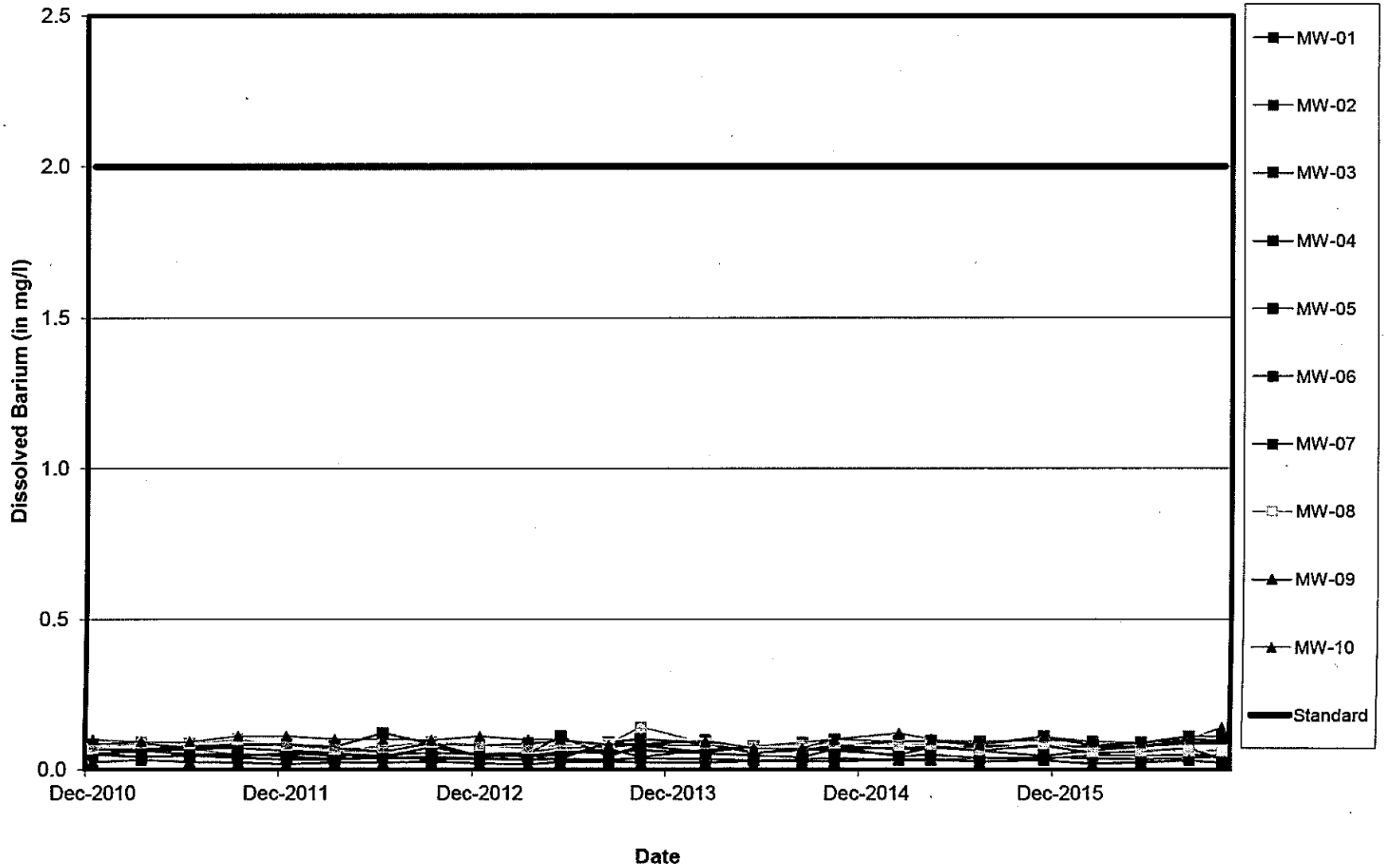
Dissolved Arsenic vs. Time



MWG13-15_58463

Midwest Generation Will County Station, Romeoville, IL

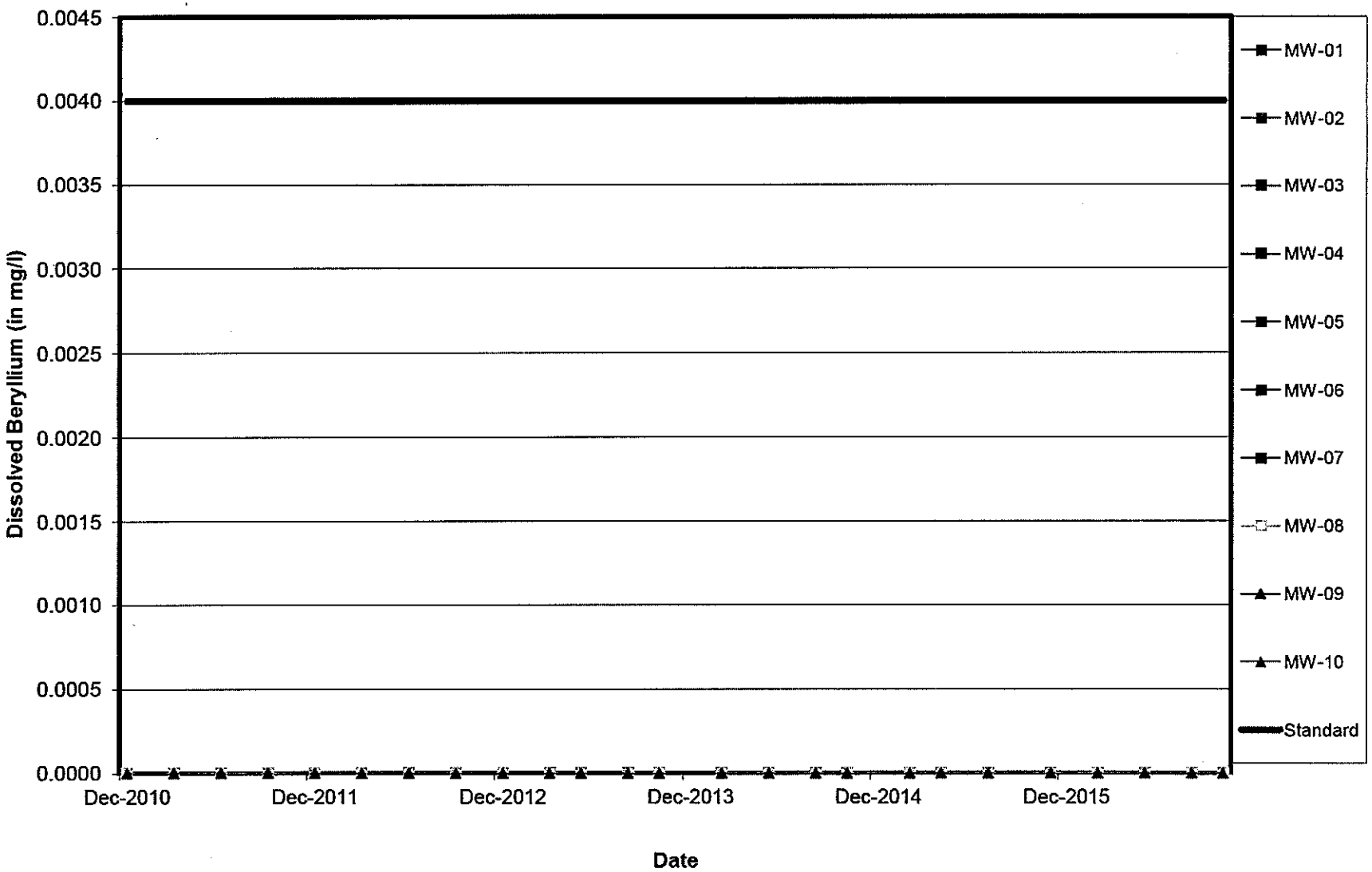
Dissolved Barium vs. Time



MWG13-15_58464

Midwest Generation Will County Station, Romeoville, IL

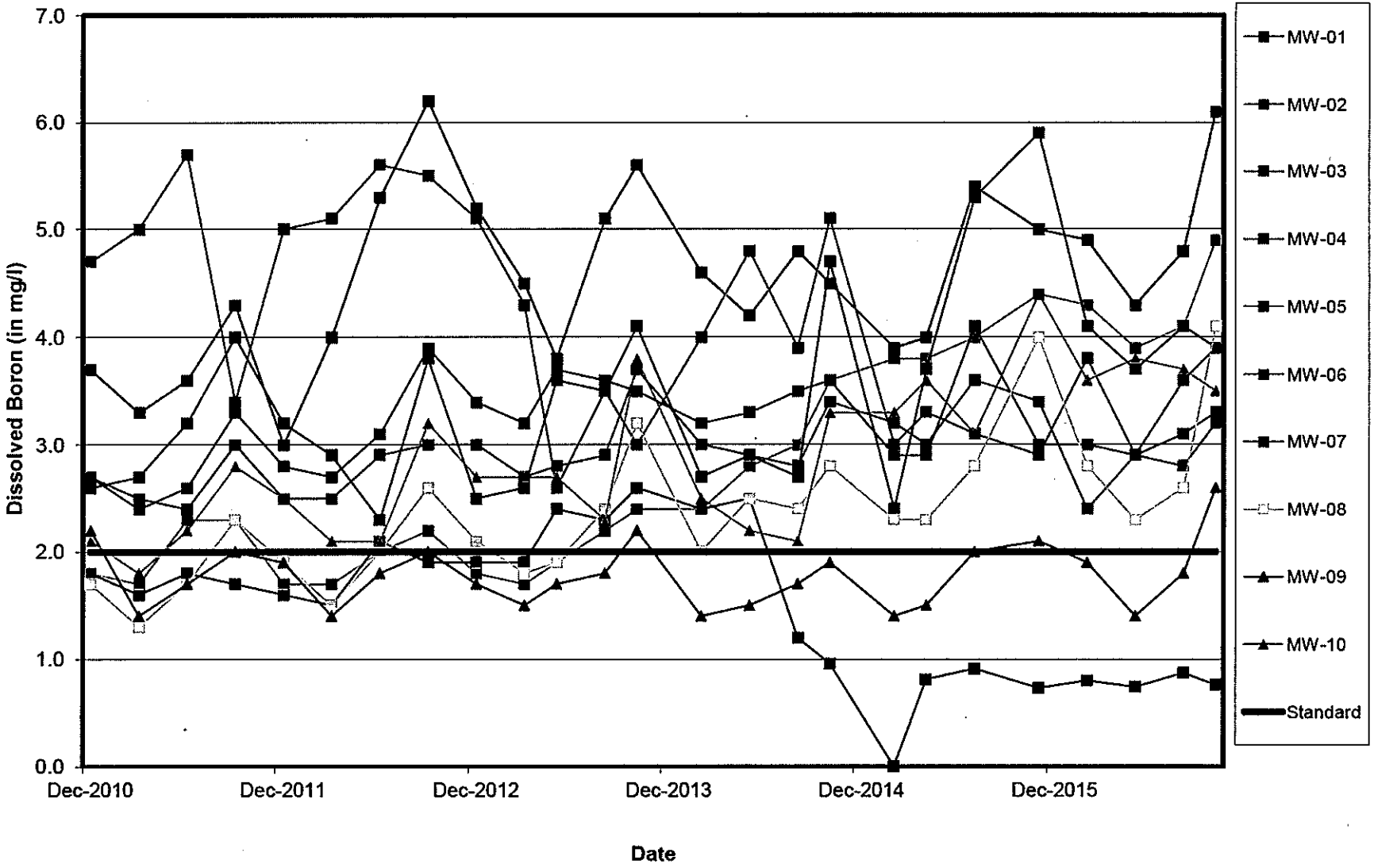
Dissolved Beryllium vs. Time



MWG13-15_58465

Midwest Generation Will County Station, Romeoville, IL

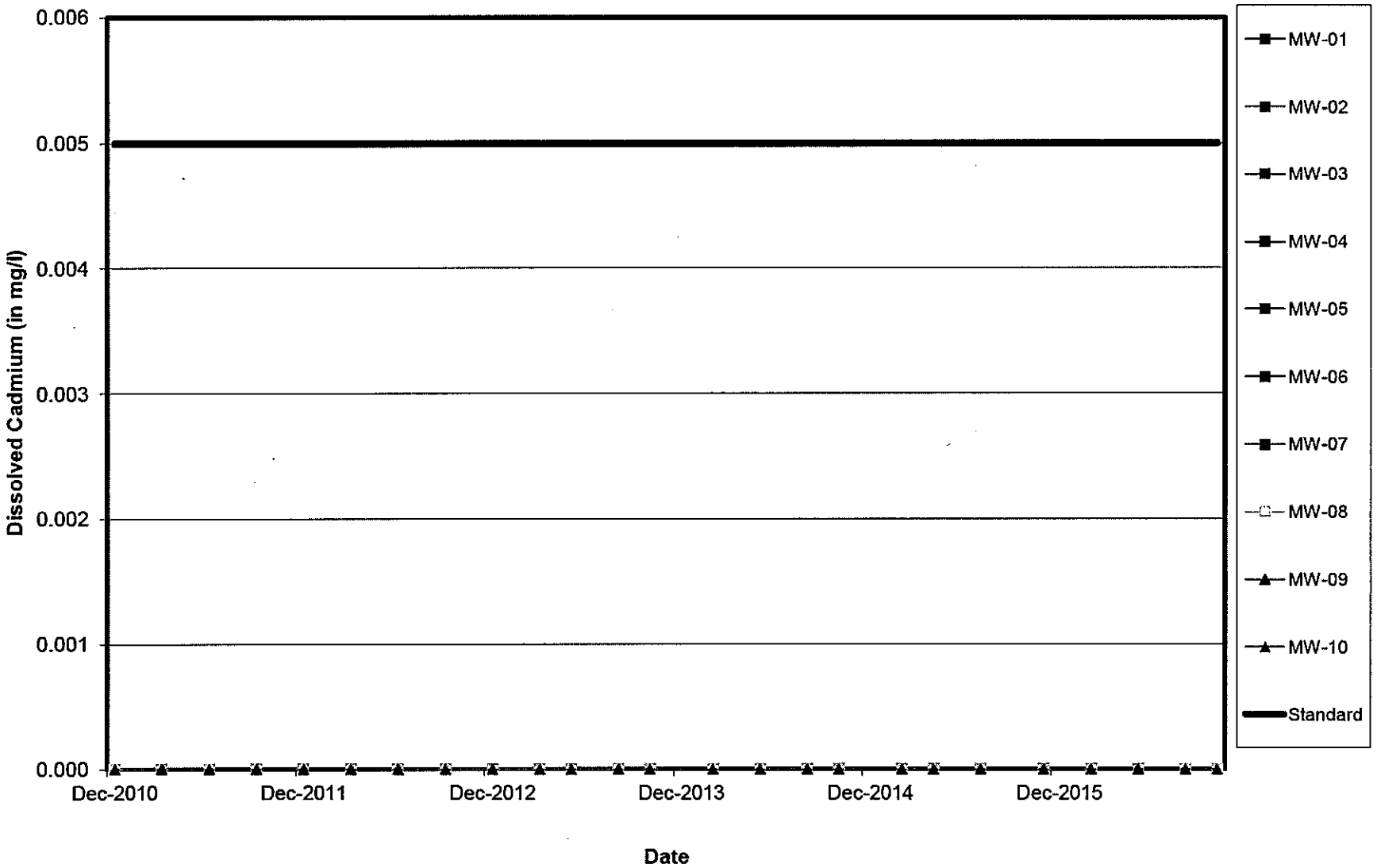
Dissolved Boron vs. Time



MWG13-15_58466

Midwest Generation Will County Station, Romeoville, IL

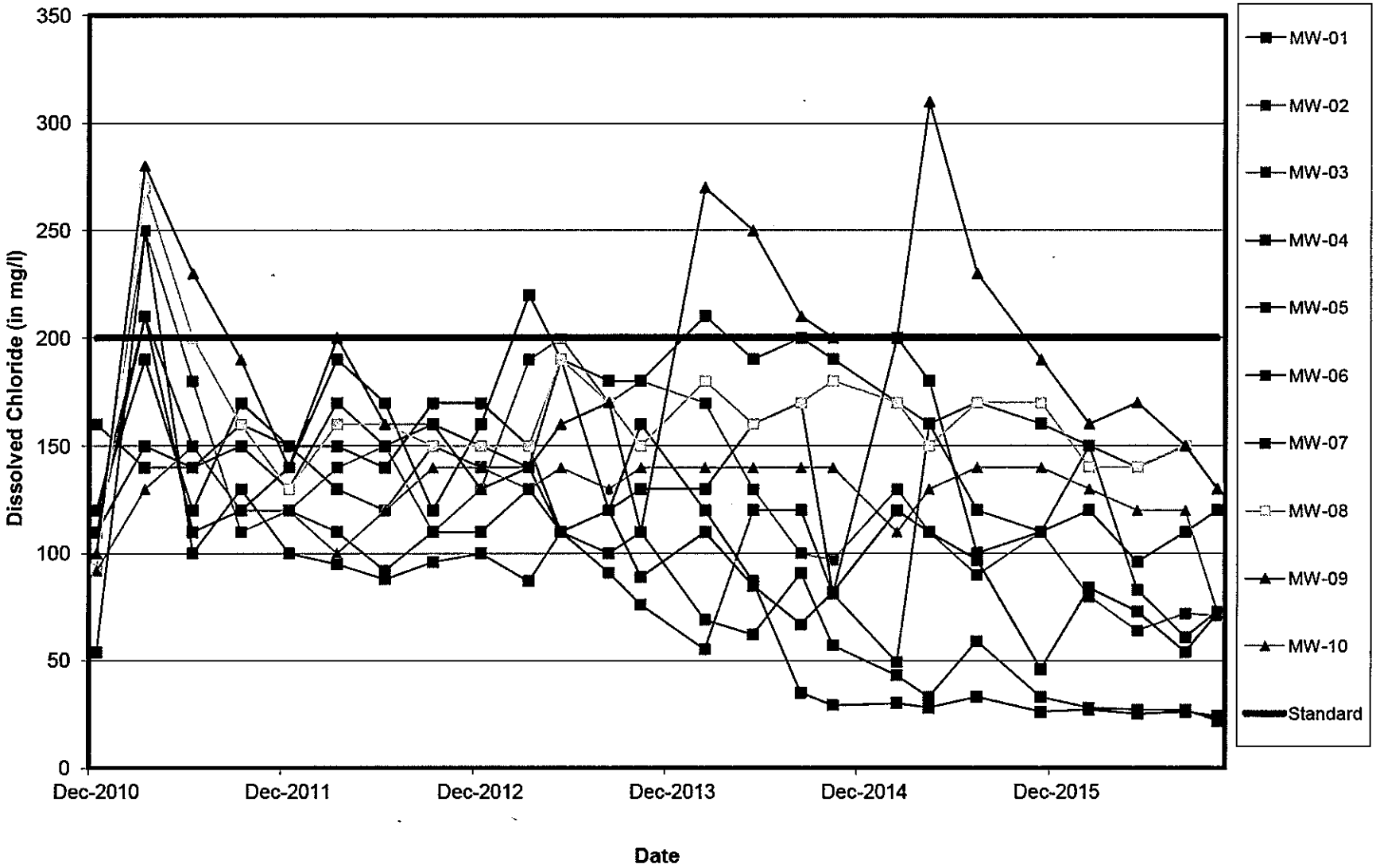
Dissolved Cadmium vs. Time



MWG13-15_58467

Midwest Generation Will County Station, Romeoville, IL

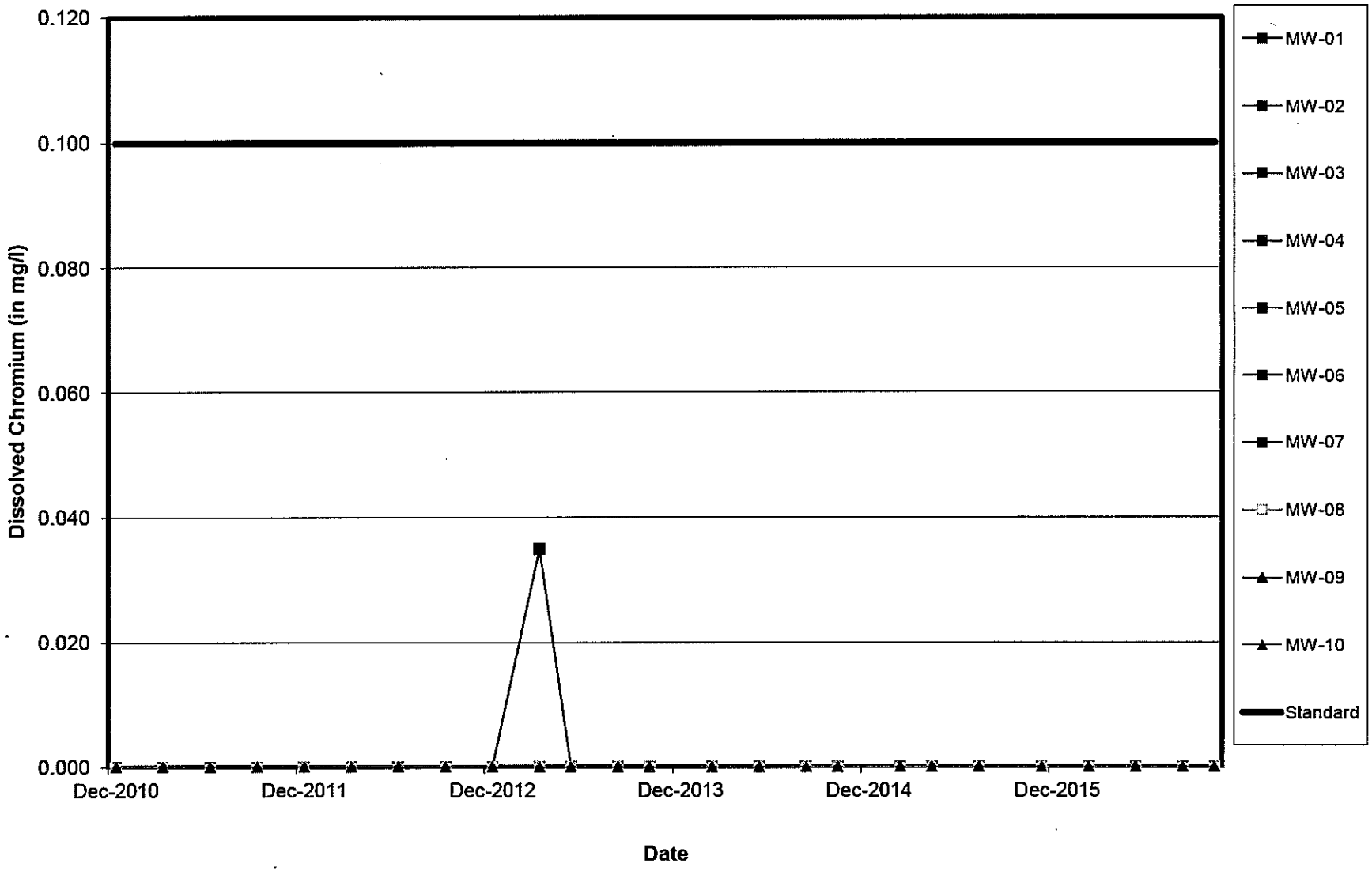
Dissolved Chloride vs. Time



MWG13-15_58468

Midwest Generation Will County Station, Romeoville, IL

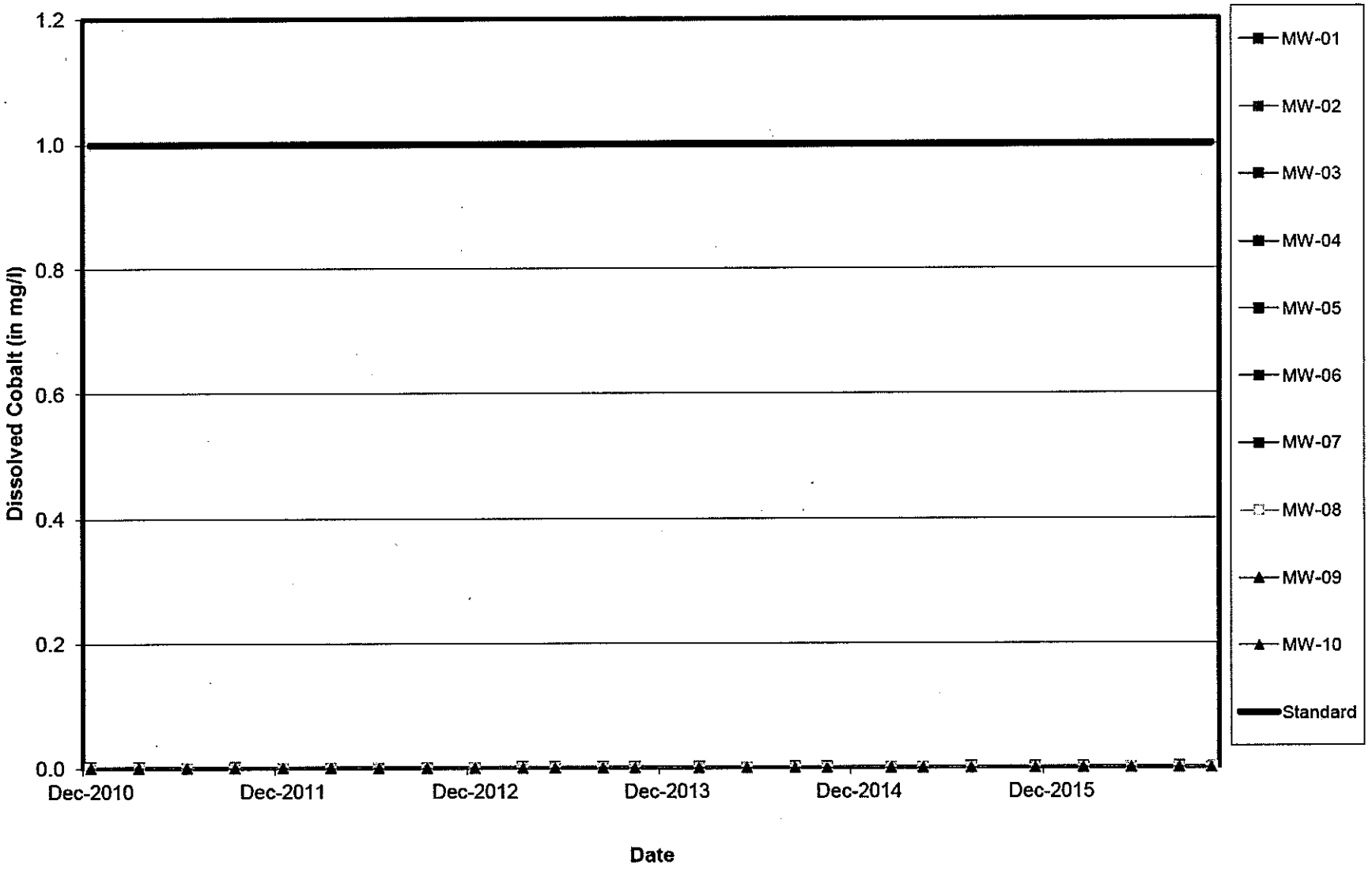
Dissolved Chromium vs. Time



MWG13-15_58469

Midwest Generation Will County Station, Romeoville, IL

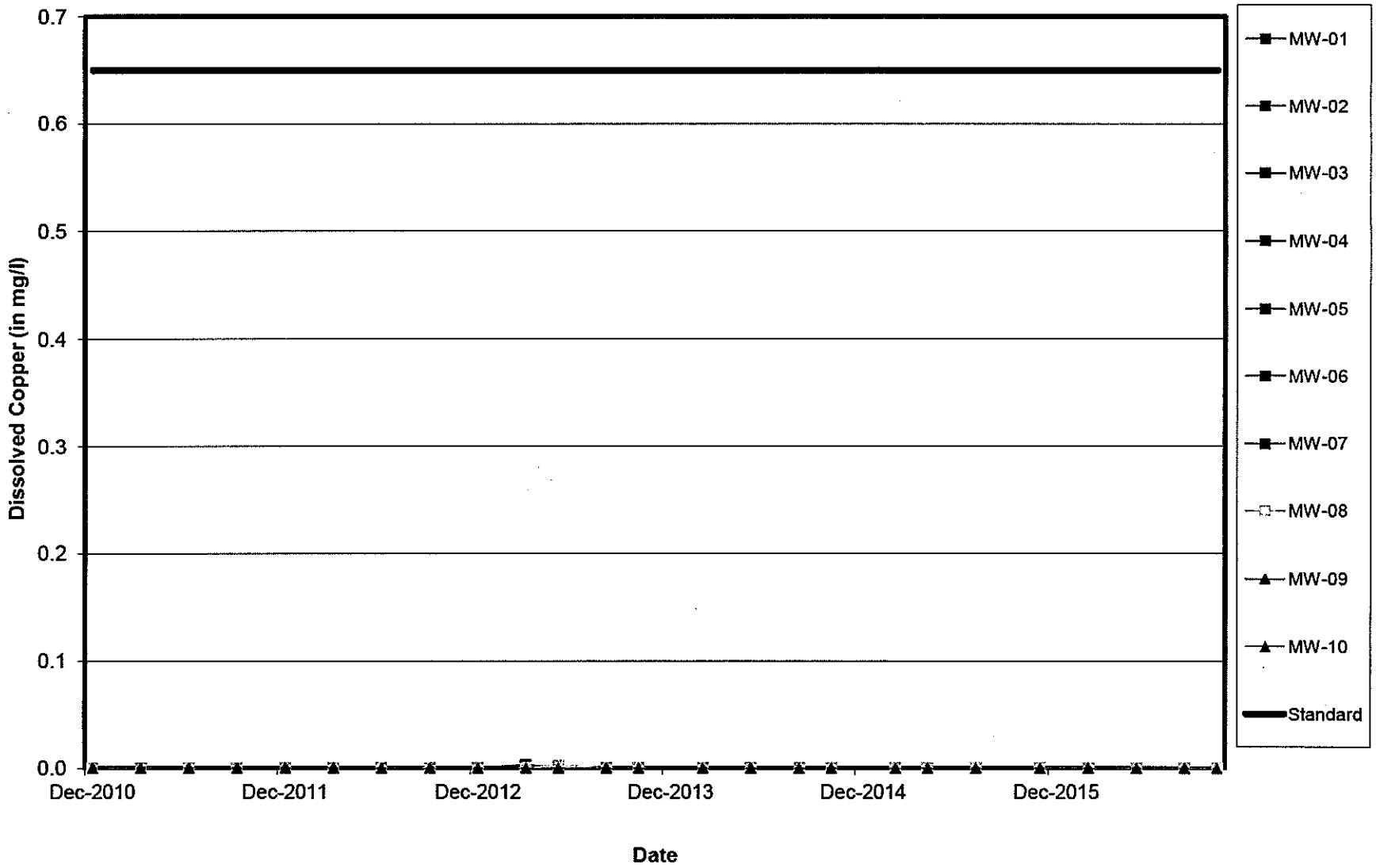
Dissolved Cobalt vs. Time



MWG13-15_58470

Midwest Generation Will County Station, Romeoville, IL

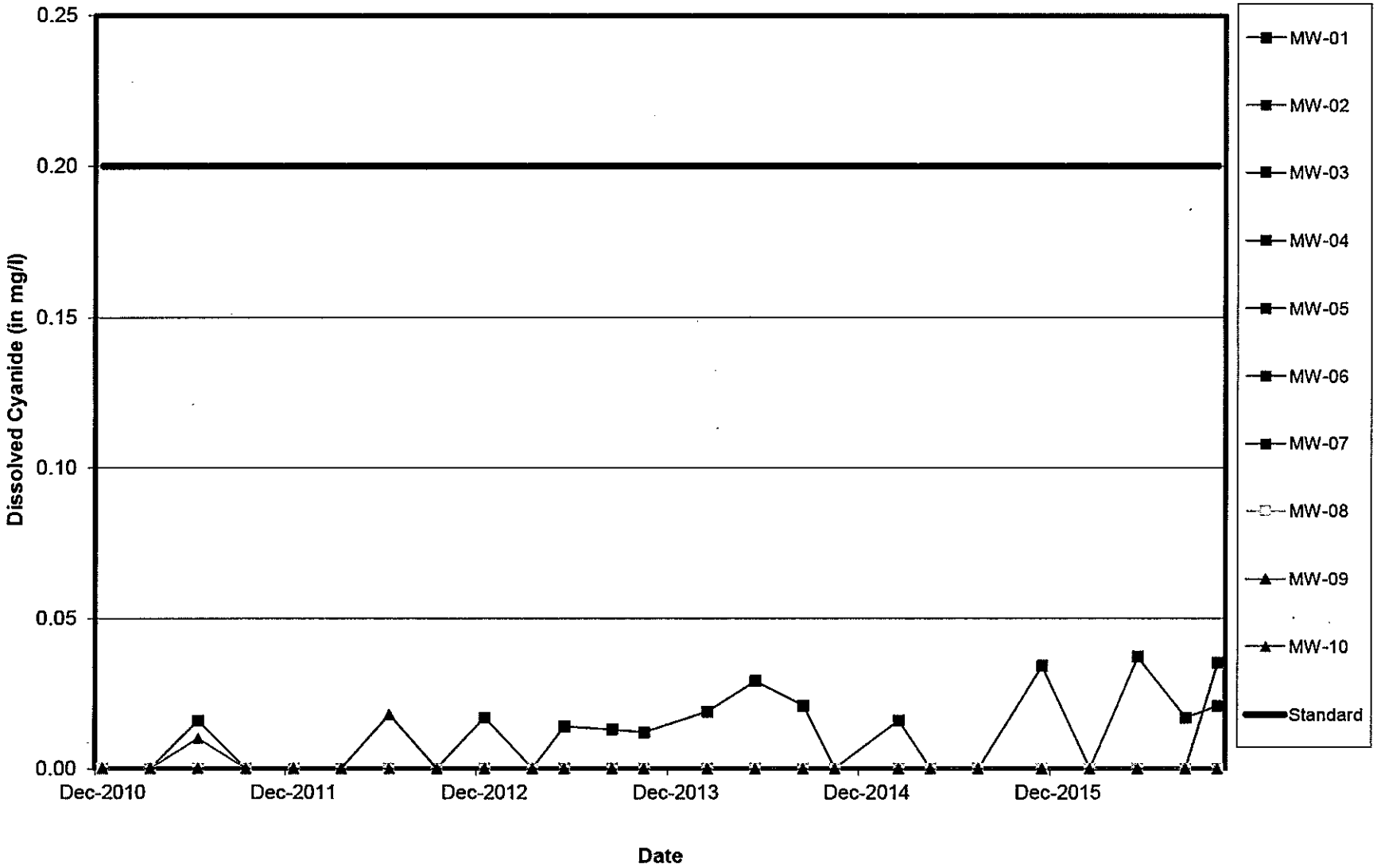
Dissolved Copper vs. Time



MWG13-15_58471

Midwest Generation Will County Station, Romeoville, IL

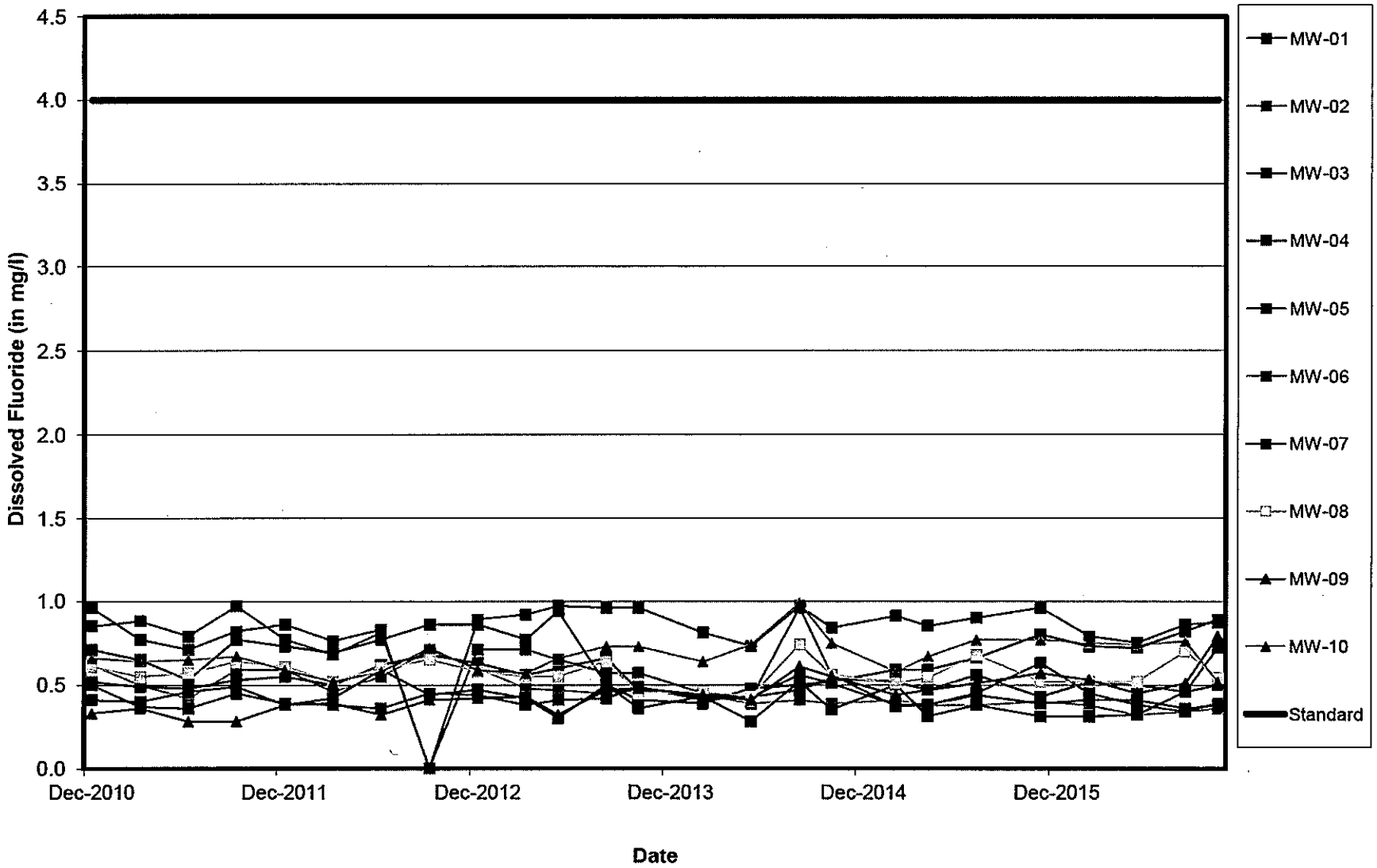
Dissolved Cyanide vs. Time



MWG13-15_58472

Midwest Generation Will County Station, Romeoville, IL

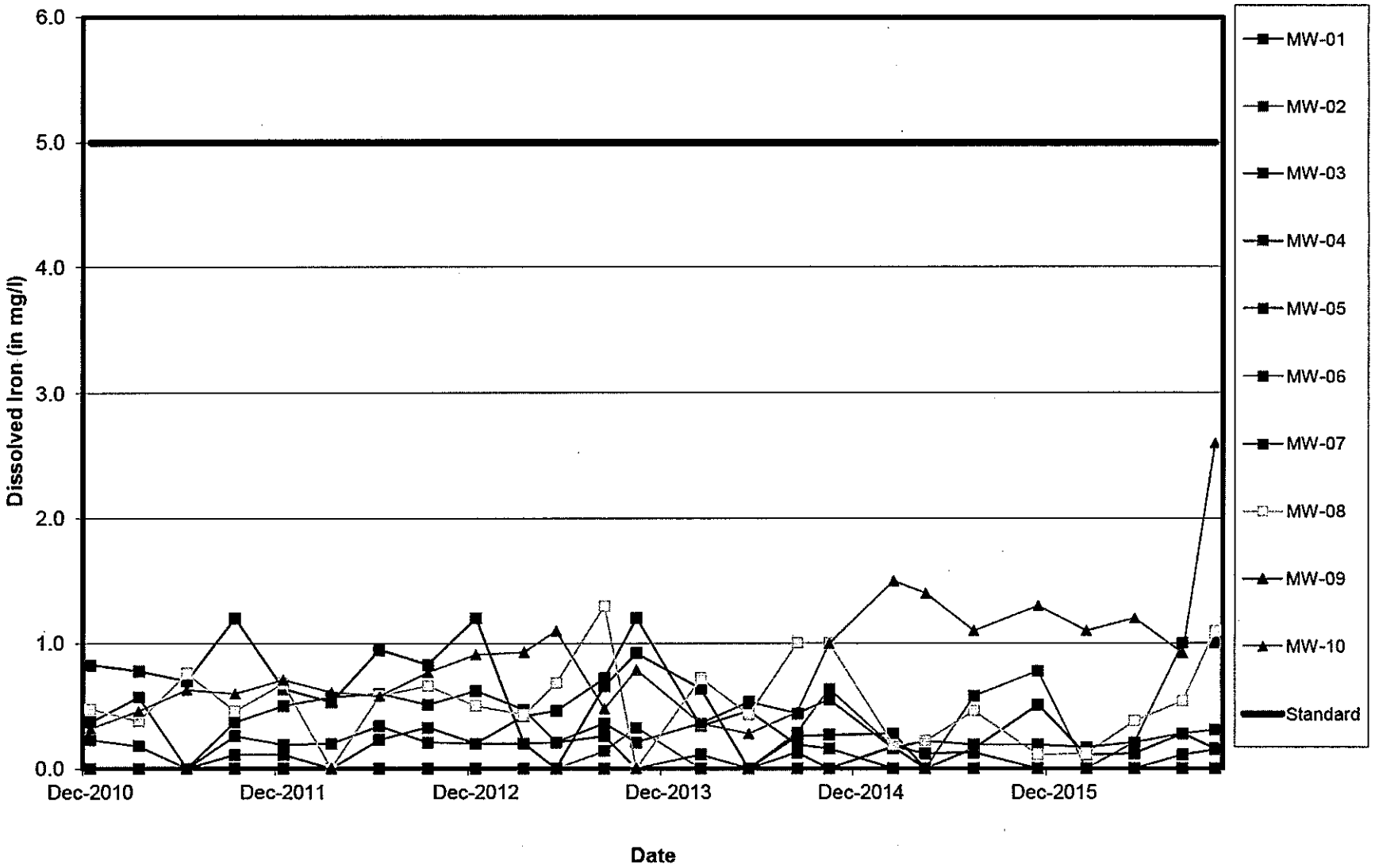
Dissolved Fluoride vs. Time



MWG13-15_58473

Midwest Generation Will County Station, Romeoville, IL

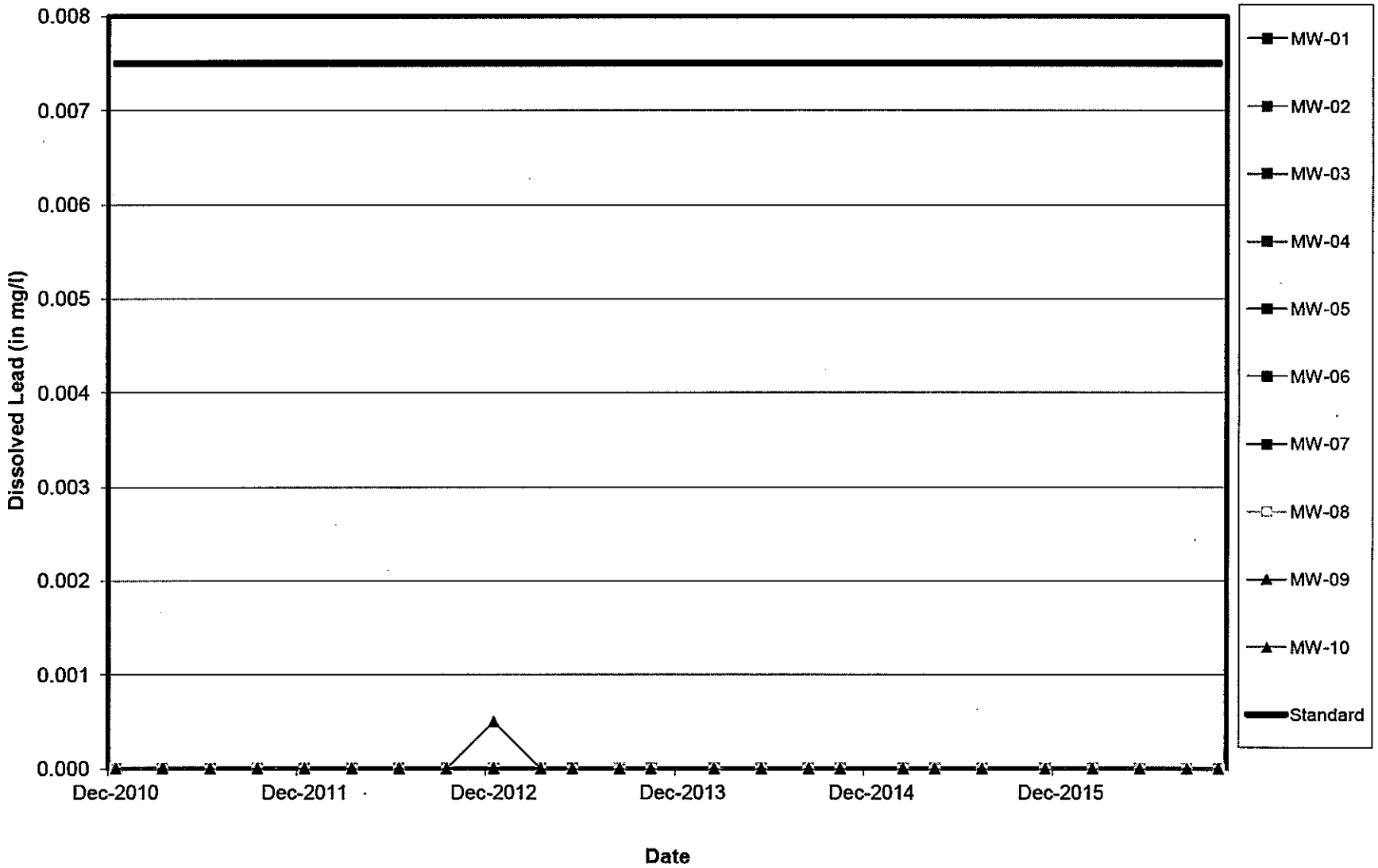
Dissolved Iron vs. Time



MWG13-15_58474

Midwest Generation Will County Station, Romeoville, IL

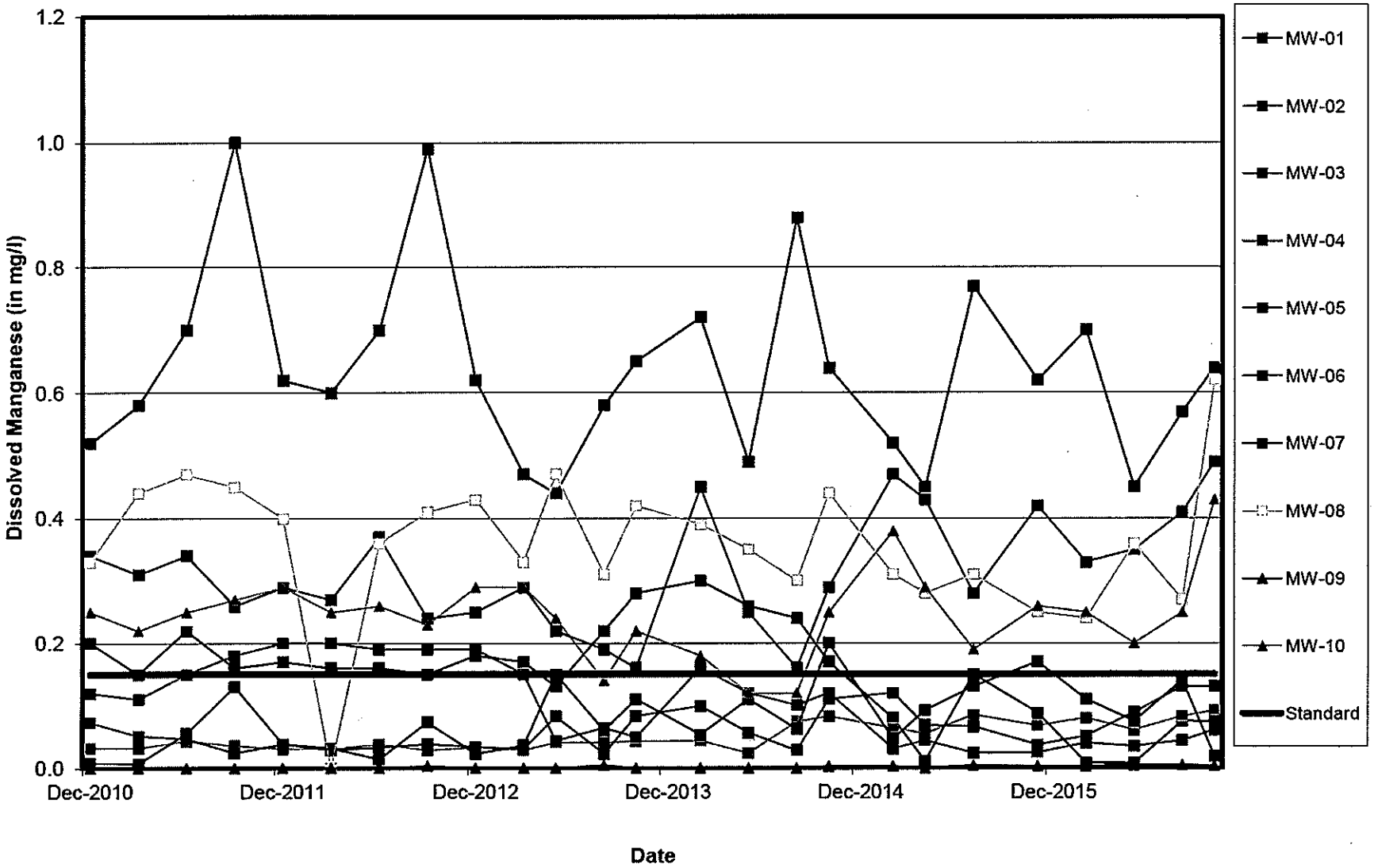
Dissolved Lead vs. Time



MWG13-15_58475

Midwest Generation Will County Station, Romeoville, IL

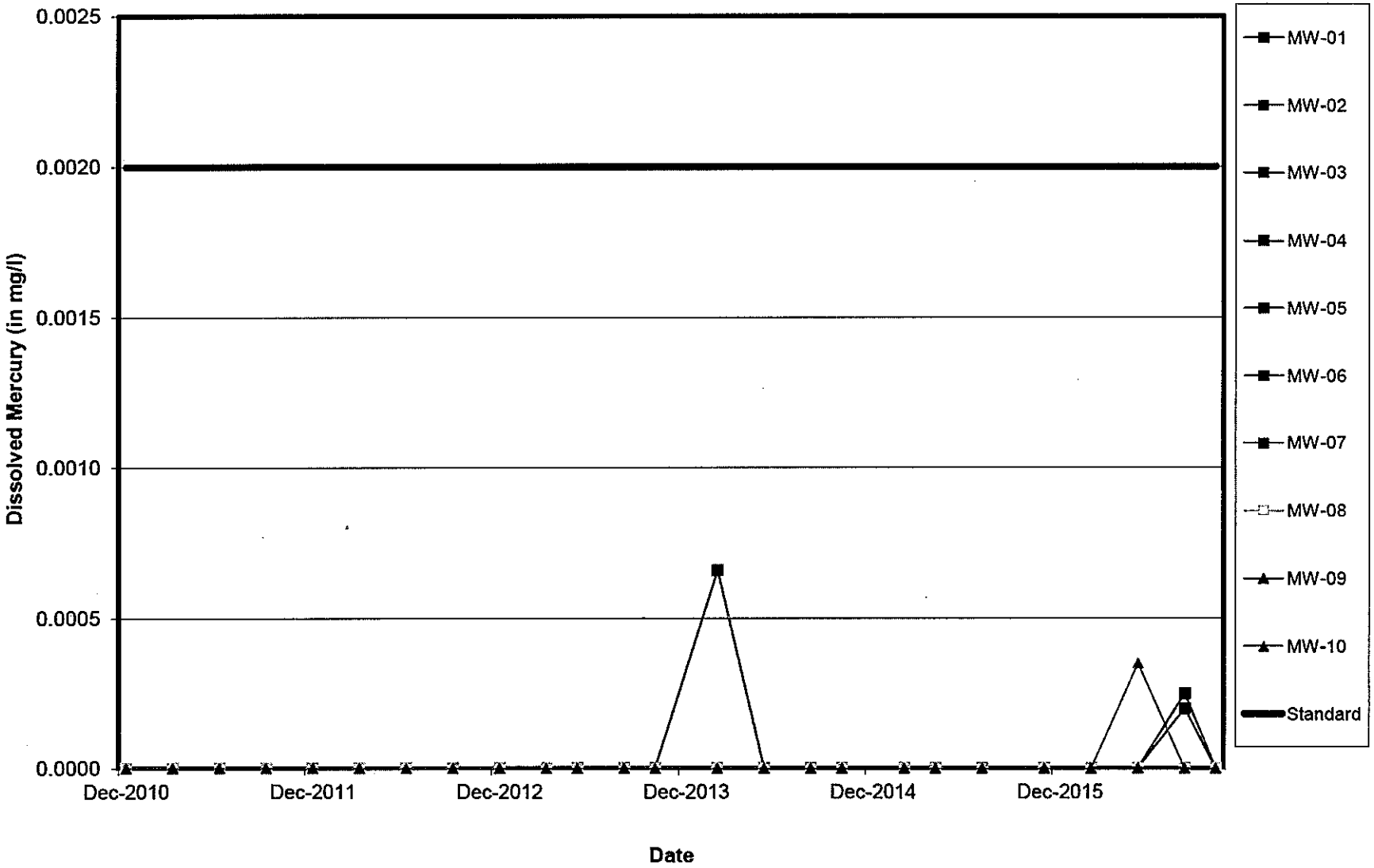
Dissolved Manganese vs. Time



MWG13-15_58476

Midwest Generation Will County Station, Romeoville, IL

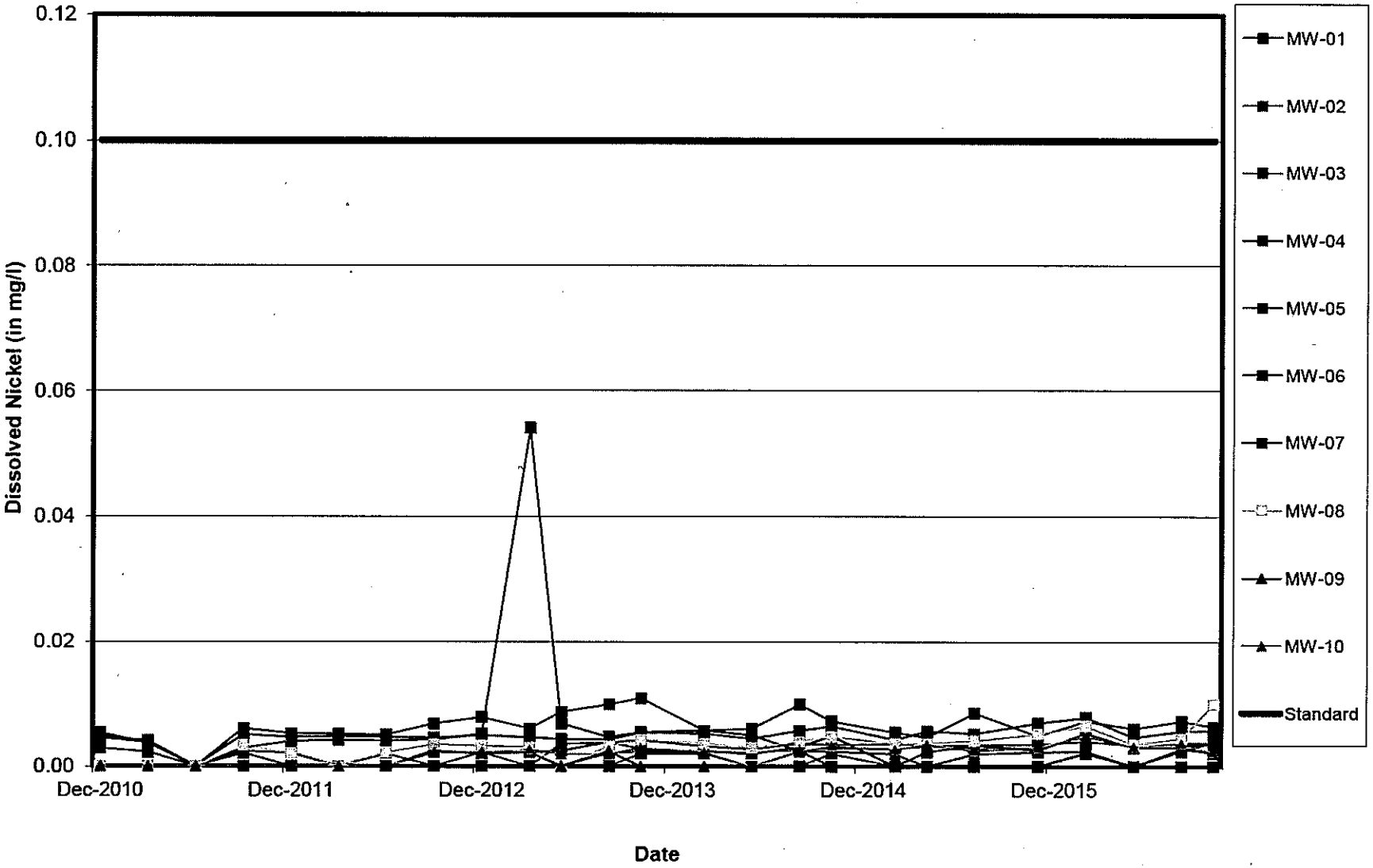
Dissolved Mercury vs. Time



MWG13-15_58477

Midwest Generation Will County Station, Romeoville, IL

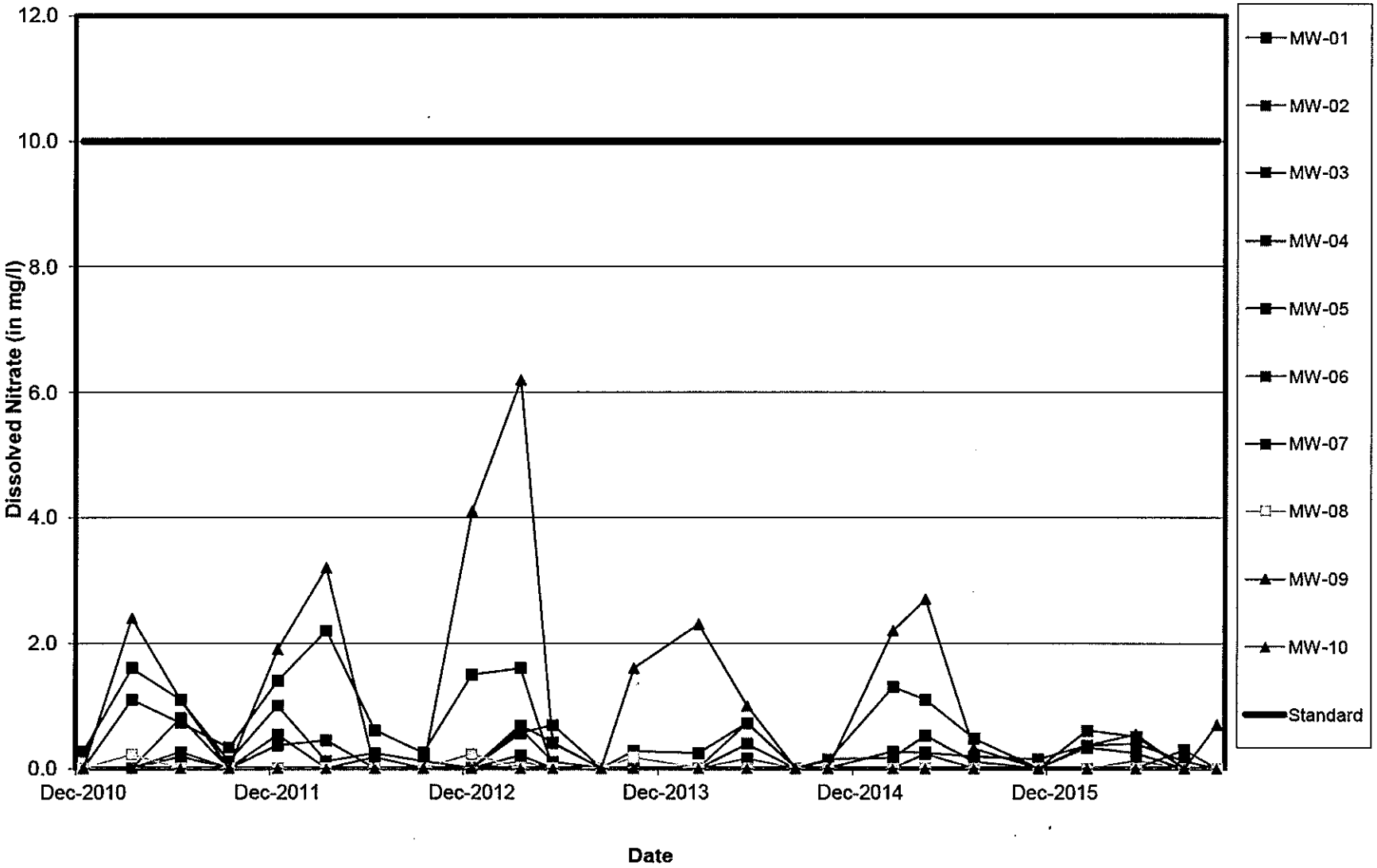
Dissolved Nickel vs. Time



MWG13-15_58478

Midwest Generation Will County Station, Romeoville, IL

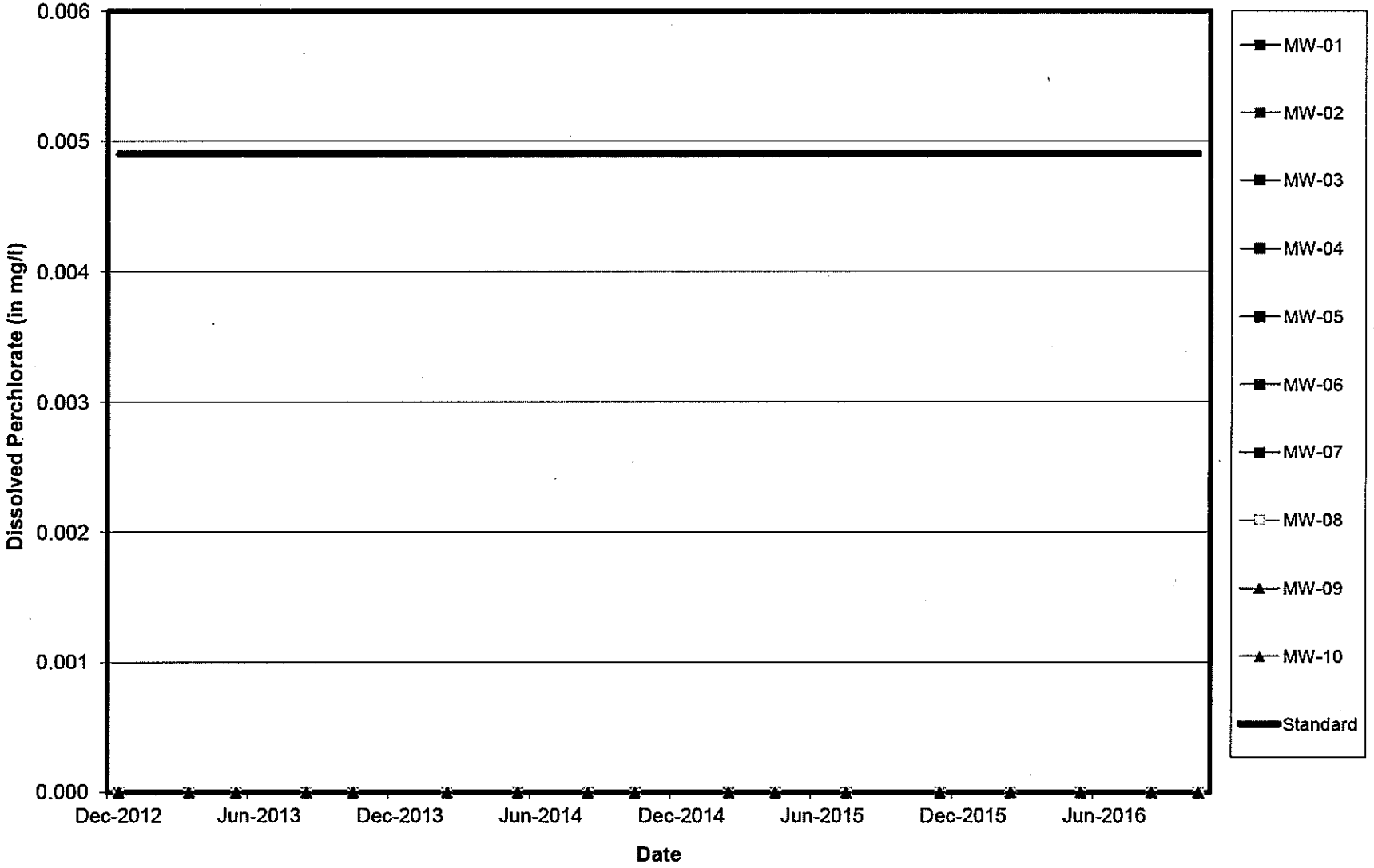
Dissolved Nitrate vs. Time



MWG13-15_58479

Midwest Generation Will County Station, Romeoville, IL

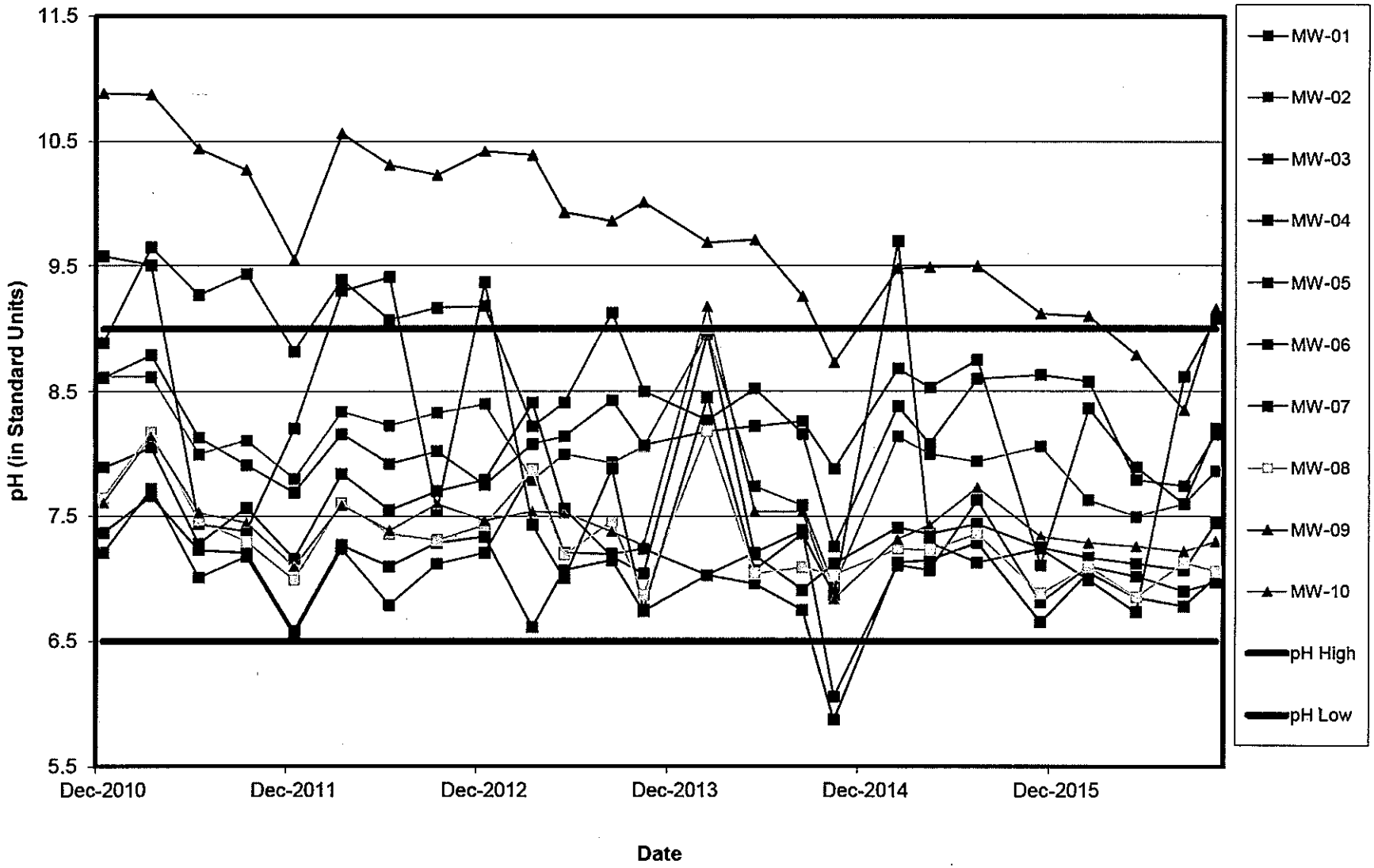
Dissolved Perchlorate vs. Time



MWG13-15_58480

Midwest Generation Will County Station, Romeoville, IL

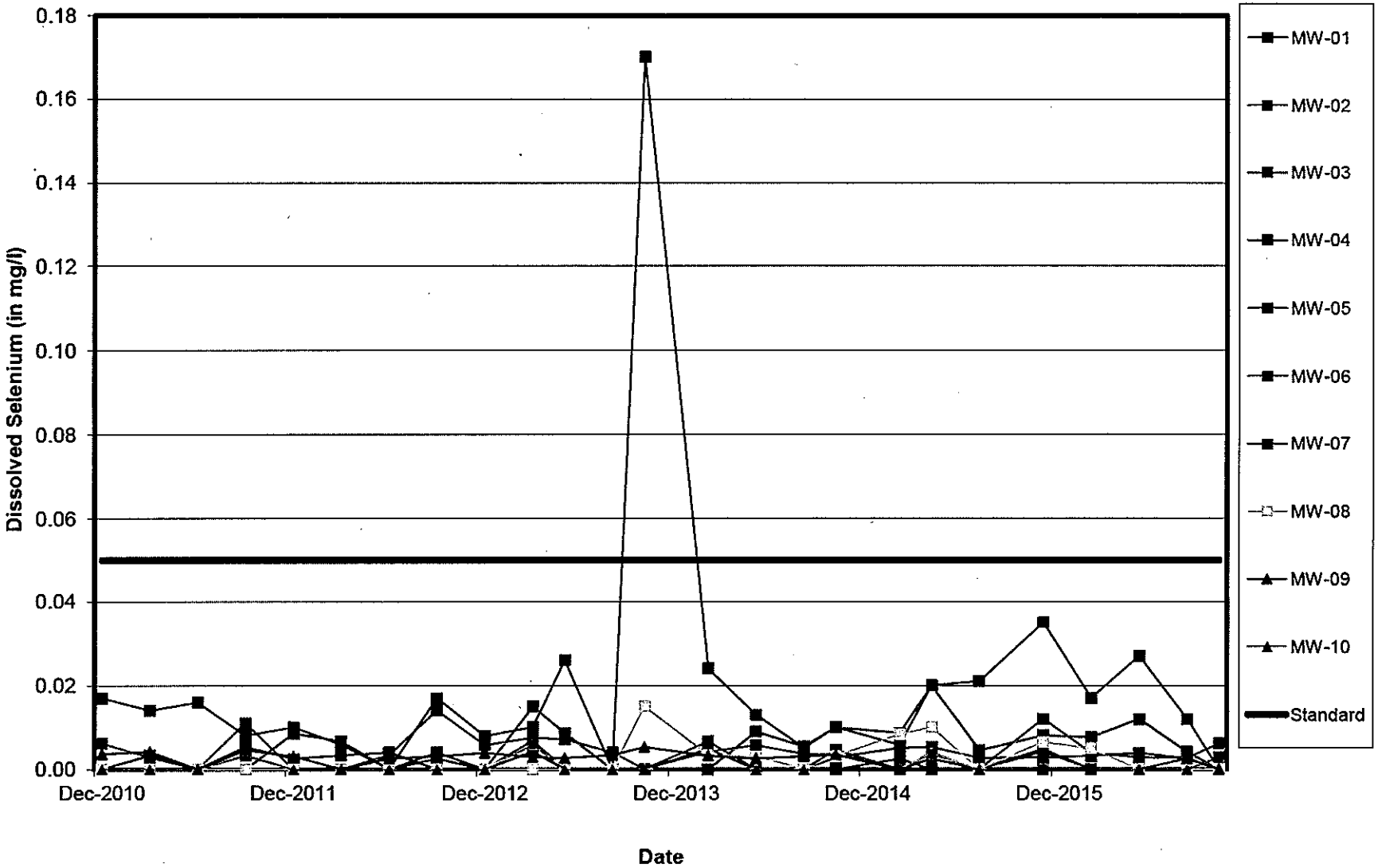
pH vs. Time



MWG13-15_58481

Midwest Generation Will County Station, Romeoville, IL

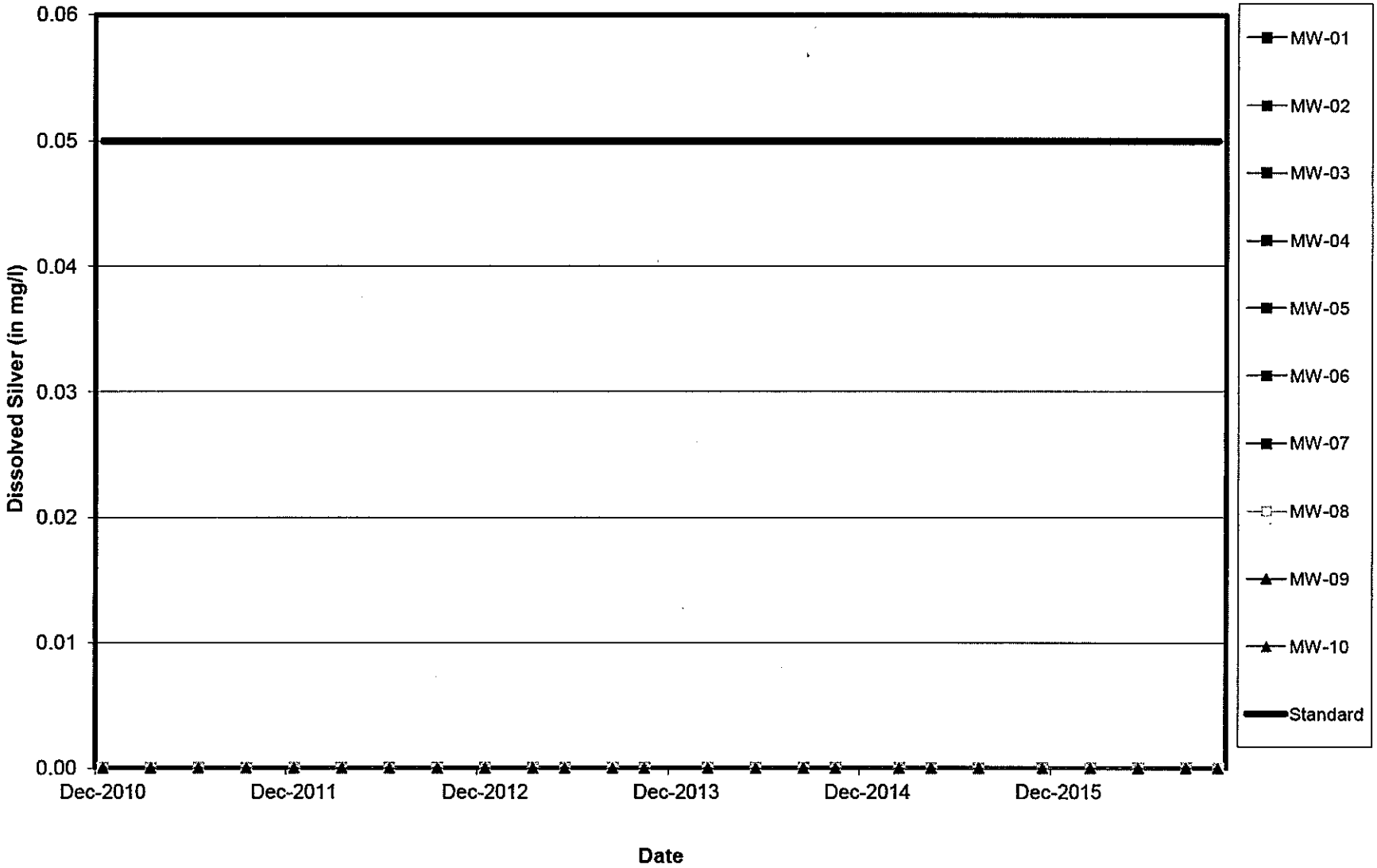
Dissolved Selenium vs. Time



MWG13-15_58482

Midwest Generation Will County Station, Romeoville, IL

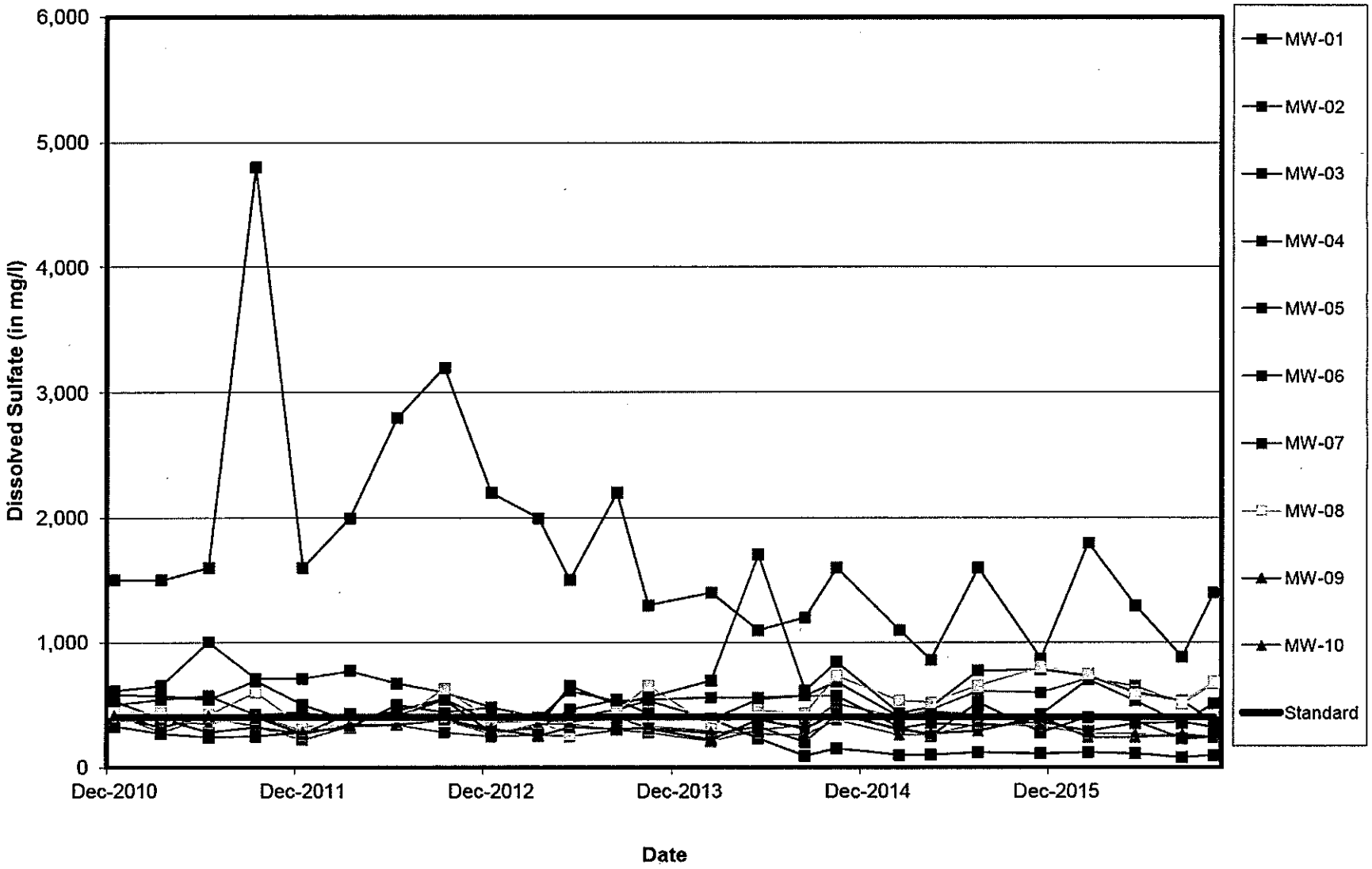
Dissolved Silver vs. Time



MWG13-15_58483

Midwest Generation Will County Station, Romeoville, IL

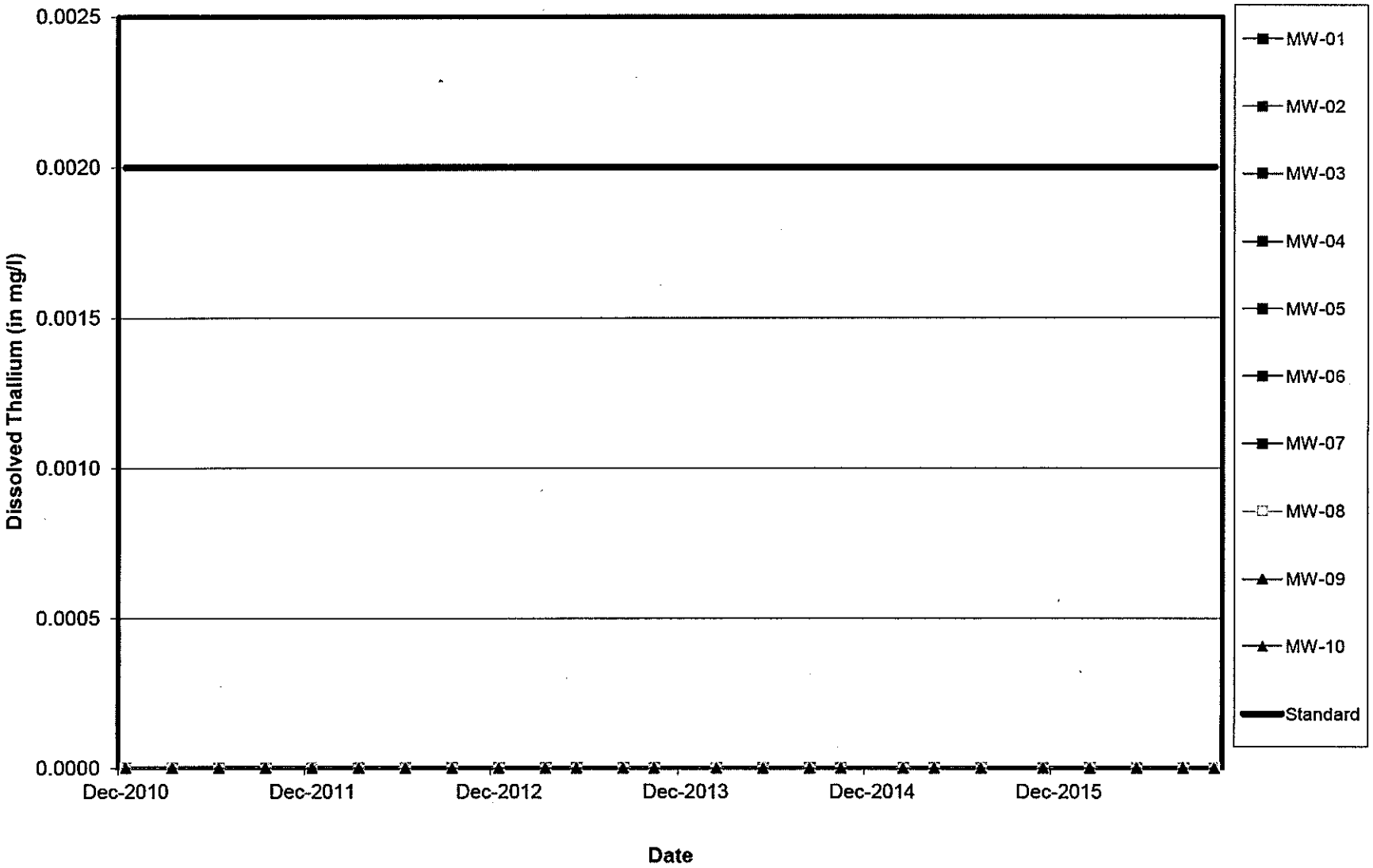
Dissolved Sulfate vs. Time



MWG13-15_58484

Midwest Generation Will County Station, Romeoville, IL

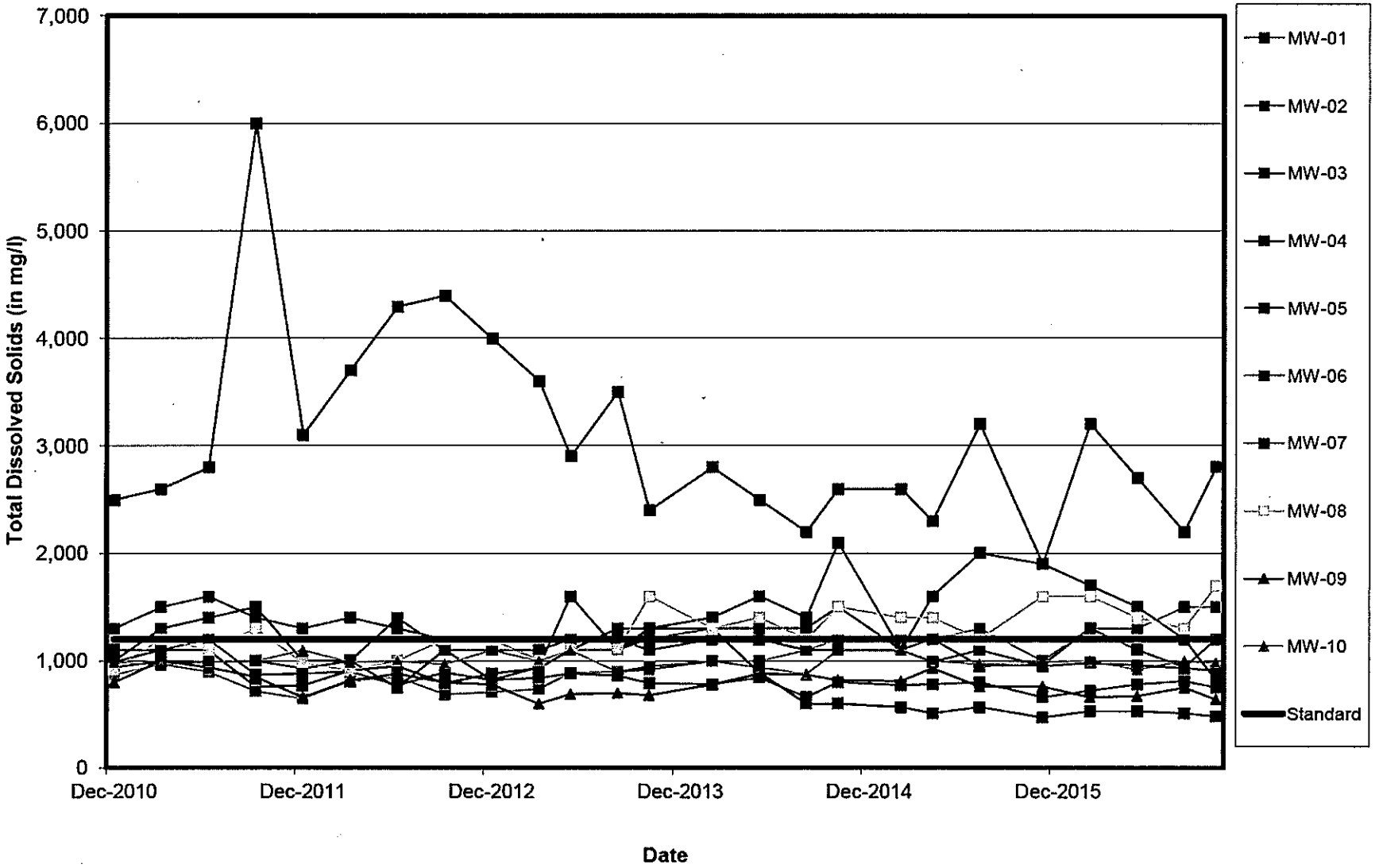
Dissolved Thallium vs. Time



MWG13-15_58485

Midwest Generation Will County Station, Romeoville, IL

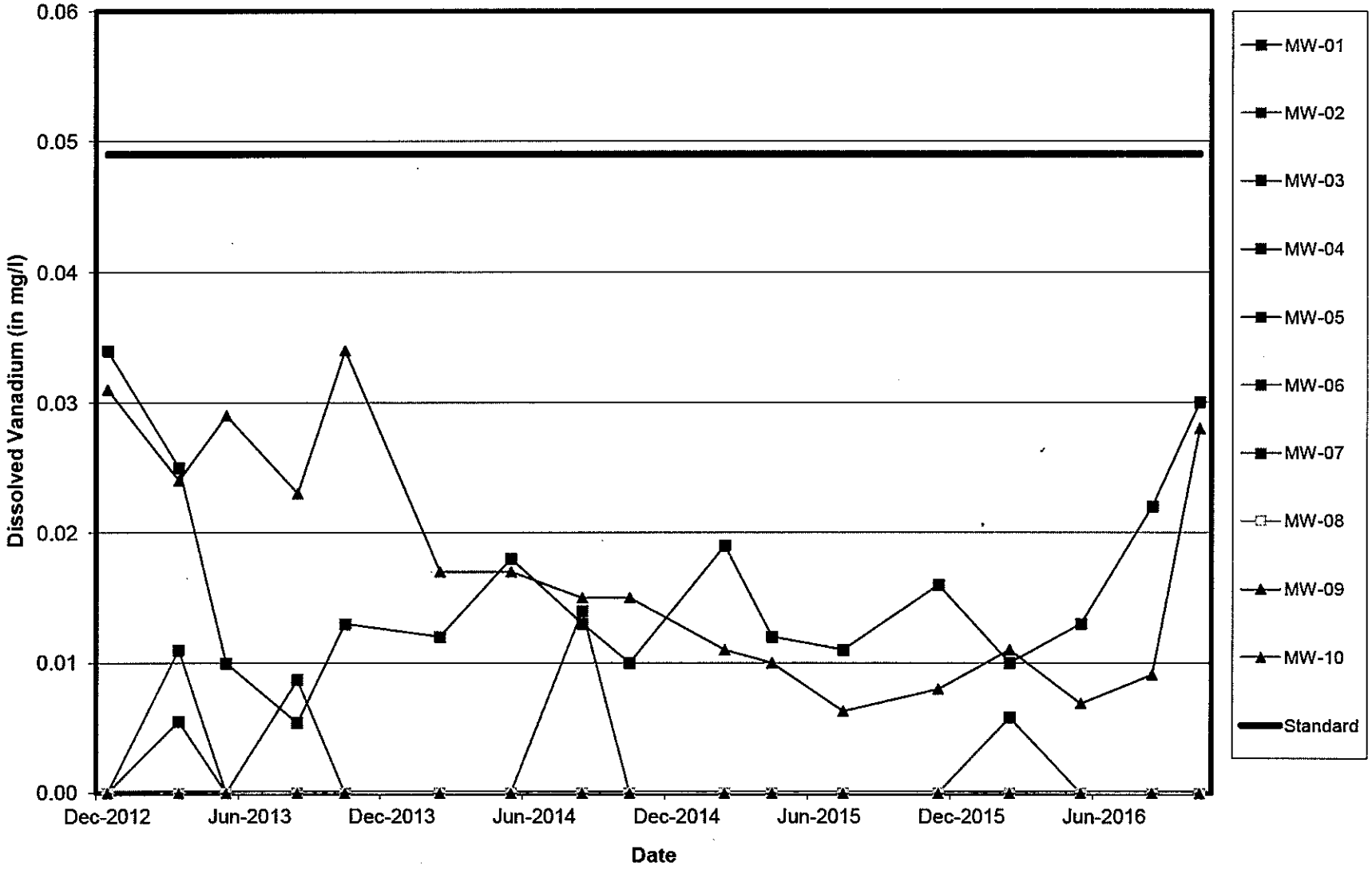
Total Dissolved Solids vs. Time



MWG13-15_58486

Midwest Generation Will County Station, Romeoville, IL

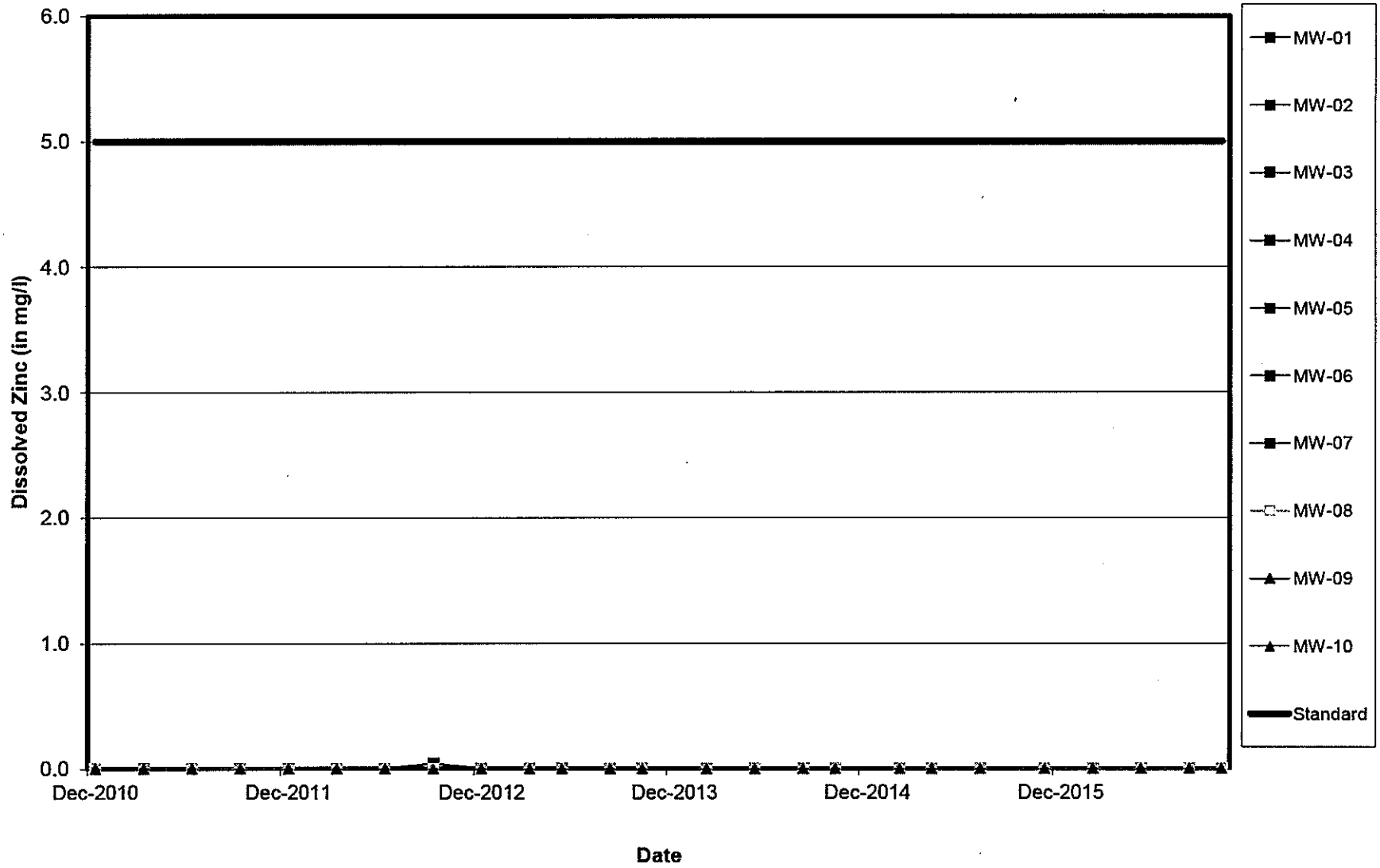
Dissolved Vanadium vs. Time



MWG13-15_58487

Midwest Generation Will County Station, Romeoville, IL

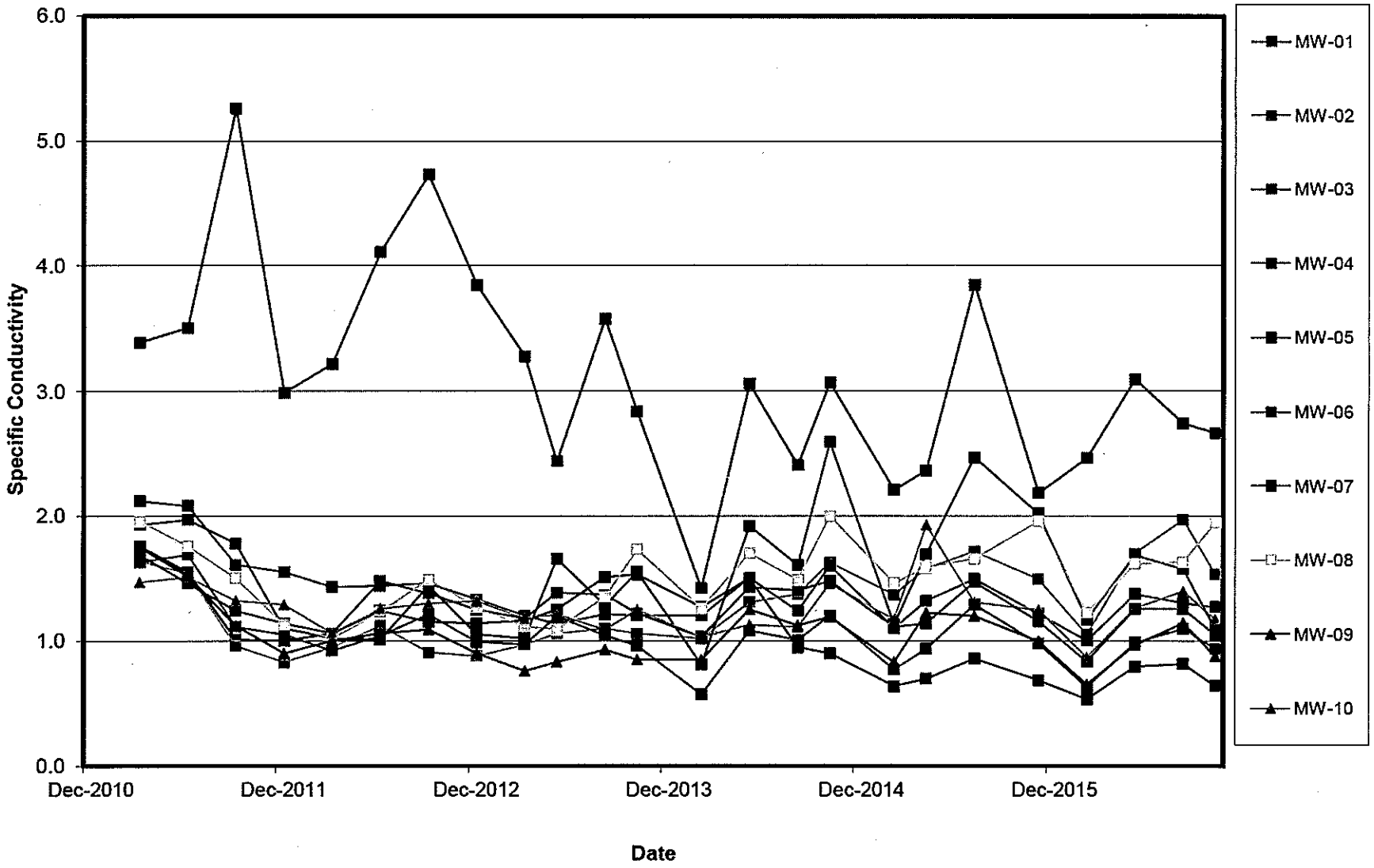
Dissolved Zinc vs. Time



MWG13-15_58488

Midwest Generation Will County Station, Romeoville, IL

Specific Conductivity vs. Time



MWG13-15_58489